



TEXAS DEPARTMENT OF WATER RESOURCES

REPORT 244

STREAMFLOW AND RESERVOIR-CONTENT RECORDS IN TEXAS

Compilation Report

January 1889 through December 1975

By

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VOLUME 2

Gaging Stations in the Brazos and  
Colorado Basins and  
Adjoining Coastal Basins

April 1980

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BRAZOS RIVER BASIN

08079500 Double Mountain Fork Brazos River at Lubbock, Texas

LOCATION: Lat 33°35'05", long 101°49'40", Lubbock County, in Mackenzie State Park in Lubbock, and 1.9 mi (3.05 km) downstream from Yellow House Creek.

PERIOD OF RECORD: September 1939 to September 1949.

GAGE: Water-stage recorder. Datum of gage is 3,132.7 ft (954.8 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 1,200 ac-ft/yr (1.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-49): Maximum discharge, 3,150 ft<sup>3</sup>/s (89.2 m<sup>3</sup>/s) May 7, 1949 (gage height, 7.43 ft or 2.26 m); no flow most of the time.

REMARKS: Records good. The station is located in a small pool (capacity, 29.5 ac-ft or 0.036 hm<sup>3</sup>). Figures of the daily discharge represent the inflow into the pool computed on the basis of the outflow and the change in contents, with no correction for evaporation, transpiration, or seepage.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	0	0	0	0	-
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	8.70	0	37.30	2170	302	4.70	4.60	477	39.0	4.20	6728
1942	0	0	0	14.0	0	803	6.30	0	1040	112	0	34.0	2009
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	210	68.0	15.0	0	0	0	0	0	293
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	6.70	0	0	6.70
1947	0	0	0	0	4.60	0	0	0	0	0	0	0	4.60
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	2990	65.0	2.20	0	0	-	-	-	-
MAX	0	0	8.70	14.0	3730	2170	302	4.70	1040	477	39.0	34.0	6728
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	.87	1.40	693	311	32.3	.64	94.6	59.6	3.90	3.42	1200
NO. OF MEAN	10	10	10	10	10	10	10	10	11	10	10	10	9
OF MEAN	.0%	.0%	.1%	.1%	57.8%	25.9%	2.7%	.0%	7.9%	5.0%	.3%	.3%	100%

BRAZOS RIVER BASIN

08079550 Buffalo Springs Lake near Lubbock, Texas

LOCATION: Lat 33°31'58", long 101°41'34", Lubbock County, at the spillway channel of the dam on the North Fork Double Mountain Fork Brazos River, 175 ft (53 m) upstream from the spillway crest, and 9 mi (14 km) southeast of Lubbock.

DRAINAGE AREA: 5,588 mi<sup>2</sup> (14,472.9 km<sup>2</sup>), of which 5,352 mi<sup>2</sup> (13,861.7 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1966-75): Maximum contents, 6,120 ac-ft (7.55 hm<sup>3</sup>) June 2, 1967 (elevation, 3,018.05 ft or 919.902 m); minimum contents, 5,310 ac-ft (6.65 hm<sup>3</sup>) Apr. 3, 1974 (elevation, 3,014.78 ft or 918.905 m).

REMARKS: The lake is formed by a rolled earthfill dam 1,600 ft (488 m) long, with a capacity of 5,360 ac-ft (6.6 hm<sup>3</sup>). The dam was completed and storage began on Sept. 15, 1959. The lake was first filled to spillway elevation on July 6, 1960. The dam and lake are the property of the Lubbock County Water Improvement District No. 1. The lake is used for recreational purposes, but the water may be sold to the Cities of Lubbock and Slaton for their municipal use. The uncontrolled service spillway is a concrete chute, 138 ft (42 m) wide at the crest, and is designed to discharge 26,200 ft<sup>3</sup>/s (742 m<sup>3</sup>/s) at an elevation of 3,028.7 ft (923.15 m).

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1966	-	-	-	-	-	-	-	-	-	-	-	5370
1967	5360	5360	5360	5360	5400	5390	5380	5410	5360	5340	5370	5360
1968	5390	5400	5370	5400	5390	5370	5390	5390	5380	5410	5410	5410
1969	5410	5420	5420	5370	5380	5360	5380	5380	5410	5410	5380	5380
1970	5380	5380	5380	5400	5450	5390	5360	5370	5380	5370	5380	5370
1971	5370	5370	5370	5380	5450	5370	5380	5380	5400	5390	5390	5380
1972	5380	5380	5380	5370	5390	5420	5380	5410	5380	5390	5390	5380
1973	5390	5390	5390	5390	5380	5380	5420	5370	5370	5380	5380	5370
1974	5370	5370	5360	5390	5360	5340	5390	5400	5390	5380	5380	5380
1975	5380	5380	5370	5370	5380	5380	5370	5370	5380	5380	5390	5390
MAX	5410	5420	5420	5400	5450	5420	5420	5410	5410	5410	5410	5410
MIN	5360	5360	5360	5360	5360	5340	5360	5370	5360	5340	5370	5360
MEAN	5381	5383	5378	5381	5398	5378	5383	5387	5383	5383	5386	5379
NO. OF MEAN	9	9	9	9	9	9	9	9	9	9	9	10
DISTR OF MEAN	8.3%	8.3%	8.3%	8.3%	8.4%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%

BRAZOS RIVER BASIN

08079600 Double Mountain Fork Brazos River at Justiceburg, Texas

LOCATION: Lat 33°02'18", long 101°11'50", Garza County, at the bridge on U.S. Highway 84, and 250 ft (76 m) downstream from the Panhandle and Santa Fe Railroad Co. bridge.

DRAINAGE AREA: 1,466 mi<sup>2</sup> (3,796.9 km<sup>2</sup>), of which 1,222 mi<sup>2</sup> (3,165 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1961 to December 1975. Prior to October 1963, published as "Sand Creek" or "South Fork Double Mountain Fork Brazos River at Justiceburg".

GAGE: Water-stage recorder. Datum of gage is 2,222.47 ft (677.409 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 22,223 ac-ft/yr (27.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 49,600 ft<sup>3</sup>/s (1,400 m<sup>3</sup>/s) May 6, 1969 (gage height, 19.8 ft or 6.04 m, from floodmarks); no flow at times most years.

Maximum stages since at least 1895, 25.8 ft (7.86 m) in 1914, from information by a local resident.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	-	-	-	-	21.0	-
1962	13.0	6.60	2.60	5.20	2.00	6610	2160	1370	19080	300	12.0	2.11	29772
1963	22.0	15.0	50.0	40.0	7890	24540	60.0	345	555	1130	1050	9.1	35706
1964	298	15.0	3.20	0	1470	1810	0	1310	972	0	131	302	6311
1965	1.00	0	60.0	396	16260	502	19.0	7500	974	127	7.80	583	26430
1966	16.0	8.40	10.0	7160	1300	370	19.0	2970	446	4.50	4.90	4.40	12313
1967	3.00	6.60	2750	710	570	30340	14450	37.0	1660	967	5.70	8.30	51508
1968	434	806	1700	229	664	727	833	1080	0	203	2300	35.0	9011
1969	1.70	3.50	1670	1580	21950	719	9.3	2040	10840	5870	1520	30.0	46233
1970	12.0	5.80	5020	150	2890	427	1.90	198	1400	245	.60	.70	10351
1971	.70	0	0	7.40	2080	479	699	5900	13230	657	22.0	50.0	23125
1972	10.0	8.00	7.00	3.00	1020	3010	2470	25110	2110	437	59.0	30.0	34274
1973	456	1070	1210	69.0	74.0	149	1660	170	1330	5.70	.20	0	6194
1974	0	.06	0	127	90.0	25.0	84.0	615	3230	1700	89.0	8.80	5969
1975	5.10	22.0	.40	21.0	224	1210	3740	3340	5050	6.00	353	7.00	13978
MAX	456	1070	5020	7160	21950	30340	14450	25110	19080	5870	2300	583	51508
MIN	0	0	0	0	2.00	25.0	0	37.0	0	0	.20	0	5969
MEAN	90.9	140	892	750	4035	5066	1872	3713	4348	832	397	86.7	22223
NO. OF MEAN	14	14	14	14	14	14	14	14	14	14	14	15	14
DISTR	.4%	.6%	4.0%	3.4%	18.2%	22.8%	8.4%	16.7%	19.6%	3.7%	1.8%	.4%	100%

BRAZOS RIVER BASIN

08080000 Double Mountain Fork Brazos River near Rotan, Texas

LOCATION: Lat 32°56', long 100°29', Fisher County, at the bridge on State Highway 70, 3.1 mi (5.0 km) downstream from Red Creek, and 5 mi (8.0 km) north of Rotan.

DRAINAGE AREA: 7,740 mi<sup>2</sup> (20,046.6 km<sup>2</sup>), of which 6,470 mi<sup>2</sup> (16,767.3 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: January 1950 to September 1951.

GAGE: Moveable wire-weight gage. Datum of gage is 1,771.97 ft (540.1 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1950-51): Maximum discharge, 11,500 ft<sup>3</sup>/s (325.7 m<sup>3</sup>/s) August 22, 1951 (gage height, 9.88 ft or 2.96 m); no flow at times.

REMARKS: Records poor. The daily discharge is published only to show the distribution of runoff. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	11.0	337	0	6300	32040	2430	10290	2130	28750	482	0	0	82770
1951	0	0	0	0	3700	6760	1820	10560	254	-	-	-	-
MAX	11.0	337	0	6300	32040	6760	10290	10560	28750	482	0	0	82770
MIN	0	0	0	0	3700	2430	1820	2130	254	482	0	0	82770
MEAN	5.50	169	0	3150	17870	4595	6055	6345	14502	482	0	0	53174
NO.	2	2	2	2	2	2	2	2	2	1	1	1	1
DISTR OF MEAN	.0%	.3%	.0%	5.9%	33.6%	8.6%	11.4%	11.9%	27.3%	.9%	.0%	.0%	100%

BRAZOS RIVER BASIN

08080500 Double Mountain Fork Brazos River near Aspermont, Texas

LOCATION: Lat 33°00'29", long 100°10'49", Stonewall County, at the bridge on U.S. Highway 83, 0.3 mi (0.5 km) downstream from Hitson Creek, and 10 mi (16 km) south of Aspermont.

DRAINAGE AREA: 8,796 mi<sup>2</sup> (22,781.6 km<sup>2</sup>), of which 6,923 mi<sup>2</sup> (17,953.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: January 1924 to September 1934, July 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,624.79 ft (495.236 m) above mean sea level, datum of 1929, Dec. 3, 1923 to Sept. 30, 1934, nonrecording gage at site 90 ft (27 m) downstream at datum 2.0 ft (0.61 m) higher, and June 8, 1939 to Aug. 12, 1972, recording gage at present site and at datum 2.0 ft (0.61 m) higher.

AVERAGE DISCHARGE: 48 years (1924-34, 1939-75), 121,174 ac-ft/yr (149.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-34, 1939-75): Maximum discharge, 91,400 ft<sup>3</sup>/s (2,590 m<sup>3</sup>/s) Sept. 26, 1955 (gage height, 29.5 ft or 8.99 m, present datum); no flow at times most years.

Maximum stage since at least 1899, that of Sept. 26, 1955.

REMARKS: Records fair. There are several diversions above the station for oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	34.9	13.3	10.5	9770	4510	732	764	0	7470	2470	0	0	25775
1925	21.8	0	0	40000	14800	1040	1660	27600	37400	5910	1980	45.2	130457
1926	30.0	25.2	9.16	14700	8320	14700	17400	55800	25700	162000	4310	11000	314901
1927	1770	2980	1380	3990	688	16200	22400	8310	4470	2370	4.20	11.0	64573
1928	85.0	1.20	158	8.90	44800	3840	50300	19500	237	232	545	74.0	119781
1929	25.0	71.0	664	1070	23700	19100	12600	6.10	54800	898	52.0	4.30	112990
1930	1.80	2.80	4.30	28000	97200	19300	554	111	5950	11400	1370	12200	176094
1931	450	1780	370	762	4130	2270	3300	0	20.0	18100	9880	806	41868
1932	4040	6380	459	9040	14900	32000	23100	26300	90400	4830	916	14900	227265
1933	1810	502	1120	11.0	18900	305	5340	24000	6250	1760	306	582	60886
1934	83.0	12.2	953	19300	3330	5720	0	0	14900	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	1320	15960	0	3080	49.0	45.0	-
1940	35.0	783	0	1760	6270	12980	238	36210	14420	1.20	7170	2.87	80154
1941	10.0	2050	13940	70830	171200	50900	26320	13150	24770	127300	5710	21.40	507820
1942	570	84.0	18.0	8200	1740	8360	1900	17950	24150	32710	1660	38.50	101192
1943	1600	84.0	1410	2280	7430	9820	7590	4.00	3.00	1.20	3.60	64.0	30290
1944	12.0	627	26.0	411	8640	2510	14930	1550	1370	1460	987	23.30	34653
1945	210	52.0	1310	398	529	8920	28240	201	5170	25610	128	7.30	70775
1946	43.0	0	7.50	25.0	2620	6780	815	10860	11830	33740	723	57.90	73234
1947	548	.60	16.0	89.0	110300	6460	2570	235	2580	1240	408	53.70	129817
1948	20.0	10190	661	7.90	3570	24050	35140	5260	259	4790	9640	13.0	93601
1949	111	188	32.0	3240	25300	30310	642	971	25120	2920	319	21.0	89174
1950	15.0	306	1.20	8410	45910	4090	12930	3070	45470	829	31.0	25.0	121087
1951	12.0	7.50	7.10	52.0	6940	22420	2110	12710	473	20.0	.60	0	44752
1952	0	0	14.0	532	11910	585	5880	892	497	0	1.96	36.0	20542
1953	6.10	12.0	433	1240	11860	1520	6600	10590	140	52970	2320	1.70	87861
1954	39.0	14.0	0	53040	59260	4640	4.20	73.0	0	139	1280	8.70	118498
1955	14.0	3690	15910	358	106300	30860	56740	2070	161400	74080	2150	10.60	454632
1956	638	498	52.0	33.0	11690	1920	1460	1420	5.20	841	85.0	47.0	18689
1957	0	13060	241	40670	101800	78490	9320	4030	6480	16600	12720	341	283752
1958	259	193	919	6300	35940	7220	1320	2360	9800	981	1210	68.0	66570
1959	23.0	11.0	11.0	621	5470	68510	71910	9850	9.1	15640	593	85.90	181238
1960	862	543	156	11.0	2980	3620	73930	1040	56.0	137200	4170	23.30	226898
1961	2610	2730	1850	405	103	60400	70880	4060	1360	649	4810	5.56	150413
1962	180	42.0	67.0	197	235	29660	3640	2960	82270	2280	1200	11.40	123871
1963	218	118	33.0	6700	19530	75020	1300	107	10920	2090	2500	4.14	118950
1964	158	667	25.0	6.20	683	4080	214	1030	1810	24.0	171	24.0	8892
1965	12.0	4.20	4.60	493	70160	12500	32.0	21040	4360	25280	166	3.70	134422
1966	441	266	174	11980	9670	7180	15.0	25570	18990	302	20.0	9.4	74617
1967	7.50	5.40	644	4390	4790	93090	26460	1500	10230	619	159	63.0	141958
1968	1650	1890	10240	2570	4630	22210	13240	5550	203	6.20	2460	8.35	65484
1969	54.0	73.0	1470	684	44690	5490	21.0	670	62160	17950	7350	16.90	142302
1970	1470	584	11750	2020	4950	7540	25.0	2.40	353	173	0	0	28867
1971	0	0	0	174	31150	9230	610	67350	44170	16960	2350	18.40	173834
1972	555	411	104	154	3040	6310	2800	175000	17580	11530	5850	16.80	225014
1973	6660	5680	11810	2350	1060	2110	688	801	8620	177	133	22.0	40111



BRAZOS RIVER BASIN

08080500 Double Mountain Fork Brazos River near Aspermont, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	9.00	.60	11.0	1940	2130	2550	0	4610	25930	16550	5190	832	59753
1975	511	1220	504	434	4900	1500	37360	12810	11990	1060	4590	377	77256
MAX	6660	13060	15910	70830	171200	93090	73930	175000	161400	162000	12720	14900	507820
MIN	0	0	0	6.20	103	305	0	0	0	0	0	0	8892
MEAN	594	1231	1700	7652	24993	17841	13679	13232	18386	17825	2295	1746	121174
NO.	47	47	47	47	47	47	48	48	48	47	47	47	46
DISTR OF MEAN	.5%	1.0%	1.4%	6.3%	20.6%	14.7%	11.3%	10.9%	15.2%	14.7%	1.9%	1.4%	100%

BRAZOS RIVER BASIN

08080540 McDonald Creek near Post, Texas

LOCATION: Lat 33°21'03", long 101°13'38", Garza County, at the bridge on Farm Road 651, 2.6 mi (4.2 km) downstream from Lake Creek, 4.1 mi (6.6 km) upstream from the mouth, and 14.4 mi (23.2 km) northeast of Post.

DRAINAGE AREA: 103 mi<sup>2</sup> (266.8 km<sup>2</sup>), of which 23.8 mi<sup>2</sup> (61.6 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,301.6 ft (701.53 m) above mean sea level.

AVERAGE DISCHARGE: 11 years, 1,288 ac-ft/yr (1.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 15,300 ft<sup>3</sup>/s (433 m<sup>3</sup>/s) June 9, 1968 (gage height, 14.98 ft or 4.568 m); no flow for many days.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	121	0	0	-
1966	0	0	.10	28.0	1.60	102	6.70	806	109	0	0	0	1053
1967	0	0	85.0	46.0	190	93.0	47.0	2.00	42.0	8.20	0	.50	514
1968	85.0	21.0	18.0	0	55.0	3330	6.80	36.0	4.40	2.20	1.90	1.50	3562
1969	1.40	.60	1.30	1.20	1870	.50	0	343	602	0	47.0	21.0	2888
1970	15.0	5.30	23.0	8.50	8.50	3.40	0	.80	6.20	7.70	0	.50	78.9
1971	.50	.80	0	.08	313	66.0	5.60	366	808	34.0	19.0	28.0	1641
1972	1.00	0	3.00	6.00	105	9.00	128	102	184	39.0	16.0	20.0	613
1973	36.0	31.0	326	181	.70	0	99.0	0	.80	0	0	0	674
1974	0	0	0	0	83.0	18.0	5.40	329	331	436	28.0	6.00	1236
1975	8.80	25.0	6.10	4.20	3.70	8.50	354	28.0	118	1.00	18.0	.40	576
MAX	85.0	31.0	326	181	1870	3330	354	806	808	436	47.0	28.0	3562
MIN	0	0	0	0	.70	0	0	0	.80	0	0	0	78.9
MEAN	14.8	8.37	46.2	27.5	263	363	65.2	201	221	59.0	11.8	7.08	1288
NO.	10	10	10	10	10	10	10	10	10	11	11	11	10
DISTR OF MEAN	1.1%	.6%	3.6%	2.1%	20.4%	28.2%	5.1%	15.6%	17.1%	4.6%	.9%	.5%	100%

BRAZOS RIVER BASIN

08080600 Running Water Draw near Clovis, New Mexico

LOCATION: Lat 34°31'55", long 103°12'05", Curry County, 0.25 mi (0.4 m) upstream from the bridge on State Highway 18, and 8 mi (12.9 m) north of Clovis, New Mexico.

DRAINAGE AREA: 109 mi<sup>2</sup> (287.3 km<sup>2</sup>), of which 14 mi<sup>2</sup> (36.3 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1956 to September 1964.

GAGE: Water-stage recorder. Datum of gage is 4,250 ft (1,295.4 m) above mean sea level, datum of 1929. Prior to October 1956, crest-stage gage at site 900 ft (274.3 m) downstream at datum 0.4 ft (0.12 m) lower.

AVERAGE DISCHARGE: 9 years, 1,301 ac-ft/yr (1.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1956-64): Maximum discharge, 7,090 ft<sup>3</sup>/s (200.8 m<sup>3</sup>/s) September 6, 1957 (gage height, 9.95 ft or 3.03 m, from floodmarks); no flow most of the time.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	234	0	0	-
1957	0	0	0	145	1520	99.0	2.00	87.0	2770	0	0	0	4623
1958	0	0	0	0	0	0	0	0	15.0	0	0	0	15.0
1959	0	0	0	0	8.10	185	40.0	5.60	0	0	0	0	239
1960	0	0	0	0	0	176	642	1.80	16.0	313	0	0	1149
1961	0	0	.20	0	0	0	0	5.60	0	0	0	0	5.80
1962	0	0	0	0	0	0	2.20	0	0	0	0	0	2.20
1963	0	0	0	0	383	3660	42.0	0	0	0	0	0	4085
1964	0	0	0	0	0	6.30	0	5.40	39.0	-	-	-	-
MAX	0	0	.20	145	1520	3660	642	87.0	2770	313	0	0	4623
MIN	0	0	0	0	0	0	0	0	0	0	0	0	2.20
MEAN	0	0	.02	18.1	239	516	91.0	13.2	355	68.4	0	0	1301
NO.	8	8	8	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	.0%	.0%	.0%	1.4%	18.4%	39.7%	7.0%	1.0%	27.3%	5.3%	.0%	.0%	100%

**BRAZOS RIVER BASIN**  
**08080700 Running Water Draw at Plainview, Texas**

LOCATION: Lat 34°10'44", long 101°42'08", Hale County, at the bridge on Broadway Street in Plainview, 0.5 mi (0.8 km) upstream from the Atchison, Topeka, and Santa Fe Railway Co. bridge.

DRAINAGE AREA: 1,291 mi<sup>2</sup> (3,343.7 km<sup>2</sup>), of which 809 mi<sup>2</sup> (2,154.3 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: July 1939 to September 1953, October 1956 to April 1960, March 1961 to December 1975. Prior to October 1963, published as "White River at Plainview"

GAGE: Water-stage recorder. Datum of gage is 3,341.11 ft (1,018.370 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 35 years (1939-53, 1956-75), 2,382 ac-ft/yr (2.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-53, 1956-75): Maximum discharge, 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s) June 6, 1941 (gage height, 8.75 ft or 2.667 m); no flow most of the time.

Maximum discharge since at least 1880, that of June 6, 1941; maximum stage, 9.38 ft (2.859 m) July 8, 1960 (discharge, 9,130 ft<sup>3</sup>/s or 259 m<sup>3</sup>/s, by contracted-opening measurement).

REMARKS: Records fair. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	0	12.0	0	.20	0	.60	-
1940	.60	8.50	0	2.60	5.00	0	0	.20	0	2.60	20.0	1.40	40.9
1941	1.00	1.20	8.30	6.10	36.10	21020	813	240	23.0	5450	184	1.60	31358
1942	0	0	.40	175	0	169	.20	1.60	8.50	161	0	5.80	521
1943	0	0	0	.20	3.20	0	44.0	0	.40	0	0	1.00	48.8
1944	2.60	0	0	0	14.0	59.0	.40	0	.20	0	0	1.60	77.8
1945	0	0	0	.40	0	0	.20	.80	0	.80	0	0	2.20
1946	0	0	0	0	0	0	0	1.60	18.0	1080	.40	6.82	1782
1947	0	0	0	.20	14.30	17.0	15.0	0	0	0	0	0	1462
1948	0	.80	0	1.60	3.40	2.80	0	18.0	2.80	.60	0	0	30.0
1949	16.0	6.10	1.40	13.0	49.0	11.0	8.50	6.00	7.30	1.60	0	.60	120
1950	.40	0	0	7.30	6.90	4.80	50.0	20.0	48.0	4.40	.60	1.60	144
1951	.80	3.00	1.40	.80	5480	3.60	4.60	.40	18.8	.40	0	0	5514
1952	1.00	0	0	20.0	.40	.20	3.00	.20	0	0	0	0	24.8
1953	.20	0	0	0	0	0	6.50	2.00	0	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	0	0	0	-
1957	0	1.20	12.0	73.0	912	2480	2.20	464	0	24.0	19.0	2.60	3990
1958	19.0	8.30	33.0	21.0	8.10	34.0	6.90	5.00	5.20	.10	1.40	0	142
1959	0	0	0	0	13.0	2570	1690	0	0	6.00	0	40.0	4319
1960	6.30	3.80	2.20	1.40	-	-	-	-	-	-	-	-	-
1961	-	-	11.0	3.60	40.0	17.0	639	3.00	3.00	0	6.90	.40	-
1962	.20	0	0	6.00	1170	220	49.0	4.60	68.0	46.0	9.1	1.20	1574
1963	0	2.00	.80	1.20	130	1660	69.0	23.0	35.0	.80	15.0	.60	1937
1964	1.60	9.1	1.40	0	14.0	1040	.60	19.0	93.0	3.60	.80	6.50	1190
1965	.40	2.00	.60	0	6.00	5820	0	5.40	8.50	7.00	0	.30	5850
1966	.80	.10	3.00	10.0	2.20	19.0	1.80	33.0	8.90	0	0	0	78.8
1967	0	1.40	1.30	0	186	774	1090	1.90	6.80	0	0	1.60	2063
1968	6.80	7.90	4.60	5.50	64.0	1200	69.0	57.0	25.0	9.9	24.0	3.90	1478
1969	0	5.20	21.0	7.20	3810	417	307	22.0	81.0	129	11.0	1.10	4811
1970	0	0	17.0	254	209	4.00	0	10.0	4.60	47.0	0	0	546
1971	0	14.0	0	12.0	47.0	958	1.00	2.30	639	8.00	2.00	8.00	1691
1972	0	0	0	0	250	74.0	191	61.0	39.0	9.3	6.80	.20	631
1973	1.70	5.80	45.0	25.0	16.0	.80	18.0	28.0	26.0	5.30	0	0	172
1974	0	0	13.0	5.00	23.0	3380	.10	530	84.0	110	5.90	5.20	4156
1975	3.30	18.0	0	6.00	13.0	75.0	71.0	48.0	28.0	.20	12.0	.70	275
MAX	19.0	18.0	45.0	254	5480	21020	1690	530	639	5450	184	6.82	31358
MIN	0	0	0	0	0	0	0	0	0	0	0	0	2.20
MEAN	1.96	3.07	5.38	19.9	547	1313	156	49.1	38.8	215	9.7	23.3	2382
NO.	32	32	33	33	32	32	33	33	33	33	33	33	30
DISTR OF MEAN	.1x	.1x	.2x	.8x	23.0x	55.1x	6.6x	2.1x	1.6x	9.0x	.4x	1.0x	100x

BRAZOS RIVER BASIN

08080910 White River Reservoir near Spur, Texas

LOCATION: Lat 33°27'28", long 101°05'22", Crosby County, on the right bank at the intake structure at White River Dam on the White River, 0.5 mi (0.8 km) downstream from Sand Creek, 1.7 mi (2.7 km) upstream from Home Creek, 13 mi (21 km) west of Spur, and 22.8 mi (36.7 km) upstream from the Salt Fork Brazos River.

DRAINAGE AREA: 3,089 mi<sup>2</sup> (7,948.7 km<sup>2</sup>), of which 2,380 mi<sup>2</sup> (6,164.2 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1964-75): Maximum contents, 45,580 ac-ft (56.2 hm<sup>3</sup>) Oct. 25, 1974 (elevation, 2,372.84 ft or 723,242 m); minimum contents since first reaching the normal operating level in June 1969, 25,990 ac-ft (32.0 hm<sup>3</sup>) June 1, 1974 (elevation 2,361.39 ft or 719,752 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 3,300 ft (1,010 m) long, with a capacity of 44,900 ac-ft (55.4 hm<sup>3</sup>). The dam was completed and storage began in October 1963. The emergency spillway is an open cut channel through rock, 1,100 ft (335 m) wide, located at the right end of the dam. The spillway is designed to discharge 69,000 ft<sup>3</sup>/s (1,950 m<sup>3</sup>/s) with a 7.5-foot (2.29-m) head. The uncontrolled service spillway is a 5-foot (2-m) square drop-inlet structure that discharges through a 5-foot (2-m) square concrete conduit. The service outlet is a controlled 18-inch diameter (457-millimeter) concrete pipe that is connected to the 5-foot (2-m) conduit. There is a pump station about 1,400 ft (427 m) upstream from the dam on the right bank. The pump station is connected to the reservoir by a 58-inch diameter (1,473-millimeter) concrete pipe. The water in the reservoir is used for municipal and industrial supplies for the Cities of Crosbyton, Post, Ralls, and Spur. The dam is operated by the White River Municipal Water District.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1964	-	-	-	2 250	2 080	2 400	2 250	2 080	2 070	2 090	2 010	2 060
1965	2 020	2 000	1 960	3 170	4 750	4 540	4 760	4 690	5 000	5 190	4 910	4 830
1966	4 750	4 660	4 370	4 430	4 110	4 470	4 020	1 7630	2 0490	1 9590	1 9100	1 8720
1967	18 410	18 030	19 120	18 680	20 130	20 910	2 1630	2 0490	2 0280	1 9410	1 9000	1 8690
1968	18 860	18 970	19 810	19 270	1 9990	3 1120	3 1280	3 0930	3 1390	3 1920	3 2210	3 1820
1969	3 1550	3 1390	3 1420	3 1140	3 7930	3 8410	3 6750	3 5900	3 8870	3 9830	3 8520	3 8340
1970	3 8090	3 7750	3 8270	3 7770	3 7520	3 6230	3 4520	3 3120	3 2730	3 2160	3 1360	3 0820
1971	3 0380	2 9900	2 9130	2 8350	3 3680	3 4280	3 2720	3 3880	3 9130	3 8360	3 7680	3 7450
1972	3 6910	3 6400	3 5440	3 4330	3 4520	3 4480	3 4080	3 4980	3 8410	3 8600	3 8070	3 7640
1973	3 8020	3 8300	3 8540	3 8490	3 7290	3 5760	3 4670	3 3280	3 2440	3 1420	3 0580	2 9790
1974	2 9260	2 8580	2 7880	2 7000	2 6020	4 2830	4 0980	4 1510	4 3710	4 5520	4 4780	4 4360
1975	4 4000	4 4220	4 3300	4 2580	4 3760	4 3880	4 4340	4 3360	4 2600	4 1390	4 0640	4 0160
MAX	4 4000	4 4220	4 3300	4 2580	4 3760	4 3880	4 4340	4 3360	4 3710	4 5520	4 4780	4 4360
MIN	2 020	2 000	1 960	2 250	2 080	2 400	2 250	2 080	2 070	2 090	2 010	2 060
MEAN	2 6568	2 6382	2 6295	2 3955	2 5148	2 7443	2 6833	2 7654	2 8927	2 8790	2 8238	2 7890
NO.	11	11	11	12	12	12	12	12	12	12	12	12
DISTR OF MEAN	8.2%	8.1%	8.1%	7.4%	7.8%	8.5%	8.3%	8.5%	8.9%	8.9%	8.7%	8.6%

BRAZOS RIVER BASIN  
08080950 Duck Creek near Girard, Texas

LOCATION: Lat 33°21'22", long 100°42'17", Kent County, at the bridge on Farm Road 643, 2.5 mi (4.0 km) west of Girard, and 10.0 mi (16.1 km) upstream from the Salt Fork Brazos River.

DRAINAGE AREA: 431 mi<sup>2</sup> (1,116.3 km<sup>2</sup>), of which 152 mi<sup>2</sup> (393.7 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,006.08 ft (611.453 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 4,201 ac-ft/yr (5.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) June 4, 1974 (gage height, 15.22 ft or 4.639 m); no flow July 19 to Aug. 6, Aug. 18-21, 1966, Aug. 19, 1969, July 20, 1971, and Aug. 17-22, 1974.

Maximum stage since at least 1902 occurred in March or April 1918 (stage and discharge unknown).

REMARKS: Records good. There are several small diversions upstream from the gage.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	-	22.0	29.0	41.0	-
1965	49.0	42.0	52.0	145	83.0	33.0	132	352	316	313	28.0	34.0	1579
1966	31.0	30.0	38.0	44.0	37.0	236	5.70	10910	3140	68.0	64.0	62.0	14666
1967	66.0	47.0	109	94.0	937	187	19.0	3.70	65.0	40.0	29.0	59.0	1656
1968	49.0	115	76.0	64.0	43.0	1300	299	11.0	3.80	5.70	17.0	30.0	2013
1969	41.0	47.0	76.0	46.0	1110	203	3.20	1.40	1260	1170	81.0	92.0	4131
1970	95.0	60.0	137	70.0	301	18.0	4.20	4.40	177	23.0	33.0	58.0	981
1971	53.0	48.0	51.0	50.0	168	32.0	2.60	617	283	676	103	112	2196
1972	94.0	84.0	74.0	52.0	67.0	27.0	32.3	2260	640	118	87.0	95.0	3921
1973	192	141	311	169	143	50.0	74.0	19.0	214	63.0	74.0	85.0	1485
1974	87.0	85.0	89.0	180	137	7730	41.0	335	365	381	121	133	9684
1975	160	164	117	158	1920	220	304	412	238	160	169	196	4218
MAX	160	164	311	180	1920	7730	323	10910	3140	1170	169	196	14666
MIN	31.0	30.0	38.0	44.0	37.0	18.0	2.60	1.40	3.80	5.70	17.0	30.0	981
MEAN	78.8	78.5	103	97.5	450	912	110	1357	609	253	69.6	83.1	4201
NO.	11	11	11	11	11	11	11	11	11	12	12	12	11
DISTR OF MEAN	1.9%	1.9%	2.4%	2.3%	10.7%	21.7%	2.6%	32.3%	14.5%	6.0%	1.7%	2.0%	100%

BRAZOS RIVER BASIN

08081000 Salt Fork Brazos River near Peacock, Texas

LOCATION: Lat 33°12'43", long 100°25'53", Stonewall County, at the bridge on U.S. Highway 380, 2.9 mi (4.7 km) northwest of Peacock, 6.2 mi (10.0 km) upstream from Croton Creek, and 13.0 mi (20.9 km) northwest of Aspermont.

DRAINAGE AREA: 4,619 mi<sup>2</sup> (11,963.2 km<sup>2</sup>) of which 2,634 mi<sup>2</sup> (6,822.1 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: January 1950 to September 1951, October 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,724.32 ft (525.573 m) above mean sea level, datum of 1929. Prior to Sept. 19, 1964, nonrecording gage at site 2.9 mi (4.7 km) upstream at datum 19.39 ft (5.910 m) higher.

AVERAGE DISCHARGE: 14 years (1950-51, 1964-75), 34,337 ac-ft/yr (42.3 km<sup>3</sup>/yr).

EXTREMES: Period of record (1950-51, 1964-75): Maximum discharge, 19,000 ft<sup>3</sup>/s (538 m<sup>3</sup>/s) Aug. 13, 1972 (gage height, 13.75 ft or 4.191 m); no flow at times most years.

Maximum stage since at least 1939, that of Aug. 13, 1972.

REMARKS: Records fair. There is some regulation by White River Reservoir (station 08080910). There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	184	87.0	16.0	892	30020	3570	13340	1270	27140	1560	222	259	78560
1951	165	163	181	41.0	8980	4000	320	6660	3.80	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	.10	14.0	3.20	-
1965	5.00	9.6	12.0	28.0	2520	2050	33.0	5660	1710	6070	114	152	18364
1966	156	167	95.0	1310	1190	798	.20	23240	20880	807	283	250	49176
1967	166	125	2080	1490	3700	10470	2080	31.0	1130	58.0	11.0	49.0	21390
1968	280	313	2430	884	1780	28070	3340	461	2.80	3.70	219	260	38043
1969	105	116	314	247	11170	2510	9.3	216	5360	8480	4270	659	33456
1970	503	283	4120	783	855	1390	0	0	0	7.60	.08	0	7942
1971	.02	3.30	6.80	0	4470	3090	43.0	11190	18850	3950	852	755	43210
1972	366	290	341	81.0	1030	804	1560	43900	9380	3360	2580	926	64618
1973	2780	3310	6140	2060	1020	188	240	2.00	1030	63.0	82.0	138	17053
1974	191	163	154	526	368	13040	.02	4490	8860	5870	1830	638	36130
1975	603	1060	412	505	4640	264	4570	1340	3120	374	702	306	17896
MAX	2780	3310	6140	2060	30020	28070	13340	43900	27140	8480	4270	926	78560
MIN	.02	3.30	6.80	0	368	188	0	0	.10	.08	0	0	7942
MEAN	425	468	1254	681	5519	5403	1964	7574	7497	2354	860	338	34337
NO.	13	13	13	13	13	13	13	13	13	13	13	13	12
DISTR OF MEAN	1.2x	1.4x	3.7x	2.0x	16.1x	15.7x	5.7x	22.1x	21.8x	6.9x	2.5x	1.0x	100x

**BRAZOS RIVER BASIN**  
**08081200 Croton Creek near Jayton, Texas**

**LOCATION:** Lat 33°17'21", long 100°26'00", Stonewall County, 460 ft (140 m) upstream from a county road bridge, 1.1 mi (1.8 km) upstream from the mouth, and 8.6 mi (13.8 km) northeast of Jayton.

**DRAINAGE AREA:** 290 mi<sup>2</sup> (751.1 km<sup>2</sup>).

**PERIOD OF RECORD:** September 1959 to December 1975.

**GAGE:** Water-stage recorder. Datum of gage is 1,694.45 ft (516.468 m) above mean sea level, datum of 1929.

**AVERAGE DISCHARGE:** 17 years, 10,755 ac-ft/yr (13.3 hm<sup>3</sup>/yr).

**EXTREMES:** Period of record (1959-75): Maximum discharge, 10,600 ft<sup>3</sup>/s (300 m<sup>3</sup>/s) Oct. 18, 1960 (gage height, 12.40 ft or 3.780 m); no flow for many days.

Maximum stage since at least 1935, 13.5 ft (4.11 m) in 1941 or 1942, present datum, from information by local residents.

**REMARKS:** Records fair. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	5.20	3340	35.0	11.60	-
1960	161	136	32.0	6.00	20.0	32.0	3910	76.0	31.0	13240	171	2.82	18097
1961	126	196	100	21.0	1860	3820	2760	60.0	118	27.0	299	6.20	9393
1962	0	0	0	187	0	3470	631	421	4390	551	972	3.80	11002
1963	51.0	42.0	4.20	17.0	7230	5860	431	26.0	2180	55.0	618	51.0	16565
1964	30.0	129	14.0	28.0	48.0	688	29.0	61.0	224	2.60	74.0	2.20	1330
1965	0	0	0	643	473	1190	44.0	316	1060	1350	0	5.27	5603
1966	88.0	52.0	262	794	63.0	282	0	19430	7420	292	90.0	60.0	28833
1967	28.0	9.8	132	463	2470	2230	8090	195	1370	790	0	19.0	15797
1968	449	716	2300	253	1240	1560	402	1450	112	189	128	24.0	8823
1969	0	35.0	154	47.0	4660	883	6.00	65.0	4690	2120	562	1.65	13387
1970	100	81.0	691	81.0	246	5.80	0	0	9.9	29.0	0	0	1244
1971	0	0	0	0	1580	623	0	5880	3430	1090	124	3.32	13059
1972	49.0	41.0	445	61.0	405	422	314	6110	1170	522	327	1.42	10008
1973	433	450	947	444	132	37.0	28.0	2.10	965	1.30	1.30	0	3441
1974	0	0	0	63.0	81.0	3790	0	929	2150	1410	256	109	8788
1975	113	226	49.0	32.0	4360	318	190	144	248	1.70	91.0	27.0	5800
MAX	449	716	2300	794	7230	5860	8090	19430	7420	13240	972	11.60	28833
MIN	0	0	0	0	0	5.80	0	0	5.20	1.30	0	0	1244
MEAN	102	132	321	196	1554	1576	1052	2198	1740	1471	220	193	10755
NO.	16	16	16	16	16	16	16	16	17	17	17	17	16
DISTR OF MEAN	.9%	1.2%	3.0%	1.8%	14.5%	14.7%	9.8%	20.4%	16.2%	13.7%	2.1%	1.8%	100%



**BRAZOS RIVER BASIN**  
**08081500 Salt Croton Creek near Aspermont, Texas**

LOCATION: Lat 33°24'03", long 100°24'29", King County, 0.1 mi (0.2 km) downstream from Haystack Creek, 2.4 mi (3.9 km) downstream from Salt Flat Creek, 9.0 mi (14.5 km) upstream from the Salt Fork Brazos River, and 21 mi (34 km) northwest of Aspermont.

DRAINAGE AREA: 64.3 mi<sup>2</sup> (166.5 km<sup>2</sup>).

PERIOD OF RECORD: October 1956 to December 1975. Prior to October 1958, published as "Dove Creek near Aspermont".

GAGE: Water-stage recorder. Datum of gage is 1,670 ft (509 m), datum of 1029.

AVERAGE DISCHARGE: 20 years, 4,263 ac-ft/yr (5.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1956-75): Maximum discharge, 29,900 ft<sup>3</sup>/s (847 m<sup>3</sup>/s) Aug. 30, 1966 (gage height, 8.75 ft or 2.667 m); minimum, 0.01 ft<sup>3</sup>/s (0.0003 m<sup>3</sup>/s) July 22, 1974.

Flood in 1941 reached a stage of about 9 ft (2.7 m) from information by local residents.

REMARKS: Records poor. The stage-discharge relation frequently is affected by winds. The base flow is maintained by springs. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	90.0	64.0	94.0	-
1957	65.0	97.0	96.0	2270	2590	2280	83.0	42.0	65.0	605	364	104	8661
1958	102	99.0	200	142	435	92.0	113	60.0	539	49.0	89.0	49.0	1969
1959	49.0	52.0	72.0	61.0	212	708	301	872	56.0	669	108	335	3495
1960	134	125	96.0	62.0	75.0	124	835	308	49.0	3970	77.0	106	5961
1961	68.0	91.0	102	38.0	75.0	2170	387	66.0	54.0	107	237	59.0	3454
1962	56.0	37.0	45.0	661	121	573	136	422	640	108	612	91.0	3502
1963	61.0	52.0	47.0	74.0	1030	954	75.0	101	1880	42.0	115	75.0	4506
1964	54.0	60.0	38.0	34.0	52.0	178	168	55.0	194	74.0	182	63.0	1152
1965	50.0	55.0	52.0	229	197	69.0	58.0	174	125	459	58.0	65.0	1591
1966	76.0	83.0	1240	83.0	210	302	31.0	13760	1560	63.0	54.0	61.0	17523
1967	47.0	46.0	71.0	76.0	827	69.0	1090	68.0	346	422	138	68.0	3268
1968	139	190	412	62.0	97.0	156	59.0	584	96.0	82.0	91.0	73.0	2041
1969	35.0	73.0	84.0	107	967	138	40.0	104	365	577	108	89.0	2687
1970	71.0	56.0	274	52.0	88.0	55.0	28.0	69.0	81.0	137	51.0	51.0	1013
1971	47.0	45.0	36.0	54.0	848	515	104	2000	487	228	86.0	188	4638
1972	43.0	65.0	67.0	136	582	83.0	83.0	2370	714	281	89.0	61.0	4574
1973	212	134	327	166	69.0	119	59.0	154	731	63.0	54.0	46.0	2134
1974	54.0	48.0	56.0	165	93.0	137	33.0	204	810	465	79.0	60.0	2204
1975	61.0	74.0	68.0	78.0	5920	233	204	92.0	110	42.0	87.0	54.0	7023
MAX	212	190	1240	2270	5920	2280	1090	13760	1880	3970	612	335	17523
MIN	35.0	37.0	36.0	34.0	52.0	55.0	28.0	42.0	49.0	42.0	51.0	46.0	1013
MEAN	74.9	78.0	178	239	763	471	205	1132	469	427	137	89.6	4263
NO.	19	19	19	19	19	19	19	19	19	20	20	20	19
DISTR OF MEAN	1.8%	1.8%	4.2%	5.6%	17.9%	11.1%	4.8%	26.5%	11.0%	10.0%	3.2%	2.1%	100%

BRAZOS RIVER BASIN

08082000 Salt Fork Brazos River near Aspermont, Texas

LOCATION: Lat 33°20'02", long 100°14'24", Stonevill County, at the bridge on U.S. Highway 83, 5.5 mi (8.8 km) downstream from Salt Croton Creek, and 13.2 mi (21.2 km) north of Aspermont.

DRAINAGE AREA: 5,130 mi<sup>2</sup> (13,286.7 km<sup>2</sup>), of which 2,634 mi<sup>2</sup> (6,822.1 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: January 1924 to August 1925, July 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,588.70 ft (484.236 m) above mean sea level, datum of 1929, Dec. 5, 1923 to Aug. 29, 1925, nonrecording gage at site 6.7 mi (10.8 km) downstream at different datum. June 15, 1939 to July 13, 1972, water-stage recorder at present site. July 14, 1972 to July 17, 1975, at site 0.1 mi (0.2 km) upstream at same datum.

AVERAGE DISCHARGE: 39 years (1924-25, 1939-75), 87,289 ac-ft/yr (107.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-25, 1939-75): Maximum discharge, 52,200 ft<sup>3</sup>/s (1,480 m<sup>3</sup>/s) Sept. 25, 1955 (gage height, 14.92 ft or 4.548 m); no flow at times most years.

Maximum stage since at least 1900, that of Sept. 25, 1955.

REMARKS: Records fair. No diversion above station. There is some regulation by White River Reservoir (station 08080910).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	160	102	684	2450	17300	25600	1370	157	8590	1240	6.90	25.6	57685
1925	199	37.7	5.20	59900	13200	4510	5300	22600	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	583	13250	6.30	7360	.60	12.0	-
1940	12.0	46.0	5.60	4910	3600	9750	170	44690	2040	149	10640	5.17	76530
1941	17.0	1100	11040	49240	133700	73530	15380	4010	35610	135900	9270	4010	472807
1942	1560	522	246	6140	850	4350	1760	4470	22750	20690	1420	3010	67768
1943	993	173	529	554	1910	22980	6730	11.0	11.0	9.5	38.0	1.43	34082
1944	181	418	187	83.0	1140	2200	5240	539	12120	271	300	4670	27349
1945	727	315	459	326	13.0	18940	39490	299	9460	9170	40.0	12.0	79251
1946	12.0	5.60	2.60	1110	6440	30600	2470	42910	17820	20880	549	3440	126239
1947	877	162	372	1400	90060	5070	520	11.0	6.00	7.50	348	2950	101784
1948	53.0	4960	431	62.0	1290	35080	19720	1510	35.0	3870	3940	65.0	71016
1949	616	363	349	1050	48670	33000	5750	2310	13420	3700	396	2.99	109923
1950	535	332	36.0	1010	46840	8770	14830	2950	40830	2520	526	4.05	119584
1951	346	458	449	270	18630	8840	2850	11010	416	37.0	35.0	13.0	43354
1952	47.0	27.0	15.0	1820	892	23.0	7820	6.50	21.0	5.00	220	69.0	10966
1953	8.10	.40	26.0	368	1590	.80	11120	11310	110	70400	3690	718	99341
1954	406	216	42.0	25960	99490	2480	21.0	36.0	6.00	24.0	129	69.0	128879
1955	57.0	1170	5650	1170	42770	15540	18370	2060	95510	95600	1520	9.32	280349
1956	793	915	129	29.0	10140	1930	25.0	470	12.0	392	53.0	88.0	14976
1957	20.0	1130	533	29120	103200	76330	3290	1550	885	12360	12780	5.04	241702
1958	581	437	1260	2100	11000	1920	2320	433	5990	510	228	46.0	26825
1959	44.0	40.0	25.0	371	1540	57390	24020	7160	55.0	8700	331	6510	106186
1960	1720	867	429	48.0	792	3000	35540	244	14.0	77870	2270	1640	124434
1961	1200	1620	885	272	1340	56510	38410	936	352	631	2430	5.45	105131
1962	341	192	171	2000	331	9680	3940	3360	22110	2240	3840	2080	50265
1963	608	508	478	1300	8810	32600	491	76.0	5470	319	1650	6.71	52981
1964	391	979	253	47.0	21.0	5800	383	47.0	3320	65.0	717	99.0	12122
1965	69.0	41.0	25.0	1260	4330	3490	42.0	7610	2790	10750	449	714	31570
1966	561	528	1780	3560	2010	1870	32.0	56950	39540	1560	724	6.48	109763
1967	449	237	2160	2090	5010	11220	12640	205	2390	1190	46.0	93.0	37730
1968	966	1570	5060	1280	2560	29180	3200	3160	55.0	155	645	424	48255
1969	141	157	476	379	20570	5000	16.0	377	10180	13620	6640	1230	58786
1970	832	497	4580	1080	582	1030	5.80	18.0	382	728	26.0	42.0	9803
1971	41.0	49.0	16.0	15.0	7340	5390	90.0	21670	16800	5260	1450	1520	59641
1972	662	509	543	166	1850	1320	2540	64840	14130	5190	4070	1420	97240
1973	3490	4230	7790	3130	1210	408	151	125	3410	369	204	160	24677

BRAZOS RIVER BASIN

08082000 Salt Fork Brazos River near Aspermont, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	328	202	307	689	882	14960	1.90	5240	14550	7830	2960	1050	49000
1975	1030	1840	610	631	16310	1360	5110	2040	6240	784	1510	712	38177
MAX	3490	4960	11040	59900	133700	76330	39490	64840	95510	135900	12780	6510	472807
MIN	8.10	.40	2.60	15.0	13.0	.80	1.90	6.50	6.00	5.00	.60	12.0	9803
MEAN	555	709	1264	5458	19164	16359	7481	8735	10722	13746	2002	1094	87289
NO.	38	38	38	38	38	38	39	39	38	38	38	38	37
DISTR OF MEAN	.61	.81	1.41	6.31	22.01	18.71	8.61	10.01	12.31	15.71	2.31	1.31	1001

BRAZOS RIVER BASIN

08082100 Stinking Creek near Aspermont, Texas

LOCATION: Lat 33°14'00", long 100°12'47", Stonewall County, at the bridge on Farm Road 1263, 4.9 mi (7.9 km) upstream from the Salt Fork Brazos River, and 6.8 mi (10.9 km) north of Aspermont.

DRAINAGE AREA: 88.8 mi<sup>2</sup> (230.0 km<sup>2</sup>).

PERIOD OF RECORD: October 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,601.5 ft (488.14 m) above mean sea level.

AVERAGE DISCHARGE: 11 years, 2,739 ac-ft/yr (3.4 km<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge 1,620 ft<sup>3</sup>/s (45.9 m<sup>3</sup>/s) Aug. 13, 1972 (gage height, 9.85 ft or 3.002 m); no flow for many days most years.

Maximum stage since at least 1925, 31 ft (9.4 m) in September 1955, from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	3290	28.0	34.0	-
1966	33.0	36.0	30.0	893	125	7.80	0	1020	2760	61.0	38.0	43.0	5047
1967	46.0	35.0	39.0	97.0	84.0	242	213	8.20	29.0	.50	1.00	2.80	797
1968	49.0	52.0	457	160	159	451	118	17.0	0	3.40	119	1.00	1586
1969	1.10	6.80	30.0	11.0	708	69.0	.04	15.0	946	228	21.0	10.0	2046
1970	23.0	21.0	362	43.0	20.0	3.50	0	0	16.0	54.0	0	0	543
1971	.10	.90	0	4.20	965	276	.20	1130	128	839	110	129	3582
1972	63.0	47.0	62.0	31.0	201	55.0	25.0	3490	486	622	485	108	5675
1973	186	202	451	214	50.0	30.0	92.0	200	205	23.0	35.0	27.0	1715
1974	26.0	17.0	14.0	94.0	69.0	55.0	7.20	53.0	1310	390	93.0	75.0	2203
1975	78.0	132	67.0	60.0	292	20.0	72.0	89.0	306	37.0	318	43.0	1514
MAX	186	202	457	893	965	451	213	3490	2760	3290	485	129	5675
MIN	.10	.90	0	4.20	20.0	3.50	0	0	0	.50	0	0	543
MEAN	50.5	55.0	151	161	267	121	52.7	602	619	504	113	43.0	2739
NO. OF STR	10	10	10	10	10	10	10	10	10	11	11	11	10
OF MEAN	1.8%	2.0%	5.5%	5.9%	9.8%	4.4%	1.9%	22.0%	22.6%	18.4%	4.1%	1.6%	100%

BRAZOS RIVER BASIN

08082180 North Croton Creek near Knox City, Texas

LOCATION: Lat 33°22'59", long 100°04'51", Stonewall County, 600 ft (180 m) downstream from Wedington Creek, 9.5 mi (15.3 km) upstream from the Brazos River, and 15 mi (24 km) southwest of Knox City.

DRAINAGE AREA: 251 mi<sup>2</sup> (650 km<sup>2</sup>).

PERIOD OF RECORD: October 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,462.44 ft (445.752 m) above mean sea level, datum of 1920.

AVERAGE DISCHARGE: 11 years, 13,272 ac-ft/yr (16.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 32,100 ft<sup>3</sup>/s (908 m<sup>3</sup>/s) Aug. 30, 1966 (gage height, 32.36 ft or 9.863 m); no flow at times.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	4890	119	60.0	-
1966	48.0	49.0	802	1570	330	226	4.80	50740	9880	489	207	151	64497
1967	109	82.0	54.0	1080	440	275	2670	28.0	147	31.0	18.0	27.0	4961
1968	255	187	991	237	291	549	102	251	23.0	23.0	181	37.0	3127
1969	25.0	17.0	31.0	16.0	1860	67.0	1.50	2.30	417	799	199	56.0	3491
1970	74.0	61.0	581	93.0	89.0	8.60	0	5.10	20.0	57.0	4.20	4.50	997
1971	4.30	2.50	.60	3.90	252	91.0	.70	6270	615	2320	174	313	10047
1972	101	78.0	49.0	33.0	169	361	1150	9370	1780	1030	809	254	15184
1973	418	506	1690	691	186	365	152	24.0	1010	77.0	77.0	42.0	5238
1974	37.0	23.0	32.0	113	332	1680	.40	9.3	2810	1170	653	203	7063
1975	141	415	144	113	6160	1280	2640	413	1610	331	1050	232	14529
MAX	418	506	1690	1570	6160	1680	2670	50740	9880	4890	1050	313	64497
MIN	4.30	2.50	.60	3.90	89.0	8.60	0	2.30	20.0	23.0	4.20	4.50	997
MEAN	121	142	437	395	1011	490	672	6711	1831	1020	317	125	13272
NO.	10	10	10	10	10	10	10	10	10	11	11	11	10
DISTR													
OF MEAN	.9%	1.1%	3.3%	3.0%	7.6%	3.7%	5.1%	50.6%	13.8%	7.7%	2.4%	.9%	100%

BRAZOS RIVER BASIN

08082500 Brazos River at Seymour, Texas

LOCATION: Lat 33°34'51", long 99°16'02", Baylor County, at the bridge on U.S. Highways 277 and 283, 0.8 mi (1.3 km) upstream from the Wichita Valley Railway Co. bridge, and 1.0 mi (1.6 km) southwest of the courthouse in Seymour.

DRAINAGE AREA: 15,538 mi<sup>2</sup> (40,243.4 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1923 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,238.97 ft (377.638 m) above mean sea level, datum of 1929. Prior to Apr. 6, 1972, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE: 53 years, 284,989 ac-ft/yr (351.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 95,400 ft<sup>3</sup>/s (2,700 m<sup>3</sup>/s) Oct. 16, 1926 (gage height, 17.16 ft or 5.230 m, from floodmarks, present datum); maximum gage height, 23.00 ft (7.010 m), present datum, Sept. 28, 1955 (discharge, 71,200 ft<sup>3</sup>/s or 2,020 m<sup>3</sup>/s); no flow at times.

Since 1906, maximum stage, that of Sept. 28, 1955, and the maximum discharge, that of Oct. 16, 1926.

REMARKS: Records fair. There are several small diversions above the station for irrigation and oilfield operations. The flow is slightly regulated by two major upstream reservoirs which have a combined capacity of 43,960 ac-ft (54.2 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	123 30	-
1924	1270	211	1690	54010	21170	40540	546	737	27400	6640	5 60	0	154 220
1925	282	208	0	1 33600	27030	6810	3840	63100	221900	17990	3960	3 09	479029
1926	797	22 0	6910	54240	37480	52510	38300	267000	42500	294700	8960	97 60	813 179
1927	9770	6830	1910	3010	8700	31710	34890	1340	4120	1260	80 0	1 97	103817
1928	405	293	1180	0	114800	11170	85320	34350	857	0	708	1 35	249218
1929	0	338	2340	2060	31990	42140	29540	31 0	173000	8300	1450	1 26	291315
1930	204	344	111	128000	187000	107000	806	1460	11500	135000	2930	528 00	627155
1931	4270	9440	3820	6070	4140	2240	9590	149	0	55600	39700	62 10	141 229
1932	11900	11800	6520	23000	28000	64900	81200	38600	273000	9780	2400	344 00	585500
1933	6580	2720	11450	1610	52500	2170	2700	68900	24000	6210	1440	18 00	182080
1934	2790	295	5610	22700	5030	1810	16 0	2 60	13700	1220	45480	21 20	100774
1935	211	622	9530	21450	142000	207800	57120	4340	97450	10540	9820	58 30	566713
1936	1130	1320	117	12630	73160	14880	24660	589	240700	9870	1790	13 10	382156
1937	1400	743	8760	4110	177	32910	1390	98120	3940	4610	870	3 00	157330
1938	3470	82250	7240	8780	38690	101700	47190	2930	98 0	0	880	0	293228
1939	12860	115	1710	26 0	41810	83690	4380	29690	19 0	5560	4 00	13 00	179877
1940	80	872	2 20	5300	8510	27760	7090	86160	25470	6 30	19170	30 00	183341
1941	324	2460	30120	131900	414800	195700	53000	26940	59660	340900	24500	126 50	1292954
1942	5080	2310	1350	40470	3240	17450	6990	28710	56900	79220	9030	90 60	258910
1943	4870	998	3690	13730	16620	41370	11520	40	0	55 0	61 0	9 79	93893
1944	1410	3880	2870	364	13440	12370	21570	558	6060	4570	3050	61 90	76332
1945	2470	1400	9720	2760	456	19600	61220	954	10750	36240	10660	5 62	147192
1946	687	778	193	626	7030	37290	10720	50650	62430	59020	4510	211 90	255124
1947	2890	906	1030	1410	314500	13730	2740	306	1430	2130	3610	147 10	359392
1948	845	10010	6570	274	3240	69090	56840	4940	798	7970	11820	1 99	172596
1949	2240	3760	1190	2850	81350	100700	4660	4830	51960	10940	2620	12 70	268370
1950	1390	1380	324	9630	109100	22560	44410	16640	110700	7590	1730	19 80	327434
1951	1530	2860	1730	785	33880	33950	7150	22560	5640	8 10	131	1 35	110359
1952	252	626	452	1420	17570	2660	10490	110	36 0	0	621	8 31	35068
1953	0	1420	3730	698	6700	401	40120	41030	868	122800	10920	24 60	231147
1954	1470	699	258	63370	188200	17500	468	0	0	0	1360	12 40	274565
1955	688	3880	24690	1010	150200	61780	45910	7470	230000	246200	8560	53 80	785768
1956	3980	3200	1340	551	20900	4550	26 0	1240	0	2920	188	6 30	39525
1957	105	11400	1650	66770	239600	166200	11600	4220	5740	44730	40960	28 00	595775
1958	2270	1590	3370	9550	73690	8870	13580	3840	9310	2670	2140	4 21	131301
1959	296	252	58 0	3100	5600	112300	89110	13190	147	49980	2440	141 00	290573
1960	5050	3050	1470	548	1950	11830	109400	2020	415	258300	13770	96 90	417493
1961	6590	7510	6960	2970	14880	124000	129100	6340	3970	2990	10660	32 10	319180
1962	1760	892	762	3350	2770	49730	6700	7940	132100	10200	19120	93 60	244684
1963	3310	2150	2620	8940	28330	116600	3890	447	11520	2610	6730	23 20	169467
1964	1020	2940	807	176	769	11620	31 0	37 0	34630	2120	2020	4 91	56661
1965	627	454	146	6400	65830	20000	616	34400	9260	57650	3030	15 60	199973
1966	1870	1260	3360	20370	24330	7170	441	94960	139000	6480	2550	21 50	303941
1967	1740	1060	2340	50200	5640	100600	61160	3790	15970	2490	1030	12 80	247300
1968	15180	5970	27170	16020	12400	58120	16940	9640	1240	512	2880	41 30	170202
1969	538	803	3070	1840	83900	10270	248	1620	76990	30920	20360	49 20	235479
1970	4730	2340	24010	5080	6150	7410	15 0	0	1170	2360	264	2 47	53776
1971	276	233	140	178	34730	17570	843	108500	59830	50650	10320	69 30	290200
1972	2430	2210	2020	1120	10610	9210	9670	207400	70200	30580	40410	86 40	394500

BRAZOS RIVER BASIN  
08082500 Brazos River at Seymour, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	14460	13890	39380	14460	4060	33140	2010	2650	16630	2270	1520	1050	145520
1974	714	600	1490	1380	6370	18670	21.0	2730	44490	29690	13290	3880	123325
1975	3900	6050	2830	2730	41240	11210	47000	20430	32300	4520	8670	2680	183560
MAX	15180	82250	39380	133600	414800	207800	129100	267000	273000	340900	45480	52800	1292954
MIN	0	22.0	0	0	177	401	15.0	0	0	0	4.00	0	35068
MEAN	2968	4301	5419	18608	55120	45711	25169	27473	46573	39992	8184	5471	284989
NO.	52	52	52	52	52	52	52	52	52	52	52	53	52
QISTR													
OF MEAN	1.0%	1.5%	1.9%	6.5%	19.3%	16.0%	8.8%	9.6%	16.3%	14.0%	2.9%	1.9%	100%

BRAZOS RIVER BASIN

08082700 Millers Creek near Munday, Texas

LOCATION: Lat 33°19'45", long 99°27'53". Throckmorton County, at the bridge on Farm Road 1720, 12.7 mi (20.4 km) southeast of Munday, and 25 mi (40 km) upstream from the Brazos River.

DRAINAGE AREA: 104 mi<sup>2</sup> (269.4 km<sup>2</sup>).

PERIOD OF RECORD: August 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,250 ft (411 m), datum of 1929.

AVERAGE DISCHARGE: 13 years, 3,337 ac-ft/yr (4.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 1,040 ft<sup>3</sup>/s (29.5 m<sup>3</sup>/s) Aug. 26, 1971 (gage height, 14.75 ft or 4.496 m); no flow most of the time.

Maximum stage since at least 1883 occurred on June 13, 1930 and exceeded 18.0 ft (5.49 m).

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	.20	0	0	1.60	0	-
1964	0	23.0	0	0	134	260	0	0	77.0	.40	4.60	0	499
1965	0	1.40	0	60.0	309	202	0	0	0	66.0	0	0	638
1966	0	0	0	1740	1610	0	0	2370	2360	5.80	0	0	8086
1967	0	0	0	0	0	0	2670	.99	138	3.60	0	0	2813
1968	2140	30.0	434	334	5.60	105	160	4.30	0	0	6.70	1.00	3221
1969	0	15.0	127	0	2450	8.00	0	0	189	184	27.0	6.70	3007
1970	5.10	0	1230	44.0	54.0	0	0	0	0	0	0	0	1333
1971	0	0	0	0	.04	0	0	5980	105	1380	13.0	1.60	7658
1972	3.00	5.00	4.00	10.0	158	0	1.00	564	1930	598	2240	7.20	5520
1973	193	171	1580	1080	89.0	4910	8.00	.08	2.50	0	0	0	8034
1974	0	0	0	0	6.60	13.0	0	0	22.0	5.00	.60	0	47.2
1975	4.90	12.0	0	0	486	28.0	44.0	11.0	29.0	0	4.30	0	619
MAX	2140	171	1580	1740	2450	4910	2670	5980	2360	1380	2240	180	8086
MIN	0	0	0	0	0	0	0	0	0	0	0	0	47.2
MEAN	195	21.4	281	272	442	461	240	687	373	173	177	15.0	3337
NO.	12	12	12	12	12	12	12	13	13	13	13	13	12
DISTR OF MEAN	5.9%	.6%	8.4%	8.2%	13.2%	13.8%	7.2%	20.6%	11.2%	5.2%	5.3%	.4%	100%



BRAZOS RIVER BASIN

08082800 Millers Creek Reservoir near Bomarton, Texas

LOCATION: Lat 33°24'32", long 99°23'19", Baylor County, at the intake tower on the left bank of Millers Creek, 1.1 mi (1.8 km) upstream from the dam, and 7.1 mi (11.4 km) southeast of Bomarton.

DRAINAGE AREA: 240 mi<sup>2</sup> (621.6 km<sup>2</sup>).

PERIOD OF RECORD: July 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

REMARKS: The reservoir is formed by an earthfill dam 9,250 ft (2,819.4 m) long, with a capacity of 25,520 ac-ft (31.5 hm<sup>3</sup>). The dam was completed in 1974 and storage began in July 1974. The reservoir is used for municipal, mining, and industrial water supply. The uncontrolled emergency spillway is an open cut, 3,000 ft (914.4 m) wide, located on the left bank about 800 ft (243.8 m) upstream from the levee. The service spillway is an uncontrolled morning glory-type drop inlet, 16.5 ft (5.0 m) square, that discharges through a 5.0 ft (1.5 m) square concrete conduit. The low-flow releases are made by valves in the outlet vault of the drop inlet. The dam is operated by the North Central Texas Municipal Water Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1974	-	-	-	-	-	-	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
NO.	1	1	1	1	1	1	2	2	2	2	2	2
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%

BRAZOS RIVER BASIN

08083000 Brazos River near Graham, Texas

LOCATION: Lat 33°05', long 98°44', Young County, at the bridge on Graham-Murray Road, 6 mi (9.65 km) above the mouth of the Clear Fork Brazos River, and 10 mi (16.1 km) west of Graham.

DRAINAGE AREA: 15,730 mi<sup>2</sup> (40,740.7 km<sup>2</sup>), of which 9,240 mi<sup>2</sup> (23,941.6 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1915 to August 1919, November 1919 to February 1920.

GAGE: Staff gage. Datum of gage is 1,035 ft (315.5 m) above mean sea level.

AVERAGE DISCHARGE: 6 years, 212,248 ac-ft/yr (261.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-20): Maximum stage, 15.55 ft (4.7 m) November 2, 1919 (discharge not determined); no flow at times.

REMARKS: Records poor. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	-	-	1360	-
1916	1410	490	94.0	43700	21300	22000	2320	61.0	14800	27600	1290	606	135671
1917	355	253	58.0	1250	111	690	8180	4410	38300	286	98.8	6.10	53998
1918	0	0	0	11300	4130	33100	16.6	0	35900	64000	2550	28900	179897
1919	21400	9000	24100	78000	131000	49100	52800	10300	-	-	44900	4000	-
1920	4550	3850	-	-	-	-	-	-	-	-	-	-	-
MAX	21400	9000	24100	78000	131000	49100	52800	10300	38300	64000	44900	28900	179897
MIN	0	0	0	1250	111	690	16.6	0	14800	286	98.8	6.10	53998
MEAN	5543	2719	6063	33563	39135	26223	15829	3693	29667	30629	12210	6974	212248
NO.	5	5	4	4	4	4	4	4	3	3	4	5	3
DISTR													
OF MEAN	2.6%	1.3%	2.9%	15.8%	18.4%	12.4%	7.5%	1.7%	14.0%	14.4%	5.8%	3.3%	100%

BRAZOS RIVER BASIN

08083100 Clear Fork Brazos River near Roby, Texas

LOCATION: Lat 32°47'15", long 100°23'18", Fisher County, at the bridge on State Highway 70, 3.0 mi (4.8 km) north of Roby, and 3.2 mi (5.1 km) upstream from Cottonwood Creek.

DRAINAGE AREA: 228 mi<sup>2</sup> (590.5 km<sup>2</sup>).

PERIOD OF RECORD: January 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,885.09 ft (574.576 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 6,862 ac-ft/yr (8.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 7,050 ft<sup>3</sup>/s (200 m<sup>3</sup>/s) Oct. 18, 1965 (gage height, 21.48 ft or 6.547 m); maximum gage height, 21.52 ft (6.559 m) Sept. 19, 1969; no flow at times in 1963-67.

Maximum stage since the 1890's, about 22 ft (6.7 m) in May and June 1935, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	100	67.0	70.0	121	24.0	2880	254	21.0	1730	375	96.0	112	5850
1963	101	81.0	42.0	255	1820	624	56.0	53.0	47.0	23.0	47.0	52.0	3201
1964	53.0	50.0	58.0	69.0	68.0	483	11.0	12.0	9.7	159	16.0	27.0	1016
1965	22.0	23.0	21.0	9.1	9460	1060	19.0	76.0	3.60	8760	362	100	19916
1966	90.0	69.0	62.0	1180	136	619	14.0	656	1130	107	92.0	85.0	4240
1967	79.0	49.0	148	68.0	141	2090	111	154	675	197	63.0	74.0	3849
1968	85.0	83.0	112	546	1770	937	1110	116	48.0	45.0	83.0	87.0	5022
1969	68.0	67.0	83.0	107	743	106	25.0	13.0	14790	405	320	423	17150
1970	402	402	444	289	612	655	103	131	72.0	117	106	129	3462
1971	107	96.0	50.0	57.0	1930	307	685	8660	1800	995	398	369	15454
1972	314	226	195	199	229	115	51.0	2630	780	181	167	180	5267
1973	171	189	918	344	263	169	213	133	285	272	131	141	3229
1974	148	129	118	265	125	61.0	35.0	571	267	359	131	217	2426
1975	275	183	207	236	166	87.0	3730	336	222	146	237	161	5986
MAX	402	402	918	1180	9460	2880	3730	8660	14790	8760	398	423	19916
MIN	22.0	23.0	21.0	9.1	24.0	61.0	11.0	12.0	3.60	23.0	16.0	27.0	1016
MEAN	144	122	181	268	1249	728	458	969	1561	867	161	154	6862
NO.	14	14	14	14	14	14	14	14	14	14	14	14	14
DISTR													
OF MEAN	2.1%	1.8%	2.6%	3.9%	18.2%	10.6%	6.7%	14.1%	22.8%	12.6%	2.3%	2.2%	100%

BRAZOS RIVER BASIN

08083200 Lake Sweetwater near Sweetwater, Texas

LOCATION: Lat 32°26'20", long 100°18'24", Nolan County, on the downstream side of the intake structure to the pump station, near the left end of the dam on Bitter Creek, 6.5 mi (10.5 km) southeast of Sweetwater, and 8.5 mi (13.7 km) upstream from the mouth.

DRAINAGE AREA: 104 mi<sup>2</sup> (269 km<sup>2</sup>).

PERIOD OF RECORD: January 1936 to September 1974.

GAGE: Nonrecording gage. Datum of gage is 0.53 ft (0.16 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1936-74): Maximum contents, 12,360 ac-ft (15.2 hm<sup>3</sup>) June 1, 1957, gage height, 2,116.70 ft (645.17 m); minimum contents, 780 ac-ft (0.96 hm<sup>3</sup>) Aug. 17, 1953, gage height, 2,082.54 ft (634.76 m).

REMARKS: The lake is formed by a rolled-fill earthen dam 2,600 ft (792 m) long, with a capacity of 11,900 ac-ft (14.7 hm<sup>3</sup>). The dam was completed and storage began in 1930. The lake was first filled to spillway elevation in 1936. The dam is the property of the City of Sweetwater and was built to impound water for municipal use; however, no water has been used for that purpose since 1967. The emergency spillway is located just to the left end of the dam and has a concrete ogee-type crest 607.5 ft (185.2 m) long.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1936	10200	10040	9880	9760	9820	9350	9150	8500	11900	11660	11540	11480
1937	11360	11240	11300	11000	10760	10540	9930	9450	9050	8750	8600	8400
1938	8600	8550	9400	9250	9100	10320	11900	11420	10760	10370	10260	9930
1939	9760	9660	10260	9930	10760	11780	11120	10700	10200	9760	9550	9500
1940	9350	9350	9000	8950	8700	9820	9300	11900	11540	11120	11000	10860
1941	10880	10820	10700	11840	11900	11900	11840	11900	11720	11900	11900	11900
1942	11900	11900	11600	11360	11240	11300	10880	10480	11540	11900	11780	11540
1943	11360	11480	11480	11240	11240	11420	10880	10150	9660	9350	9100	9000
1944	9000	9050	9000	8500	8650	8500	10880	10480	10100	9980	9820	9710
1945	9600	9500	9450	9760	9350	8950	11660	11180	10760	10700	10370	10260
1946	10150	10040	9880	9710	9250	8500	7670	7210	7960	7810	7720	7720
1947	7480	7250	7030	6810	9050	8600	8000	7440	6900	7210	7070	6900
1948	6760	6680	6680	6260	5450	4690	5380	5270	4850	4760	4500	4280
1949	4120	3940	3660	4890	5300	5130	4690	4240	4560	4690	4400	4150
1950	3850	3940	3710	3800	3770	3520	3360	3060	3390	3180	2960	2750
1951	2510	2360	2200	2060	4440	5090	5230	4790	4370	4090	3910	3710
1952	3550	3470	3290	3290	2960	2640	2400	2080	2000	1720	1560	1460
1953	1490	1390	1310	1210	1560	1310	960	1640	1360	1320	1260	1210
1954	1160	1120	1040	1090	2440	2510	2160	1940	1760	1640	1560	1490
1955	1460	1510	1470	1370	2960	3130	2890	2770	2640	2620	2490	2380
1956	2300	2220	2140	4180	4090	3770	3440	3160	2840	2980	2860	2940
1957	2860	3080	3160	4790	11660	11660	11000	10590	10420	11000	10760	10590
1958	10540	10540	10700	10700	10540	10200	9710	9350	9300	9250	9100	8900
1959	8800	8800	8600	8400	8200	8350	8500	7960	7480	7440	7250	7210
1960	7210	7210	7070	6940	6640	6300	6060	5820	5600	6220	6020	5980
1961	6020	6060	5940	5710	5520	5630	6940	6590	6850	6590	6680	6590
1962	6510	6380	6340	6220	5900	5710	6180	5750	6260	6060	5860	5820
1963	5750	5670	5520	5410	5860	5750	5340	5130	4960	4790	4690	4630
1964	4630	4600	4500	4690	4470	4210	3820	3630	3520	3390	3340	3260
1965	3210	3180	3110	4120	7960	7860	7300	6940	8300	8550	8450	8400
1966	8400	8300	8050	8600	8550	8100	7530	7160	7210	7030	6850	6720
1967	6510	6340	6140	5750	5380	5980	5670	5410	5270	5020	5130	5090
1968	5160	5230	5450	5520	5410	5160	4920	4630	4400	4180	4240	4180
1969	4120	4090	4060	3970	4630	4400	4030	3800	6020	5820	5790	5900
1970	5900	5980	6140	6180	6380	6380	5900	5560	5410	5200	5060	4990
1971	4890	4820	4720	4560	6180	6100	6510	7910	8800	9000	9100	9250
1972	9300	9300	9250	8900	8600	8250	7960	8300	8350	8150	8300	8250
1973	8400	8600	8850	9100	9000	8950	8600	8400	9000	8850	8700	8500
1974	8350	8050	8000	8150	8000	7720	7250	6590	7720	-	-	-
MAX	11900	11900	11600	11840	11900	11900	11900	11900	11900	11900	11900	11900
MIN	1160	1120	1040	1090	1560	1310	960	1640	1360	1320	1260	1210
MEAN	6754	6711	6669	6768	7222	7166	7101	6905	7044	6949	6830	6733
NO.	39	39	39	39	39	39	39	39	39	38	38	38
DISTR												
OF MEAN	8.2%	8.1%	8.0%	8.2%	8.7%	8.6%	8.6%	8.3%	8.5%	8.4%	8.2%	8.1%

BRAZOS RIVER BASIN  
08083240 Clear Fork Brazos River at Hawley, Texas

LOCATION: Lat 32°35'53", long 90°48'53", Jones County, 80 ft (27 m) upstream from the upstream bridge on U.S. Highways 83 and 277, 0.8 mi (1.3 km) south of Hawley, and 7.4 mi (11.9 km) upstream from Mulberry Creek.

DRAINAGE AREA: 1,416 mi<sup>2</sup> (3,667.4 km<sup>2</sup>).

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,613.25 ft (491.719 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 30,113 ac-ft/yr (48.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 6,170 ft<sup>3</sup>/s (175 m<sup>3</sup>/s) Sept. 11, 1969 (gage height, 18.51 ft or 5.642 m); minimum, 0.44 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) May 27, 1971.

Maximum stage since at least 1915 occurred in 1932.

REMARKS: Records fair. Lake Sweetwater (capacity, 11,800 ac-ft or 14.7 hm<sup>3</sup>) is located on a tributary upstream from the gage.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	766	282	345	-
1968	2780	932	3780	3890	3200	2180	1430	960	115	57.0	455	362	20141
1969	308	391	481	346	7200	650	127	718	40450	3200	2220	2270	58361
1970	2100	1540	1930	2860	2290	3780	386	392	691	475	470	384	17298
1971	497	399	387	453	8160	3840	1900	36530	17170	6190	2770	2780	81076
1972	2260	1910	1320	996	1240	737	2080	5070	3550	2320	5160	1520	28163
1973	2170	2550	8570	4640	1610	2440	1380	1130	4480	946	831	837	31584
1974	857	670	556	551	603	153	84.0	7680	16660	12040	6530	2540	48924
1975	2530	3240	1720	1580	3830	1660	10500	2370	1310	865	1910	1070	32585
MAX	2780	3240	8570	4640	8160	3840	10500	36530	40450	12040	6530	2780	81076
MIN	308	391	387	346	603	153	84.0	392	115	57.0	282	345	17298
MEAN	1688	1454	2343	1915	3517	1930	2236	6856	10553	2984	2292	1345	39113
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR													
OF MEAN	4.3%	3.7%	6.0%	4.9%	9.0%	4.9%	5.7%	17.5%	27.0%	7.6%	5.9%	3.4%	100%

BRAZOS RIVER BASIN

08083245 Mulberry Creek near Hawley, Texas

LOCATION: Lat 32°34'04", long 99°47'32", Jones County, at the bridge on U.S. Highways 83 and 277, 3.3 mi (5.3 km) south of Hawley, and 7.0 mi (11.3 km) upstream from the Clear Fork Brazos River.

DRAINAGE AREA: 205 mi<sup>2</sup> (531 km<sup>2</sup>).

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder, Datum of gage is 1,615.98 ft (492.551 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 7,487 ac-ft/yr (9.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 2,500 ft<sup>3</sup>/s (70.8 m<sup>3</sup>/s), July 21, 1975 (gage height, 15.53 ft or 4.734 m); no flow at times most years.

Maximum stage since at least 1932, about 16.0 ft (4.88 m) in 1957, from floodmarks on right bank.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	0	51.0	4.90	-
1968	0	25.0	54.0	52.0	316.0	44.0	4.08	16.0	86.7	0	0	-	-
1969	119.0	22.2	110.0	173.0	31.5	10.6	48.0	0	0	0.06	1.10	37.0	474.8
1970	46.0	1.0	78.0	8.0	58.0	95.2	0	0	60.0	0.06	0	0	119.5
1971	0	0	0	45.0	161.0	13.8	18.1	475.0	417.0	17.1	10.0	14.2	1121.7
1972	22.0	8.00	11.0	60.0	37.1	20.0	0	400.0	96.0	84.9	75.9	11.0	620.7
1973	33.8	38.8	162.0	41.3	95.0	19.9	15.0	0.4	116.0	89.0	0.90	0.50	431.8
1974	1.10	0.06	1.00	1.90	11.0	0	0	160.0	679.0	604.0	198.0	5.32	1705.5
1975	60.2	95.7	44.7	27.1	59.6	19.3	804.0	26.7	72.0	10.0	48.7	97.0	1203.9
MAX	119.0	95.7	162.0	173.0	316.0	95.2	804.0	475.0	679.0	604.0	198.0	5.32	1705.5
MIN	0	0	0	0.80	11.0	0	0	0	0	0	0	0	119.5
MEAN	27.5	20.0	42.6	32.2	77.7	20.7	103.6	132.9	165.2	79.5	36.5	10.3	748.7
NO.	8	8	8	8	8	8	8	8	8	9	9	8	7
DISTR OF MEAN	3.7%	2.7%	5.7%	4.3%	10.4%	2.8%	13.8%	17.8%	22.1%	10.6%	4.9%	1.4%	100%

BRAZOS RIVER BASIN  
08083300 Elm Creek near Abilene, Texas

LOCATION: Lat 32°21'08", long 99°48'27", Taylor County, at the bridge on Farm Road 707, 2.8 mi (4.5 km) southeast of Caps, and 7.5 mi (12.1 km) southwest of Abilene.

DRAINAGE AREA: 133 mi<sup>2</sup> (344.5 km<sup>2</sup>).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,804.15 ft (549.90 m) above mean sea level.

AVERAGE DISCHARGE: 13 years, 8,213 ac-ft/yr (10.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 4,570 ft<sup>3</sup>/s (129 m<sup>3</sup>/s) Sept. 18, 1974 (gage height, 18.68 ft or 5.694 m); no flow at times most years.

REMARKS: Records good. Since 1921, the flow is largely regulated by Lake Abilene (capacity, 7,900 ac-ft or 9.74 hm<sup>3</sup>) located 12 mi (19 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	64.0	190	0	-
1964	88.0	379	8.30	321	0	119	37.0	1410	225	0	317	0	2904
1965	3.20	27.0	54.3	26.9	2960	2490	121	125	1420	614	373	0	8945
1966	0	0	0	3260	3280	241	0	371	252	308	0	38.0	7750
1967	15.0	0	5.10	11.0	501	664	70.0	0	760	143	39.0	85.0	2293
1968	931	147	143	1470	930	43.0	363	9.1	0	0	129	12.0	4177
1969	0	34.0	225	465	11820	1210	15.0	35.0	425	268	98.0	334	14929
1970	57.0	77.0	492	264	545	1230	6.00	0	200	0	0	0	2871
1971	0	0	0	94.0	777	.70	144	2250	6460	1440	418	729	12313
1972	290	209	242	143	93.0	262	117	328	44.0	682	303	242	2955
1973	298	196	270	250	1180	159	39.0	38.0	448	208	110	85.0	3281
1974	45.0	19.0	75.0	272	38.0	28.0	65.0	3070	10700	6780	4420	1450	26962
1975	1210	2240	1030	829	2260	1230	257	617	111	86.0	512	124	10506
MAX	1210	2240	1030	3260	11820	2490	363	3070	10700	6780	4420	1450	26962
MIN	0	0	0	11.0	0	.70	0	0	0	0	0	0	2293
MEAN	245	277	253	637	2032	640	103	688	1754	815	531	238	8213
NO.	12	12	12	12	12	12	12	12	12	13	13	13	12
DISTR OF MEAN	3.0%	3.4%	3.1%	7.8%	24.7%	7.8%	1.3%	8.4%	21.4%	9.9%	6.5%	2.9%	100%

**BRAZOS RIVER BASIN**  
**08083400 Little Elm Creek near Abilene, Texas**

LOCATION: Lat 32°23'29", long 99°51'08", Taylor County, at the bridge on Farm Road 707, 1.2 mi (1.9 km) north of Caps, and 4.6 mi (7.4 km) southwest of the bridge at the intersection of U.S. Highways 277 and 83 in Abilene.

DRAINAGE AREA: 39.1 mi<sup>2</sup> (101.3 km<sup>2</sup>).

PERIOD OF RECORD: October 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,786.12 ft (544.409 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 1,702 ac-ft/yr (2.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 2,180 ft<sup>3</sup>/s (61.7 m<sup>3</sup>/s) Sept. 18, 1974 (gage height, 11.52 ft or 3.511 m); no flow for many days each year.

Maximum stage since 1803, about 15 ft (4.6 m) in 1913, from information by local residents.

REMARKS: Records good. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	0	0	-
1964	0	21.0	6.40	200	0	0	0	153	1.00	0	4.00	0	385
1965	0	0	0	291	1020	53.0	0	0	459	243	0	0	2086
1966	0	0	0	1560	148	12.0	0	98.0	147	0	0	0	1965
1967	0	0	0	0	0	317	0	0	124	19.0	0	0	460
1968	330	2.00	77.0	499	226	36.0	.02	0	0	0	0	0	1170
1969	0	0	.50	0	1720	34.0	0	0	3.70	0	0	.50	1759
1970	0	0	0	.50	2.80	51.0	0	0	0	0	0	0	54.3
1971	0	0	0	0	376	51.0	214	1900	2680	153	86.0	57.0	5517
1972	31.0	24.0	19.0	2.00	7.00	0	0	0	0	.60	3.40	0	87.0
1973	0	0	25.0	2.20	0	0	0	0	412	0	0	0	439
1974	0	0	0	9.9	0	0	0	1000	3080	990	456	128	5664
1975	112	188	180	41.0	18.0	35.0	277	.40	0	0	181	.30	1033
MAX	330	188	180	1560	1720	317	277	1900	3080	990	456	128	5664
MIN	0	0	0	0	0	0	0	0	0	0	0	0	54.3
MEAN	39.4	19.6	25.7	217	293	49.1	40.9	263	576	108	56.2	14.3	1702
NO.	12	12	12	12	12	12	12	12	12	13	13	13	12
DISTR OF MEAN	2.3x	1.2x	1.5x	12.8x	17.2x	2.9x	2.4x	15.4x	33.8x	6.4x	3.3x	.8x	100x



BRAZOS RIVER BASIN

08083420 Cat Claw Creek at Abilene, Texas

LOCATION: Lat 32°28'31", long 99°44'56", Taylor County, in the Sears Park, 320 ft (98 m) downstream from the bridge on Ambler Street in Abilene, and 1.8 mi (2.9 km) upstream from the mouth.

DRAINAGE AREA: 13.0 mi<sup>2</sup> (33.7 km<sup>2</sup>).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,682.32 ft (512.77 m).

AVERAGE DISCHARGE: 6 years, 1,991 ac-ft/yr (2.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) Sept. 18, 1974 (gage height, 6.41 ft or 1.954 m); no flow for many days each year.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	10.0	0	0	-
1971	0	13.0	0	140	173	77.0	113	874	764	171	9.00	91.0	2425
1972	0	0	2.00	111	155	164	52.0	394	142	610	14.0	0	1644
1973	199	100	129	53.0	28.0	50.0	16.2	7.10	514	340	6.50	0	1589
1974	.10	54.0	47.0	166	104	71.0	56.0	184	1920	399	153	65.0	3219
1975	39.0	108	103	21.0	212	67.0	362	266	83.0	22.0	118	0	1401
MAX	199	108	129	166	212	164	362	874	1920	610	153	91.0	3219
MIN	0	0	0	21.0	28.0	50.0	52.0	7.10	83.0	10.0	0	0	1401
MEAN	47.6	55.0	56.2	98.2	134	85.8	149	345	685	259	50.1	26.0	1991
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR													
OF MEAN	2.4%	2.8%	2.8%	4.9%	6.8%	4.3%	7.5%	17.3%	34.4%	13.0%	2.5%	1.3%	100%

**BRAZOS RIVER BASIN**  
**080B3470 Cedar Creek at Abilene, Texas**

LOCATION: Lat 32°26'56", long 99°43'13", Taylor County, at the North Second Street Bridge and State Highway 355 at Abilene, 0.2 mi (0.3 km) downstream from Lytle Creek, 4.1 mi (6.6 km) downstream from Buttonwillow Creek, 5.9 mi (9.5 km) upstream from Rainy Creek, 7.2 mi (11.6 km) downstream from Kirby Lake, and 8.1 mi (13.0 km) upstream from the mouth.

DRAINAGE AREA: 119 mi<sup>2</sup> (308.2 km<sup>2</sup>).

PERIOD OF RECORD: October 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,677.67 ft (511.354 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 5,526 ac-ft/yr (6.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 4,670 ft<sup>3</sup>/s (132 m<sup>3</sup>/s) Sept. 18, 1974 (gage height, 12.54 ft or 3.822 m); no flow at times each year.

REMARKS: Records good. The flow is partly regulated by Lytle Lake (capacity, 1,200 ac-ft or 1.48 hm<sup>3</sup>) and Lake Kirby (capacity, 7,620 ac-ft or 9.40 hm<sup>3</sup>).

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	8.10	2.50	11.0	-
1971	5.80	15.0	9.00	132	171	48.0	37.0	903	781	193	40.0	188	2523
1972	33.0	17.0	11.0	70.0	155	173	19.0	296	96.0	394	25.0	8.60	1298
1973	179	114	185	87.0	58.0	43.0	186	10.0	239	181	8.10	4.00	1294
1974	3.60	27.0	24.0	149	62.0	33.0	66.0	204	8950	6330	2890	706	19445
1975	780	1510	1010	518	395	57.0	122	116	126	24.0	221	57.0	4936
MAX	780	1510	1010	518	395	173	186	903	8950	6330	2890	706	19445
MIN	3.60	15.0	9.00	70.0	58.0	33.0	19.0	10.0	96.0	8.10	2.50	4.00	1294
MEAN	200	337	248	191	168	70.8	86.0	306	2038	1188	531	162	5526
NO.	5	5	5	5	5	5	5	5	5	6	6	6	5
DISTR													
OF MEAN	3.6%	6.1%	4.5%	3.5%	3.0%	1.3%	1.6%	5.5%	36.9%	21.5%	9.6%	2.9%	100%

BRAZOS RIVER BASIN

08083500 Fort Phantom Hill Reservoir near Nugent, Texas

LOCATION: Lat 32°36'58", long 98°40'05", Jones County, at the outlet gate tower near the right bank, 120 ft (37 m) upstream from the dam on Elm Creek, 4.3 mi (6.9 km) upstream from the Clear Fork Brazos River, and 6.4 mi (8.7 km) south of Nugent.

DRAINAGE AREA: 470 mi<sup>2</sup> (1,217.3 km<sup>2</sup>).

PERIOD OF RECORD: July 1940 to December 1975.

GAGE: Nonrecording gage. Datum of gage is 1,580.78 ft (481.822 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1940-75): Maximum contents, 89,910 ac-ft (110.8 hm<sup>3</sup>) May 25, 1957 (gage height, 58.7 ft or 17.89 m); minimum contents, 19,040 ac-ft (23.5 hm<sup>3</sup>) Apr. 23-25, 1953 (gage height, 34.5 ft or 10.52 m).

REMARKS: The reservoir is formed by a rock-faced earthfill dam 3,740 ft (1,140 m) long, with a capacity of 74,310 ac-ft (91.8 hm<sup>3</sup>). The dam was completed and storage began in October 1938. The uncontrolled service spillway is a cut channel through natural ground with a concrete ogee weir located 0.7 mi (1.1 km) from the right end of the dam. The service outlet works consist of a concrete tower with a 4.0- by 7.0-foot (1.2- by 2.1-m) conduit. The service tower contains five gated openings at various elevations. The dam and reservoir are owned by the City of Abilene and was built to impound water for municipal use.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1940	-	-	-	-	-	-	21700	22420	21700	24000	22800	22800
1941	22800	23000	23800	30600	45700	63060	64860	71140	70380	73420	68150	69260
1942	69630	67040	65580	67040	67410	66300	64140	63060	62700	67780	67410	68150
1943	67780	67410	67040	66300	63420	62350	59200	55100	52700	51700	50450	50200
1944	50450	51200	50700	48700	51700	50450	49950	48700	47950	48200	47950	47950
1945	47950	47450	47700	48200	48200	50950	53600	52700	50450	51700	50450	50450
1946	50700	50450	49700	47950	49450	47700	43950	42700	43200	42450	41450	43200
1947	42450	41700	41200	39960	44450	43700	41700	39720	38040	40200	38760	40700
1948	40200	40450	40200	38520	38040	39480	37560	35400	33240	33000	31560	30600
1949	30840	30600	29800	31080	37080	38280	38280	36840	36360	37080	35880	35160
1950	34920	34200	33000	32280	35880	34920	39480	45200	45450	43950	42200	41450
1951	40700	39960	38040	36600	44700	50700	48450	45950	43200	41950	40700	38040
1952	37320	36360	34920	34680	34680	32040	29800	27800	25000	22030	22550	22200
1953	21340	20500	19840	19520	25830	23250	37590	39870	37590	40130	39360	38080
1954	37340	36370	35170	36860	51920	49120	45870	42250	39620	38080	38590	37100
1955	36120	36120	34700	33080	49120	65360	63150	61350	71910	70320	68390	66660
1956	65730	65360	63150	61350	62060	58540	53530	50370	46750	44460	43900	43060
1957	42250	47340	46450	81860	78020	74720	70720	66860	67250	73100	73500	72310
1958	72710	73100	73500	74720	75550	73900	71120	68010	69540	68780	67630	66860
1959	66100	65730	64260	62420	62420	67250	69160	65360	61350	68780	67250	66860
1960	67630	66480	66100	66480	63890	60290	59230	55820	52880	61000	58880	58540
1961	62420	63890	62060	59230	56840	74720	76370	72310	76370	74310	75960	74720
1962	73500	71910	70720	69930	65730	75550	77610	72710	74720	73100	71520	70720
1963	69160	67630	65730	63520	78450	75140	69540	66860	63890	61000	59940	58540
1964	58200	59230	58540	57860	55160	51920	48530	50680	49120	46750	45870	44460
1965	43610	43060	41450	45590	63150	63520	58880	55160	56840	60290	60290	58880
1966	58200	57180	55820	66860	74310	71120	65730	64620	68390	66860	64260	63150
1967	61710	60290	58540	55480	55820	58540	56500	52560	56160	54510	54510	54180
1968	68390	69930	72310	76370	75550	73100	74310	68780	65360	62060	62420	61000
1969	59580	59580	59580	59230	77610	75960	69540	68010	71910	70320	69160	70320
1970	69930	69540	71520	73500	75140	75140	68780	63890	62060	59580	57180	55480
1971	53530	52230	50060	49120	50990	51300	48240	73500	80160	77610	75140	75960
1972	74310	73100	70320	68010	66860	63520	59940	62060	60290	61350	63890	62780
1973	64260	64620	64620	63890	61710	58200	54510	49750	50370	49440	47640	45310
1974	43900	42250	40380	38080	34930	30660	26780	28970	78880	83620	76780	76370
1975	75960	75960	75960	74720	76370	74720	77200	73900	71520	68390	68390	67250
MAX	75960	75960	75960	81860	78450	75960	77610	73900	80160	83620	76780	76370
MIN	21340	20500	19840	19520	25830	23250	21700	22420	21700	22030	22550	22200
MEAN	53761	53463	52642	53703	57090	57871	55431	54455	55647	55869	54743	54132
NO.	35	35	35	35	35	35	36	36	36	36	36	36
DISTR												
OF MEAN	8.2%	8.1%	8.0%	8.2%	8.7%	8.8%	8.4%	8.3%	8.4%	8.5%	8.3%	8.2%

BRAZOS RIVER BASIN  
08084000 Clear Fork Brazos River at Nugent, Texas

LOCATION: Lat 32°41'24", long 99°40'09", Jones County, 33 ft (10 m) downstream from the bridge on Farm Road 600 at Nugent, 2 mi (3 km) downstream from Elm Creek, and 4 mi (6 km) upstream from Deadman Creek.

DRAINAGE AREA: 2,199 mi<sup>2</sup> (5,695.4 km<sup>2</sup>).

PERIOD OF RECORD: March 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,531.91 ft (466.926 m) above mean sea level. Prior to Dec. 12, 1933, nonrecording gage at site 575 ft (175 m) downstream at same datum.

AVERAGE DISCHARGE: 52 years, 82,149 ac-ft/yr (101.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 47,000 ft<sup>3</sup>/s (1,330 m<sup>3</sup>/s) Sept. 8, 1932 (gage height, 27.05 ft or 8.245 m, site then in use); no flow at times.

Maximum stage, 30 ft (9.1 m) in 1878, from information by local residents.

REMARKS: Records good. The flow is regulated by four major reservoirs with a combined capacity of 103,600 ac-ft (127.7 hm<sup>3</sup>). There are numerous diversions above the station for municipal water supply and oilfield operations which materially affect the low flow.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	1470	7100	27500	1900	571	335	13500	1420	208	300	-
1925	295	231	203	7040	23800	3490	1950	3680	24700	8590	1730	738	76447
1926	687	451	2850	12700	4600	37800	9510	959	4780	9140	671	15200	99348
1927	486	693	579	30800	393	934	5570	238	14300	1030	321	389	55733
1928	947	229	226	261	123000	20400	35400	27900	1080	557	1040	528	211568
1929	456	442	3340	1200	25900	1000	9840	191	38300	10900	576	713	92858
1930	670	578	867	2270	44600	18200	2870	2090	16000	29400	1510	26500	145555
1931	842	10100	787	839	514	2710	627	0	23.0	59400	9460	2040	87342
1932	3290	4760	1000	19800	50800	86300	40000	4190	237000	8360	3370	15000	473870
1933	6070	3550	3610	3420	30000	2490	1750	5090	1940	4810	4110	3030	69620
1934	1680	750	3600	3240	738	738	167	341	221	137	9350	470	21432
1935	387	1330	423	3270	76160	104800	7230	1420	31440	2890	1870	1370	232590
1936	1120	946	893	7900	18130	1200	2720	75.0	66670	7610	1900	1510	110674
1937	1210	966	1170	730	1730	5000	693	5800	1140	5350	281	524	24594
1938	2810	7570	21440	8210	40400	13470	73150	13230	827	738	1310	568	183723
1939	1250	508	1460	389	34620	28180	2390	3490	186	3980	180	298	76931
1940	301	1300	875	671	3380	14150	3990	30520	4680	326	1890	420	62503
1941	278	997	3660	20870	48180	32410	10030	17530	3640	63350	10220	3630	214795
1942	1540	4840	1100	6930	11150	7970	601	2050	9700	26950	1690	2310	76831
1943	1370	1270	3460	1600	9330	7980	1290	727	234	408	401	458	28528
1944	392	2370	1030	706	14380	4450	9990	2440	1990	8890	696	696	48030
1945	387	461	4410	6800	5220	9700	44740	5850	629	11860	1360	1240	92657
1946	1160	865	698	1850	1710	1050	1543	588	7130	9040	1880	7270	34781
1947	597	421	615	386	24020	7290	1160	176	283	17710	2200	2510	57368
1948	583	1740	2390	258	1540	4260	9050	1770	214	12540	172	133	34650
1949	540	368	217	2750	12910	4670	525	257	6960	4760	94.0	142	34193
1950	209	148	75.0	2840	18670	1590	5810	2450	9960	277	332	308	42669
1951	350	238	1580	412	10180	13180	4100	705	26.0	244	119	1440	32574
1952	138	94.0	79.0	616	2710	526	2.20	3.40	1860	0	974	170	7173
1953	6.30	10.0	125	7.50	1390	202	3270	2870	20.0	2070	34.0	32.0	10037
1954	4.40	2.60	2.60	728	13050	557	27.0	324	21.0	183	1090	5.60	15995
1955	12.0	318	.60	1.00	15630	10780	3250	673	24800	4340	169	45.0	60019
1956	114	165	21.0	5.40	9120	1190	709	0	0	1130	299	497	13250
1957	2.00	26980	1670	68960	288600	82390	3800	2090	2550	4280	1560	760	483642
1958	740	732	861	1130	2620	2140	3400	1900	3650	1050	348	407	18978
1959	387	302	362	296	15970	14600	12110	1020	105	11020	480	890	57542
1960	1100	1400	543	319	170	2260	5400	664	229	2230	180	368	14863
1961	649	446	270	145	2900	24850	26500	1680	26930	1200	4630	1360	91560
1962	1150	795	1300	964	429	32030	8810	1310	22700	4270	1270	1290	76318
1963	1060	849	784	1410	9210	8070	320	247	383	149	256	321	23059
1964	314	615	337	1080	140	629	2.20	2530	385	91.0	496	80.0	6699
1965	120	139	202	2380	45680	2830	168	62.0	6160	11440	1560	561	71302
1966	596	460	1070	14740	16120	1400	646	3840	10820	744	597	602	51635
1967	474	401	397	379	1830	5190	2030	133	3680	1300	485	490	16789
1968	3560	1760	6360	15630	5410	1850	1430	682	34.0	104	608	279	37707
1969	299	569	697	544	28940	2810	81.0	952	36300	3440	2480	2320	79432
1970	2180	1580	2160	2680	2540	5730	302	376	737	415	358	482	19540
1971	493	445	334	767	8590	3270	1500	28720	29710	11280	3570	3190	91869
1972	2390	1990	1620	1350	1540	774	1900	6530	4050	3840	4560	1650	32194
1973	2700	2730	8360	4530	2010	2540	1160	999	4390	1500	1010	788	32717

BRAZOS RIVER BASIN  
08084000 Clear Fork Brazos River at Nugent, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	721	751	791	714	626	173	23.0	7690	29610	40660	30700	5840	118299
1975	6210	9450	4770	2470	4150	2060	21500	3160	1810	1160	3290	1700	61730
MAX	6210	26980	21440	68960	288600	104800	73150	30520	237000	63350	30700	26500	483642
MIN	2.00	2.60	.60	1.00	140	173	2.20	0	0	0	34.0	5.60	6699
MEAN	1084	1982	1868	5329	21979	12426	7415	3895	13625	8049	2307	2190	82149
NO.	51	51	52	52	52	52	52	52	52	52	52	52	51
DISTR OF MEAN	1.3%	2.4%	2.3%	6.5%	26.8%	15.1%	9.0%	4.7%	16.6%	9.8%	2.8%	2.7%	100%

BRAZOS RIVER BASIN

08084500 Lake Stamford near Haskell, Texas

LOCATION: Lat 33°01'44", long 99°34'52", Haskell County, on the left bank at the intake structure of the West Texas Utilities Co. steam powerplant at Lake Stamford on Paint Creek, 1.0 mi (1.6 km) upstream from the dam, 1.7 mi (2.7 km) upstream from California Creek, and 10 mi (16 km) southeast of Haskell.

DRAINAGE AREA: 360 mi<sup>2</sup> (932 km<sup>2</sup>).

PERIOD OF RECORD: July 1953 to December 1975.

GAGE: Nonrecording gage. Datum of gage is 2.77 ft (0.84 m) above mean sea level.

EXTREMES: Period of record (1953-75): Maximum contents, 74,100 ac-ft (91.4 hm<sup>3</sup>) Sept. 9, 10, 1962 (gage height, 1,416.6 ft or 431.78 m); minimum contents since the first appreciable storage in June 1954, 14,060 ac-ft (17.3 hm<sup>3</sup>) Jan. 29-31, 1957 (gage height, 1,400.2 ft or 426.78 m).

REMARKS: The lake is formed by a rock-faced earthfill dam 3,600 ft (1,097 m) long, with a capacity of 53,070 ac-ft (65.4 hm<sup>3</sup>). The dam was completed in March 1953 and deliberate impoundment began in June 1953. The emergency spillway is an uncontrolled natural channel located near the right end of the dam. The service spillway is an uncontrolled channel excavated through natural ground, 169 ft (52 m) wide, and located 900 ft (270 m) to the left of the left end of the dam. The service outlet is a controlled 24-inch diameter (610-millimeter) concrete pipe that is used for low-flow releases. The dam is operated by the City of Stamford.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1953	-	-	-	-	-	-	13380	13700	12580	20660	19700	18820
1954	18380	17500	16700	16700	41100	39500	35750	32600	29900	28400	29000	28400
1955	28400	28400	27500	26100	27800	30200	27500	25260	30850	31550	29900	29300
1956	28700	28100	26660	25260	25820	23140	20420	18160	16500	15500	14780	14600
1957	14060	17720	17720	20420	47300	51500	49550	46400	43900	44300	47750	46850
1958	46400	45950	45950	44700	46850	45100	43900	41900	56500	56000	54500	53000
1959	52500	51500	49550	47300	46400	49550	48650	45100	42700	44700	43500	43900
1960	43500	43100	42300	41100	38300	36100	57500	54000	51000	51500	49550	49550
1961	50000	50000	49550	47300	45100	58500	66650	60500	60000	59000	60500	59500
1962	58500	58000	56000	57500	55000	63500	62500	59000	64500	62000	61000	60500
1963	59000	58000	56500	56000	58000	61500	57500	53000	51000	48650	48200	47300
1964	46850	47300	45950	43900	43100	51000	46400	43900	43900	42300	41500	40700
1965	40300	40300	38700	40700	46400	45500	41900	39100	37500	34240	33250	32600
1966	32280	31960	30710	47650	52600	49860	46370	46790	55940	53540	51670	50310
1967	49410	48530	47220	45110	42670	40330	40330	37730	38460	36660	36300	35610
1968	42270	42270	44280	43070	49410	49410	46370	42670	40330	38460	38830	38100
1969	37370	37370	38460	39580	57420	54490	49410	47650	52130	51210	50760	51670
1970	51210	51210	51670	51670	49860	46790	42670	39950	38100	37370	35610	34920
1971	33910	33250	31650	30100	29800	28330	26910	62020	57920	55940	54020	54020
1972	53070	52600	50310	48530	48530	45530	42670	40720	42670	44280	49410	48970
1973	50760	53540	55460	54970	52130	53540	50760	47650	47220	45950	44280	42670
1974	42270	40720	39580	38460	36660	34580	31650	29800	33580	33580	33250	32920
1975	32920	33250	31960	31330	45530	43070	45110	44700	43880	41880	41880	41490
MAX	59000	58000	56500	57500	58000	63500	66650	62020	64500	62000	61000	60500
MIN	14060	17500	16700	16700	25820	23140	13380	13700	12580	15500	14780	14600
MEAN	41457	41390	40654	40793	44808	45501	43211	42274	43090	42507	42137	41552
NO. OF MEAN	22	22	22	22	22	22	23	23	23	23	23	23
	8.1%	8.1%	8.0%	8.0%	8.8%	8.9%	8.5%	8.3%	8.5%	8.3%	8.3%	8.2%

BRAZOS RIVER BASIN

08084800 California Creek near Stamford, Texas

LOCATION: Lat 32°55'51", long 99°38'32", Jones County, at the bridge on Farm Road 142, 9 mi (14 km) east of Stamford, and 17 mi (27 km) upstream from Paint Creek.

DRAINAGE AREA: 478 mi<sup>2</sup> (1,238.0 km<sup>2</sup>).

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,470 ft (448 m), datum of 1929.

AVERAGE DISCHARGE: 14 years, 20,195 ac-ft/yr (24.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 7,420 ft<sup>3</sup>/s (210 m<sup>3</sup>/s) May 6, 1969 (gage height, 27.12 ft or 8.266 m); no flow at times.

Maximum stage since at least 1897, 29.6 ft (9.02 m) June 10, 1962 (from floodmark).

REMARKS: Records good. There are three small diversions above the station.

DISCHARGE IN ACRE-FOOT

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	913	349	227	-
1963	231	170	151	1050	12390	7330	264	49.0	18.0	6.20	46.0	24.0	21729
1964	73.0	205	62.0	25.0	201	733	0	15.0	29.0	.80	34.0	6.20	1384
1965	5.00	8.50	6.00	121	22170	266	16.0	0	6.92	5530	61.0	36.0	28912
1966	45.0	31.0	5.70	2500	1570	19.0	166	263	1830	63.0	47.0	63.0	6603
1967	62.0	37.0	53.0	15.0	756	113	1800	25.0	1930	36.0	60.0	79.0	4966
1968	5160	622	1890	401	402	416	70.0	1.20	1.00	.10	64.0	36.0	9063
1969	33.0	52.0	154	227	18130	354	29.0	241	2670	247	210	445	22792
1970	532	270	526	915	493	123	4.30	3.80	5.00	7.80	6.50	9.8	2896
1971	15.0	17.0	19.0	114	8250	2020	78.0	57180	14410	2800	904	941	86748
1972	427	366	221	228	473	87.0	137	925	5950	7050	13640	576	30080
1973	2010	2980	8100	1450	433	1710	268	96.0	1730	86.0	75.0	95.0	19033
1974	102	88.0	108	416	136	31.0	6.10	96.0	10010	5890	2510	345	19738
1975	587	929	280	280	2130	166	3610	1500	163	51.0	383	174	10253
HAX	5160	2980	8100	2500	22170	7330	3610	57180	14410	7050	13640	941	86748
MIN	5.00	8.50	5.70	15.0	136	19.0	0	0	1.00	.10	6.50	6.20	1384
MEAN	714	444	890	596	5195	1028	496	4646	3034	1620	1314	218	20195
NO.	13	13	13	13	13	13	13	13	13	14	14	14	13
DISTR													
OF MEAN	3.5%	2.2%	4.4%	2.9%	25.7%	5.1%	2.5%	23.0%	15.0%	8.0%	6.5%	1.1%	100%

**BRAZOS RIVER BASIN**  
**08085000 Paint Creek near Haskell, Texas**

LOCATION: Lat 33°04', long 99°32', Haskell County, at Scotts Crossing, 490 ft (137.2 m) downstream from California Creek, and 12 mi (19.3 km) southeast of Haskell.

DRAINAGE AREA: 860 mi<sup>2</sup> (2,227.4 km<sup>2</sup>).

PERIOD OF RECORD: January 1950 to September 1951.

GAGE: Staff gage. Datum of gage is 1,356 ft (413.3 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1950-51): Maximum discharge, 1,910 ft<sup>3</sup>/s (54.1 m<sup>3</sup>/s) June 13, 1951; no flow at times.

Flood of 1876, September 1900, and June 13, 1930 reached stages of about 16 ft (4.9 m) from information by local residents.

REMARKS: Records good. There are several diversions above the station for municipal water supply and industrial use.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	0	0	0	4310	4260	462	2320	1300	5920	3.40	0	0	18575
1951	0	0	0	0	6390	14050	2480	378	0	-	-	-	-
MAX	0	0	0	4310	6390	14050	2480	1300	5920	3.40	0	0	18575
MIN	0	0	0	0	4260	462	2320	378	0	3.40	0	0	18575
MEAN	0	0	0	2155	5325	7256	2400	839	2960	3.40	0	0	20938
NO.	2	2	2	2	2	2	2	2	2	1	1	1	1
DISTR OF MEAN	.0%	.0%	.0%	10.3%	25.4%	34.7%	11.5%	4.0%	14.1%	.0%	.0%	.0%	100%



BRAZOS RIVER BASIN

08085500 Clear Fork Brazos River at Fort Griffin, Texas

LOCATION: Lat 32°56'04", long 88°13'27", Shackelford County, at the bridge on the old Fort Griffin-Throckmorton Road, 0.4 mi (0.6 km) northeast of Fort Griffin, 5,100 ft (1,550 m) upstream from the bridge on U.S. Highway 283, and 1.7 mi (2.7 km) upstream from Mill Creek.

DRAINAGE AREA: 3,988 mi<sup>2</sup> (10,328.9 km<sup>2</sup>).

PERIOD OF RECORD: January 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,174.09 ft (357.863 m) above mean sea level, datum of 1029. Prior to June 23, 1932, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 52 years, 162,431 ac-ft/yr (200.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 33,600 ft<sup>3</sup>/s (852 m<sup>3</sup>/s) Sept. 10, 1932 (gage height, 35.09 ft or 10.695 m); no flow at times.

Maximum stage since 1876, 38.0 ft (11.58 m) in September 1900.

REMARKS: Records good. There is some regulation by five major reservoirs (combined capacity, 156,700 ac-ft or 193.2 hm<sup>3</sup>). There are several diversions above the station for irrigation, municipal water supply, and oilfield operations which materially affect the low flow.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	4410	3160	4100	18100	34700	4650	682	630	28000	1080	508	773	100793
1925	791	368	282	14900	37100	5960	2150	8700	65800	17200	2210	582	156043
1926	354	561	5380	25900	12400	97000	10300	7160	7800	15200	422	25700	208177
1927	670	3580	3180	32600	588	3590	7430	900	11600	2740	568	389	67835
1928	170	25.0	0	587	162000	28300	46800	40100	1180	117	2240	566	282085
1929	613	644	2950	8390	64000	3450	10500	61.0	55300	10500	1280	258	157946
1930	209	215	378	21100	97800	74400	3730	787	24600	64600	1520	30600	319939
1931	1030	15700	1060	768	3630	2850	4860	11.0	0	76200	20600	4200	130909
1932	6330	9720	1540	14500	78700	75000	140000	6640	278000	12900	6550	42100	671980
1933	11100	4840	4830	5460	56600	3160	2650	4540	4360	6760	4020	1390	109710
1934	4480	1060	7440	9040	836	179	12.0	0	273	0	11560	169	35049
1935	64.0	1720	2490	3060	158500	178000	18780	1420	45100	3010	2260	1890	416294
1936	1200	1110	771	6970	33040	1770	8700	0	104800	20760	2410	2090	183621
1937	1540	1130	1980	820	4010	10620	413	12830	855	6840	60.0	236	41334
1938	3390	32420	43410	13570	76780	25010	79800	14880	484	177	1450	60.0	291431
1939	2380	211	766	631	70920	65780	3190	3560	20.0	11910	186	12.0	159566
1940	22.0	3690	375	882	28930	44290	9320	65140	10460	60.0	9610	729	173508
1941	121	3840	5340	59310	250900	112500	20690	15160	9110	176200	25360	14670	693201
1942	3630	4740	1610	17090	15690	22640	775	1660	13950	41920	3120	3490	130515
1943	1790	1790	4680	3740	9750	19660	730	3.40	0	0	0	0	42143
1944	.20	1820	3990	365	20610	8530	9990	534	2540	17910	1210	1150	68649
1945	693	851	18830	37490	5200	20670	54030	4520	70.0	14700	1240	1160	159454
1946	1080	996	883	1080	3250	2470	452	7180	30260	25950	3990	18130	95721
1947	1010	421	802	406	106000	13420	1530	55.0	3860	14720	4090	5650	151964
1948	655	996	3550	196	8590	22980	18110	1660	317	11080	285	1.40	68400
1949	655	1020	291	4010	36070	17740	11.0	469	8490	6690	213	0	75659
1950	0	0	0	12320	31510	3230	12640	5800	19330	119	0	0	84949
1951	0	1.60	580	59.0	17530	39160	6070	637	43.0	0	0	0	64081
1952	0	0	0	0	3010	3360	0	0	0	0	0	0	6370
1953	0	0	0	0	4400	8530	87150	7690	59.0	12280	406	0	120515
1954	0	0	0	611	55400	2970	.20	0	0	186	524	4.60	59696
1955	3050	503	39.0	123	22740	20640	3680	176	94770	22750	27.0	6.10	168504
1956	4.80	0	0	2.60	8650	258	0	0	7.10	31.0	378	399	9730
1957	21.0	67870	3520	184400	449600	131200	7720	3750	3180	6320	3690	774	862045
1958	845	718	1290	1670	10460	7020	12930	1470	32180	2070	533	228	71414
1959	351	319	202	18.0	22300	33200	11750	1350	253	27520	293	1190	98746
1960	2670	3520	929	468	301	1670	47230	240	83.0	9900	268	736	68015
1961	1960	3380	1580	424	2480	70000	84140	5710	34000	3300	7720	3130	217824
1962	2160	1710	3060	2760	1160	113400	11900	2710	118900	7750	3480	2410	271400
1963	1680	1410	1190	4090	23880	31690	711	0	471	6.90	120	396	65647
1964	489	3420	1080	1030	657	1470	28.0	544	880	209	560	395	10762
1965	551	496	423	3580	82190	3120	43.0	0	5760	20400	2240	990	119793
1966	990	1120	1250	36160	36820	1420	157	3300	25120	1190	839	928	109294
1967	752	525	567	467	1210	5970	2550	27.0	6160	1590	971	1390	22179
1968	29920	5520	21500	23290	10150	3620	2640	538	15.0	4.20	49.0	1180	98426
1969	829	1440	1960	2590	108900	5910	257	247	40320	5080	3700	4130	175363
1970	4380	3130	5980	8610	7080	6790	72.0	298	1110	504	111	501	38566
1971	600	615	382	628	11940	10910	714	111000	61040	19290	8000	6910	232029
1972	4690	4070	3270	2350	4700	875	2570	6960	13290	10640	29940	2710	86065
1973	9400	13290	24470	13680	3760	7780	1440	1720	7450	2940	1420	1310	88660

BRAZOS RIVER BASIN

08085500 Clear Fork Brazos River at Fort Griffin, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	1070	1100	1420	916	656	4.60	0	5150	61000	55660	60120	9860	196977
1975	10970	19990	6340	4990	18200	4240	25930	6360	2580	1190	4180	2370	167360
MAY	29920	67870	43410	184400	449600	178000	140000	111000	278000	176200	60120	42100	862045
MIN	0	0	0	0	301	4.60	0	0	0	0	0	0	6370
MEAN	2419	4438	3887	11658	44544	26597	14961	7006	23754	14811	4549	3807	162431
NO.	52	52	52	52	52	52	52	52	52	52	52	52	52
DISTR OF MEAN	1.5%	2.7%	2.4%	7.2%	27.4%	16.4%	9.2%	4.3%	14.6%	9.1%	2.8%	2.3%	100%

BRAZOS RIVER BASIN

08086000 Clear Fork Brazos River at Crystal Falls, Texas

LOCATION: Lat 32°54', long 98°54', Stephens County, at the Walker-Caldwell Water Co. pumping plant, 0.25 mi (0.4 km) north of Crystal Falls, and 10 mi (16.1 km) north of Breckenridge.

DRAINAGE AREA: 4,323 mi<sup>2</sup> (11,196.6 km<sup>2</sup>).

PERIOD OF RECORD: December 1921 to February 1929.

GAGE: Staff gage. Datum of gage is 1,082 ft (329.8 m) above mean sea level. Datum was lowered 1.0 ft (0.3 m) on August 14, 1924.

AVERAGE DISCHARGE: 9 years, 195,645 ac-ft/yr (241.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1921-29): Maximum gage height, 10.25 ft (5.87 m) April 30, 1922 (discharge not determined); no flow at times.

REMARKS: Records for the low stages good, for the high stages poor. A large part of the ordinary flow is diverted for municipal and mining use. The low flow is partly regulated by a dam above the gage.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1921	-	-	-	-	-	-	-	-	-	-	-	0	-
1922	0	0	0	-	-	-	-	-	0	0	167	692	-
1923	1850	18300	2070	-	33700	-	1290	1750	3520	157000	60700	24100	-
1924	5880	3030	3730	16300	34100	4120	115	720	39200	1530	115	328	109168
1925	568	349	240	16100	55500	5290	1550	8590	78000	24200	3030	695	193560
1926	577	189	5930	28600	18100	-	12200	7680	10500	16600	353	38900	-
1927	1390	3460	5670	63700	495	6870	25000	927	12400	4610	333	155	125010
1928	164	0	0	0	197000	33700	53800	47600	1540	315	3610	861	338590
1929	259	143	-	-	-	-	-	-	-	-	-	-	-
MAX	5880	18300	5930	63700	197000	33700	53800	47600	78000	157000	60700	38900	338590
MIN	0	0	0	0	495	4120	115	720	0	0	115	0	109168
MEAN	1336	3145	2486	24940	56483	12495	15659	11211	20737	29179	9758	8216	195645
NO.	8	8	7	5	6	4	6	6	7	7	7	8	4
DISTR OF MEAN	7%	1.6%	1.3%	12.7%	28.9%	6.4%	8.0%	5.7%	10.6%	14.9%	5.0%	4.2%	100%

BRAZOS RIVER BASIN

08086015 Hubbard Creek near Sedwick, Texas

LOCATION: Lat 32°36'05", long 99°14'25", Shackelford County, at a bridge on a county road, 1.0 mi (1.6 km) upstream from Reynolds Creek, and 2.2 mi (3.5 km) west of Sedwick.

DRAINAGE AREA: 127 mi<sup>2</sup> (328.9 km<sup>2</sup>).

PERIOD OF RECORD: October 1963 to September 1966.

GAGE: Water-stage recorder. Datum of gage is 1,310 ft (399.3 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1963-66): Maximum discharge, 20,600 ft<sup>3</sup>/s (583.4 m<sup>3</sup>/s) May 12, 1965 (gage height, 20.08 ft or 6.1 m); no flow most of the time.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	66.0	425	0	-
1964	1.60	4.39	0	0	0	.20	0	.20	11.0	0	1820	0	2272
1965	0	.20	0	57.0	15220	5.20	0	4.60	22.0	88.0	.60	0	15398
1966	0	0	0	3570	1410	11.0	0	54.0	255	-	-	-	-
MAX	1.60	4.39	0	3570	15220	11.0	0	54.0	255	88.0	1820	0	15398
MIN	0	0	0	0	0	.20	0	.20	11.0	0	.60	0	2272
MEAN	.53	1.46	0	1209	5543	5.47	0	19.6	96.0	51.3	749	0	7820
NO.	3	3	3	3	3	3	3	3	3	3	3	3	2
DISTR OF MEAN	.0%	1.9%	.0%	15.5%	70.9%	.1%	.0%	.3%	1.2%	.7%	9.6%	.0%	100%

BRAZOS RIVER BASIN

08086050 Deep Creek at Moran, Texas

LOCATION: Lat 32°33'33", long 99°10'11". Shackelford County, at the bridge on State Highway 6, 0.8 mi (1.2 km) north of Moran, 2.3 mi (3.7 km) upstream from Past Oak Creek, and 10.8 mi (17.4 km) upstream from Hubbard Creek.

DRAINAGE AREA: 235 mi<sup>2</sup> (609 km<sup>2</sup>).

PERIOD OF RECORD: November 1962 to September 1975.

GAGE: Water-stage recorder. Datum of gage is 1,296.21 ft (395.085 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 14,717 ac-ft/yr (18.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 9,800 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Jan. 21, 1968 (gage height, 18.86 ft or 5.749 m); no flow at times.

Maximum stage since 1888, 25.6 ft (7.80 m) June 6, 1961, from floodmark.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	-	7.30	6.90	-
1963	5.60	1.60	1.20	170	8040	552	0	0	0	21.0	1190	8.90	9990
1964	103	522	52.0	88.0	1.80	0	0	2050	59.0	0	3490	7.50	6373
1965	8.30	15.0	6.70	21.0	16860	80.0	0	25.0	2120	1450	177	41.0	20804
1966	11.0	9.3	3.40	4750	7010	1060	.80	444	2720	18.0	10.0	9.1	16046
1967	6.60	6.90	8.00	3.80	2090	2220	232	3.10	2920	160	52.0	168	7870
1968	27660	1630	2710	11420	1080	711	67.0	4.30	2.70	2.00	56.0	36.0	45379
1969	12.0	186	3250	1310	9180	199	2.00	.50	507	260	21.0	2060	16988
1970	368	228	1830	4870	1820	198	2.20	1.90	3.20	6.50	5.20	5.90	9339
1971	7.70	3.80	1.80	1.10	5780	252	64.0	1340	645	254	159	388	8896
1972	58.0	19.0	7.00	242	402	2.00	81.0	0	132	408	53.0	5.90	1410
1973	165	98.0	132	164	10.0	55.0	50.0	3.00	303	515	26.0	8.80	1530
1974	5.20	7.00	1.70	1700	39.0	16.0	0	635	15070	13630	3410	316	34830
1975	535	6710	320	830	1190	550	254	51.0	3.40	-	-	-	-
MAX	27660	6710	3250	11420	16860	2220	254	2050	15070	13630	3490	2060	45379
MIN	5.20	1.60	1.20	1.10	1.80	0	0	0	0	0	5.20	5.90	1410
MEAN	2227	726	640	1967	4116	453	57.9	351	1883	1394	666	236	14717
NO.	13	13	13	13	13	13	13	13	13	12	13	13	12
DISTR													
OF MEAN	15.1%	4.9%	4.4%	13.4%	28.0%	3.1%	.4%	2.4%	12.8%	9.5%	4.5%	1.6%	100%

**BRAZOS RIVER BASIN**  
**08086100 Hubbard Creek near Albany, Texas**

LOCATION: Lat 32°41'21", long 99°09'52", Shackelford County, 348 ft (106 m) upstream from the bridge on Farm Road 601; 1.8 mi (2.9 km) downstream from Deep Creek, 8.1 mi (13.0 km) southeast of Albany, and 28.1 mi (45.2 km) upstream from Hubbard Creek Dam.

DRAINAGE AREA: 461 mi<sup>2</sup> (1,194 km<sup>2</sup>).

PERIOD OF RECORD: February 1962 to September 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,224.1 ft (373.11 m) above mean sea level. Prior to Mar. 20, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 14 years, 32,474 ac-ft/yr (40.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 16,000 ft<sup>3</sup>/s (453 m<sup>3</sup>/s) May 13, 1965 (gage height, 16.17 ft or 4.929 m); no flow at times.

Maximum stage since 1897, about 26 ft (7.9 m) in 1899.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	41.0	46.0	509	1.40	6690	3940	39.0	4070	342	18.0	6.20	-
1963	2.20	0	0	448	10660	1330	0	0	165	6230	3.60	18839	
1964	415	1360	71.0	108	.80	0	0	1720	1530	0	7350	1.20	12556
1965	.80	6.90	0	261	38740	188	0	378	2940	2170	381	36.0	45102
1966	12.0	18.0	0	8880	10410	1710	0	1030	4920	40.0	0	0	27020
1967	0	0	0	165	2260	2800	323	274	5320	342	68.0	4.86	12038
1968	55560	4850	7210	22670	2970	1080	364	.30	0	0	38.0	29.0	94771
1969	.90	350	5720	1980	35670	1100	17.0	0	1220	1110	64.0	40.30	51262
1970	975	458	3400	13470	4910	444	.60	31.0	0	0	0	0	23689
1971	0	0	0	0	9980	299	85.0	1710	1690	445	7.00	5.34	14750
1972	50.0	10.0	0	797	2060	0	8.00	0	429	1870	127	0	5351
1973	454	437	498	397	7.20	68.0	181	0	510	933	0	0	3485
1974	0	0	0	6690	100	0	0	2810	41670	31530	11190	1240	95230
1975	1370	12760	1240	1390	6780	891	308	147	.02	-	-	-	-
MAX	55560	12760	7210	22670	38740	6690	3940	2810	41670	31530	11190	4030	95230
MIN	0	0	0	0	.80	0	0	0	0	0	0	0	3485
MEAN	4526	1449	1299	4126	8896	1186	373	581	4593	2996	1959	490	32474
NO.	13	14	14	14	14	14	14	14	14	13	13	13	12
DISTR													
OF MEAN	13.9%	4.5%	4.0%	12.7%	27.4%	3.7%	1.1%	1.8%	14.1%	9.2%	6.0%	1.5%	100%

BRAZOS RIVER BASIN

08086120 Salt Prong Hubbard Creek at State Highway 6 near Albany, Texas

LOCATION: Lat 32°41'05", long 89°16'05", Shackelford County, 448 ft (136.6 m) downstream from the bridge on State Highway 6, 2.0 mi (3.2 km) upstream from North Fork Hubbard Creek, 3.2 mi (5.1 km) southeast of Albany, and 8.1 mi (13.0 km) downstream from Lake McCarty.

DRAINAGE AREA: 65.2 mi<sup>2</sup> (168.9 km<sup>2</sup>).

PERIOD OF RECORD: October 1963 to September 1968.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,347.24 ft (410.6 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 2,053 ac-ft/yr (2.5 km<sup>3</sup>/yr).

EXTREMES: Period of record (1963-68): Maximum discharge, 2,850 ft<sup>3</sup>/s (80.7 m<sup>3</sup>/s) May 12, 1965 (gage height, 4.21 ft or 1.3 m); no flow most of the time.

REMARKS: Records good. There is some regulation by Lake McCarty.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	141	16.0	-
1964	16.0	200	22.0	58.0	17.0	4.00	0	0	0	0	47.0	13.0	377
1965	5.00	2.20	0	100	2930	69.0	0	.20	2.00	6.00	17.0	2.20	3134
1966	8.30	5.40	2.60	153	35.0	4.00	0	1.60	87.0	6.70	9.00	12.0	325
1967	1.40	7.30	10.0	9.3	1.60	1.40	0	0	0	0	0	0	31.0
1968	2530	655	1690	1050	183	101	35.0	.50	0	-	-	-	-
MAX	2530	655	1690	1050	2930	101	35.0	1.60	87.0	6.70	141	16.0	3134
MIN	1.40	2.20	0	9.3	1.60	1.40	0	0	0	0	0	0	31.0
MEAN	512	174	345	274	633	35.9	7.00	.46	17.8	2.54	42.8	8.64	2053
NO.	5	5	5	5	5	5	5	5	5	5	5	5	4
DISTR OF MEAN	24.9%	8.5%	16.6%	13.3%	30.8%	1.7%	.3%	.0%	.9%	.1%	2.1%	.4%	100%

**BRAZOS RIVER BASIN**  
**08086150 North Fork Hubbard Creek near Albany, Texas**

LOCATION: Lat 32°42'27", long 99°16'29", Shackelford County, at the bridge on State Highway 6, 1.7 mi (2.7 km) southeast of Albany, and 2.0 mi (3.2 km) upstream from Salt Prong Hubbard Creek.

DRAINAGE AREA: 39.3 mi<sup>2</sup> (101.8 km<sup>2</sup>).

PERIOD OF RECORD: November 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,340.54 ft (408.597 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 3,258 ac-ft/yr (4.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 9,520 ft<sup>3</sup>/s (270 m<sup>3</sup>/s) May 5, 1969 (gage height, 19.22 ft or 5.858 m); no flow at times.

Flood information begins in 1940. Floods of June 10, 1940 and July 18, 1953 reached stages of about 21 ft (6.4 m), from information by local residents.

REMARKS: Records good. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	-	30.0	32.0	-
1963	23.0	17.0	16.0	56.0	123	129	12.0	4.20	6.20	3.00	122	13.0	524
1964	33.0	500	80.0	57.0	141	24.0	3.00	5.00	33.0	13.0	63.0	21.0	973
1965	15.0	15.0	12.0	488	2670	109	17.0	15.0	171	96.0	18.0	14.0	3640
1966	20.0	17.0	17.0	1700	255	29.0	10.0	174	1210	55.0	30.0	28.0	3545
1967	22.0	14.0	14.0	18.0	97.0	31.0	3.70	.40	314	15.0	15.0	41.0	585
1968	5180	959	1780	562	158	58.0	419	13.0	8.90	5.80	25.0	21.0	9190
1969	11.0	61.0	347	74.0	5510	129	19.0	9.8	29.0	15.0	18.0	33.0	6256
1970	19.0	23.0	26.0	1050	170	25.0	7.00	3.60	16.0	11.0	11.0	8.90	1370
1971	8.00	6.60	5.70	5.80	639	3.50	0	204	49.0	29.0	12.0	36.0	999
1972	10.0	30.0	15.0	99.0	48.0	7.00	13.0	18.0	51.0	502	160	26.0	979
1973	558	501	505	248	72.0	68.0	44.0	8.80	66.0	21.0	11.0	17.0	2120
1974	27.0	19.0	9.1	10.0	23.0	3.80	0	32.0	5600	3040	1390	390	10544
1975	354	819	190	74.0	175	42.0	29.0	16.0	11.0	6.40	25.0	24.0	1765
MAX	5180	959	1780	1700	5510	129	419	204	5600	3040	1390	390	10544
MIN	8.00	6.60	5.70	5.80	23.0	3.50	0	.40	6.20	3.00	11.0	8.90	524
MEAN	483	229	232	342	775	50.6	44.4	38.8	582	293	138	50.3	3258
NO. OF MEAN	13	13	13	13	13	13	13	13	13	13	14	14	13
DISTR OF MEAN	14.8x	7.0x	7.1x	10.5x	23.8x	1.6x	1.4x	1.2x	17.9x	9.0x	4.2x	1.5x	100x



BRAZOS RIVER BASIN

08086200 Salt Prong Hubbard Creek near Albany, Texas

LOCATION: Lat 32°42'05", long 99°12'45", Shackelford County, at the bridge on Farm Road 601, 2.7 mi (4.3 km) downstream from North Prong Hubbard Creek, 4.9 mi (7.9 km) upstream from Hubbard Creek, 5.2 mi (8.4 km) southeast of Albany, and 20 mi (32.2 km) upstream from Hubbard Creek Reservoir (station 08086400).

DRAINAGE AREA: 116 mi<sup>2</sup> (300.4 km<sup>2</sup>).

PERIOD OF RECORD: February 1962 to September 1963.

GAGE: Water-stage recorder. Datum of gage ft 1,269.8 ft (384.0 m) above mean sea level, datum of 1929. Prior to March 20, 1962, staff gage at same site and datum.

EXTREMES: Period of record (1962-63): Maximum discharge, 9,600 ft<sup>3</sup>/s (271.9 m<sup>3</sup>/s) June 10, 1962 (gage height, 12.4 ft or 3.8 m, from floodmark); no flow at times.

Maximum stage since 1806, about 22 ft (6.7 m) in July 1953, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	98.0	141	192	22.0	5830	410	16.0	1850	78.0	59.0	79.0	-
1963	64.0	49.0	36.0	63.0	293	161	4.20	0	0	-	-	-	-
MAX	64.0	98.0	141	192	293	5830	410	16.0	1850	78.0	59.0	79.0	-
MIN	64.0	49.0	36.0	63.0	22.0	161	4.20	0	0	78.0	59.0	79.0	-
MEAN	64.0	73.5	88.5	128	158	2996	207	8.00	925	78.0	59.0	79.0	4864
NO.	1	2	2	2	2	2	2	2	2	1	1	1	0
DISTR OF MEAN	1.3%	1.5%	1.8%	2.6%	3.2%	61.6%	4.3%	.2%	19.0%	1.6%	1.2%	1.6%	100%

**BRAZOS RIVER BASIN**  
**08086210 Sniftum Creek near Albany, Texas**

LOCATION: Lat 32°43'15", long 99°11'05", Shackelford County, 196 ft (59.7 m) upstream from a county low-water crossing, 0.6 mi (0.96 km) upstream from Salt Prong Hubbard Creek, and 6.6 mi (10.6 km) east of Albany.

DRAINAGE AREA: 25.5 mi<sup>2</sup> (66.0 km<sup>2</sup>).

PERIOD OF RECORD: October 1963 to September 1966.

GAGE: Water-stage recorder. Datum of gage is 1,260 ft (384.0 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1963-66): Maximum discharge, 2,220 ft<sup>3</sup>/s (62.9 m<sup>3</sup>/s) April 29, 1966 (gage height, 10.14 ft or 3.1 m); no flow most of the time.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	-	-	0	176	20	-
1964	5.40	298	6.90	4.0	7.50	4.0	0	0	0	0	28.0	0	347
1965	0	0	0	544	1370	3.60	0	0	0	9.3	0	0	1927
1966	0	0	0	831	82.0	0	0	3.80	225	-	-	-	-
MAX	5.40	298	6.90	831	1370	3.60	0	3.80	225	9.3	176	20	1927
MIN	0	0	0	4.0	7.50	0	0	0	0	0	0	0	347
MEAN	1.80	99.3	2.30	458	487	1.33	0	1.27	75.0	3.10	66.0	6.7	1197
NO. OF MEAN	3	3	3	3	3	3	3	3	3	3	3	3	2
DISTR OF MEAN	.2%	8.3%	.2%	38.3%	40.6%	.1%	.0%	.1%	6.3%	.3%	5.7%	.0%	100%

BRAZOS RIVER BASIN

08086212 Hubbard Creek below Albany, Texas

LOCATION: Lat 32°43'58", long 99°08'25", Shackelford County, 0.5 mi (0.8 km) downstream from Salt Prong Hubbard Creek, 2.8 mi (4.5 km) upstream from Newcomb Creek, 4.5 mi (7.2 km) upstream from the bridge on U.S. Highway 180, and 9.1 mi (14.6 km) east of Albany.

DRAINAGE AREA: 813 mi<sup>2</sup> (1,587.7 km<sup>2</sup>).

PERIOD OF RECORD: October 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,184.99 ft (361.185 m) above mean sea level, datum of 1929. Prior to June 12, 1968, water-stage recorder at site 2.1 mi (3.4 km) downstream at datum 7.63 (2.326 m) lower.

AVERAGE DISCHARGE: 10 years, 49,433 ac-ft/yr (61.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 27,200 ft<sup>3</sup>/s (770 m<sup>3</sup>/s) Jan. 21, 1968 (gage height, 25.10 ft or 7.650 m, at former site and datum); no flow for many days.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	-	-	-	90.0	9.4	15.0	-
1967	16.0	14.0	7.60	116	1810	2430	192	240	3950	168	35.0	271	9250
1968	94960	5520	9630	29870	3010	1180	548	0	0	0	58.0	79.0	145055
1969	0	427	5340	1990	55730	1390	25.0	0	980	1050	80.0	3450	70462
1970	1110	642	3830	17460	5980	418	2.90	31.0	.04	0	0	0	29474
1971	0	0	0	0	13860	319	141	1960	1780	468	53.0	548	19129
1972	83.0	40.0	1.00	822	2000	0	44.0	4.00	405	2680	341	20.0	6440
1973	1200	820	1620	655	93.0	96.0	655	3.70	516	1190	3.10	2.20	6254
1974	4.00	2.10	1.90	6900	135	3.40	0	2910	69620	42700	13550	2090	137916
1975	2050	12070	1700	1530	7960	1510	515	140	5.80	.50	211	22.0	27714
MAX	94960	12070	9830	29870	55730	2430	655	2910	69620	42700	13550	3450	145055
MIN	0	0	0	0	93.0	0	0	0	0	0	0	0	6254
MEAN	11047	2171	2414	6594	10064	816	236	588	8584	4835	1434	650	49433
NO.	9	9	9	9	9	9	9	9	9	10	10	10	9
DISTR OF MEAN	22.3%	4.4%	4.9%	13.3%	20.4%	1.7%	.5%	1.2%	17.4%	9.8%	2.9%	1.3%	100%

BRAZOS RIVER BASIN

08086235 Battle Creek near Moran, Texas

LOCATION: Lat 32°33'05", Long 99°06'35", Shackelford County, at the bridge on Farm Road 2408, 3.4 mi (5.5 km) east of Moran, and 7 mi (11.3 km) upstream from Pecan Creek.

DRAINAGE AREA: 108 mi<sup>2</sup> (279.7 km<sup>2</sup>).

PERIOD OF RECORD: October 1966 to September 1968.

GAGE: Water-stage recorder. Datum of gage is 1,330 ft (405.4 m) above mean sea level, datum of 1929.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	-	-	-	1.10	0	0	-
1967	0	0	0	32.0	701	3310	538	3.10	947	61.0	33.0	75.0	5700
1968	7100	934	1690	3070	570	764	274	32.0	0	-	-	-	-
MAX	7100	934	1690	3070	701	3310	538	32.0	947	61.0	33.0	75.0	5700
MIN	0	0	0	32.0	570	764	274	3.10	0	1.10	0	0	5700
MEAN	3550	467	845	1551	636	2037	406	17.5	474	31.0	16.5	37.5	10069
NO.	2	2	2	2	2	2	2	2	2	2	2	2	1
DISTR OF MEAN	35.3%	4.6%	8.4%	15.4%	6.3%	20.2%	4.0%	.2%	4.7%	.3%	.2%	.4%	100%

BRAZOS RIVER BASIN

08086260 Pecan Creek near Eolian, Texas

LOCATION: Lat 32°35'01", long 99°01'57". Stephens County, at a county road crossing, 1.4 mi (2.3 km) east of the bridge on Farm Road 1853, 3.3 mi (5.3 km) upstream from Battle Creek, and 5.8 mi (9.3 km) south of Eolian.

DRAINAGE AREA: 25.4 mi<sup>2</sup> (65.8 km<sup>2</sup>).

PERIOD OF RECORD: October 1866 to September 1975.

GAGE: Water-stage recorder. Datum of gage is 1,270 ft (387 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 1,875 ac-ft/yr (2.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1866-75): Maximum discharge, 648 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s) May 6, 1969 (gage height, 12.78 ft or 3.895 m); no flow at times.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	-	-	-	2.10	0	0	-
1967	0	0	5.00	47.0	178	308	314	0	618	98.0	62.0	32.0	1662
1968	1750	305	752	743	303	331	166	36.0	0	0	102	14.0	4502
1969	2.80	160	779	776	1430	253	0	14.0	87.0	0	0	537	4039
1970	12.0	66.0	207	259	145	2.30	0	66.0	27.0	0	0	0	784
1971	0	0	0	0	405	4.00	7.90	3.10	186	2.00	0	27.0	635
1972	0	0	0	253	519	0	49.0	127	6.00	464	.08	0	1418
1973	82.0	5.00	17.0	480	.40	107	59.0	.50	81.0	191	0	0	1025
1974	0	7.30	0	248	50.0	19.0	0	118	465	827	42.0	5.90	1782
1975	108	628	102	141	14.0	24.0	19.0	3.60	0	-	-	-	-
MAX	1750	628	779	776	1430	331	314	127	618	827	102	537	4502
MIN	0	0	0	0	.40	0	0	0	0	0	0	0	635
MEAN	217	130	207	327	338	116	68.3	40.9	164	176	22.9	68.4	1875
NO.	9	9	9	9	9	9	9	9	9	9	9	9	8
DISTR OF MEAN	11.6%	6.9%	11.0%	17.5%	18.0%	6.2%	3.6%	2.2%	8.7%	9.4%	1.2%	3.6%	100%

BRAZOS RIVER BASIN

08086290 Big Sandy Creek above Breckenridge, Texas

LOCATION: Lat 32°38'54", Long 99°00'15", Stephens County, 600 ft (180 m) downstream from Battle Creek, 1.6 mi (2.6 km) upstream from the bridge on Farm Road 576, 9.8 mi (15.8 km) southwest of Breckenridge, and 14.6 mi (23.5 km) upstream from Hubbard Creek Dam.

DRAINAGE AREA: 280 mi<sup>2</sup> (725 km<sup>2</sup>).

PERIOD OF RECORD: February 1962 to December 1975. Prior to October 1975, published as "Big Sandy Creek near Breckenridge".

GAGE: Water-stage recorder. Datum of gage is 1,185.83 ft (361.441 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1975, at site 1.6 mi (2.6 km) downstream at datum 7.41 ft (2.259 m) lower.

AVERAGE DISCHARGE: 14 years, 22,224 ac-ft/yr (27.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 8,170 ft<sup>3</sup>/s (231 m<sup>3</sup>/s) May 13, 1965 (gage height, 23.30 ft or 7.102 m); no flow at times each year.

According to information from the State Highway Department, the floods of May 18, 1949, July 20, 1953, and Apr. 29, 1957 each reached a stage of 24.6 ft (7.50 m).

REMARKS: Records good. The flow is affected by Lake Cisco (capacity, 25,600 ac-ft or 31.6 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	0	4.00	213	1.60	6050	3160	3.20	5540	1180	6.70	1.49	-
1963	1.80	3.20	110	3370	144.50	521	.20	699	110	420	7870	6.20	27561
1964	629	2320	349	46.0	1.40	0	0	6180	6220	36.0	9220	12.0	25013
1965	353	108	15.0	313	254.70	1630	3.80	3.40	1180	1000	69.0	2.00	30147
1966	2.00	185	0	8460	110.30	7160	82.0	169	5260	7.00	1.00	3.00	32359
1967	2.30	1.60	.20	584	1890	6790	2450	.20	5040	484	277	2.52	17771
1968	33650	3320	5700	9450	734	2100	283	89.0	0	0	113	35.0	55474
1969	2.80	590	7770	8320	16070	571	6.30	154	304	81.0	5.20	51.70	39044
1970	240	586	2240	2550	1200	106	1.40	869	6.00	3.00	0	0	7801
1971	0	0	0	13.0	6620	63.0	264	386	225	167	0	67.0	7805
1972	0	0	0	1140	3480	0	40.0	177	19.0	2250	121	.90	7228
1973	544	107	69.0	4690	31.0	865	216	20.0	93.0	290	1.70	.10	6927
1974	0	26.0	0	3800	277	6.30	0	1530	6510	12570	1710	59.0	26488
1975	136	7250	252	232	39.0	106	441	.70	0	0	43.0	.70	8500
MAX	33650	7250	7770	9450	25470	7160	3160	6180	6510	12570	9220	5170	55474
MIN	0	0	0	13.0	1.40	0	0	.20	0	0	0	0	6927
MEAN	2735	1035	1179	3084	5807	1855	496	734	2179	1321	1388	411	22224
N.C.	13	14	14	14	14	14	14	14	14	14	14	14	13
DISTR OF MEAN	12.3%	4.7%	5.3%	13.9%	26.1%	8.3%	2.2%	3.3%	9.8%	5.9%	6.2%	1.9%	100%

BRAZOS RIVER BASIN

08086400 Hubbard Creek Reservoir near Breckenridge, Texas

LOCATION: Lat 32°49'53", long 98°58'03", Stephens County, just upstream from the dam on Hubbard Creek, 1.0 mi (1.6 km) upstream from the bridge on U.S. Highway 183, and 6.5 mi (10.5 km) northwest of Breckenridge.

DRAINAGE AREA: 1,085 mi<sup>2</sup> (2,810.2 km<sup>2</sup>).

PERIOD OF RECORD: September 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1962-75): Maximum contents, 327,200 ac-ft (403.4 hm<sup>3</sup>) Feb. 3, 1976 (elevation, 1,183.61 ft or 360.764 m); minimum contents since the normal operating level was reached in May 1969, 171,200 ac-ft (211.1 hm<sup>3</sup>) Oct. 18-20, 1972 (elevation, 1,171.3 ft or 357.01 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 5,630 ft (1,720 m) long, with a capacity of 317,800 ac-ft (391.8 hm<sup>3</sup>). There are two additional levees, the north and south, making an overall length of 3.5 mi (5.6 km). Storage began in September 1962 and the dam was completed in December 1962. The emergency spillway is a 2,000-foot wide (610-m) cut through natural ground near the left end of the dam. The service spillway is a partially controlled mowing glory-type with 12 lift gates designed to discharge 30,000 ft<sup>3</sup>/s (850 m<sup>3</sup>/s) with a 17.5-foot (5.3-m) head through a 22-foot diameter (7-m) concrete conduit. The dam is the property of the West Central Texas Municipal Water District.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	-	-	-	-	-	-	-	-	9350	9020	7320	6680
1963	6350	6020	5150	8600	30540	22680	15010	10720	7820	7740	19620	11040
1964	9830	16670	16600	16000	15490	14170	12100	17800	23690	22260	40740	39310
1965	39190	38760	37490	39380	121100	118200	111200	108100	108100	109900	108000	107400
1966	106200	105800	103700	137700	157400	161800	155500	155500	177600	172200	169200	166200
1967	164300	162300	161400	156600	159400	164300	162300	155600	166200	162300	161400	160400
1968	263400	272900	289700	282600	282600	282600	260700	251500	242600	238800	238800	236300
1969	235000	237500	252800	263400	274200	272900	263400	255500	252800	252800	248900	260700
1970	259400	262000	262000	279800	258100	250200	240000	232500	227700	222800	215700	213200
1971	211000	208800	204200	199700	211000	205400	198600	200800	201900	201900	198600	200800
1972	198600	197500	193100	192000	193100	187700	181400	178300	174200	182500	180400	178300
1973	182500	184600	184600	187700	183500	179300	181400	176300	173200	176300	172200	168200
1974	166200	165300	160400	171200	166200	158000	151000	151900	230100	291200	311800	310200
1975	311800	307200	307200	307200	305800	301300	295500	286800	281200	291200	311800	310200
MAX	311800	307200	307200	307200	305800	301300	295500	286800	281200	291200	311800	310200
MIN	6350	6020	5150	8600	15490	14170	12100	10720	7820	7740	7320	6680
MEAN	165675	166565	167565	172452	181418	178381	171393	167794	162604	165994	167349	166059
NO.	13	13	13	13	13	13	13	13	14	14	14	14
DISTR												
OF MEAN	8.1%	8.2%	8.2%	8.5%	8.9%	8.8%	8.4%	8.3%	8.0%	8.2%	8.2%	8.2%

BRAZOS RIVER BASIN

08086500 Hubbard Creek near Breckenridge, Texas

LOCATION: Lat 32°50'13", long 98°56'52", Stephens County, at the bridge on U.S. Highway 183, 1.4 mi (2.3 km) downstream from Hubbard Creek Reservoir, 6.8 mi (10.9 km) northwest of Breckenridge, 8.2 mi (13.2 km) upstream from Gonzales Creek, and 11.2 mi (18.0 km) upstream from the Clear Fork Brazos River.

DRAINAGE AREA: 1,089 mi<sup>2</sup> (2,820.5 km<sup>2</sup>), of which 1,065 mi<sup>2</sup> (2,810.2 km<sup>2</sup>) is above Hubbard Creek Dam.

PERIOD OF RECORD: May 1955 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,092.10 ft (332.872 m) above mean sea level, datum of 1929. Prior to July 16, 1959, at site 300 ft (91 m) upstream at same datum.

AVERAGE DISCHARGE: 21 years, 58,265 ac-ft/yr (71.8 km<sup>3</sup>/yr).

EXTREMES: Period of record (1955-75): Maximum discharge, 34,500 ft<sup>3</sup>/s (1977 m<sup>3</sup>/s) May 26, 1957 (gage height, 34.00 ft or 10.363 m); no flow at times.

Maximum stage since at least 1925, 34.2 ft (10.42 m) July 20, 1953, from information by a local resident and the State Highway Department.

REMARKS: Records good. The flow is regulated by Hubbard Creek Reservoir (station 08085400) since 1962.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	-	-	-	-	262.30	17280	1380	9060	28190	2380	.40	0	-
1956	30.0	113	0	97.0	10970	1830	0	1040	24.0	599	5500	2930	23133
1957	1.00	454.10	361	123100	240700	32940	2120	1060	3500	49220	9880	719	509011
1958	432	278	3870	4220	25920	3180	44400	2210	3520	97.0	0	0	88127
1959	65.0	28.0	8.50	0	14030	16240	3830	166	238	40820	19.0	25.0	75470
1960	3930	970	1820	7160	521	40.0	4650	213	77.0	7130	3.80	14.0	26529
1961	11890	2410	143	7.30	2.20	48930	12310	30.0	14280	877	5120	637	96636
1962	424	87.0	133	611	48.0	25470	10440	1910	3850	3420	2180	913	49486
1963	11.0	12.0	683	712	4170	8500	5590	4050	3220	1720	5980	9690	44338
1964	2840	735	30.0	37.0	23.0	1.00	104	71.0	37.0	0	169	0	4047
1965	8.30	4.00	1.40	180	664	1.20	3.60	9.1	38.0	2.60	0	0	912
1966	17.0	0	0	761	60.0	14.0	28.0	79.0	679	0	0	.80	1839
1967	1.10	.70	.50	4.30	66.0	15.0	74.0	15.0	109	1.60	1.30	4.30	293
1968	644	46.0	49.0	39010	2710	9.7	16670	1.80	0	5.90	27.0	6.80	59180
1969	3.70	50.0	119	86.0	65570	32.0	.80	.10	2.50	28.0	2.50	1.17	66012
1970	11.0	38.0	4260	5170	25790	1410	.08	0	0	0	132	74.0	36885
1971	17.0	33.0	9.2	.60	0	1.50	51.0	192	73.0	87.0	1.00	44.0	509
1972	0	3.00	7.00	7.00	13.0	0	0	0	0	26.0	1.90	0	57.9
1973	42.0	13.0	19.0	9.4	8.20	7.10	28.0	0	0	53.0	0	0	180
1974	0	.60	.90	45.0	.20	0	54.0	298	196	128	104	5.40	832
1975	73.0	31920	30.0	18.0	7950	776	1.20	0	0	0	0	0	40768
MAX	11890	45410	4260	123100	240700	46930	44400	9060	28190	49220	9880	9690	509011
MIN	0	0	0	0	0	0	0	0	0	0	0	0	57.9
MEAN	1022	4108	577	9062	20259	7461	4845	972	2773	5076	1587	723	58265
NO.	20	20	20	20	21	21	21	21	21	21	21	21	20
DISTR													
OF MEAN	1.81	7.01	1.01	15.61	34.81	12.81	8.31	1.71	4.81	8.71	2.41	1.21	1001



BRAZOS RIVER BASIN  
08087300 Clear Fork Brazos River at Eliasville, Texas

LOCATION: Lat 32°57'36", long 98°46'18", Young County, 30 ft (9 m) upstream from an old mill dam, 180 ft (55 m) upstream from the bridge on Farm Road 1974, and 400 ft (122 m) northwest of Eliasville.

DRAINAGE AREA: 5,697 mi<sup>2</sup> (14,755.2 km<sup>2</sup>).

PERIOD OF RECORD: December 1915 to April 1920, January 1924 to August 1925, July 1928 to September 1951, October 1961 to December 1976.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,027.77 ft (313.264 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 47 years (1915-20, 1924-25, 1928-51, 1961-76), 262,342 ac-ft/yr (323.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-20, 1924-25, 1928-51, 1961-75): Maximum discharge, 35,800 ft<sup>3</sup>/s (1,010 m<sup>3</sup>/s) June 11, 1941 (gage height, 33.45 ft or 10.196 m, site and datum then in use); no flow at times.

Maximum stage since 1877, 35 ft (11 m) May 1, 1957, present site and datum, from information by the Texas Highway Department and local residents.

REMARKS: Records good. Regulation of the flow is by eight major upstream reservoirs with a combined capacity of 510,100 ac-ft (628.95 hm<sup>3</sup>). There are many small diversions above the station for municipal water supply and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	-	-	231	-
1916	153	81.0	172	28100	34700	9160	4540	255	0	9590	74.0	44.0	86809
1917	0	0	0	0	5940	2410	440	621	2390	25.8	0	0	11827
1918	0	0	0	43200	68200	49700	3910	17.2	25900	96500	17700	29900	335027
1919	17500	4270	41000	51800	142000	44300	78700	46100	4110	21600	9040	842	461262
1920	3230	1820	670	2460	-	-	-	-	-	-	95.2	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	2700	1550	21400	19500	54200	8160	4.40	131	89900	1370	95.0	354	199364
1925	417	93.4	18.2	16800	83700	4830	3240	12900	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	117000	83600	4830	408	3740	1990	-
1929	1300	683	5380	11500	93500	5880	14000	95.0	68400	30700	1760	89.0	233287
1930	422	543	109	10500	180000	78600	4800	5290	29500	180000	3890	53700	547354
1931	2200	24800	3300	2860	15300	9100	10500	2.50	0	175000	23400	59500	325963
1932	8730	28900	2380	13600	127000	88100	178000	8360	323000	15600	7800	50800	852270
1933	14400	5610	7190	6960	125000	5160	6580	10400	6550	9040	4540	2580	204010
1934	5700	2120	23900	12800	1020	105	0	0	1980	0	10810	202	58637
1935	84.0	4910	3240	5500	215000	211500	59240	2890	68880	4780	3340	2200	581564
1936	1090	748	762	5810	70080	3230	14920	0	171000	44740	2950	2500	317830
1937	1640	1340	3820	1090	4110	11670	5650	13310	3140	31940	62.0	1760	79532
1938	5510	32300	69180	31890	96000	35520	122300	19330	759	0	1130	27.0	413946
1939	8300	88.0	452	3500	103200	94930	4310	7900	46.0	10630	466	94.0	233916
1940	0	5730	113	10510	64570	112900	13660	92290	10150	3.00	32110	6770	348806
1941	1290	23600	10940	66700	470800	225500	30970	67520	18640	217000	44420	16720	1194100
1942	4950	5250	2140	110400	51760	45970	1340	3690	59200	123800	7170	6930	422600
1943	3500	2680	10610	18850	8510	19340	529	0	84.0	1020	0	132	65255
1944	468	9010	6400	3090	34300	10510	11940	6470	6750	41500	1610	1950	133998
1945	682	941	37480	46270	12100	31320	60650	6410	1.80	25100	1810	1330	224095
1946	2800	783	596	2640	15320	5470	264	22160	65230	25630	12010	20840	173743
1947	1100	255	1130	225	111200	13090	1120	0	2960	27630	3980	10300	172990
1948	823	1450	3620	2570	19380	42540	24510	1740	6.50	9250	245	0	106135
1949	922	1380	2380	5910	95870	48080	3510	8490	19710	23790	1890	107	212039
1950	148	801	131	22490	60410	8390	66930	10720	28720	331	97.0	115	199283
1951	62.0	166	138	205	40270	69420	6990	3.20	0	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	6120	23210	4320	-
1962	2610	1770	3420	4160	1370	159000	28870	7190	149100	12540	6730	4310	381070
1963	1820	1600	1970	19810	26470	49500	7910	4480	3490	5990	10910	10790	144740
1964	3870	9710	1320	1240	1980	1760	9.1	1980	2530	371	7610	423	32803

BRAZOS RIVER BASIN

08087300 Clear Fork Brazos River at Eliasville, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	1030	631	414	13890	141100	4440	213	87.0	8680	26660	2350	1020	200515
1966	1110	999	679	64600	56530	5740	111	5910	81780	1260	781	1120	220620
1967	895	512	555	1470	1710	6520	5160	176	11240	1480	695	1550	31963
1968	60300	8380	37360	88680	19310	10080	26320	140	146	4.30	240	800	251762
1969	942	2000	6670	10620	260300	11130	783	845	51880	6500	4830	9650	366150
1970	5450	4700	13130	23720	48800	8470	78.0	4.40	1.90	77.0	27.0	12.0	104470
1971	174	498	174	87.0	6310	20570	1050	115600	72670	25170	8360	7800	258463
1972	4540	3270	3180	6150	6180	945	2680	7000	13340	13640	40320	3310	104555
1973	11520	14650	24850	18830	4690	7190	7650	1540	6600	5160	1560	1190	105630
1974	1100	1090	1120	4640	970	345	.60	5470	94340	82980	89280	11190	292526
1975	11650	65960	8430	7050	33800	9610	31360	7080	2830	1220	4500	2900	186390
MAX	60300	65960	69180	110400	470800	225500	178000	115600	323000	217000	89280	59500	1194100
MIN	0	0	0	0	970	105	0	0	0	0	0	0	11827
MEAN	4480	6311	8224	18697	70069	36981	21881	13368	35132	30608	9037	7554	262342
NO.	44	44	44	44	43	43	44	44	43	43	44	44	41
DISTR OF MEAN	1.7%	2.4%	3.1%	7.1%	26.7%	14.1%	8.3%	5.1%	13.4%	11.7%	3.4%	2.9%	100%

BRAZOS RIVER BASIN

08088000 Brazos River near South Bend, Texas

LOCATION: Lat 33°01'27", long 96°38'37". Young County, 265 ft (81 m) downstream from the bridge on State Highway 67, 1.8 mi (2.9 km) downstream from the Clear Fork Brazos River, and 2.0 mi (3.2 km) northeast of South Bend.

DRAINAGE AREA: 22,673 mi<sup>2</sup> (58,723.1 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1938 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 1,002.98 ft (305.708 m) above mean sea level, datum of 1929. Prior to Feb. 23, 1939, nonrecording gage at site 265 ft (81 m) upstream. Feb. 23, 1939 to Mar. 9, 1961, water-stage recorder at site 265 ft (81 m) upstream.

AVERAGE DISCHARGE: 38 years, 626.353 ac-ft/yr (772.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-76): Maximum discharge, 87,400 ft<sup>3</sup>/s (2,480 m<sup>3</sup>/s) May 4, 1941 (gage height, 27.35 ft or 8.336 m); maximum gage height, 32.70 ft (9.967 m) Aug. 29, 1957; no flow at times.

Maximum stage, 36.2 ft (11.03 m) in 1876, from information by the State Highway Department and the Corps of Engineers.

REMARKS: Records good. The flow is partly regulated by 10 major upstream reservoirs (combined capacity, 654,000 ac-ft or 683.1 hm<sup>3</sup>). There are many small diversions above the station for municipal water supply and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	30.0	710	24.0	-
1939	33210	410	2080	5210	181000	200900	14330	36680	118	20970	1150	88.0	496146
1940	33.0	8360	39.0	14480	108300	193000	29000	205500	49860	490	58400	14820	682282
1941	2310	37900	38890	217400	1238000	505300	101400	99370	88200	714500	108700	44800	3196770
1942	13870	10970	5620	296100	73430	73430	9530	27870	168000	274400	25590	17380	996190
1943	8300	3100	19420	39080	14240	78060	11370	122	1.80	743	67.0	1.98	174702
1944	1540	15820	13250	3240	48650	38360	28230	11820	9640	51260	4860	7870	234340
1945	4560	3720	66650	63410	13150	48960	118700	7660	3660	66160	3860	2000	402490
1946	4240	1440	1230	1950	19540	35210	19840	55920	152500	90930	38300	66450	487550
1947	6850	2080	3720	3630	488800	36410	6410	175	3280	31130	10190	27370	620045
1948	3800	11060	15400	3790	27160	131100	118700	10440	1010	14980	11290	811	349541
1949	7620	10390	5440	9350	212300	143100	8730	12650	78060	41270	6880	2200	537990
1950	2270	2890	960	42380	187200	34550	163100	53730	150800	13360	2240	2520	656000
1951	2270	2940	1920	1480	81960	126900	19200	16620	11930	242	341	25.0	268828
1952	68.0	296	183	2810	20190	9770	9430	143	0	0	4470	1620	48980
1953	151	34.0	5980	5580	61140	4920	245800	74930	12700	213900	20520	6310	651965
1954	3420	1350	658	101700	367500	38730	2810	2700	0	1890	14040	856	535654
1955	5300	7250	21610	7090	204600	145600	51470	20110	428500	298900	13910	9160	1213500
1956	7370	5620	2300	1290	33430	8590	93.0	145	77.0	2140	11100	8500	80655
1957	427	173700	10550	470700	1379000	347100	27870	13050	16380	107400	84440	7390	2638007
1958	5520	3830	13090	19530	149600	21360	111600	5820	61100	8300	2770	1480	404000
1959	1070	764	480	2350	42660	160900	96470	16570	5480	176500	6840	19060	529144
1960	18110	14360	5150	10300	2760	14640	186300	13330	1340	284500	24100	15590	590480
1961	30140	23650	13170	7220	31040	276700	270900	20120	73190	10910	29480	9570	796090
1962	5600	3230	5800	5660	5140	248000	40850	20930	370800	34360	50240	28070	818700
1963	7280	5610	7500	43550	71050	213400	14400	4280	16020	9300	18210	13600	424200
1964	6150	24900	3240	5530	12450	26720	377	2600	27940	5090	13470	2050	128517
1965	2470	1500	739	17750	237100	26720	1890	24680	20130	67580	7070	3390	411019
1966	3280	3160	2370	154400	128000	15280	1590	66040	346700	16420	5180	4640	747060
1967	3710	2140	2280	52290	5650	100800	137500	9180	35120	6910	2530	3360	361470
1968	107200	15010	67580	88530	52780	68630	69320	9810	2220	671	1700	6230	489681
1969	2590	5250	20670	24720	391700	25980	2440	1400	160400	39590	34610	20390	729740
1970	13720	10110	46630	38110	72220	16390	560	19.0	771	2260	542	372	201704
1971	758	830	441	49.0	31870	52390	2910	299000	147800	98900	24480	19940	679368
1972	9630	6390	4490	7970	50500	11340	11460	185200	109900	54080	119400	15930	586290
1973	30900	32060	60330	51060	11660	33270	8960	6050	20130	10020	3600	3300	271340
1974	2750	2470	2240	5880	8010	25830	453	4000	147500	127100	127500	17680	471413
1975	16450	56500	12470	10590	92730	41570	58050	26300	35070	7840	12320	6720	376610
MAX	107200	173700	67580	470700	1379000	505300	270900	299000	428500	714500	127500	66450	3196770
MIN	33.0	34.0	39.0	49.0	2760	4920	93.0	19.0	0	0	67.0	24.0	48980
MEAN	10133	13813	13096	49572	166392	96754	54109	36886	74495	76449	23818	10836	626353
NO.	37	37	37	37	37	37	37	37	37	38	38	38	37
DISTR													
OF MEAN	1.6x	2.2x	2.1x	7.9x	26.6x	15.4x	8.6x	5.9x	11.9x	12.2x	3.8x	1.7x	100x

BRAZOS RIVER BASIN  
08088100 Salt Creek at Olney, Texas

LOCATION: Lat 33°22'13", long 98°44'40", Young County, 21 ft (6 m) downstream from the bridge on State Highway 109, and 0.5 mi (0.8 km) east of Olney.

DRAINAGE AREA: 11.8 mi<sup>2</sup> (30.6 km<sup>2</sup>).

PERIOD OF RECORD: May 1958 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,164.03 ft (354.798 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 18 years, 2,175 ac-ft/yr (2.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-75); Maximum discharge, 12,500 ft<sup>3</sup>/s (354 m<sup>3</sup>/s) May 12, 1972 (gage height, 12.25 ft or 3.734 m); no flow at times each year.

Maximum stage since at least 1908, 16.7 ft (5.09 m) in June 1915.

REMARKS: Recordt good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	308	6.90	167	9.7	187	1.00	2.40	.60	-
1959	.20	0	.40	3.60	30.0	161	4.00	1.80	46.0	1180	0	34.0	1461
1960	31.0	105	1.40	4.40	14.0	6.20	170	2.60	27.0	36.0	0	19.0	417
1961	16.0	85.0	30.0	0	1.80	32.0	19.0	0	162	12.0	361	34.0	753
1962	.40	.60	36.0	14.0	11.0	502	39.0	.40	825	69.0	371	106	1974
1963	.20	2.20	6.20	106	45.0	233	9.5	0	.40	235	118	13.0	768
1964	44.0	421	6.70	43.0	1010	269	0	5.40	250	0	39.0	.60	2089
1965	43.0	8.50	1.40	53.0	243	1.60	0	14.0	24.0	148	0	.80	537
1966	1.20	2.80	158	5950	57.0	2.50	0	109	563	12.0	2.60	1.80	6860
1967	1.00	.80	6.90	25.0	30.0	17.0	12.0	0	828	16.0	5.20	12.0	954
1968	920	53.0	333	124	168	34.0	361	2.70	12.0	4.60	95.0	4.90	2112
1969	3.00	105	588	539	2160	158	.02	1.30	1050	109	9.9	213	4936
1970	27.0	32.0	146	405	58.0	.60	0	3.20	140	16.0	.40	.40	829
1971	.30	11.0	.02	1.00	48.0	3.10	.60	1110	62.0	407	4.00	254	1901
1972	5.00	2.00	2.00	79.0	5640	236	1.00	24.0	9.00	959	45.0	3.70	7006
1973	174	31.0	109	102	5.20	14.0	12.0	12.0	170	33.0	25.0	.02	687
1974	.02	15.0	11.0	93.0	49.0	122	0	1.40	589	538	50.0	15.0	1483
1975	9.2	102	8.00	17.0	1990	847	30.0	9.3	12.0	0	3.30	4.50	3032
MAX	920	421	588	5950	5640	847	361	1110	1050	1180	371	254	7006
MIN	.02	0	.02	0	1.80	.60	0	0	.40	0	0	.02	417
MEAN	75.0	57.5	84.9	445	659	147	45.8	72.6	275	210	62.9	39.9	2175
NO.	17	17	17	17	18	18	18	18	18	18	18	18	17
DISTR OF MEAN	3.5x	2.6x	3.9x	20.4x	30.3x	6.8x	2.1x	3.3x	12.7x	9.6x	2.9x	1.8x	100x

BRAZOS RIVER BASIN

08088200 Salt Creek near New Castle, Texas

LOCATION: Lat 33°13'00", long 98°38'55", Young County, 75 ft (22.9 m) downstream from a county road bridge, 1.0 mi (1.6 km) upstream from Oak Creek, 5.0 mi (8.0 km) east of New Castle, and 8.5 mi (13.7 km) upstream from Lake Graham (station. 08088400).

DRAINAGE AREA: 57.9 mi<sup>2</sup> (150.0 km<sup>2</sup>).

PERIOD OF RECORD: May 1958 to September 1980.

GAGE: Water-stage recorder and concrete control. Datum of gage not published.

EXTREMES: Period of record (1958-60): Maximum discharge, 3,840 ft<sup>3</sup>/s (108.7 m<sup>3</sup>/s) October 4, 1959 (gage height, 16.92 ft or 5.2 m); no flow at times each year.

Maximum stages since 1900 occurred in 1941 and September 1955, gage height, 20.6 ft (6.3 m), from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	2450	4.40	998	1.00	325	4.80	0	0	-
1959	0	0	0	0	263	910	815	0	263	7090	227	162	9730
1960	1410	2070	0	396	120	37.0	2420	33.0	148	-	-	-	-
MAX	1410	2070	0	396	2450	910	2420	33.0	325	7090	227	162	9730
MIN	0	0	0	0	120	4.40	815	0	148	4.80	0	0	9730
MEAN	705	1035	0	198	944	317	1411	11.3	245	3547	114	81.0	8608
NO.	2	2	2	2	3	3	3	3	3	2	2	2	1
DISTR OF MEAN	8.2%	12.0%	.0%	2.3%	11.0%	3.7%	16.4%	.1%	2.8%	41.2%	1.3%	.9%	100%

BRAZOS RIVER BASIN

08088300 Briar Creek near Graham, Texas

LOCATION: Lat 33°12'43", long 98°37'06", Young County, at the bridge on Farm Road 1769, 2.5 mi (4.0 km) upstream from the mouth, and 7.0 mi (11.3 km) northwest of Graham.

DRAINAGE AREA: 24.2 mi<sup>2</sup> (62.7 km<sup>2</sup>).

PERIOD OF RECORD: May 1958 to December 1975. Prior to October 1965, published as "Oak Creek near Graham."

GAGE: Water-stage recorder. Datum of gage is 1,090 ft (332 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 18 years, 2,714 ac-ft/yr (3.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 2,720 ft<sup>3</sup>/s (77.0 m<sup>3</sup>/s) Apr. 30, 1970 (gage height, 12.30 ft or 3.749 m); no flow most of the time.

Maximum stage since at least 1900, 16.2 ft (4.63 m) in September 1955.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	670	0	59.0	2.20	.40	7.90	0	0	-
1959	0	0	17.0	2.00	7.70	366	14.0	0	150	1100	.60	15.0	1672
1960	209	446	0	162	95.0	2.40	452	6.10	22.0	662	0	0	2076
1961	414	85.0	285	2.60	217	59.0	0	0	25.0	81.0	329	114	1612
1962	0	6.90	322	62.0	0	1750	743	18.0	914	211	274	143	4444
1963	3.00	.60	0	304	60.0	405	0	0	104	11.0	156	.80	1044
1964	88.0	121	0	15.0	879	27.0	0	224	0	0	969	0	2323
1965	13.0	1.20	0	6.60	1110	105	0	0	310	121	0	0	1667
1966	.40	0	70.4	5110	253	0	0	251	1260	58.0	0	0	7003
1967	0	0	0	14.0	301	195	458	0	378	1.00	0	0	1347
1968	711	11.0	925	60.0	68.0	4.40	0	0	0	0	11.0	0	1790
1969	0	.06	399	53.0	1280	91.0	0	0	758	90.0	2.50	4.38	3112
1970	33.0	162	107	2760	301	.06	0	0	0	0	0	0	3363
1971	0	0	0	0	41.0	23.0	0	5850	408	58.0	0	111	6491
1972	0	0	0	42.0	2380	270	0	0	0	827	60.0	0	3579
1973	95.0	10.0	132	71.0	75.0	91.0	25.0	1.70	244	500	48.0	.80	1293
1974	0	10.0	0	113	6.00	62.0	0	36.0	238	635	90.0	.10	1190
1975	.60	421	4.20	62.0	2180	445	190	1.50	0	0	0	0	3304
MAX	711	446	925	5110	2380	1750	743	5850	1260	1100	969	438	7003
MIN	0	0	0	0	0	0	0	0	0	0	0	0	1044
MEAN	92.2	75.0	133	520	551	216	108	355	267	243	108	45.7	2714
NO.	17	17	17	17	18	18	16	18	18	18	18	18	17
DISTR OF MEAN	3.4%	2.8%	4.9%	19.2%	20.3%	8.0%	4.0%	13.1%	9.8%	9.0%	4.0%	1.7%	100%

BRAZOS RIVER BASIN

08088400 Lake Graham near Graham, Texas

LOCATION: Lat 33°08'04", long 98°38'48", Young County, near the left end of the earthen dam on Salt Creek, 2.2 mi (3.6 km) northwest of Graham, and 5 mi (8 km) downstream from Briar Creek.

DRAINAGE AREA: 221 mi<sup>2</sup> (572.4 km<sup>2</sup>).

PERIOD OF RECORD: March 1958 to December 1975.

GAGE: Water-stage recorder. Datum of gage (Salt Creek datum) is 1.30 ft (0.396 m) above mean sea level, datum of 1929. Prior to October 1963, nonrecording gage at same site and datum.

EXTREMES: Period of record (1958-75): Maximum contents, 61,120 ac-ft (75.4 hm<sup>3</sup>) Apr. 30, 1970 (gage height, 1,077.77 ft or 328.504 m); minimum contents, 30,780 ac-ft (38.0 hm<sup>3</sup>) Aug. 12, 1971 (gage height, 1,065.10 ft or 324.642 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,000 ft (1,500 m) long, with a capacity of 45,000 ac-ft (55.5 hm<sup>3</sup>). Lake Graham was connected with Lake Eddleman in 1959 by a cut channel at a 1,060.0 ft (320.04 m) gage height. Deliberate impoundment began on Apr. 28, 1958 and the dam was completed in July 1958. The uncontrolled emergency spillway is a 1,050-foot wide (320-m) cut at the right end of the dam. The spillway is designed to discharge 136,600 ft<sup>3</sup>/s (3,870 m<sup>3</sup>/s) at a gage height of 1,087.5 ft (331.47 m). The dam is the property of the City of Graham and was built to impound water for municipal and industrial uses.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1958	-	-	193	1040	6180	6020	6820	7510	7560	6600	6910	6740
1959	6670	6580	6370	6080	6430	6920	9860	9090	9250	21020	20760	21060
1960	23430	26600	26450	25970	26110	24690	27150	26650	26150	27900	27090	26800
1961	28660	29640	29920	29170	28190	27760	26690	25050	25890	25520	28720	29070
1962	28640	28350	29110	29090	27390	39340	44010	42310	52390	50160	50810	49120
1963	48460	48040	47310	49640	50510	52520	50380	48160	46600	46580	47160	46660
1964	47070	48900	48480	47770	52140	51010	48510	47380	46530	45110	49370	48750
1965	48630	48340	47770	47970	53060	51790	49340	48210	49510	49880	49140	48700
1966	48310	48140	48090	58310	51990	50330	48190	48780	55010	52390	51560	50780
1967	50180	49220	48410	47970	50380	49340	50060	47700	51790	50260	49680	49170
1968	53680	52390	53620	51960	52520	52110	51840	50110	48530	47190	46920	46340
1969	45830	46070	50030	53290	52800	52700	49980	48340	53780	54010	53030	55010
1970	52600	53730	52340	60500	52040	49590	46680	44200	42760	41780	40490	39650
1971	38840	38350	37210	36170	34800	33010	31390	42950	43610	43450	42220	43750
1972	42970	42430	41100	40330	53290	53240	50760	48580	47310	51460	51490	50780
1973	52390	52360	51990	52490	50510	49980	48460	45950	46630	47330	46780	45690
1974	44990	44420	43470	43660	42290	42010	39520	38890	40750	44840	44750	44250
1975	43870	46270	45640	45490	55860	52360	51510	49980	48460	46700	45620	44960
MAX	53680	53730	53620	60500	55860	53240	51840	50110	55010	54010	53030	55010
MIN	6670	6580	193	1040	6180	6020	6820	7510	7560	6600	6910	6740
MEAN	41484	41755	39306	40383	41472	41373	40619	39991	41251	41789	41806	41516
NO.	17	17	18	18	18	18	18	18	18	18	18	18
DISTR												
OF MEAN	8.4%	8.5%	8.0%	8.2%	8.4%	8.4%	8.2%	8.1%	8.4%	8.5%	8.5%	8.4%

BRAZOS RIVER BASIN

08088450 Big Cedar Creek near Ivan, Texas

LOCATION: Lat 32°49'39", long 98°43'25", Stephens County, at the bridge on Farm Road 717, 3.2 mi (5.1 km) south of Ivan, 8.2 mi (13.2 km) northwest of Caddo, and 11.6 mi (18.7 km) northeast of Breckenridge.

DRAINAGE AREA: 97.0 mi<sup>2</sup> (251.2 km<sup>2</sup>).

PERIOD OF RECORD: December 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,090 ft (332 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years, 10,185 ac-ft/yr (12.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 9,590 ft<sup>3</sup>/s (272 m<sup>3</sup>/s) July 8, 1968 (gage height, 22.39 ft or 6.824 m); no flow at times each year.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1964	-	-	-	-	-	-	-	-	-	-	-	0	-
1965	4.00	5.00	0	1250	8660	62.0	0	613	631	547	0	0	11772
1966	0	64.0	0	6090	1790	1330	60.0	4700	7820	7.20	0	0	21861
1967	0	0	0	27.0	369	68.0	4250	0	1980	1.60	15.0	17.0	6728
1968	7390	752	3260	1550	173	889	6820	.10	0	0	0	0	20834
1969	0	8.80	2700	3560	5140	332	177	466	87.0	.70	.60	1630	14102
1970	36.0	249	759	192	89.0	1.70	0	0	0	0	0	0	1329
1971	0	0	0	0	161	0	266	251	77.0	70.0	0	30.0	855
1972	0	0	0	65.0	272	29.0	5.00	0	0	95.0	32.0	0	498
1973	107	11.0	1.80	2140	339	325	3220	69.0	26.0	1690	.10	0	7929
1974	0	0	0	2320	162	47.0	.60	129	2520	12540	1140	87.0	18946
1975	1340	5040	130	354	10.0	1.50	270	194	0	0	0	0	7340
MAX	7390	5040	3260	6090	8660	1330	6820	4700	7820	12540	1140	1630	21861
MIN	0	0	0	0	10.0	0	0	0	0	0	0	0	498
MEAN	807	557	623	1595	1560	280	1370	584	1195	1359	108	147	10185
NO.	11	11	11	11	11	11	11	11	11	11	11	12	11
DISTR OF MEAN	7.9%	5.5%	6.1%	15.7%	15.3%	2.8%	13.4%	5.7%	11.7%	13.3%	1.1%	1.4%	100%



BRAZOS RIVER BASIN

08088500 Possum Kingdom Reservoir near Grafard, Texas

LOCATION: Lat 32°52'20", long 98°25'32", Palo Pinto County, at the dam on the Brazos River, 2.6 mi (4.2 km) upstream from Loving Creek, and 11.3 mi (18.3) southwest of Grafard.

DRAINAGE AREA: 23,596 mi<sup>2</sup> (61,113.6 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1941 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 0.10 ft (0.030 m) above mean sea level. Prior to Mar. 19, 1968, mercury U-tube in the powerhouse at present site and datum.

EXTREMES: Period of record (1941-75): Maximum contents, 743,700 ac-ft (917 hm<sup>3</sup>) Oct. 5, 1941 (gage height, 1,001.0 ft or 305.10 m); minimum contents, 273,300 ac-ft (337 hm<sup>3</sup>) Feb. 19 to Mar. 17, 1953 (gage height, 967.0 ft or 294.74 m).

REMARKS: The reservoir is formed by reinforced concrete dam, Ambursen-type, massive buttress with a flat-slab deck, a controlled spillway, two bulkhead sections, and an earthen-dike section. The capacity of the reservoir is 670,200 ac-ft (703.0 hm<sup>3</sup>). Total length of the dam is 2,740 ft (835 m). The dam was completed and storage began on Mar. 21, 1941. The spillway has nine roof-weir gates (modified bear-trap type) that are 73.66- by 13-foot (22.45- by 4-m) each and are designed to discharge about 100,000 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s) at a gage height of 1,000.0 ft (304.80 m). The outlet works consist of one controlled 64-inch diameter (1,372-millimeter) conduit. Water is used for power development, municipal, industrial, irrigation, and recreational purposes. Two generators located in the powerhouse at the dam can produce 22,500 kilowatts at a 1,000 ft (305 m) gage height. Eleven major reservoirs, with a combined capacity of 607,800 ac-ft (749 hm<sup>3</sup>), largely regulate the inflow. The dam is operated by the Brazos River Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1941	-	-	35860	232000	553000	545400	646800	730000	730000	685800	652100	659200
1942	645000	645000	645000	715800	712300	712300	694600	689300	719400	710500	701700	698100
1943	669800	609600	556500	531700	510400	525600	471500	416300	399500	390900	384800	382400
1944	378700	390900	414900	427300	466000	493700	501300	480000	484600	512600	499900	485800
1945	469200	455800	525400	588500	573600	565600	656400	615000	591900	665400	654600	634800
1946	593600	586800	581700	565600	567200	580000	549600	543400	674400	615000	604200	627600
1947	578400	552800	546500	532700	678000	633000	583400	532700	495600	502700	497000	508300
1948	483000	467900	463800	436600	447800	534200	593600	535800	502700	499900	491400	475900
1949	463800	459800	461200	465200	685200	661800	613200	551200	570400	562400	535800	519600
1950	512600	506900	485800	525400	683400	645600	698200	647400	665400	625800	600600	573600
1951	531200	511200	502700	478700	564000	663600	590200	531200	508300	483000	467900	453100
1952	434700	427000	421900	419400	428300	394700	345700	291900	285200	278800	279700	277800
1953	275100	273300	276900	275100	341500	311200	519600	559200	519600	713300	681600	663600
1954	654600	643800	624000	688900	717100	649200	590200	540400	521100	509700	522600	518200
1955	508300	508300	518200	522600	685200	688900	690700	667200	698200	688900	676200	669000
1956	647400	613200	562400	531200	515400	499900	414200	366800	357200	356200	364600	369000
1957	348800	552800	551200	739900	683400	665400	654600	624000	616800	643800	661800	624000
1958	598800	580000	604200	640200	656400	633000	622200	575200	607800	573600	552800	537300
1959	524000	519600	512600	504100	534200	645600	620400	613200	600600	600000	642000	643800
1960	651000	631200	627600	627600	604200	598800	654600	631200	600600	688900	651000	622200
1961	629400	638400	615000	576800	588500	678000	676200	606000	611400	588500	607800	595300
1962	572000	552800	534200	531200	525400	678000	690700	615000	690700	676200	679800	651000
1963	607800	590200	586800	661800	687000	674400	613200	567200	560800	564000	591900	597000
1964	595300	624000	618600	613200	615000	611400	551200	519600	538800	534200	565600	560800
1965	552800	546500	538800	556000	688900	687000	647400	643800	640200	687000	674400	661800
1966	647400	643800	624000	720900	698200	698200	654600	687000	696400	672600	670800	652800
1967	643800	640200	634800	660000	661800	688900	690700	656400	676200	669000	649200	643800
1968	694500	672600	690700	676000	674900	699200	689800	639300	621700	609100	605300	606000
1969	604400	610900	652100	659800	693900	648500	565600	516400	526100	477500	474600	503400
1970	498200	492500	552800	561800	675800	656900	610700	548000	506200	486500	462500	450700
1971	444600	443700	437300	432700	430100	493900	492400	711400	711000	702700	687600	701400
1972	682900	684300	680500	674200	696900	698000	691900	713300	691300	705700	690200	666300
1973	671200	674400	676200	675100	658200	652400	608300	602600	623800	498800	496700	459700
1974	450900	450800	444600	454500	458700	471600	437200	424200	552900	558800	541800	544600
1975	535500	533600	500800	513400	555100	541200	554800	541500	534100	525700	527500	528100
MAX	694500	684300	690700	739900	717100	712300	698200	730000	730000	713300	701700	701400
MIN	275100	273300	35860	232000	341500	311200	345700	291900	285200	278800	279700	277800
MEAN	552903	551018	534445	554740	597571	606431	596734	575231	580883	580671	572800	564743
NO.	34	34	35	35	35	35	35	35	35	35	35	35
DISTR												
OF MEAN	8.1%	8.0%	7.8%	8.1%	8.7%	8.8%	8.7%	8.4%	8.5%	8.5%	8.3%	8.2%

BRAZOS RIVER BASIN

08089000 Brazos River near Palo Pinto, Texas

LOCATION: Lat 32°51'45", long 98°18'08", Palo Pinto County, 100 ft (30 m) upstream from the bridge on Farm Road 4, 300 ft (91 m) downstream from Dark Valley Creek, and 6.5 mi (10.5 km) north of Palo Pinto.

DRAINAGE AREA: 23,811 mi<sup>2</sup> (61,870.5 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably contributing.

PERIOD OF RECORD: January 1924 to December 1975. Published as "near Mineral Wells" 1924-33.

GAGE: Water-stage recorder. Datum of gage is 831.23 ft (253.359 m) above mean sea level, datum of 1929. Prior to Nov. 15, 1933, nonrecording gage at site 19 mi (31 km) downstream at datum 38.19 ft (11.640 m) lower.

AVERAGE DISCHARGE: 52 years, 759,314 ac-ft/yr (936.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 95,600 ft<sup>3</sup>/s (2,710 m<sup>3</sup>/s) June 16, 1930, at site 19 mi (31 km) downstream near Mineral Wells (gage height, 30 ft or 9.1 m, present site and datum); no flow at times.

Maximum stage occurred in 1876, from data by the Corps of Engineers, and was several feet higher than the flood of June 16, 1930, (about 30 ft or 9.1 m), which was the highest since at least 1876.

REMARKS: Records good. Since 1941, the flow is largely regulated by Postum Kingdom Reservoir located 20 mi (32 km) upstream. The combined capacity of 12 major upstream reservoirs is 1,177,000 ac-ft (1,451.2 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	9220	4710	57100	57900	80100	50100	1060	113	122000	5400	275	65.9	388044
1925	461	308	6.30	139000	299000	18000	6780	51500	362000	68700	12700	1560	960015
1926	5070	1160	20400	115000	57200	233000	104000	229000	116000	343000	20500	124000	1368330
1927	18000	25200	43700	129000	10100	82900	66100	13100	12300	41300	1310	6.21	443631
1928	1600	828	738	3060	373000	190000	196000	156000	26400	781	13200	3070	964677
1929	11600	983	7010	15700	224000	64900	48100	1310	309000	46900	7140	3460	740123
1930	1060	1420	812	60700	604000	369000	20800	6820	39200	450000	18800	12500	1697612
1931	10600	59400	27700	13100	19900	16000	25500	2110	23.0	260000	66600	55700	558633
1932	74400	73000	16300	15300	219000	209000	426000	25500	669000	34800	10800	114000	1887100
1933	40000	10800	36000	24300	307000	19900	9100	83600	61900	13800	6310	4470	617180
1934	13540	8140	61850	55970	7660	1600	0	.20	13730	2610	75300	5850	246250
1935	1790	7460	22750	35820	476000	487200	224500	14730	192700	23840	17230	15690	1519710
1936	4000	2850	1590	4540	143900	41550	49680	160	602200	161800	15380	10170	1038020
1937	5760	3510	25130	6040	6500	53280	7780	108700	18220	49200	1810	3860	289790
1938	17450	126300	163200	66090	157800	138700	173600	28540	655	3.20	103	1.23	872764
1939	32600	2210	1360	6160	159100	211600	23290	41380	514	17560	3450	692	500316
1940	235	10150	832	16430	114300	288800	45640	240700	54250	2110	79920	49830	903197
1941	9970	76520	28500	3420	951100	627100	30610	24580	94120	807700	167400	32820	2853640
1942	35740	8430	7440	404600	136850	143000	17460	17000	132300	334000	36410	19050	1292230
1943	40530	63890	76260	75840	35070	48040	57710	42500	11110	5190	2570	3020	461730
1944	7740	12670	6550	5610	10700	12880	13610	26460	12610	20670	23110	25450	177460
1945	26330	26210	48690	32290	32590	39340	50550	38300	19040	16360	9750	16050	355500
1946	59890	18870	9330	16210	19560	22120	43020	51000	79160	164000	71080	75900	632140
1947	60640	27870	16530	20350	333300	86360	41200	38430	36890	18720	12680	25590	718560
1948	26780	26490	19610	29770	17380	35130	45190	56940	26980	11840	11660	13080	321050
1949	15650	16210	9160	7420	97620	190900	49010	67140	67250	68610	28730	17310	635010
1950	8590	11440	16570	15530	42520	69730	138600	109200	123400	47230	16550	23740	623100
1951	41740	23290	6320	21660	20240	45030	83670	70390	37040	18070	12040	10760	390250
1952	16090	4880	2960	7210	4360	36630	52660	44860	2890	1390	2030	3120	179080
1953	1580	766	1510	2170	6980	19870	38840	36250	44490	52250	53520	22600	280826
1954	14320	10130	14410	39470	333900	99290	60550	50800	10160	7140	2840	1810	644820
1955	13340	4030	3950	5310	42960	200900	50460	36760	441000	355400	22830	11410	1188350
1956	35900	35650	45830	27670	51430	20230	68750	35310	3150	4140	6600	16170	350830
1957	18380	19380	8860	528500	1857000	449900	37100	32620	21850	110300	101200	51980	3237070
1958	35090	25260	11820	27330	198300	46770	213400	46690	19520	40470	20960	12070	697680
1959	13350	4300	4190	4620	14280	63100	127900	13810	12390	178300	17460	18420	472120
1960	37150	49600	11630	16940	25040	10240	128300	25930	24470	183400	62740	49600	625240
1961	37430	23660	44120	42660	12590	172500	244200	87350	60160	32160	11470	23390	791710
1962	26930	18810	21310	8100	3570	130000	122600	84630	341000	44680	41130	64240	907000
1963	47820	22210	8830	18990	47520	219600	59020	39400	14140	3460	3750	4660	489400
1964	9800	8100	7500	4620	3460	22910	49370	31850	18050	4880	16180	4500	161220
1965	13120	16590	7190	18700	186600	24880	30430	25410	30160	20170	17200	14320	398770
1966	14710	8030	21130	96240	213100	9720	34390	18740	455200	40080	2630	18260	932230
1967	7550	4910	3600	25810	11460	59250	148300	36530	19900	9030	17610	7450	351400
1968	129900	59620	122300	132600	65450	55540	78180	50000	9720	3750	4860	1990	713910
1969	3260	3530	23550	44400	422800	64050	70800	44590	157700	88820	38180	26230	991910
1970	31440	25610	36550	27120	7950	25070	27260	44180	33150	14460	17050	7340	297200
1971	3470	687	1430	1570	1650	3260	2100	59670	149500	82490	27230	10460	343517
1972	20670	5540	2970	13300	32370	9700	5150	143500	129100	23090	162200	37580	585170
1973	34370	33520	76150	65730	32690	51740	56200	5620	2160	7450	2350	33280	395260

BRAZOS RIVER BASIN  
08089000 Brazos River near Palo Pinto, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	13550	1350	5930	5740	3610	9900	25680	21490	16030	164100	179700	15710	462790
1975	35210	99710	53640	6390	59220	118000	34880	45900	39990	7140	5340	4990	510610
MAX	129900	126300	163200	528500	1857000	627100	426000	240700	669000	807700	179700	125000	3237070
MIN	235	308	6.30	1570	1650	1600	0	.20	23.0	3.20	103	65.9	177460
MEAN	22989	21734	24373	49423	165264	110081	72409	50136	101844	86784	30382	23895	759314
NO.	52	52	52	52	52	52	52	52	52	52	52	52	52
DISTR OF MEAN	3.0%	2.9%	3.2%	6.5%	21.8%	14.5%	9.5%	6.6%	13.4%	11.4%	4.0%	3.1%	10%

BRAZOS RIVER BASIN

08090300 Lake Palo Pinto near Santo, Texas

LOCATION: Lat 32°38'53", Long 98°15'56", Palo Pinto County, near the left end of the dam on Palo Pinto Creek, 4.0 mi (6.4 km) upstream from the bridge on Farm Road 4, 4.4 mi (7.1 km) northwest of Santo, and 7.5 mi (12.1 km) upstream from Big Sunday Creek.

DRAINAGE AREA: 461 mi<sup>2</sup> (1,194.0 km<sup>2</sup>).

PERIOD OF RECORD: April 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1964-75): Maximum contents, 56,060 ac-ft (69.1 km<sup>3</sup>) Oct. 31, 1974 (elevation, 871.15 ft or 265.527 m); minimum contents since the first initial filling to the present spillway elevation, 22,150 ac-ft (27.3 km<sup>3</sup>) May 27, 1971 (elevation, 857.00 ft or 261.214 m).

REMARKS: The lake is formed by a rock-faced earthfill dam 1,300 ft (396 m) long, with a 550-foot (168-m) uncontrolled ogee-crested emergency spillway at the right end of the dam. The capacity of the lake is 44,090 ac-ft (54.4 km<sup>3</sup>). The dam was completed and storage began in April 1964. During the summer of 1965, the dam was raised 2 ft (0.6 m) and the spillway crest was raised 4 ft (1.2 m) and lengthened from 500 to 550 ft (150 to 168 m). The lake is the property of the Palo Pinto County Municipal Water District No. 1, and was built to impound water for municipal use, principally for the City of Mineral Wells. Water is released to the downstream channel through a 30-inch (762-millimeter) gated concrete pipe.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1964	-	-	-	2040	1950	1650	1370	2010	2740	10000	29200	26350
1965	30500	32190	31560	32800	34600	33600	31240	30400	29870	30500	30020	29960
1966	29680	30360	29620	44900	42890	43960	41150	40420	44230	43040	42320	41820
1967	41310	40720	40140	41130	42260	43170	43930	41100	42680	42060	41430	41130
1968	44610	44690	44550	44710	44420	44070	43850	42320	40340	38390	37980	37110
1969	36520	36570	45120	44550	43990	43490	44120	43490	43830	44310	43620	45150
1970	44090	45580	44630	45200	44470	42650	38420	35170	35290	33390	31420	29530
1971	27850	26510	24740	23680	23520	31450	32900	32700	34600	39720	37740	40520
1972	39200	38640	36450	37500	38120	38610	34850	32700	31500	31820	30700	30060
1973	30490	31450	31390	42710	42370	43780	46060	41980	42450	44200	43510	42260
1974	41740	41130	40400	39050	37950	35710	34800	34570	37930	55840	44280	43990
1975	43720	44260	43830	43620	45340	43750	42080	39080	37230	35450	34250	33500
MAX	44610	45580	45120	45200	45340	44070	46060	43490	44230	55840	44280	45150
MIN	27850	26510	24740	2040	1950	1650	1370	2010	2740	10000	29200	26350
MEAN	37246	37464	37494	36824	37657	37158	36231	34662	35224	37393	37207	36950
NO.	11	11	11	12	12	12	12	12	12	12	12	12
DISTR												
OF MEAN	8.4%	8.5%	8.5%	8.3%	8.5%	8.4%	8.2%	7.9%	8.0%	9.5%	8.4%	8.4%

BRAZOS RIVER BASIN

08090500 Palo Pinto Creek near Santo, Texas

LOCATION: Lat 32°37'51", long 98°10'50", Palo Pinto County, 0.5 mi (0.8 km) upstream from the Texas and Pacific Railway Co. bridge, 2.4 mi (3.9 km) downstream from Big Sunday Creek, 2.6 mi (4.2 km) northeast of Santo, 2.8 mi (4.5 km) upstream from Wusser Creek, and 7.9 mi (12.7 km) upstream from the mouth.

DRAINAGE AREA: 573 mi<sup>2</sup> (1,484.1 km<sup>2</sup>).

PERIOD OF RECORD: October 1924 to September 1925, May 1951 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 762.63 ft (232.450 m) above mean sea level, datum of 1928. Nov. 20, 1924 to Sept. 30, 1925, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 27 years (1924-25, 1951-75), 55,930 ac-ft/yr (69.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-25, 1951-75): Maximum discharge, 45,100 ft<sup>3</sup>/s (1,280 m<sup>3</sup>/s) May 26, 1957 (gage height, 31.05 ft or 9.464 m, from floodmark); no flow at times.

Maximum stages since at least 1880 occurred May 8, 1922 and May 26, 1957, from information by the Texas and Pacific Railway Co. and local residents.

REMARKS: Records good. The flow is largely regulated since April 1964 by Lake Palo Pinto (station 08090300) located 10 mi (16 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	-	-	0	0	0	-
1925	0	0	0	4360	14280	1300	1170	404	0	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	6090	8740	614	0	0	655	8.70	0	-
1952	0	0	0	311	12710	243	0	0	357	0	2450	301	16372
1953	63.0	0	113	2090	7860	0	7290	1770	223	21700	2690	384	44183
1954	7.10	0	0	3270	6710	.60	0	0	0	935	3020	98.0	14041
1955	144	974	243	1220	32760	7800	256	0	2200	2.00	0	0	45599
1956	0	1460	0	47.0	32670	290	0	456	44.0	101	1560	139.10	50538
1957	22.0	5190	632	41710	159600	5480	1070	16.0	35.0	21950	16490	1300	253695
1958	2620	534	8690	12280	33980	4300	34120	774	1900	82.0	80.0	98.0	99658
1959	71.0	48.0	27.0	78.0	360	5410	2230	5.20	448	90470	1650	8.61	101658
1960	13630	3710	699	1960	3450	149	1640	457	1.00	143	9.7	27.0	26276
1961	14140	5040	1380	196	71.0	22070	453	0	205	1290	370	60.0	45275
1962	.80	1.00	2.40	203	13.0	6110	44740	10540	15730	22080	1550	9.26	101896
1963	233	167	215	7490	15370	4690	11.0	347	1070	0	720	4.80	30318
1964	310	541	791	14.0	50.0	0	0	258	5330	52.0	4110	3.60	11460
1965	204	1000	16.0	2790	44510	2190	299	1600	1890	656	72.0	6.00	55235
1966	2.80	728	32.0	4980	25280	8680	1440	705	20670	81.0	38.0	36.0	61573
1967	17.0	15.0	33.0	141	647	554	16850	703	1650	32.0	570	11.0	21221
1968	48510	2740	43090	16750	19750	17010	3580	1830	710	902	930	5.53	156355
1969	843	691	13990	29660	22140	1430	1670	3510	364	2580	447	95.60	86905
1970	2520	6950	22700	3880	3520	682	1940	2460	1110	1180	1160	11.30	49252
1971	1220	780	676	580	4230	1160	1140	752	982	2790	901	2680	17891
1972	1010	279	1090	716	1060	475	2380	1150	402	292	216	2.53	9323
1973	237	63.0	212	864	1040	3520	9720	2580	344	11320	236	2.65	30401

BRAZOS RIVER BASIN

08090500 Palo Pinto Creek near Santo, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	275	157	140	363	805	404	773	594	941	10050	15930	528	30960
1975	1020	10390	1960	9490	3920	10610	1080	1470	367	576	311	458	41652
MAX	48510	10390	43090	41710	159600	22070	44740	10540	20070	90470	16490	13910	253695
MIN	0	0	0	14.0	13.0	0	0	0	0	0	0	0	9323
MEAN	3500	1638	3885	5818	17418	4358	5172	1246	2168	7305	2135	1287	55930
NO.	25	25	25	25	26	26	26	26	26	26	26	26	24
DISTR OF MEAN	6.3%	2.9%	6.9%	10.4%	31.1%	7.8%	9.2%	2.2%	3.9%	13.1%	3.8%	2.3%	100%

**BRAZOS RIVER BASIN**  
**08090800 Brazos River near Dennis, Texas**

LOCATION: Lat 32°36'56", long 97°55'32", Parker County, at the bridge on Farm Road 1543, 0.2 mi (0.3 km) south of Dennis, and 1.0 mi (1.6 km) upstream from Patrick Creek.

DRAINAGE AREA: 25,237 mi<sup>2</sup> (65,363.8 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: May 1968 to December 1975.

GAGE: Water stage recorder. Datum of gage is 697.67 ft (212.650 m) above mean sea level.

AVERAGE DISCHARGE: 8 years, 666,457 ac-ft/yr (821.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 57,100 ft<sup>3</sup>/s (1,620 m<sup>3</sup>/s) Oct. 31, 1974 (gage height, 24.0 ft or 7.32 m, from floodmarks); minimum, 3.1 ft<sup>3</sup>/s (0.088 m<sup>3</sup>/s) July 19, 20, 1971.

Maximum stage since at least 1930, 31.8 ft (9.69 m) in May 1957, from floodmarks, from information by the State Highway Department.

REMARKS: Records good. The flow is largely regulated by 14 major upstream reservoirs that have a combined capacity of 1,229,000 ac-ft (1,515.4 hm<sup>3</sup>). Many diversions above the station for irrigation, municipal water supply, and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	122000	92440	101100	58730	13980	4550	6610	4490	-
1969	4840	10410	89450	113600	516000	84010	80670	59510	152900	111400	50720	51310	1324820
1970	54680	52310	189000	50140	35380	33020	37070	59960	52090	30160	13130	11250	618210
1971	5990	1880	1640	1610	6740	3670	2490	27680	158600	125400	49720	31440	416860
1972	29030	4490	2000	14830	37600	12280	5730	121700	129400	25720	164200	45810	592790
1973	37520	41110	70760	82390	42770	77460	86410	16380	3610	34520	5360	36390	534680
1974	17570	1900	6480	10310	5350	11920	18400	26730	21640	202900	297500	29530	650430
1975	47220	130900	59000	37100	38770	175400	28250	50080	37400	7040	4830	7100	623090
MAX	54680	130900	189000	113600	516000	175400	101100	121700	158600	202900	297500	51310	1324820
MIN	4840	1880	1640	1610	5350	3670	2490	16380	3610	4550	4830	4490	416860
MEAN	28121	34714	59761	44283	100576	61275	45015	52596	71228	67714	74009	27165	666457
NC.	7	7	7	7	8	8	8	8	8	8	8	8	7
DISTR													
OF MEAN	4.2%	5.2%	9.0%	6.6%	15.1%	9.2%	6.8%	7.9%	10.7%	10.2%	11.1%	4.1%	100%

BRAZOS RIVER BASIN

08090900 Lake Granbury near Granbury, Texas

LOCATION: Lat 32°22'27", long 97°41'20", Hood County, at the right end of the spillway of DeCordova Bend Dam on the Brazos River, 2.6 mi (4.2 km) upstream from Fall Creek, and 7.5 mi (12.1 km) southeast of Granbury.

DRAINAGE AREA: 25,679 mi<sup>2</sup> (66,508.6 hm<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1968-75): Maximum contents, 153,500 ac-ft (189.3 hm<sup>3</sup>) Dec. 30, 1969, June 18, Oct. 8, 1970 (elevation, 693.00 ft or 211.226 m); minimum contents since the first filling of the lake in October 1969, 99,150 ac-ft (122.2 hm<sup>3</sup>) July 22, 23, 1971 (elevation, 685.53 ft or 208.950 m).

REMARKS: The lake is formed by an Ambursen-type concrete and earthfill dam 2,256 ft (688 m) long, including a 932-foot (284-m) concrete spillway. The capacity of the lake is 153,500 ac-ft (189.3 hm<sup>3</sup>). The dam was completed on Aug. 30, 1969 and deliberate impoundment began on Sept. 15, 1969. The spillway consists of sixteen 36- by 35-foot (11.0- by 10.7-m) tainter gates and two 7- by 8-foot (2.1- by 2.4-m) sluice gates. The outflow from the sluice gates discharges into a bay where it is then controlled by two 4- by 4.5-foot (1.2- by 1.4-m) sluice gates with inverts at 625.8 ft (190.74 m). The lake was built by the Brazos River Authority for the conservation of water for municipal, industrial, and irrigation uses.

END OF MONTH CONTENTS IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1968	-	-	-	-	-	-	-	-	-	270	290	220
1969	220	270	16060	16550	17410	16060	16130	13340	80080	146700	150100	146700
1970	148400	147500	148400	150900	146000	152600	147500	149200	150900	151100	150100	144700
1971	146400	145800	142200	139300	132200	118500	105700	117700	135600	146200	145600	143300
1972	150800	150200	144400	145300	147300	146600	142900	147200	149300	146700	149400	146700
1973	148800	147800	144600	145000	145700	147900	149600	143900	141000	141600	141500	140500
1974	140000	139300	143000	148600	140500	129800	121200	146800	149100	145600	144100	149400
1975	150600	149500	146900	148800	138200	145800	147700	148500	147300	146300	146500	147800
MAX	150800	150200	148400	150900	147300	152600	149600	149200	150900	151100	150100	149400
MIN	220	270	16060	16550	17410	16060	16130	13340	80080	270	290	220
MEAN	126460	125767	126509	127779	123901	122466	118676	123806	136183	128059	128449	127415
NO. OF MEAN	7	7	7	7	7	7	7	7	7	8	8	8
DISTR OF MEAN	8.3%	8.3%	8.3%	8.4%	8.2%	8.1%	7.8%	8.2%	9.0%	8.5%	8.5%	8.4%



BRAZOS RIVER BASIN

08091000 Brazos River near Glen Rose, Texas

LOCATION: Lat 32°18'18", long 97°39'48", Somervell County, at the bridge on U.S. Highway 67, 600 ft (180 m) downstream from Georges Creek, 4.1 mi (6.6 km) upstream from the Paluxy River, and 6 mi (10 km) northeast of Glen Rose.

DRAINAGE AREA: 25,818 mi<sup>2</sup> (66,868.6 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1923 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 567.82 ft (173.072 m) above mean sea level, datum of 1929. Prior to May 7, 1931, nonrecording gage at site 2.6 mi (4.0 km) downstream at same datum. May 7, 1931 to Sept. 30, 1957, water-stage recorder at site 2.4 mi (3.9 km) downstream at same datum, used as a supplementary gage Oct. 1, 1957 to Apr. 1, 1959. Apr. 27, 1959 to Sept. 30, 1957, water-stage recorder, present gage, used as a supplementary gage.

AVERAGE DISCHARGE: 53 years, 1,039,613 ac-ft/yr (1,281.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 97,600 ft<sup>3</sup>/s (2,760 m<sup>3</sup>/s) May 18, 1935 [gage height, 23.68 ft or 7.218 m, site then in use, from floodmarks]; maximum gage height, 33.89 ft (10.330 m), present site, May 27, 1957; no flow at times prior to the construction of Possum Kingdom Reservoir dam (1941).

Maximum stage since at least 1876, that of May 27, 1957.

REMARKS: Records good. The flow is largely regulated by 15 major reservoirs with a combined capacity of 1,383,000 ac-ft (1,705.2 hm<sup>3</sup>). There are many diversions above the station for irrigation, municipal water supply, and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	367000	293000	217000	-
1924	22400	12800	134000	86000	154000	86300	1660	1110	122000	12400	3040	1440	637150
1925	1680	1220	368	127000	412000	16800	7780	46300	357000	119000	26500	4130	1119778
1926	19200	2680	24100	168000	113000	314000	137000	239000	218000	354000	40100	143000	1772080
1927	24900	32800	71300	175000	30000	102000	72400	24700	19000	87900	3360	10200	653560
1928	3710	11800	3440	33600	338000	231000	197000	201000	52500	1790	14400	41600	1129840
1929	36600	16400	20800	44300	236000	114000	44100	4700	327000	63300	13200	7070	927470
1930	2530	2340	2550	558	627000	359000	38300	6890	69000	477000	31500	238000	1854668
1931	15900	104000	45200	23200	50100	64900	18900	5200	209	294000	76200	70100	767909
1932	174000	144000	44000	15800	236000	224000	481000	32500	660000	42400	16500	108000	2178200
1933	58700	15300	67000	24000	315000	63100	10800	61500	84500	20800	7500	7690	735890
1934	25000	10400	70700	73200	13500	3680	0	0	12400	4980	57120	14310	285290
1935	30560	13910	21560	42040	813600	509100	259000	33400	204600	24980	32930	25720	2011400
1936	6990	4560	3080	2430	184600	69040	53110	783	754000	272600	41080	22780	1415053
1937	13870	8140	43200	8740	11170	95270	8680	86440	28300	60240	6370	29130	399550
1938	112700	165300	210400	127600	198800	146800	198300	56650	8300	863	1140	1530	1228383
1939	36360	7400	2730	13990	174700	226500	43040	36780	4680	641	18020	2200	567041
1940	1070	6790	3270	29380	120100	330700	69990	279700	72980	6270	191400	140400	1252050
1941	31810	193700	69340	41880	973900	776300	63460	110900	92970	768900	225200	36780	3385140
1942	41690	13080	10580	799900	392200	275700	24970	22550	173600	446000	63640	31400	2295310
1943	40870	70430	103600	89340	51520	66870	53650	43080	18470	7590	3130	5950	554700
1944	13600	41370	35490	13400	135300	23140	24220	36690	42430	20990	29030	29540	445200
1945	44360	102400	181000	148700	59880	48820	146000	40070	23980	74890	13080	20800	903980
1946	76070	69910	24310	26770	62470	44270	37400	49860	111000	182200	170100	155000	1009360
1947	76240	40640	57400	40820	286200	98130	42140	39470	39950	28520	16700	58340	824550
1948	44690	74490	40510	26330	49550	44320	48280	55870	35560	11710	12650	12990	456950
1949	15360	41070	55120	25080	368000	269100	61270	55910	69700	102400	37840	20920	1121770
1950	19000	35940	21660	52870	75640	82550	215200	134800	163400	65820	21270	25030	913380
1951	37050	30100	11050	11330	41300	86080	79700	66400	41770	20410	15270	13400	453860
1952	16870	7580	3980	14870	54760	21990	50930	47420	3860	456	12010	5820	240546
1953	3760	928	3270	6940	36100	8660	44270	33210	33840	93140	64080	22140	350338
1954	14680	9380	19500	43860	346000	127300	52680	57500	7330	10010	6980	2740	697960
1955	11020	7040	5980	6960	124100	211200	53810	43080	287400	528300	26100	12350	1317340
1956	27890	36120	49120	33100	123300	23440	67830	37200	3500	9620	8940	43010	463070
1957	19290	43840	18310	405300	2754900	548700	66270	27570	32320	174000	167500	65810	4323810
1958	53720	38540	57300	53310	427000	60250	274500	61560	28970	34280	23970	18360	1131760
1959	13220	8680	5160	8070	9690	58950	134100	22570	8420	501900	27280	29340	827380
1960	88360	72470	26570	24900	34660	13230	124500	34170	24680	153400	76620	41600	715160
1961	72150	46650	70730	44330	15650	183700	225900	92530	49610	62270	19790	30690	914000
1962	25980	19220	22130	19650	6050	145100	250000	146200	432200	102200	54900	73310	1296940
1963	52950	22510	17350	60060	74120	224900	67310	39240	17180	7890	6880	6090	596480
1964	7720	19750	14540	12840	6600	17190	33590	36280	52460	10460	65390	8860	285680
1965	22840	43860	14680	27000	351900	34980	30630	32350	47280	18990	18330	19750	662590
1966	12520	17240	25380	77810	452200	60920	31040	25140	594700	70680	6110	18950	1392690
1967	11050	7380	5230	26360	14420	95280	159000	48650	27510	15120	17880	13390	441270
1968	195500	91050	260400	176800	208100	98650	109700	63210	16040	6440	8270	6490	1240650
1969	5280	12430	75580	134100	605000	102600	72850	64420	69230	33140	48090	60270	1282990
1970	49550	52780	179600	56330	43960	15200	24470	36540	43850	17430	15960	14330	550000
1971	3060	2190	2510	3900	11850	13420	18990	2950	132600	149500	53190	78200	472360
1972	26410	9680	8550	12990	36280	8620	3150	117500	176000	32130	171500	48140	650950

BRAZOS RIVER BASIN

08091000 Brazos River near Glen Rose, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	42270	54160	68830	143500	61440	103500	102100	31390	5730	43660	8030	38350	722960
1974	18930	2800	2110	595	8330	20770	27240	6050	23580	201000	369500	26340	707645
1975	48690	181200	69550	69630	53600	233700	26570	61570	49400	5590	4650	4960	809530
MAX	195500	193700	260400	799900	2754900	776300	481000	279700	754000	768900	369500	238000	4323810
MIN	1070	928	366	558	6050	3680	0	0	209	456	1140	1440	240546
MEAN	35973	40009	46633	71817	238145	136533	86323	56549	114911	117361	52136	41263	1039613
NO.	52	52	52	52	52	52	52	52	52	53	53	52	52
LISTR OF FEAN	3.5%	3.8%	4.5%	6.9%	22.9%	13.3%	8.3%	5.4%	11.1%	11.3%	5.0%	4.0%	100%

BRAZOS RIVER BASIN

08091500 Paluxy River at Glen Rose, Texas

LOCATION: Lat 32°13'53", long 97°46'37", Somervell County, at the remaining pier of a dismantled highway bridge, 500 ft (152 m) upstream from the bridge on U.S. Highway 67, 1.0 mi (1.6 km) upstream from Cross Branch, 1.2 mi (1.9 km) southwest of Glen Rose, and 5.1 mi (8.2 km) upstream from the mouth.

DRAINAGE AREA: 410 mi<sup>2</sup> (1,062 km<sup>2</sup>).

PERIOD OF RECORD: October 1923 to September 1925, June 1947 to December 1975. Prior to October 1965, published as "Paluxy Creek at Glen Rose".

GAGE: Water-stage recorder. Datum of gage is 609.66 ft (185.824 m) above mean sea level, datum of 1929, Oct. 27, 1923 to Sept. 30, 1925, nonrecording gage at a bridge 1.8 mi (2.9 km) downstream at datum 13.62 ft (4.151 m) lower.

AVERAGE DISCHARGE: 32 years (1923-25, 1947-75), 49,595 ac-ft/yr (61.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-25, 1947-75): Maximum discharge, 50,000 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 25.4 ft or 7.74 m); no flow at times.

Maximum stage since at least 1877, 27.2 ft (8.29 m) Apr. 17, 1908, present site and datum (discharge, 59,000 ft<sup>3</sup>/s or 1,670 m<sup>3</sup>/s).

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	1646	2170	-	-	-	1150	360	543	552	212	2610	540	-
1925	613	515	539	634	2240	487	640	318	361	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	2770	375	342	1500	1710	690	3460	-
1948	2070	11730	4910	1770	6260	3690	3170	355	1240	295	472	548	36630
1949	1060	4480	6160	9380	73240	7310	1540	1100	561	5140	783	996	111750
1950	2520	5290	1820	4460	3950	1650	3880	565	4520	645	632	619	30551
1951	536	728	643	697	1750	5390	353	600	160	490	209	347	14778
1952	467	437	512	3050	28950	935	259	630	170	907	1420	572	37212
1953	486	349	576	1660	4170	140	833	1590	314	1450	620	453	12641
1954	454	340	458	4240	2300	2820	212	120	480	1270	867	413	13499
1955	325	529	741	1720	37170	2300	638	195	19930	1050	254	360	65212
1956	408	734	359	859	22750	249	1100	1270	152	475	343	2370	29980
1957	379	419	977	38550	63310	9810	1550	332	218	5570	8490	3350	132955
1958	5100	3610	6500	7070	15540	2510	5830	327	2070	739	705	762	51163
1959	666	648	502	2960	501	2980	1550	1210	530	44520	3120	3650	62837
1960	14950	5290	3620	5020	7370	2360	1910	572	256	608	423	864	43243
1961	12880	13480	5760	3500	2570	6630	4890	619	967	18940	3780	3730	77946
1962	2300	1640	1620	2040	1010	1660	1190	866	401	21560	2260	2450	39497
1963	1580	1160	1080	2120	4910	1760	190	107	450	300	274	492	13748
1964	1320	1180	2130	6850	1770	409	282	335	4750	494	9020	827	31367
1965	2550	10290	2340	1670	28350	3060	469	109	355	1720	754	796	52463
1966	635	1430	1100	9150	9770	5820	826	1910	1850	663	717	761	34852
1967	635	585	719	1190	2200	677	5310	254	3690	860	899	1130	17549
1968	18490	5970	29940	8990	52900	6200	8190	6490	1520	932	1350	1340	142312
1969	1190	1240	4100	31360	36070	6230	1270	2220	406	6020	1560	3630	95696
1970	3950	8840	25820	14380	7290	4520	1020	478	2030	1450	1030	926	71734
1971	663	789	742	779	4520	867	5360	2680	594	11550	1940	20010	50694
1972	4330	2450	1700	2380	3300	992	4200	332	630	907	1020	847	23288

BRAZOS RIVER BASIN

08091500 Palusy River at Glen Rose, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	1700	2460	3130	43410	9380	18200	6270	1540	675	4100	1450	1140	93655
1974	1120	982	1010	746	559	890	140	257	1170	7300	6140	2190	21023
1975	1880	10520	3670	11060	3520	2070	596	174	633	113	217	492	35145
MAX	18490	13480	29940	43410	73240	18200	8190	6490	19530	44520	9020	20010	142312
MIN	325	340	359	634	501	880	140	600	480	97	209	347	12641
MEAN	2910	3343	3916	7696	15091	3540	2019	889	1705	4665	1618	2003	49595
NO.	30	30	29	29	29	31	31	31	31	30	30	30	28
DISTR OF MEAN	5.9%	6.7%	7.9%	15.5%	30.4%	7.1%	4.1%	1.8%	3.4%	9.4%	3.7%	4.0%	100%

BRAZOS RIVER BASIN  
08091750 Squaw Creek near Glen Rose, Texas

LOCATION: Lat 32° 16' 12", long 97° 43' 56", Somervell County, at the bridge on State Highway 144, 2.1 mi (3.4 km) upstream from the mouth, and 2.8 mi (4.5 km) northeast of Glen Rose.

DRAINAGE AREA: 70.3 mi<sup>2</sup> (182.1 km<sup>2</sup>).

PERIOD OF RECORD: October 1973 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 509.02 ft (173.437 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1973-75): Maximum discharge, 9,030 ft<sup>3</sup>/s (256 m<sup>3</sup>/s) Apr. 8, 1975 (gage height, 11.90 ft or 3.627 m); minimum, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 28, 29, 1974.

Maximum stage since 1934, about 20.5 ft (6.25 m) in May 1957, from information by the Texas Highway Department (discharge not determined).

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	-	-	-	-	-	-	-	-	-	619	116	111	-
1974	73.0	40.0	42.0	24.0	93.0	51.0	22.0	11.0	105	2190	1190	413	4254
1975	333	3000	486	4220	505	472	168	65.0	311	80.0	30.0	51.0	9731
MAX	333	3000	486	4220	505	472	168	65.0	311	2190	1190	413	9731
MIN	73.0	40.0	42.0	24.0	93.0	51.0	22.0	11.0	105	80.0	30.0	51.0	4254
MEAN	203	1520	265	2122	299	262	95.0	38.0	206	903	448	192	6615
NO.	2	2	2	2	2	2	2	2	2	3	3	3	2
ELSTR													
CF PFAN	3.13	23.02	4.02	32.12	4.52	4.02	1.42	.62	3.12	14.62	6.62	2.92	1002

BRAZOS RIVER BASIN

08091900 Lake Pat Cleburne near Cleburne, Texas

LOCATION: Lat 32°17'20", long 97°24'54", Johnson County, at the side of the walkway from the dam to the outlet structure, near the left end of Cleburne Dam on the Nolan River, 2.2 mi (3.5 km) upstream from Buffalo Creek, and 4.3 mi (6.9 km) south of Cleburne.

DRAINAGE AREA: 100 mi<sup>2</sup> (259 km<sup>2</sup>).

PERIOD OF RECORD: April 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1965-75): Maximum contents, 37,200 ac-ft (45.9 hm<sup>3</sup>) May 13, 1968 (elevation, 740.10 ft or 225.582 m), minimum contents, 18,890 ac-ft (23.3 hm<sup>3</sup>) Dec. 11-14, 1967 (elevation, 728.70 ft or 222.108 m).

REMARKS: The lake is formed by a rock-faced earthfill dam 5,050 ft (1,540 m) long, including a 150-foot wide (46-m) uncontrolled concrete service spillway at the left end of the dam. The capacity of the lake is 25,560 ac-ft (31.5 hm<sup>3</sup>). An emergency spillway, 500 ft (150 m) wide, is cut in natural ground on the right bank about 400 ft (120 m) from the right end of the dam. Storage began on Aug. 4, 1964. The lake is the property of the City of Cleburne and was built to impound water for municipal use.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1965	-	-	-	20690	25890	25260	24010	23040	22180	21670	21480	21490
1966	21190	21960	22990	34450	25780	25760	24520	23980	23860	23540	22970	22560
1967	22250	21860	21610	21380	20780	21300	21020	19860	19750	19280	19030	19030
1968	23000	24300	26100	25920	25930	25710	24660	23870	23100	22460	22380	21960
1969	21740	21740	23350	25670	25840	25110	23640	22700	21930	21560	21220	21180
1970	21100	23840	26100	27060	27240	25360	24120	22970	22680	22650	22040	21630
1971	21230	20960	20270	21680	21490	20500	19770	19830	19310	26010	25930	26140
1972	26030	25900	25590	25980	25680	24720	23580	22520	21920	22600	23040	23090
1973	25950	26140	25900	26310	25850	26000	26450	24820	24390	26030	25920	25740
1974	26030	25930	25780	25310	25280	24760	23350	26600	26140	28220	26070	26160
1975	26880	26100	26030	26090	26560	25790	25500	24350	23510	22680	22220	22010
MAX	26880	26140	26100	34450	27240	26000	26450	26600	26140	28220	26070	26180
MIN	21100	20960	20270	20690	20780	20500	19770	19830	19310	19280	19030	19030
MEAN	23540	23873	24372	25504	25120	24570	23711	23140	22615	23336	22936	22821
NO.	10	10	10	11	11	11	11	11	11	11	11	11
DISTR OF MEAN	8.2%	8.4%	6.5%	8.9%	8.8%	8.6%	8.3%	8.1%	7.9%	8.2%	8.0%	8.0%

**BRAZOS RIVER BASIN**  
**08092000 Nolan River at Blum, Texas**

**LOCATION:** Lat 32°09'02", long 97°24'10", Hill County, 60 ft (18 m) upstream from the bridge on Farm Road 933, 0.6 mi (1.0 km) northwest of Blum, 2.8 mi (4.5 km) downstream from Mustang Creek, 3.0 mi (4.8 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, and 3.2 mi (5.1 km) upstream from Rock Creek.

**DRAINAGE AREA:** 282 mi<sup>2</sup> (730.4 km<sup>2</sup>).

**PERIOD OF RECORD:** August 1924 to September 1925, December 1947 to December 1975.

**GAGE:** Water-stage recorder. Datum of gage is 551.48 ft (168.091 m) above mean sea level, datum of 1929. July 29, 1924 to Sept. 30, 1925, and Nov. 14, 1947 to May 28, 1949, nonrecording gage at the railway bridge (now abandoned) 0.5 mi (0.8 km) upstream at datum 5.00 ft (1.524 m) higher. May 29 to July 7, 1940, nonrecording gage at present site and datum then in use, 5.00 ft (1.524 m) higher than present datum.

**AVERAGE DISCHARGE:** 31 years (1924-25, 1947-75), 59,051 ac-ft/yr (72.8 hm<sup>3</sup>/yr).

**EXTREMES:** Period of record (1924-25, 1947-75). Maximum discharge, 62,200 ft<sup>3</sup>/s (1,760 m<sup>3</sup>/s) May 7, 1969 (gage height 31.23 ft or 9.519 m); no flow at times.

Maximum stage since at least 1887, 35.0 ft (10.67 m) May 8, 1922, present site and datum, from information by a local resident.

**REMARKS:** Records good. The flow is partly regulated since August 1964 by Lake Pat Cleburne (station 08091900) located 13 mi (21 km) upstream.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	0	47.6	149	577	368	-
1925	176	120	54.9	1120	9500	1040	80.0	0	166	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	161.60	-
1948	3300	13240	9500	2050	12380	7990	11650	164	631	103	144	418	61970
1949	3040	16210	9070	7990	56840	6250	748	133	69.0	1370	150	275	106145
1950	1070	26870	2740	8330	4070	2250	690	94.0	1520	64.0	67.0	84.0	49849
1951	137	164	109	77.0	381	25320	127	33.0	189	98.0	91.0	90.0	26816
1952	83.0	323	251	8290	9960	313	115	0	5.80	12.0	11460	4140	34953
1953	560	308	1140	4320	15210	57.0	472	1230	186	565	150	167	24385
1954	177	125	119	1030	636	19.0	90.0	11.0	9.5	981	416	78.0	3692
1955	127	127	84.0	599	8510	2360	9.9	1820	5190	1620	56.0	119	20627
1956	183	510	101	146	3890	52.0	0	1300	2040	485	725	220	9652
1957	140	238	1790	62870	27010	6120	461	131	233	10450	16670	6550	132663
1958	6100	4150	7980	18390	30470	1740	2480	398	7030	1600	733	962	84033
1959	772	3510	1050	6150	2620	13630	3680	261	1610	36290	4200	12430	68423
1960	22120	6820	3570	2010	2180	740	324	293	103	197	158	3320	41835
1961	18370	19610	11860	2530	1570	19360	2910	490	441	7730	3210	3460	91561
1962	1790	1240	1110	1560	518	32720	923	450	2360	7940	1570	1310	53491
1963	1070	625	684	2340	706	195	108	19.0	55.0	235	157	196	6390
1964	832	320	7190	14310	1050	204	24.0	73.0	1280	138	3630	373	29424
1965	2490	15830	1510	972	34600	1180	226	143	151	191	275	391	55961
1966	334	1160	795	34840	21410	2250	221	844	650	364	276	322	63666
1967	311	276	355	1160	927	2730	1420	61.0	184	336	325	542	8627
1968	7920	1750	18040	3500	65480	6250	572	221	157	214	343	334	104281
1969	261	420	2640	3360	107400	1640	288	168	191	327	191	395	117301
1970	383	3400	13330	19260	5450	2710	220	284	1440	3060	472	377	50446
1971	375	378	314	5280	816	204	456	437	296	41150	1830	36150	67666
1972	10510	2500	1090	1100	1870	126	1800	135	484	4280	1670	803	26368
1973	5910	6650	6660	59220	5360	51880	3270	850	1040	5060	1940	1480	151320

BRAZOS RIVER BASIN  
08092000 Nolan River at Blum, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	6000	2350	1400	617	1710	2900	70.0	9470	13000	14540	14260	4000	70917
1975	3610	32450	4330	20410	9310	12750	1630	208	240	179	227	348	65692
MAX	22120	32450	18040	62870	107400	51880	11650	9470	13600	41150	16670	36150	151320
MIN	83.0	120	54.9	77.0	381	19.0	0	0	5.80	12.0	56.0	78.0	3692
MEAN	3522	5560	3766	10132	15305	7137	1209	659	1400	4886	2275	3196	59051
NO.	29	29	29	29	29	29	29	30	30	29	29	30	28
DISTR OF MEAN	6.0%	9.4%	6.4%	17.2%	25.9%	12.1%	2.0%	1.1%	2.4%	8.3%	3.9%	5.4%	100%



BRAZOS RIVER BASIN

08092500 Whitney Lake near Whitney, Texas

LOCATION: Lat 31°51'55", long 97°22'18". Bosque County, on State Highway 22, in the intake structure of Whitney Dam on the Brazos River, 2.4 mi (3.9 km) upstream from Coon Creek, 3.5 mi (5.6 km) upstream from Iron Creek, and 7.4 mi (11.9 km) southwest of Whitney.

DRAINAGE AREA: 27,189 mi<sup>2</sup> (70,419.5 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1951 to December 1975. Prior to October 1970, published as "Whitney Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1951-75): Maximum contents, 1,080,000 ac-ft (2,441.3 hm<sup>3</sup>) May 29, 1957 (elevation, 570.25 ft or 173.812 m); minimum contents since the power pool elevation was first reached in April 1954, 250,200 ac-ft (308.5 hm<sup>3</sup>) Nov. 1, 1956 (elevation, 509.52 ft or 155.302 m).

REMARKS: The lake is formed by a concrete gravity and rolled earthfill dam 17,695 ft (5,393 m) long, including the spillway. The dam was completed in April 1951 and deliberate impoundment began on Dec. 10, 1951. The capacity of the lake is 627,100 ac-ft (773.2 hm<sup>3</sup>). The concrete spillway is 680 ft (210 m) long and includes 17 tainter gates 38.0 by 40.0 ft (11.6 by 12.2 m) each. The outlet works are comprised of 16 gate-operated conduits that are 5.0 by 9.0 ft (1.5 by 2.7 m) each. The space between elevations 522.0 and 571.0 ft (159.11 and 174.04 m) is reserved for flood-control storage. At a maximum design elevation of 573.0 ft (174.65 m), the spillway is designed to discharge 684,000 ft<sup>3</sup>/s (19,400 m<sup>3</sup>/s). The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1951	-	-	-	-	-	-	-	-	-	-	-	66 20
1952	11870	11386	8763	50733	129183	119488	113222	83632	64302	59770	95130	114200
1953	121400	122400	131400	148500	214900	191700	202100	211200	233600	304200	353200	367300
1954	373500	373300	377600	388100	396100	392800	364700	358600	342400	340400	345100	342000
1955	349300	356500	356500	363200	404700	388800	374100	373500	454800	381500	376100	360500
1956	356800	363500	375500	376100	382500	362600	320600	304800	272900	250300	258400	301000
1957	285200	296200	281800	734600	1928000	514700	387800	173500	368800	387800	395300	387500
1958	361800	385600	386900	412900	387800	385900	385000	384800	386200	385300	376100	364300
1959	344400	330100	304000	291200	278400	335000	388400	368800	346100	386600	387000	384200
1960	389400	387700	380400	369400	387000	371800	387000	380400	365000	393700	381100	385000
1961	389600	386700	384200	386600	374100	388000	385000	380700	386200	386600	382300	385300
1962	388300	376900	367900	361100	332200	388000	488100	384300	390400	386100	381700	384200
1963	387200	378100	358600	376900	386200	385400	361300	354200	332300	301800	293400	286000
1964	288500	299800	323900	354000	330000	305600	286400	278700	321000	305900	375000	351100
1965	351300	380900	370800	367400	375800	376800	364100	357700	369400	355200	332400	324300
1966	301200	293600	265300	419900	375000	379100	356200	357200	376800	362600	331300	313100
1967	308400	306100	302500	294500	276900	303900	369400	337900	348200	353000	330600	308100
1968	428200	400900	416900	424100	421000	411400	399700	418700	389900	361000	339800	313200
1969	295400	303900	359500	430500	609200	462900	410400	431400	421400	427100	430200	469700
1970	439800	465900	475600	467900	436800	407200	378200	343400	364700	375200	379400	385500
1971	354800	357800	355200	366600	388000	379600	380100	378200	433200	544600	459300	482300
1972	429100	424900	414700	406700	409900	373500	300800	336000	437700	453800	543600	531600
1973	558800	618500	627800	657900	643800	626600	629500	586000	572700	611300	600900	604300
1974	604600	590500	536500	502600	494500	473400	437300	426100	465900	636200	627800	607800
1975	663400	625900	624300	626900	657600	615900	595000	582800	597500	571900	545400	505600
MAX	604600	625900	627800	734600	1928000	626600	629500	586000	597500	636200	627800	607800
MIN	11870	11386	8763	50733	129183	119488	113222	83632	64302	59770	95130	6620
MEAN	364261	368212	366940	399931	459149	389170	377684	366356	376725	388411	388355	370589
NO.	24	24	24	24	24	24	24	24	24	24	24	25
DISTR												
OF MEAN	7.9%	8.0%	7.9%	8.7%	9.9%	8.4%	8.2%	7.9%	8.2%	8.4%	8.4%	8.0%

BRAZOS RIVER BASIN

08093100 Brazos River near Aquilla, Texas

LOCATION: Lat 31°48'44", long 97°17'51", Bosque-Hill County line, at the bridge on Farm Road 2114, 2.0 mi (3.2 km) downstream from Tener Creek, 4.9 mi (7.9 km) downstream from Iron Creek, 5.4 mi (8.7 km) southwest of Aquilla, Hill County, and 9.0 mi (14.5 km) downstream from Whitney Dam.

DRAINAGE AREA: 27,244 mi<sup>2</sup> (70,562.0 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1938 to December 1975. Prior to October 1974, published as "Brazos River near Whitney".

GAGE: Water-stage recorder. Datum of gage is 407.29 ft (124.142 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1948, nonrecording gage at site 13.9 mi (22.4 km) upstream at datum 27.77 ft (8.464 m) higher. Oct. 1, 1948 to Feb. 12, 1975, at site 5.6 mi (9.0 km) upstream at datum 13.10 ft (3.993 m) higher.

AVERAGE DISCHARGE: 38 years, 1,162,246 ac-ft/yr (1,433.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1938-75): Maximum discharge, 71,800 ft<sup>3</sup>/s (2,030 m<sup>3</sup>/s) May 18, 1949 (gage height, 31.03 ft or 9.458 m); minimum daily, 0.4 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) May 9, 1953. Maximum discharge since construction of Whitney Dam in 1951, 58,200 ft<sup>3</sup>/s (1,650 m<sup>3</sup>/s) May 28, 1957 (gage height, 27.34 ft or 8.333 m), site and datum then in use.

Maximum stage since at least 1853, 45 ft (13.7 m) May 9, 1922, at site and datum in use prior to Feb. 12, 1975, from information by local residents.

REMARKS: Records good. The flow is regulated by 18 major upstream reservoirs whose combined capacity is 3,413,000 ac-ft (4,208.2 hm<sup>3</sup>), of which 1,372,000 ac-ft (1,691.7 hm<sup>3</sup>) is for flood control.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	1540	1860	2520	-
1939	41630	15960	5640	17890	212000	283400	46880	38340	8030	361	18950	3670	692751
1940	2510	6730	4620	40870	130500	350900	100500	263700	67400	8040	266100	197400	1439670
1941	58740	282200	131000	105500	1019000	768000	109100	127800	97840	742300	254800	36040	3732320
1942	50420	16890	13440	853000	436800	365400	35160	30500	170800	466400	70130	40870	2549810
1943	44810	76500	112400	101900	68530	73420	55340	42460	24850	7660	3990	7950	619810
1944	19180	51440	67360	25850	281500	41170	25550	26880	55050	26650	35440	43080	699150
1945	76250	190400	291200	349300	86990	83950	182500	49470	26790	98860	18090	24970	1478790
1946	94830	119600	68090	49880	104600	80110	36560	53150	119300	194800	202000	190700	1314820
1947	107300	54000	74030	72090	341900	111800	45740	46200	40740	28450	20650	82370	1025270
1948	51970	110500	66570	31060	73080	67530	70240	52990	43380	14890	13990	16630	612830
1949	19230	54970	71780	53700	444900	250200	70010	56550	66630	95500	43030	22690	1249190
1950	25980	88330	29720	73690	81390	89570	210500	160100	179700	71470	20340	26790	1057280
1951	38490	32180	13540	12700	50070	151500	79620	68850	42650	20930	16390	13030	539950
1952	11190	8930	7010	7780	4010	21140	46430	72980	23160	2870	2480	2270	210250
1953	610	1200	1640	745	2100	24840	30560	26350	6350	3360	7240	5060	110055
1954	4470	3470	8850	36710	325700	122700	71520	53080	18450	20230	3780	2140	671100
1955	1950	2620	3670	4660	141300	232500	59720	41240	207400	587400	24430	23680	1330770
1956	35400	36640	33700	36020	143400	36790	100600	46200	36230	39300	2460	1960	548700
1957	37610	36700	39690	87580	1824000	2121000	215800	44460	47500	173600	201300	96090	4925330
1958	90560	61850	90540	92570	498900	68430	219000	54340	33530	32970	33980	33980	1310650
1959	32580	33100	37620	36540	38930	36590	95720	43730	37180	571500	39540	78510	1061540
1960	172200	110100	56630	58870	75440	33160	101800	34160	34510	122600	94810	74450	968730
1961	219400	162600	108100	52170	34370	218200	252500	103300	44560	109800	43220	49340	1397560
1962	32600	33870	31610	33880	31670	118200	106800	238500	427600	152800	57210	71530	1336670
1963	51580	33950	34390	35310	72100	212500	85580	38210	34530	37770	18120	13800	667840
1964	13040	13480	14640	17350	34910	41260	44870	43460	22550	14950	21210	35660	317380
1965	36410	93470	16360	35150	487200	39880	33990	34180	30660	35410	50920	35080	948710
1966	38590	33000	38730	51220	521700	52260	49030	28930	496800	87940	36510	36990	1465700
1967	15300	9310	9720	37890	40090	58280	81240	76000	23930	13520	47640	46660	459580
1968	114600	144800	335300	203100	471300	139000	135400	43530	44720	35680	36070	35460	1738960
1969	25670	8060	29640	112500	565900	256800	125800	39090	77960	33690	46240	18010	1359360
1970	92960	50880	272900	124300	95160	55860	50850	68190	33330	25590	9430	10470	869920
1971	34910	1420	1860	5960	14860	20260	30660	4010	57600	163100	163500	219400	717740
1972	159900	29200	27630	26870	37390	41690	87500	56680	50380	25610	60310	57120	660280
1973	37140	20060	94280	265000	99970	257000	112400	77940	27780	39910	28820	38410	1098710
1974	30900	24660	63610	35550	20580	38710	56750	41960	33610	34100	428500	67050	876180
1975	79240	250800	85820	151200	66650	278700	44670	58750	23420	21600	15510	39120	1115480
MAX	219400	282200	335300	853000	1824000	2121000	252500	263700	490600	742300	428500	219400	4925330
MIN	610	1200	1640	745	2100	20260	25550	4010	6350	361	1860	1960	110055
MEAN	54058	62267	65252	90172	243219	195749	89375	64494	75992	109557	64718	47393	1162246
NO.	37	37	37	37	37	37	37	37	37	38	38	38	37
GISTR													
OF MEAN	4.7%	5.4%	5.6%	7.8%	20.9%	16.8%	7.7%	5.5%	6.5%	9.4%	5.6%	4.1%	100%

BRAZOS RIVER BASIN

06093400 Cobb Creek near Abbott, Texas

LOCATION: Lat 31°55'11", long 97°05'57", Hill County, at the bridge on the service road on the downstream side of the bridge on Interstate Highway 35, 1.5 mi (2.4 km) downstream from the Missouri, Kansas, and Texas Railroad Co. bridge, 2.8 mi (4.5 km) northwest of Abbott, and 9 mi (14 km) upstream from the mouth.

DRAINAGE AREA: 12.4 mi<sup>2</sup> (32.1 km<sup>2</sup>).

PERIOD OF RECORD: December 1966 to December 1975.

GAGE: Water-stage recorder with a low-water concrete control since Aug. 1, 1975. Datum of gage is 575.00 ft (175.260 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 5,438 ac-ft/yr (6.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 2,720 ft<sup>3</sup>/s (77.0 m<sup>3</sup>/s) May 9, 1968 (gage height, 10.50 ft or 3.200 m); no flow at times each year.

Maximum stage since at least 1932, 11.1 ft (3.38 m), date unknown, from information by the State Highway Department.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	-	-	-	-	-	0	-
1967	.50	.80	28.0	297	205	252	4.80	0	38.0	3140	1290	892	6148
1968	1710	682	1280	770	4390	623	115	0	6.90	1.20	55.0	1.40	9773
1969	76.0	224	739	269	1180	64.0	1.40	.70	1.90	7.20	.10	6.70	2570
1970	24.0	187	1370	150	35.0	14.0	0	0	1.40	597	61.0	35.0	2474
1971	28.0	220	65.0	401	914	79.0	36.0	30.0	4.30	395	357	1530	4059
1972	779	274	41.0	21.0	160	0	157	0	1.00	127	81.0	30.0	1671
1973	542	480	1370	3220	678	2850	141	0	10.0	1270	327	136	11024
1974	118	143	95.0	55.0	27.0	185	0	197	730	1860	1300	401	5111
1975	483	641	93.0	1350	3300	299	26.0	0	32.0	119	77.0	5.70	6426
MAX	1710	682	1370	3220	4390	2850	157	197	730	3140	1300	1530	11024
MIN	.50	.80	28.0	21.0	27.0	0	0	0	1.00	1.20	.10	0	1671
MEAN	418	317	565	726	1210	485	53.5	25.3	91.7	835	394	318	5438
NO.	9	9	9	9	9	9	9	9	9	9	9	10	9
DISTR OF MEAN	7.7%	5.8%	10.4%	13.3%	22.2%	8.9%	1.0%	.5%	1.7%	15.4%	7.2%	5.8%	100%

BRAZOS RIVER BASIN

08093500 Aquilla Creek near Aquilla, Texas

LOCATION: Lat 31°50'40", long 97°12'04", Hill County, 50 ft (15 m) upstream from the bridge on Farm Road 1304, 1.0 mi (1.6 km) southeast of Aquilla, and 1.2 mi (1.9 km) downstream from Cobb Creek.

DRAINAGE AREA: 308 mi<sup>2</sup> (797.7 km<sup>2</sup>).

PERIOD OF RECORD: January 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 451.48 ft (137.611 m) above mean sea level.

AVERAGE DISCHARGE: 37 years, 86,616 ac-ft/yr (106.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 40,200 ft<sup>3</sup>/s (1,140 m<sup>3</sup>/s) May 10, 1968 (gage height, 30.32 ft or 9.242 m); no flow at times.

Flood of Aug. 31, 1887 reached a stage of 34 ft (10.4 m) from information by a local resident.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	425	9540	930	2830	12220	28050	221	7.10	0	4.80	9.5	47.0	54284
1940	59.0	168	49.0	20600	1150	16890	13890	21.0	0	0	35330	26340	114497
1941	8320	36100	9810	39960	25030	25350	15370	2880	128	5240	826	1700	170714
1942	1136	866	1310	89000	20220	14390	1770	3350	21590	11010	4070	4360	173066
1943	2050	1220	2800	9890	22460	1450	96.0	.80	1860	712	53.0	325	42917
1944	2620	10800	5640	10160	83070	5340	166	23.0	51.0	238	450	9540	128098
1945	18330	35200	44130	50000	2780	15930	36820	360	127	282	1510	235	205704
1946	4560	12280	17510	11150	23870	6660	110	19.0	388	108	1970	6770	85395
1947	12380	2980	6680	19790	6610	3010	46.0	48.0	198	13.0	81.0	14.20	53256
1948	782	1300	1320	1960	17590	1840	8700	1.20	0	0	0	77.0	31570
1949	3470	3090	2690	8150	9870	4900	539	336	0	0	0	6.70	33052
1950	86.0	9390	724	9700	2550	167	1040	.60	2710	2.20	29.0	30.0	26429
1951	39.0	124	58.0	1940	861	29210	88.0	0	1690	79.0	24.0	19.0	34132
1952	19.0	796	401	22680	19920	392	70.0	0	0	0	5480	22990	72748
1953	1490	540	4790	9200	24260	98.0	238	475	1910	599	405	196	44201
1954	153	69.0	56.0	508	6050	1.80	3.20	0	9.9	4930	1440	2.80	13224
1955	19.0	1330	1550	837	8570	3410	380	866	0	87.0	0	5.00	17054
1956	100	112	9.9	967	12260	0	0	0	0	979	1500	2.50	16178
1957	116	708	550	72200	38920	6800	265	0	0	17260	14330	21.20	153269
1958	3130	2540	11420	19930	64940	352	2860	1310	2650	45.0	111	143	109431
1959	131	4080	715	5950	18940	26140	1710	89.0	277	22160	830	9160	90202
1960	20230	4050	2000	5720	11980	5810	261	178	21.0	933	78.0	29070	80331
1961	54800	36500	8100	2380	1440	26090	21110	302	847	2010	20990	10160	184729
1962	1940	2200	1180	2540	3720	28650	495	103	3560	13910	372	1050	59720
1963	745	400	356	1100	1500	33.0	4.40	0	0	0	0	0	4138
1964	231	173	1430	445	68.0	31.0	0	0	4900	33.0	12990	168	20469
1965	3270	14910	1210	714	73040	1090	46.0	24.0	247	147	1750	385	96833
1966	283	1170	861	71560	23460	704	99.0	2000	576	29.0	41.0	72.0	100855
1967	88.0	78.0	225	6620	3730	3790	1760	.90	704	25110	4570	5440	52116
1968	23890	7180	24770	12620	124100	11830	651	81.0	189	1290	2470	4040	213111
1969	404	3320	12680	3980	75880	543	8.00	31.0	92.0	202	66.0	922	98128
1970	300	9930	21980	4110	1830	260	59.0	6.30	269	15070	573	293	54680
1971	203	1080	186	186	12810	448	1440	696	1580	45940	2180	30370	97119
1972	9290	2710	2480	1340	6880	189	7900	176	760	5410	2110	422	39667
1973	11130	5720	19190	52530	8530	52640	15170	395	9750	31290	3470	1530	211345
1974	2340	2410	986	496	2510	6100	104	5070	14360	23950	19770	4800	82896
1975	5890	27870	7450	35750	58200	3210	336	102	111	85.0	40.0	145	139189
MAX	54800	36500	44130	89000	124100	52640	36820	5070	21590	45940	35330	30370	213111
MIN	19.0	69.0	9.9	186	68.0	0	0	0	0	0	0	0	4138
MEAN	5255	6836	5898	16473	22482	8968	3563	512	1934	6193	3782	4720	86616
NO.	37	37	37	37	37	37	37	37	37	37	37	37	37
DISTR OF MEAN	6.1%	7.9%	6.8%	19.0%	26.0%	10.4%	4.1%	.6%	2.2%	7.2%	4.4%	5.4%	100%

BRAZOS RIVER BASIN

08093700 North Bosque River at Stephenville, Texas

LOCATION: Lat 32°12'56", long 98°11'55", Erath County, at the bridge on U.S. Highway 67 at Stephenville, 0.5 mi (0.8 km) southeast of the Erath County Courthouse, and 1.5 mi (2.4 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge.

DRAINAGE AREA: 95.9 mi<sup>2</sup> (248.4 km<sup>2</sup>).

PERIOD OF RECORD: March 1958 to December 1975.

GAGE: Water-stage recorder with rock and concrete control. Datum of gage is 1,223.60 ft (372.953 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 18 years, 10,807 ac-ft/yr (13.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 12,100 ft<sup>3</sup>/s (343 m<sup>3</sup>/s) Oct. 4, 1960 (gage height, 19.90 ft or 6.066 m, from floodmark); no flow at times each year.

Maximum stage since at least 1854, 23.5 ft (7.16 m) May 19, 1955, from floodmarks, discharge, 49,000 ft<sup>3</sup>/s (1,390 m<sup>3</sup>/s), by contracted-opening measurement of peak flow.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	645	937	1610	16.0	8330	12.0	48.0	1.80	15.0	40.0	-
1959	17.0	2.40	3.80	457	12.0	1220	175	113	306	13050	1000	288	16644
1960	2080	231	162	1760	1370	171	701	26.0	9.1	0	0	28.0	6538
1961	2460	1360	130	267	859	6630	1440	62.0	723	2310	505	402	17148
1962	105	80.0	52.0	239	29.0	1140	461	40.0	2890	3320	321	45.0	8722
1963	25.0	20.0	30.0	1470	3900	2380	37.0	17.0	24.0	3.60	393	0	8300
1964	992	794	40.0	380	1.40	0	0	584	4330	378	8270	118	15887
1965	198	2650	184	140	8910	96.0	17.0	0	9.1	53.0	26.0	9.8	12293
1966	8.30	47.0	11.0	3410	967	708	0	1050	317	53.0	.04	.06	6571
1967	.80	3.20	18.0	23.0	369	39.0	569	7.70	466	35.0	35.0	33.0	1599
1968	6550	201	8360	849	7830	218	433	1380	5.20	1.10	45.0	12.0	25884
1969	8.80	34.0	749	3420	2610	186	891	265	1.30	286	4.80	547	9003
1970	102	758	3550	2030	1180	2220	1.50	0	195	209	5.60	9.1	10260
1971	9.6	14.0	5.30	20.0	3080	727	632	611	243	3760	156	3210	12468
1972	135	114	96.0	280	695	2.00	1290	8.00	0	29.0	9.7	11.0	2670
1973	60.0	57.0	345	11970	452	1250	1140	126	4.30	1730	70.0	18.0	17222
1974	35.0	43.0	43.0	11.0	11.0	3.00	0	68.0	233	1890	4630	35.0	7002
1975	38.0	1250	88.0	1630	120	138	6.00	8.40	.40	0	.40	5.40	3285
MAX	6550	2650	8360	11970	8910	6630	8330	1380	4330	13050	8270	3210	25884
MIN	.80	2.40	3.80	11.0	1.40	0	0	0	0	0	0	0	1599
MEAN	754	451	617	1627	1889	952	896	243	545	1506	860	267	10807
NO.	17	17	18	18	18	18	18	18	18	18	18	18	17
DISTR OF MEAN	7.0%	4.2%	7.6%	15.1%	17.5%	8.8%	8.3%	2.3%	5.0%	13.9%	8.0%	2.5%	100%

BRAZOS RIVER BASIN

08094000 Green Creek Subwatershed No. 1 near Dublin, Texas

LOCATION: Lat 32°09'57", long 98°20'28", Erath County, near the center of the dam on the main headwater channel of Green Creek, 0.9 mi (1.4 km) downstream from a county road bridge, 1.3 mi (2.1 km) east of the bridge on Farm Road 219, and 5.5 mi (8.8 km) north of Dublin.

DRAINAGE AREA: 4.19 mi<sup>2</sup> (10.85 km<sup>2</sup>).

PERIOD OF RECORD: May 1955 to December 1975.

GAGE: Water-stage recorder and concrete drop inlet. Datum of gage is 1,408.00 ft (429.158 m) above mean sea level.

AVERAGE INFLOW: 21 years, 570 ac-ft/yr (0.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1955-75): Maximum inflow, 11,500 ft<sup>3</sup>/s (326 m<sup>3</sup>/s), average for 5-minute interval, Apr. 30, 1956, computed from the outflow and change in the pool contents and adjusted for rainfall on the pool surface during times of peak inflow; no inflow for many days each year.

REMARKS: Records fair. The pool is formed by a rolled earthfill dam 3,000 ft (914 m) long. The dam was completed on Apr. 25, 1955 and storage began shortly thereafter. The outlet structure consists of a 30-inch (762-millimeter) square concrete drop inlet that is connected to a 14-inch (356-millimeter) concrete outlet pipe. The gage height at the top of the drop inlet is 11.0 ft (3.35 m). The spillway is a 250-foot wide (76-m) cut in natural ground at the right end of the dam. The gage height at the crest of the spillway is 21.8 ft (6.64 m). There is a cleanout gate valve at the end of an 8-inch (203-millimeter) pipe which connects to the lower end of the drop-inlet box at a gage height of 3.76 ft (1.146 m). The pool capacity at the crest of the spillway is 1,097 ac-ft (1.35 hm<sup>3</sup>); at the top of the drop inlet, 223 ac-ft (0.28 hm<sup>3</sup>); and at the controlled outlet pipe, 48.0 ac-ft (0.059 hm<sup>3</sup>). The dam was built by the Soil Conservation Service for flood control.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	-	-	-	-	783	23.6	2.00	2.90	32.8	21.3	4.20	.20	-
1956	21.1	9.4	0	1020	95.6	1.10	.10	.30	0	.70	3.30	63.3	1215
1957	5.10	6.00	10.5	358	6.19	0	20.5	.10	1.70	55.7	107	3.30	1187
1958	5.20	.50	20.7	53.2	59.9	.90	1.15	.30	9.6	.10	3.60	.20	269
1959	0	1.20	.10	12.1	.10	191	14.4	.60	17.1	501	52.9	17.7	808
1960	71.7	13.6	10.0	.10	55.0	21.0	19.9	.20	0	.20	.30	6.30	198
1961	53.6	44.9	1.10	.90	5.80	3.30	65.4	.40	3.50	229	2.60	2.10	413
1962	.20	.80	.40	7.30	.30	5.40	7.20	10.3	148	79.8	5.30	.20	265
1963	0	0	.10	96.1	69.7	8.30	1.40	.70	8.20	16.3	1.39	3.10	343
1964	25.0	54.4	6.50	87.1	2.50	8.80	1.00	77.1	505	15.2	69.8	7.90	860
1965	9.00	65.6	12.3	8.70	245	.90	8.30	3.40	.30	10.3	2.10	1.20	367
1966	2.60	1.70	.90	87.5	25.2	79.5	3.10	6.00	43.7	5.80	.70	2.00	259
1967	.50	2.80	5.90	5.20	2.10	1.90	2.90	.80	45.6	2.50	3.80	4.10	76.1
1968	36.9	17.3	290	35.1	910	7.80	22.0	1.30	2.00	.30	6.90	4.20	1166
1969	1.60	4.10	22.7	82.2	96.5	2.30	187	26.4	.90	25.4	2.70	73.4	525
1970	11.3	74.3	233	37.7	89.8	4.30	.10	.20	3.40	2.80	0	0	457
1971	0	0	0	1.30	250	19.3	0	27.0	3.10	225	19.8	303	848
1972	3.50	2.20	1.40	7.70	62.8	.60	2.00	1.50	26.5	17.7	2.20	3.00	131
1973	14.9	11.2	36.8	526	133	23.8	92.6	0	4.40	229	2.30	1.60	1076
1974	.60	2.70	1.70	1.80	2.30	.40	0	7.40	83.8	124	29.7	4.00	258
1975	4.50	44.9	2.70	90.9	11.6	8.80	5.20	1.90	1.80	.80	.90	2.00	176
MAX	369	74.3	290	1020	783	191	187	77.1	505	501	139	303	1215
MIN	0	0	0	.10	.10	0	0	0	0	.10	0	0	78.1
MEAN	30.0	17.9	32.8	126	144	19.6	27.1	8.04	44.8	74.4	21.9	23.9	570
NO.	20	20	20	20	21	21	21	21	21	21	21	21	20
DISTR OF MEAN	5.3%	3.1%	5.8%	22.1%	25.2%	3.4%	4.8%	1.4%	7.9%	13.0%	3.8%	4.2%	100%

BRAZOS RIVER BASIN  
08094500 Green Creek near Alexander, Texas

LOCATION: Lat 32°04'26", long 98°13'46", Erath County, at the bridge on State Highway 6, 0.5 mi (0.8 km) upstream from Cottonwood Creek, and 1.7 mi (2.7 km) northwest of Alexander.

DRAINAGE AREA: 46.1 mi<sup>2</sup> (119 km<sup>2</sup>).

PERIOD OF RECORD: June 1958 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 1,172.00 ft (357.23 m) above mean sea level, datum of 1929. Prior to May 27, 1958, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE: 16 years, 4,384 ac-ft/yr (5.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-73): Maximum discharge, 23,900 ft<sup>3</sup>/s (677 m<sup>3</sup>/s) Apr. 30, 1956, gage height, 23.95 ft (7.30 m); no flow at times each year.

Maximum discharge since at least 1910, 55,800 ft<sup>3</sup>/s (1,580 m<sup>3</sup>/s) May 23, 1952, gage height, 28.0 ft (8.5 m).

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	-	65.0	88.0	0	0	0	0	0	-
1959	0	0	0	0	0	136	14.0	0	8.10	4500	189	316	5163
1960	1180	336	161	80.0	494	62.0	.20	0	0	0	0	0	2313
1961	711	694	140	48.0	27.0	99.0	175	0	0	1210	47.0	20.0	3171
1962	10.0	3.40	0	55.0	5.60	0	0	0	677	814	15.0	11.0	1591
1963	24.0	6.40	0	6.90	81.0	293	0	0	88.0	0	651	0	1150
1964	147	274	40.0	1610	33.0	0	0	0	4260	542	386	51.0	7343
1965	80.0	1230	103	106	5130	121	20.0	6.90	0	0	0	0	6797
1966	0	57.0	0	289	221	639	.10	292	119	0	0	0	1617
1967	0	0	0	0	0	0	0	0	19.0	0	0	0	19.0
1968	3820	260	3390	322	2290	113	146	264	.40	0	0	0	10605
1969	0	0	85.0	1030	2240	50.0	4620	1150	.10	439	95.0	653	10362
1970	364	979	2850	590	848	165	2.20	.04	96.0	1.10	4.20	3.50	5903
1971	2.90	2.00	2.20	.30	401	320	0	48.0	34.0	742	3.00	1060	2615
1972	151	46.0	19.0	492	264	8.00	11.0	41.0	0	50.0	13.0	.60	1096
1973	37.0	68.0	212	4570	1030	141	727	28.0	0	-	-	-	-
MAX	3820	1230	3390	4570	5130	639	4620	1150	4260	4500	651	1060	10605
MIN	0	0	0	0	0	0	0	0	0	0	0	0	19.0
MEAN	435	264	467	613	871	138	363	114	331	553	93.5	141	4384
NO.	15	15	15	15	15	16	16	16	16	15	15	15	14
DISTR OF MEAN	9.9%	6.0%	10.6%	14.0%	19.9%	3.2%	8.3%	2.6%	7.6%	12.6%	2.1%	3.2%	100%

BRAZOS RIVER BASIN

08094800 North Bosque River at Hico, Texas

LOCATION: Lat 31°58'39", long 98°02'05", Hamilton County, at the bridge on U.S. Highway 281 near the south boundary of Hico, 2.5 mi (4.0 km) downstream from Gilmore Creek, and 5.0 mi (8.0 km) upstream from Honey Creek.

DRAINAGE AREA: 359 mi<sup>2</sup> (929.8 km<sup>2</sup>).

PERIOD OF RECORD: January 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 982.46 ft (299.454 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 32,114 ac-ft/yr (39.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 16,800 ft<sup>3</sup>/s (476 m<sup>3</sup>/s) May 16, 1965 (gage height, 21.83 ft or 6.654 m); no flow at times in 1962-65, 1967-68, 1971, and 1974.

Maximum stage since at least 1880, 27.6 ft (8.41 m) May 23, 1952, from floodmarks, discharge, 87,800 ft<sup>3</sup>/s (2,490 m<sup>3</sup>/s).

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	493	403	310	680	51.0	606	163	4.40	3680	7410	398	194	14392
1963	140	99.0	112	1260	3990	2650	26.0	0	27.0	0	949	45.0	9298
1964	1650	1360	1060	8250	309	67.0	4.00	380	10410	1890	8080	375	33835
1965	866	7570	964	789	34390	1580	151	269	16.0	380	360	154	47489
1966	162	870	116	5030	6210	3720	462	1550	2870	395	345	229	21959
1967	245	197	225	387	479	66.0	590	0	523	9.8	113	92.0	2927
1968	20000	2970	21110	6810	31630	2830	2510	2290	315	285	276	242	91268
1969	265	270	1090	6750	12990	1050	4990	1630	124	4330	728	3120	37337
1970	2440	6260	18620	9810	10720	7300	625	226	2580	919	409	450	60359
1971	325	337	207	210	4210	1330	654	620	207	9470	850	10770	29190
1972	3380	1080	722	2340	2480	202	2200	223	270	443	243	244	13827
1973	525	1580	2570	30080	4430	3760	3120	610	203	6050	479	377	53784
1974	579	292	198	207	219	34.0	0	24.0	2230	4300	3900	1000	12983
1975	952	6240	1710	8430	1810	931	305	117	95.0	69.0	99.0	192	20950
MAX	20000	7570	21110	30080	34390	7300	4990	2290	10410	9470	8080	10770	91268
MIN	140	99.0	112	207	51.0	34.0	0	0	16.0	0	99.0	45.0	2927
MEAN	2287	2109	3501	5788	8137	1866	1129	567	1682	2568	1231	1249	32114
NO.	14	14	14	14	14	14	14	14	14	14	14	14	14
DISTR													
OF MEAN	7.1%	6.6%	10.9%	18.0%	25.3%	5.8%	3.5%	1.8%	5.2%	8.0%	3.8%	3.9%	100%



BRAZOS RIVER BASIN

08095000 North Bosque River near Clifton, Texas

LOCATION: Lat 31°47'09", long 97°34'04", Bosque County, at the bridge on Farm Road 219, 0.5 mi (0.8 km) northeast of Clifton, and 2.5 mi (4.0 km) downstream from Meridian Creek.

DRAINAGE AREA: 968 mi<sup>2</sup> (2,507.1 km<sup>2</sup>).

PERIOD OF RECORD: October 1923 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 605.43 ft (184.535 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1955, and from Apr. 23, 1957 to Mar. 26, 1958, nonrecording gage at site 1.1 mi (1.8 km) upstream at datum 17.02 ft (5.188 m) higher; Oct. 1, 1955 to Apr. 22, 1957, and Mar. 27, 1958 to Sept. 30, 1959, water-stage recorder (destroyed by floods of Apr. 27, 1957 and Oct. 4, 1959); and Oct. 1, 1959 to Jan. 1, 1961, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 53 years, 143,638 ac-ft/yr (177.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 92,800 ft<sup>3</sup>/s (2,630 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 31.88 ft or 10.631 m); no flow at times.

Maximum stage since at least 1854, that of Oct. 4, 1959.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	1230	2380	20150	-
1924	7470	6710	43050	26730	9410	1940	569	179	272	172	1110	381	97993
1925	408	352	222	75.0	11650	776	952	3860	2210	11050	5930	158	37643
1926	2160	364	4910	28040	15180	9400	6350	415	1820	865	499	564	70567
1927	238	543	1320	5110	18030	15670	1000	759	689	9310	96.0	1780	54545
1928	399	4140	567	15120	13030	35880	2020	7620	411	14.0	85.0	2400	81686
1929	848	2230	2440	27290	23820	2370	94.0	0	37560	61.0	168	243	97124
1930	239	308	396	3360	33640	199	18.0	947	1070	41320	2110	16700	100307
1931	19280	32260	22400	9640	18800	5250	4330	3070	5870	6690	537	2060	130207
1932	48400	82390	28880	16190	41650	9340	10610	726	17180	543	532	4140	260581
1933	3700	1900	22800	5400	48440	2600	306	5920	6590	2260	2910	7440	110266
1934	6150	7720	17800	39200	8480	601	87.0	269	780	8.50	1600	137	82833
1935	1170	6480	1160	3900	117200	26350	6710	976	22060	36130	8130	5700	235966
1936	3140	2120	1610	4800	54450	3780	1000	146	88320	31480	10270	27490	228606
1937	14040	7930	19610	6500	8630	30380	8390	869	6140	12800	1100	47700	164089
1938	88690	56890	25760	27940	39080	11400	11540	1920	803	560	550	704	265837
1939	5310	6900	1280	1680	20340	21170	1320	269	16.0	38.0	246	237	58806
1940	156	168	97.0	6580	1510	24620	976	1360	276	31.0	50310	43620	129704
1941	16020	82930	41470	79180	105000	67100	14270	51320	4310	12650	4110	4700	503060
1942	3100	2320	2020	100900	69500	90970	7030	6090	66490	63030	14970	13240	439660
1943	7940	4840	7840	8460	16140	2780	1080	154	4680	318	110	776	55118
1944	6500	17930	11950	13490	71780	7530	1400	819	1570	2590	1130	5420	142109
1945	20810	40230	72530	116900	23150	30430	61160	3410	2230	14580	3400	2580	391410
1946	6340	20960	35320	14060	38180	12680	1500	754	5980	1330	16060	7190	160354
1947	10240	6040	18820	11450	8670	1370	335	279	439	319	431	4930	63323
1948	2380	37750	7740	2010	21810	12470	7770	766	3190	230	236	1150	97502
1949	1250	5340	5850	21810	39510	5120	1080	177	254	3600	335	1230	85556
1950	1740	15060	2270	5400	2870	2370	11100	268	22830	849	508	607	65872
1951	524	810	553	1530	4370	8140	119	26.0	19.0	0	53.0	55.0	16199
1952	60.0	67.0	56.0	15720	41290	1830	105	.60	0	0	5450	1750	66329
1953	1110	508	2220	2080	15460	203	844	574	873	2650	229	162	26933
1954	180	174	134	2480	1130	3430	0	0	0	2360	1590	58.0	11536
1955	31.0	239	279	2210	34160	6100	360	.20	8480	1080	1.60	3.20	52944
1956	17.0	483	41.0	1000	51700	278	0	0	0	0	609	1500	55628
1957	16.0	151	920	222500	161400	13830	2900	335	163	19900	26910	10370	459395
1958	17010	16860	28570	29290	83490	4800	15280	810	850	732	630	803	199125
1959	747	1120	488	1260	948	12830	9270	634	2110	88420	7020	12610	137457
1960	46260	19340	11630	12120	11460	2700	2600	934	332	1570	625	11040	120611
1961	80150	69490	19570	8780	5550	22460	17630	2050	2780	47710	9740	11040	296950
1962	6240	4270	4200	6520	4470	5160	1670	334	8050	13450	1700	2120	58184
1963	1360	859	593	1680	3580	4820	340	19.0	8.50	4.20	12420	263	25947
1964	6080	5000	14610	25300	2610	1440	27.0	131	19920	3850	15140	1810	95918
1965	6080	43390	7050	3740	135900	8900	1440	1050	472	2640	1760	1240	213662
1966	1080	2630	1530	45930	31080	13340	911	4330	12080	1680	1060	1250	116901
1967	1070	732	1110	6630	1230	2580	2850	271	1180	201	306	845	19005
1968	71150	16940	67910	23460	148300	19470	49100	5330	1710	1250	1900	2180	408700
1969	1480	1780	4360	23350	70860	4300	4910	2670	665	19650	4240	8630	146895
1970	10380	30200	73650	28240	19470	10890	1740	453	11270	3750	3480	1450	192973
1971	1370	1230	1180	1660	5040	1770	1800	2430	617	74150	5470	61240	157957
1972	21430	7990	4130	4560	5680	1250	3070	1440	1910	3390	1760	1390	58000

BRAZOS RIVER BASIN  
08095000 North Bosque River near Clifton, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	6890	12110	14900	62030	13030	12060	6990	1800	971	8930	1930	1510	143151
1974	3050	2070	1540	901	907	185	48.0	110	11930	11240	15480	6180	53641
1975	5950	40110	10990	38900	11620	4400	4630	2400	2080	575	465	706	122826
MAX	86690	82930	73650	222500	161400	90970	61160	51320	88320	88420	50310	61240	503060
MIN	16.0	67.0	41.0	75.0	907	185	0	0	0	0	1.60	3.20	11536
MEAN	10920	14065	12929	22559	33552	11571	5993	2336	7548	10627	4676	6862	143638
NO.	52	52	52	52	52	52	52	52	52	53	53	53	52
DISTR OF MEAN	7.6%	9.8%	9.0%	15.7%	23.4%	8.1%	4.2%	1.6%	5.3%	7.4%	3.3%	4.8%	100%

BRAZOS RIVER BASIN

08095200 North Bosque River at Valley Mills, Texas

LOCATION: Lat 31°40'10", long 97°28'09", Bosque County, at the bridge on Farm Road 55, 0.8 mi (1.3 km) downstream from Thompson Hollow, and 0.8 mi (1.3 km) north of the intersection of State Highway 6 and Farm Road 55 in Valley Mills.

DRAINAGE AREA: 1,146 mi<sup>2</sup> (2,968.1 km<sup>2</sup>).

PERIOD OF RECORD: August 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 524.55 ft (159.883 m) above mean sea level, datum of 1929. Prior to Dec. 29, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 17 years, 187,056 ac-ft/yr (231.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 107,000 ft<sup>3</sup>/s (3,030 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 40.22 ft or 12.259 m, from floodmark); no flow Oct. 5-12, 1965.

Maximum stage since at least 1888, 43 ft (13.1 m) in May 1908.

REMARKS: Records good. Since 1968, at least 10 percent of the drainage area is regulated by reservoirs. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	1120	4720	174300	9810	16610	-
1960	57660	26980	17190	13270	12060	3700	5810	1490	768	4290	1260	20340	164818
1961	112700	86760	29860	12280	7810	25720	29690	5260	5040	74780	18710	19700	428310
1962	10790	7080	6410	7510	7270	6950	2700	759	13430	12200	2220	2750	80069
1963	1870	1200	982	1440	4340	4700	446	4400	5200	122	12930	409	28535
1964	6290	6400	16250	26670	2650	3490	900	1240	27730	4310	24180	3250	122550
1965	8460	54130	10880	5930	199700	17110	3460	2610	1420	3630	4430	2510	314270
1966	2220	4480	3420	64330	42900	16000	2060	6700	13380	2540	1740	2180	161950
1967	1730	1220	1680	8640	1940	4380	3250	575	1590	479	567	1510	27761
1968	81690	20740	72730	27970	170700	23230	43800	8430	3680	2470	2630	3100	461370
1969	2300	2700	5590	31780	90710	6450	5920	3540	1200	21110	6010	11190	188500
1970	12610	32260	84160	31940	22140	13570	2090	795	13210	4940	1930	1950	221595
1971	1940	1680	1350	2150	4690	2000	2220	2560	615	82920	7250	66520	175895
1972	24750	9880	5590	5000	7160	1700	3770	1630	1930	3490	2010	1540	68450
1973	7490	12940	16960	65290	17460	14850	8870	2270	1470	10860	3490	2840	164790
1974	4170	3040	2440	1550	1430	443	216	373	18220	13380	20200	8270	73732
1975	8470	50140	13490	47560	19020	8040	6580	3740	2990	1180	1100	1530	163840
MAX	112700	86760	84160	65290	199700	25720	43800	8430	27730	174300	24180	66520	461370
MIN	1730	1200	982	1440	1430	443	900	440	520	122	567	409	27761
MEAN	21571	20102	18074	22082	38249	9521	7561	2537	6556	24529	7098	9776	187656
NC.	16	16	16	16	16	16	16	17	17	17	17	17	16
DISTR OF MEAN	11.5%	10.7%	9.6%	11.8%	20.4%	5.1%	4.0%	1.4%	3.5%	13.1%	3.8%	5.2%	100%

BRAZOS RIVER BASIN

08095300 Middle Bosque River near McGregor, Texas

LOCATION: Lat 31°30'33", long 97°21'58", McLennan County, at a bridge on a county road, 1,100 ft (335 m) downstream from Pecan Creek, 5.2 mi (8.4 km) northeast of McGregor, and 8.2 mi (13.2 km) upstream from the South Bosque River.

DRAINAGE AREA: 182 mi<sup>2</sup> (471 km<sup>2</sup>).

PERIOD OF RECORD: September 1959 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 630.51 ft (161.699 m) above mean sea level, datum of 1929. Prior to Oct. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 17 years, 64,434 ac-ft/yr (79.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 33,300 ft<sup>3</sup>/s (943 m<sup>3</sup>/s) Oct. 31, 1974 (gage height, 24.62 ft or 7.504 m); no flow at times in 1960-64, 1967, and 1971.

Maximum flood known occurred in 1889 which reached a stage of 28.5 ft (8.69 m).

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	1630	19130	4160	11470	-
1960	16320	7620	3780	1910	1400	233	1000	19.0	9.3	5220	621	22030	60162
1961	45730	39770	8100	2320	3200	28150	28720	1750	2460	5780	10230	5930	182140
1962	2540	1760	1340	1220	1240	6420	855	14.0	741	0	2.60	365	16498
1963	221	155	131	95.0	1210	28.0	0	0	0	0	0	0	1840
1964	19.0	337	1360	4170	1760	26440	596	222	3620	1220	13330	2600	55674
1965	5120	15110	7080	3240	64670	5700	467	211	1270	1110	10290	3960	118228
1966	2800	4540	4750	16280	10660	2330	397	4170	13480	2470	780	428	63085
1967	256	153	122	2020	2580	3380	39.0	1.80	178	778	1250	2090	12848
1968	28890	10030	18490	8620	26610	9280	22560	937	1190	719	751	2950	131027
1969	1150	1670	6150	12810	16650	1390	47.0	11.0	53.0	499	966	3270	44666
1970	1780	4310	21960	4240	4680	2760	168	11.0	459	1270	374	221	42233
1971	147	169	83.0	147	6.30	.08	11250	7570	1450	8960	3020	12490	45292
1972	7660	3410	1580	421	2940	545	2870	5.40	2.00	1580	1010	692	22715
1973	3590	5370	7320	9870	13320	16910	3190	243	46.0	10850	3430	1570	75703
1974	984	1030	848	696	2520	86.0	6.10	6330	15870	34320	13220	5470	61380
1975	5970	16180	3800	9340	13830	4740	1610	178	431	476	457	313	57325
MAX	45730	39770	21960	16280	64670	28150	28720	7570	15670	34320	13330	22030	182140
MIN	19.0	153	83.0	95.0	6.30	.08	0	0	0	0	0	0	1840
MEAN	7699	6976	5431	4837	10455	6775	4611	1355	2523	5552	3758	4462	64434
NO.	16	16	16	16	16	16	16	16	17	17	17	17	16
DISTR													
OF MEAN	11.9%	10.8%	8.4%	7.5%	16.2%	10.5%	7.2%	2.1%	3.9%	8.6%	5.8%	6.9%	100%

BRAZOS RIVER BASIN

08095400 Hog Creek near Crawford, Texas

LOCATION: Lat 31°33'20", long 97°21'22", McLennan County, at the bridge on Farm Road 185, 5.6 mi (9.0 km) east of Crawford, and 9.8 mi (15.8 km) upstream from the South Bosque River.

DRAINAGE AREA: 78.2 mi<sup>2</sup> (203 km<sup>2</sup>).

PERIOD OF RECORD: September 1959 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 560.54 ft (170.853 m) above mean sea level, datum of 1929. Prior to Oct. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 17 years, 27,440 ac-ft/yr (33.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 15,400 ft<sup>3</sup>/s (436 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 14.31 ft or 4.362 m); no flow at times in 1959, 1963-64, and 1971.

Maximum stage since 1900, 17.5 ft (5.33 m) Sept. 26, 1936.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	1020	17220	1370	2970	-
1960	6450	3190	1600	847	463	62.0	1480	135	21.0	1510	166	10660	26584
1961	22120	14270	3640	938	406	11320	6250	571	984	6590	7500	3830	78419
1962	1340	1030	845	1590	933	1250	282	13.0	1490	10.0	18.0	34.0	8835
1963	58.0	60.0	21.0	70.0	936	20.0	2.80	1.40	1.20	589	4.60	11.0	1775
1964	136	304	1110	2360	670	5910	200	66.0	2510	513	8010	1260	23049
1965	2440	7660	2170	1060	29280	2590	263	46.0	82.0	61.0	2400	1010	49062
1966	805	1680	1750	11230	4250	1240	215	401	1490	421	181	111	23774
1967	69.0	44.0	37.0	1680	722	2990	81.0	9.6	60.0	360	470	819	7342
1968	12730	4220	7410	3620	10510	1710	9620	422	217	114	136	703	51412
1969	362	514	2290	7680	9660	614	53.0	20.0	14.0	29.0	69.0	346	21651
1970	360	1600	8490	1670	1260	568	65.0	17.0	269	688	156	86.0	15229
1971	62.0	46.0	34.0	70.0	9.6	6.70	608	1090	264	5080	891	4890	13851
1972	2420	1240	606	237	710	407	2970	31.0	9.00	612	275	217	9734
1973	1260	1810	2770	4740	5760	7190	2170	198	55.0	5940	1800	867	34560
1974	520	429	378	305	517	43.0	7.60	361	7580	12940	5330	2330	30741
1975	2530	7490	1710	5720	7720	1850	521	71.0	176	68.0	59.0	49.0	27964
MAX	22120	14270	8490	11230	29280	11320	9620	1890	7580	17220	8010	10660	78419
MIN	58.0	44.0	21.0	70.0	9.6	6.70	2.80	1.40	1.20	10.0	4.60	11.0	1775
MEAN	3354	2849	2179	2739	4613	2361	1549	266	955	3103	1696	1776	27440
NO.	16	16	16	16	16	16	16	16	17	17	17	17	16
DISTR OF MEAN	12.2%	10.4%	7.9%	10.0%	16.8%	8.6%	5.6%	1.0%	3.5%	11.3%	6.2%	6.5%	100%

BRAZOS RIVER BASIN

08095500 South Bosque River near Speegleville, Texas

LOCATION: Lat 31°31', long 97°15', McLennan County, at a highway bridge 2 mi (3.2 km) south of Speegleville, and 6 mi (9.6 km) west of Waco.

DRAINAGE AREA: 388 mi<sup>2</sup> (1,004.9 km<sup>2</sup>).

PERIOD OF RECORD: April 1924 to April 1930.

GAGE: Chain gage. Datum of gage is 420 ft (128.0 m) above mean sea level.

AVERAGE DISCHARGE: 7 years, 75,506 ac-ft/yr (93.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-30): Maximum discharge, 54,500 ft<sup>3</sup>/s (1,543.4 m<sup>3</sup>/s) June 14, 1927 (gage height, 29.37 ft or 8.95 m, from floodmarks); no flow during several periods.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	8470	19600	3800	398	17.7	85.3	82.3	123	177	-
1925	171	92.0	54.5	45.4	289	0	0	0	1070	6840	9360	1540	19462
1926	10500	5200	33300	57800	20700	5620	9440	480	302	726	572	1470	146110
1927	1560	12500	11900	22400	11800	92100	6960	458	296	11300	1090	849	173213
1928	658	9320	5920	6190	2200	20500	769	234	30.0	4.30	952	-	-
1929	-	-	3750	3580	11600	7440	400	18.0	2340	43.0	315	296	-
1930	547	3450	3390	2280	-	-	-	-	-	-	-	-	-
MAX	10500	12500	33300	57800	20700	92100	9440	480	2340	11300	9360	1540	173213
MIN	171	92.0	54.5	45.4	289	0	0	0	30.0	4.30	123	177	19462
MEAN	2687	6112	9719	14395	11032	21577	2995	201	687	3166	2069	866	75506
NO.	5	5	6	7	6	6	6	6	6	6	6	5	3
DISTR													
OF MEAN	3.6%	8.1%	12.9%	19.1%	14.6%	28.6%	4.0%	.3%	.9%	4.2%	2.7%	1.1%	100%

**BRAZOS RIVER BASIN**  
**08095550 Waco Lake near Waco, Texas**

**LOCATION:** Lat 31°34'46", long 97°11'51", McLennan County, in the intake structure at Waco Dam on the Bosque River at the northwest edge of the city limits of Waco, and 4.6 mi (7.4 km) upstream from the Brazos River.

**DRAINAGE AREA:** 1,652 mi<sup>2</sup> (4,279 km<sup>2</sup>).

**PERIOD OF RECORD:** February 1965 to December 1975. Prior to October 1970, published as "Waco Reservoir".

**GAGE:** Water-stage recorder. Datum of gage is at mean sea level.

**EXTREMES:** Period of record (1965-75): Maximum contents, 292,100 ac-ft (360.2 hm<sup>3</sup>) May 15, 1968 (elevation, 470.86 ft or 143.518 m); minimum contents since the initial filling, 126,700 ac-ft (166.2 hm<sup>3</sup>) Aug. 25, 1974 (elevation, 451.31 ft or 137.559 m).

**REMARKS:** The lake is formed by a rolled earthfill dam 24,618 ft (7,504 m) long, including the spillway, with a capacity of 152,500 ac-ft (188.0 hm<sup>3</sup>). The lake was built for flood control and water conservation. From Oct. 1, 1964 to Feb. 26, 1965, the lake was operated as a detention basin only. On Feb. 26, 1965, the lake was operated as a detention basin only. On Feb. 26, 1965, the old Lake Waco was breached and deliberate impoundment began. The emergency spillway is controlled by fourteen 40.0 by 35.0 foot (12.2 by 10.7-m) tainter gates. The outlet works consist of three gate-controlled outlets, 6.7 by 20.0-foot (2.0 by 6.1-m), opening into a 20.0-foot diameter (6.1-m) concrete conduit and two 54-inch (1,370-millimeter) concrete pipes. The low-flow releases are made through two 54-inch (1,370-millimeter) butterfly valves. The flow into two wet wells is controlled by four 5.0 by 6.0-foot (1.5 by 1.8-m) slide gates that are used to release water downstream for the City of Waco municipal water supply. The dam is operated by the U.S. Army Corps of Engineers.

**END OF MONTH CONTENTS IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1965	-	22210	58190	70270	150200	151100	145100	139100	139000	143500	154000	153100
1966	152900	155900	152900	242100	152500	153200	150100	157500	154900	149000	147400	146900
1967	147100	146200	146200	163900	169200	150800	147200	141200	142100	144700	154000	152700
1968	158100	151600	147600	149000	156700	162800	151900	154100	158300	150100	156200	149700
1969	152800	150200	147100	151400	151100	151500	147200	143100	141800	160900	156400	152300
1970	154800	172600	154600	152900	170000	153500	147500	141100	148200	154700	153700	153800
1971	153200	153400	151300	151300	150100	144600	178700	156500	146900	158000	152600	157700
1972	155900	152600	152300	152900	151100	147400	150700	146200	143300	156000	154100	154800
1973	161100	156700	152600	169200	163800	154100	151800	144300	144200	156500	152800	149900
1974	153300	152800	152400	152700	144300	138100	131500	138100	153800	247100	153600	153700
1975	153100	152900	153200	155300	174300	154800	151400	147200	145900	144100	142200	142500
MAX	161100	172600	154600	242100	174300	162800	178700	157500	158300	247100	156400	157700
MIN	147100	22210	58190	70270	144300	138100	131500	138100	139000	143500	142200	142500
MEAN	154230	142465	142581	155543	157573	151082	150282	146218	147127	160418	152455	151555
NO.	10	11	11	11	11	11	11	11	11	11	11	11
DISTR												
OF MEAN	8.5%	7.9%	7.9%	8.6%	8.7%	8.3%	8.3%	8.1%	8.1%	8.9%	8.4%	8.4%

**BRAZOS RIVER BASIN**  
**08095600 Bosque River near Waco, Texas**

LOCATION: Lat 31°36'04", long 97°11'36", McLennan County, at the bridge on Farm Road 1637, 1.8 mi (2.9 km) downstream from Waco Lake Dam, 2.8 mi (4.5 km) upstream from the mouth, and 4.7 mi (7.6 km) northwest of the courthouse in Waco.

DRAINAGE AREA: 1,656 mi<sup>2</sup> (4,289.0 km<sup>2</sup>).

PERIOD OF RECORD: August 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 365.44 ft (111.386 m) above mean sea level, datum of 1929. Prior to Jan. 21, 1960, nonrecording gage, and from Jan. 21 to Aug. 20, 1960, nonrecording gage below 11.38 ft (3.469 m) and water-stage recorder above. All gages at same site and datum. Dec. 30, 1959 to Aug. 29, 1967, auxiliary water-stage recorder 2.7 mi (4.3 km) downstream at datum 4.66 ft (1.420 m) lower. Since Aug. 30, 1967, auxiliary water-stage recorder 0.7 mi (1.1 km) downstream at datum 4.66 ft (1.420 m) lower.

AVERAGE DISCHARGE: 17 years, 329,185 ac-ft/yr (405.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 69,000 ft<sup>3</sup>/s (1,950 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 39.8 ft or 12.13 m, from floodmark); no flow at times in 1963-64, 1966-67, 1970, and 1972-74.

Maximum stage since at least 1880, 44.5 ft (13.56 m) Sept. 27, 1936 (discharge, 96,000 ft<sup>3</sup>/s or 2,720 m<sup>3</sup>/s), from information by a local resident. Maximum stage may be the result of backwater from the Brazos River because the discharges on Apr. 22, 1945 (140,000 ft<sup>3</sup>/s or 3,960 m<sup>3</sup>/s) and Apr. 20, 1957 (103,000 ft<sup>3</sup>/s or 2,920 m<sup>3</sup>/s) exceeded the discharge corresponding to the maximum stage.

REMARKS: Records poor due to backwater from the Brazos River. The flow is regulated by Waco Lake (station 08095550).

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	-	5070	239500	24750	63240	-
1960	95200	47670	23160	11350	16720	864	9070	348	226	17500	2570	88120	312798
1961	253200	197400	49770	16480	12050	98810	90400	6700	10020	78340	43120	29540	885830
1962	12700	9060	7290	8000	9320	19860	2550	141	9710	12710	454	1750	93545
1963	1240	451	483	126	1700	2200	49.0	5.60	4.40	2.60	165	291	6718
1964	1950	7150	18900	33810	5240	58970	607	1.00	24120	1870	44870	7270	204758
1965	19030	79310	309	144	284100	30940	4070	3060	2750	30.0	29060	13450	466253
1966	6760	13040	17010	23930	185100	17930	549	4290	56300	6240	1430	488	333067
1967	77.0	66.0	61.0	225	143	35120	51.0	4.30	29.0	154	155	11890	47975
1968	151000	72120	120600	59800	246900	49390	100800	2690	195	11620	283	22260	837658
1969	296	15800	34080	60370	131400	3330	1510	1840	232	281	12490	30050	291679
1970	16840	27380	161100	47470	13790	34760	142	167	13020	187	71.0	85.0	315012
1971	77.0	78.0	113	415	1290	1040	3630	37330	22920	73520	14940	87970	243323
1972	46430	20940	5580	0	12370	1690	4170	70.0	86.0	1940	7920	2540	103736
1973	14510	31720	34670	62650	45070	83270	13980	0	0	41670	10770	4800	342710
1974	0	2330	849	2320	13840	0	0	0	37110	5470	149000	16140	227059
1975	20280	96440	16680	72180	57900	35270	5570	0	0	0	0	0	304320
MAX	253200	197400	161100	72180	284100	98810	100800	37330	56300	239500	149000	88120	885830
MIN	0	66.0	61.0	0	143	0	0	0	0	0	0	0	6718
MEAN	39974	38810	30666	24954	64808	29590	14822	3540	10694	28884	20120	22323	329185
NO.	16	16	16	16	16	16	16	16	17	17	17	17	16
DISTR OF MEAN	12.1%	11.8%	9.3%	7.6%	19.7%	9.0%	4.5%	1.1%	3.2%	8.8%	6.1%	6.8%	100%



**BRAZOS RIVER BASIN**  
**08096500 Brazos River at Waco, Texas**

LOCATION: Lat 31°32'06", long 97°04'22", McLennan County, 2.2 mi (3.5 km) downstream from the bridge on La Salle Avenue in Waco.

DRAINAGE AREA: 29,573 mi<sup>2</sup> (76,594.1 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1898 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 349.34 ft (106.479 m) above mean sea level, datum of 1829. Sept. 14, 1898 to Mar. 28, 1918, May 6, 1922 to Feb. 12, 1925, nonrecording gage, and May 28, 1918 to May 5, 1922, Feb. 13, 1925 to Aug. 14, 1969, water-stage recorder. Prior to Aug. 14, 1969, at site 3.9 mi (6.3 km) upstream at datum 7.46 ft (2.274 m) higher.

AVERAGE DISCHARGE: 78 years, 1,782,165 ac-ft/yr (2,197.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1898-1975): Maximum discharge, 246,000 ft<sup>3</sup>/s (6,970 m<sup>3</sup>/s) Sept. 27, 1936 (gage height, 40.90 ft or 12.466 m, at former site and datum); no flow Aug. 20, 21, 1918 and probably for several days in August 1923.

Maximum stage since at least 1847, that of Sept. 27, 1936.

REMARKS: Records good. The flow is largely regulated since 1951 by Whitney Lake (station 08092500) and Waco Lake since 1964 (station 08095550). The combined capacity of 18 major reservoirs above the station is 4,135,000 ac-ft (5,098.4 hm<sup>3</sup>), of which 2,194,000 ac-ft (2,705.2 hm<sup>3</sup>) is for flood-control storage in Whitney and Waco Lakes. Since 1941, at least 10 percent of the drainage area is regulated by reservoirs.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1898	-	-	-	-	-	-	-	-	-	23900	6250	10200	-
1899	8640	5710	2620	10400	96900	682000	672000	36700	5360	56800	338000	184000	2099130
1900	143000	49200	67000	654000	449000	297000	186000	132000	908000	268700	115500	38970	3308370
1901	21630	22680	15720	37560	184000	161300	7800	30130	44740	15810	15400	6770	563540
1902	2970	2590	62230	61330	266200	128000	945900	144500	98840	74640	275200	100800	2163200
1903	66620	343600	406400	67850	43560	96370	86400	45810	33160	231600	26810	9150	1457330
1904	6880	14920	22700	28770	132400	202900	108500	105000	65470	115400	27460	12010	842410
1905	21480	30280	98790	435400	1122000	229600	351100	137600	110500	95900	42700	57200	2732550
1906	33700	40700	21600	32500	244000	512000	190000	247000	180000	86100	38100	78100	1703800
1907	50800	32200	34200	20900	196000	220000	209000	52800	22400	157000	154000	212000	1361300
1908	75000	86300	80600	1140000	1350000	186000	65200	47800	55100	27300	13000	22600	3148900
1909	1970	1220	1960	1600	21800	274000	22100	86700	6720	14100	26000	16900	627170
1910	7010	10700	2560	89200	202000	36900	10500	1140	36700	16600	4680	3450	421440
1911	756	62200	14800	26400	11500	1980	191000	106000	304000	10900	4710	142000	876246
1912	16200	21100	55300	43600	47200	58900	16100	216000	25700	61800	8170	2480	572550
1913	655	5020	14300	31900	245000	79900	64700	21600	160000	317000	334000	1520000	2794075
1914	53400	18200	43800	434000	1190000	442000	88000	670000	205000	69420	72610	115100	3401530
1915	77970	51340	84370	838400	485300	679600	184800	141700	129500	198000	30300	25500	2926780
1916	91600	86300	29300	821000	398000	148000	10600	22600	101000	16700	8360	1765860	
1917	7190	4770	5860	15900	52000	70200	29500	24000	78000	10800	2480	3220	303920
1918	2720	1470	1290	198000	168000	179000	14000	167	159000	282000	672000	383000	2060647
1919	359000	222000	215000	261000	581000	564000	324000	272000	319000	762000	702000	181000	4762000
1920	380000	152000	125000	59500	910000	330000	87300	480000	607000	144000	170000	89800	3534600
1921	140000	128000	124000	88100	32600	362000	49700	9530	36100	10700	3990	5560	990280
1922	4860	4850	17900	1130000	1460000	230000	47700	7250	8520	6980	13500	8490	2940050
1923	9000	42900	11300	414000	183000	342000	14800	1040	52600	267000	246000	348000	1931640
1924	61000	51500	352000	171000	220000	130000	5610	4590	115000	18600	10400	9070	1148770
1925	8980	3500	2080	79300	499000	18500	4660	43200	360000	166000	74200	9390	1268810
1926	94800	19600	111000	407000	184000	346000	220000	166000	286000	332000	38700	102000	2307100
1927	34100	68400	112000	271000	126000	428000	105000	39100	19700	129000	7910	12700	1352910
1928	11200	57500	25000	102000	304000	318000	144000	209000	61300	5140	9940	46100	1293180
1929	45700	24700	52200	131000	317000	174000	41600	10100	319000	50500	24500	16000	1206300
1930	7620	28800	16500	26400	922000	359000	41100	14400	63100	633000	70200	278000	2460120
1931	118000	254000	159000	106000	114000	83300	32200	12400	8930	275000	90400	84900	1335130
1932	341000	472000	216000	53300	416000	255000	504000	42500	619000	56400	21200	101000	3097400
1933	94700	22500	132000	55400	429000	91000	65200	82400	101000	25500	18500	23900	1141100
1934	70100	35000	175000	286000	39900	6660	1020	959	14000	7290	87190	24160	747279
1935	49950	74740	40020	113200	1359000	662000	268100	61790	314600	108500	90390	99220	3241510
1936	31670	16250	9550	11620	287700	104600	64180	5730	116200	434300	104400	218600	2450600
1937	132600	79790	141400	42280	31700	149900	24960	78080	50170	75690	12370	167100	986040
1938	413100	453000	271800	358700	306900	283100	228400	87560	14510	4410	4060	4990	2430530
1939	54820	45070	21080	28330	273800	354600	58640	34410	11220	1870	15110	4930	903880
1940	3910	8730	6570	98710	120400	447900	166200	249800	71700	12050	411800	405800	2003570
1941	132600	491800	284700	323200	1293000	882900	206400	201300	103800	735700	263700	46360	4965660
1942	78190	26000	21950	1337000	666200	569700	51290	48110	323200	531500	105500	72910	3831550
1943	65720	80730	119000	125800	104500	71790	56790	44100	35680	16900	6880	11030	738920
1944	39170	123900	122200	87500	758200	92720	33850	26680	53760	29100	38080	66860	1472020
1945	182700	306100	556800	857600	167300	165700	286700	59570	29820	115800	36780	58160	2825030
1946	132200	184800	211200	99310	241000	127900	36550	50500	121200	195300	206700	201500	1808160
1947	164200	90170	158300	157700	391400	129300	52210	44490	41980	28570	20930	82490	1361740

BRAZOS RIVER BASIN

08096500 Brazos River at Waco, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1948	54870	128700	61810	42780	118400	71290	101200	48900	45760	14640	13140	15980	737470
1949	23800	72640	98180	109300	500100	332100	89890	56380	75750	106100	51540	24520	1540300
1950	31270	123800	35910	95050	97580	102900	207700	162200	210000	79460	23680	27880	1197430
1951	38400	33970	15690	15870	54980	188400	81130	72810	52950	23220	19270	13990	610680
1952	12080	11740	8580	60760	90820	23340	46250	68190	25390	3550	13440	48510	412650
1953	13280	6260	50810	30780	210100	25100	28660	34180	11830	7790	5310	8410	432510
1954	5870	4350	8970	37530	371500	150500	75620	52030	19250	25350	7940	2510	761420
1955	2740	8030	9540	9520	215200	239700	63370	40280	186600	595100	27100	27330	1424510
1956	34280	33430	32470	37300	246800	39510	94210	44380	34560	40840	7830	3670	649280
1957	35960	39800	67650	623800	2234000	2210000	237900	42220	35420	207800	287500	129800	6151850
1958	123400	125600	158100	144100	766700	80220	241100	73560	43420	38470	34970	34900	1864540
1959	37580	47560	36790	44760	62210	109100	104600	46030	40740	832300	66300	144900	1572870
1960	315900	165500	91650	78450	112700	43030	111800	35430	34310	142700	108300	219600	1459370
1961	561100	416100	172300	72690	47850	381300	390600	119100	58520	180200	123800	116100	2639660
1962	60800	51870	50140	52280	56320	197100	105800	269100	455300	178000	60640	89760	1627110
1963	58610	37860	37110	36460	72460	211100	85970	34560	28160	35060	19270	14140	670760
1964	17740	24230	41800	54610	41880	103500	46470	39700	58660	15000	90910	47720	582220
1965	69380	216200	54510	36830	943000	91320	41810	35310	29510	29380	83660	49380	1680290
1966	44250	51380	60500	188800	810100	79170	69960	47080	564800	123000	54030	46330	2139400
1967	18000	10720	10660	52370	47220	124500	74280	75810	23750	58670	62280	68500	626760
1968	326500	231200	522100	306300	909100	212400	246900	49840	49340	52200	38300	62460	3006640
1969	32520	27530	79470	188600	907300	281200	135500	55030	74780	41040	58230	54950	1936150
1970	118800	86750	497200	182900	121100	85320	42050	63760	39660	48480	12480	12410	1311110
1971	35400	6300	4750	20070	27130	22990	48630	49200	63090	274500	171800	319000	1042860
1972	206400	52750	27800	34290	70810	48330	88670	50070	41750	34260	78100	69680	802910
1973	81940	65080	178500	432200	202000	448000	137100	84400	29560	153600	51140	47830	1911350
1974	50110	26420	62640	40660	39960	33180	49630	52320	119400	92880	663500	108300	1339000
1975	110200	410100	126700	278700	244500	326200	51160	52650	31410	24730	26150	39310	1721810
MAX	561100	491800	556800	1337000	2234000	2210000	945900	670000	1162000	832300	702000	1520000	6151850
MIN	655	1220	1290	1600	11500	1980	1020	167	5360	1870	2480	2480	301920
MEAN	84058	90581	97380	202317	380069	247091	127194	84394	135828	139383	94744	99126	1782165
NC.	77	77	77	77	77	77	77	77	77	78	78	78	77
DISTR OF MEAN	4.7%	5.1%	5.5%	11.4%	21.3%	13.9%	7.1%	4.7%	7.6%	7.8%	5.3%	5.6%	100%

BRAZOS RIVER BASIN

08096800 Cow Bayou Subwatershed No. 4 near Bruceville, Texas

LOCATION: Lat 31°19'59", long 97°18'02", McLennan County, near the center of the dam on Foster Branch, 1.0 mi (1.6 km) upstream from South Fork Cow Bayou, and 2.1 mi (3.4 km) west of Bruceville.

DRAINAGE AREA: 5.25 mi<sup>2</sup> (13.60 km<sup>2</sup>).

PERIOD OF RECORD: October 1956 to September 1975.

GAGE: Water-stage recorder with drop-inlet structure as control. Datum of gage is 574.46 ft (175.10 m) above mean sea level.

AVERAGE INFLOW: 20 years, 1,495 ac-ft/yr (1.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1956-75): Maximum inflow, 6,900 ft<sup>3</sup>/s (195 m<sup>3</sup>/s), average for 15-minute interval, May 11, 1957, computed from the change in the pool contents and adjusted for outflow and rainfall on the pool surface during times of peak inflow; no inflow at times.

REMARKS: Records good. The pool is formed by a rolled earthfill dam, 1,285 ft (392 m) long. A grass sodded emergency spillway section, 400 ft (120 m) wide, is located at the left end of the dam. The gage height at the crest of the emergency spillway is 38.1 ft (11.61 m); prior to May 11, 1957, gage height was 37.7 ft (11.49 m) after the spillway was repaired. The dam was completed in August 1956, but no appreciable storage began before Mar. 20, 1957. The outlet structure consists of a 2.5-foot (0.8-m) square uncontrolled drop-inlet structure covered with an antivortex baffle and two 8-inch (203-millimeter) square uncontrolled portholes on the downstream face. The gage height at the crest of the drop inlet is 18.0 ft (5.49 m) and at the bottom of the portholes, 14.76 ft (4.499 m). The drop-inlet structure is connected to a 17-inch diameter (432-millimeter) outlet pipe at the base of the dam. There is also an 8-inch (203-millimeter) controlled water-supply outlet at a gage height of 6.07 ft (1.850 m). The pool capacity is 1,740 ac-ft (2.15 hm<sup>3</sup>) at the spillway crest; 241 ac-ft (0.297 hm<sup>3</sup>) at the crest of the drop inlet; 145 ac-ft (0.179 hm<sup>3</sup>) at the bottom of the 8-inch (203-millimeter) portholes; and 13 ac-ft (0.016 hm<sup>3</sup>) at the controlled outlet pipe. The dam was built by the Soil Conservation Service for flood control and water conservation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	0	0	0	-
1957	0	0	70.1	218.0	196.0	68.5	.80	0	11.1	54.7	36.2	1.75	537.4
1958	39.7	69.4	239	148	32.4	80.5	19.0	4.00	8.10	.30	2.50	3.70	156.3
1959	2.50	7.50	4.60	11.1	6.50	28.2	37.0	11.4	14.8	601	177	4.41	1596
1960	370	161	161	94.0	44.8	20.1	3.20	.40	1.10	120	32.2	9.97	2005
1961	1120	665	207	40.6	11.6	17.4	37.5	6.10	20.1	10.3	36.2	13.7	2342
1962	15.4	12.0	10.9	13.9	9.8	58.0	7.00	0	2.80	.70	1.20	1.20	133
1963	.50	1.60	1.20	.90	.60	.20	0	0	.70	.70	5.90	.80	13.1
1964	20.5	6.20	21.7	11.8	5.50	31.7	0	1.60	1.40	1.10	2.10	1.80	105
1965	51.9	63.6	352	126	1370	298	8.80	1.20	4.80	5.60	105	72.4	2459
1966	31.1	411	172	462	589	87.3	4.30	39.7	145	8.70	4.90	9.4	1964
1967	4.40	3.00	3.70	.40	1.60	0	2.50	.50	5.70	2.40	75.7	96.3	196
1968	602	312	402	311	627	77.2	23.4	4.10	.40	3.60	42.8	25.0	2641
1969	12.7	84.8	264	525	236	10.4	.20	3.40	2.70	5.70	13.7	1.11	1270
1970	82.7	220	715	187	31.9	3.00	.70	1.10	8.10	23.4	.20	.30	1273
1971	.10	1.90	1.90	14.3	57.6	1.40	138	27.0	2.40	2.40	118	2.31	725
1972	187	110	20.6	3.80	8.80	1.00	1.90	.30	2.20	6.50	47.3	62.6	452
1973	241	160	355	408	203	472	25.9	4.40	4.50	214	38.4	18.3	2144
1974	47.6	35.6	22.3	6.60	19.7	2.00	2.60	8.70	44.1	264	254	1.97	904
1975	236	652	102	39.5	161	24.5	21.0	2.20	2.00	-	-	-	-
MAX	1120	694	715	2180	1960	472	234	39.7	145	601	362	9.97	5374
MIN	0	0	1.20	.40	.60	0	0	0	.90	0	0	0	13.1
MEAN	161	190	165	248	298	89.0	28.7	6.11	14.8	95.7	69.4	1.29	1495
NO.	19	19	19	19	19	19	19	19	19	19	19	19	18
LISTR													
OF MEAN	10.8%	12.7%	11.0%	16.6%	20.0%	6.0%	1.9%	.4%	1.0%	6.4%	4.6%	8.7%	100%

BRAZOS RIVER BASIN

08097000 Cow Bayou at Mooreville, Texas

LOCATION: Lat 31°18'45", long 97°08'18", Falls County, at a county road bridge, 500 ft (160 m) downstream from the confluence of North and South Cow Bayou, 0.8 mi (1.3 km) north of Mooreville, and 5.0 mi (8.0 km) northwest of Chilton.

DRAINAGE AREA: 85.0 mi<sup>2</sup> (220.2 km<sup>2</sup>).

PERIOD OF RECORD: July 1958 to September 1975.

GAGE: Water-stage recorder. Datum of gage is 399.58 ft (121.792 m) above mean sea level. Prior to June 10, 1958, crest-stage gage at same site and datum.

AVERAGE DISCHARGE: 18 years, 26,347 ac-ft/yr (32.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 7,960 ft<sup>3</sup>/s (225 m<sup>3</sup>/s) May 11, 1957 (gage height, 23.88 ft or 7.279 m); no flow at times.

Maximum stage since at least 1900, 31 ft (9.4 m) May 1, 1944, from information by a local resident.

REMARKS: Records good. There is a small diversion for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	-	-	194	91.0	291	57.0	103	129	-
1959	173	255	139	324	253	7170	960	321	231	12990	3010	7260	33106
1960	6860	3170	2030	1590	751	1650	1690	247	34.0	4990	1350	18460	42822
1961	21760	12560	4050	1230	462	6280	1710	387	1090	449	683	671	51332
1962	550	394	368	608	630	4000	1030	15.0	12.0	12.0	53.0	62.0	7734
1963	88.0	64.0	71.0	51.0	4.00	0	0	0	68.0	0	39.0	32.0	417
1964	137	245	399	1100	448	2370	67.0	1.00	53.0	0	43.0	59.0	4922
1965	1770	2240	5630	4290	21960	5310	231	29.0	657	377	4200	2590	49284
1966	1770	5560	2870	10890	13200	1740	345	1370	6660	958	384	363	46130
1967	324	270	268	284	158	8.00	0	74.0	89.0	336	1880	1950	5641
1968	11700	6410	7530	6280	10970	2910	7420	359	169	188	509	1250	55695
1969	443	1440	4600	6110	2810	325	46.0	59.0	20.0	86.0	116	1230	17285
1970	1090	2620	10330	2500	903	407	56.0	7.80	298	650	218	171	19251
1971	182	166	114	950	661	7.10	4090	1720	92.0	540	2330	4370	15202
1972	3120	2440	704	176	678	81.0	167	0	13.0	633	1440	1200	10652
1973	4320	3040	6560	5560	3650	8100	494	130	273	5640	1320	711	39798
1974	1080	871	678	275	722	99.0	2.70	328	1610	5180	8290	4190	23326
1975	3780	9630	2370	739	6760	1880	949	242	133	-	-	-	-
MAX	21760	12560	10330	10890	21960	8100	7420	1720	6660	12990	8290	18460	55695
MIN	88.0	64.0	71.0	51.0	4.00	0	0	0	12.0	0	39.0	32.0	417
MEAN	3479	3022	2865	2527	3825	2490	1081	299	655	1946	1526	2632	26347
NO.	17	17	17	17	17	17	18	18	18	17	17	17	16
DISTR OF MEAN	13.2%	11.5%	10.9%	9.6%	14.5%	9.5%	4.1%	1.1%	2.5%	7.4%	5.8%	10.0%	100%

**BRAZOS RIVER BASIN**  
08097500 Brazos River near Marlin, Texas

LOCATION: Lat 31°17'20", long 96°58'10", Falls County, at the bridge on State Highway 139, 1.0 mi (1.6 km) upstream from Deer Creek, and 4.5 mi (7.2 km) southwest of Marlin.

DRAINAGE AREA: 20,160 mi<sup>2</sup> (75,498.5 km<sup>2</sup>) of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1938 to September 1951.

GAGE: Wire-weight gage, Datum of gage is 312.15 ft (95.1 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 2,117,899 ac-ft/yr (2,611.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1938-51): Maximum discharge, 132,000 ft<sup>3</sup>/s (3,738.2 m<sup>3</sup>/s) May 3, 1944 (gage height, 33.3 ft or 10.15 m, from floodmark); minimum not determined.

Maximum stage known, 35.8 ft (10.9 m) December 3, 1913.

REMARKS: Records poor. The flow is largely regulated by several reservoirs above Waco.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	5240	5670	5490	-
1939	60060	66720	35340	31630	367700	424500	57550	44390	15530	2430	21070	5160	1132080
1940	4600	9830	8740	130800	110700	483100	176900	246800	77100	15990	572200	435800	2272560
1941	195800	550800	343700	342700	1302000	986600	263900	234000	112300	730300	297100	45250	5404450
1942	80250	28600	26910	1443000	678500	664200	61780	58760	435600	525200	133900	93840	4230740
1943	72660	94970	141300	153600	142200	90620	60130	46640	38840	43150	9020	12810	905940
1944	101100	247200	215900	101800	1046000	127800	37750	27610	63960	33260	52060	106300	2160740
1945	272800	400700	705700	946800	186000	184400	287900	68350	31760	119800	41110	110500	3355820
1946	146200	224500	239500	113200	334700	153700	44090	50820	116700	224400	226400	218200	2092410
1947	208600	92090	198100	188300	428100	148600	52420	49330	47330	27710	24790	97420	1562790
1948	64750	145900	102200	55320	145200	78710	125400	50680	53550	17030	13800	16840	869380
1949	29760	79260	122100	116100	474300	367900	105300	45340	78030	116900	59150	27100	1621240
1950	34680	158000	37040	98440	102300	106700	211800	192700	217100	91590	21970	25400	1297720
1951	45280	41750	19100	14760	58670	217800	84850	72190	56010	-	-	-	-
MAX	272800	550800	705700	1443000	1302000	986600	287900	246800	435800	730300	572200	435800	5404450
MIN	4600	9830	8740	14760	58670	78710	37750	27610	15530	2430	5670	5160	869380
MEAN	101272	164640	168895	287419	413567	310356	120752	91355	103385	150231	113711	92316	2117899
NO.	13	13	13	13	13	13	13	13	13	13	13	13	12
DISTR OF MEAN	4.8%	7.8%	8.0%	13.6%	19.5%	14.7%	5.7%	4.3%	4.9%	7.1%	5.4%	4.4%	10%

BRAZOS RIVER BASIN  
08098000 Deer Creek at Chilton, Texas

LOCATION: Lat 31°16', long 97°04', Falls County, 75 ft (22.9 m) downstream from the San Antonio and Arkansas Pass Railway Co. bridge, and 0.8 mi (1.3 km) south of Chilton.

DRAINAGE AREA: 81.8 mi<sup>2</sup> (211.9 km<sup>2</sup>).

PERIOD OF RECORD: April 1934 to September 1936.

GAGE: Water-stage recorder. Datum of gage is 372.6 ft (113.6 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1934-36): Maximum discharge, 16,000 ft<sup>3</sup>/s (453.1 m<sup>3</sup>/s) December 6, 1935 (gage height, 16.46 ft or 5.0 m); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1934	-	-	-	4940	187	0	0	0	0	0	3360	82.0	-
1935	28.0	2630	351	1150	15030	11640	704	38.0	2320	653	786	14680	50010
1936	941	496	282	1260	4280	443	3460	16.0	1930	-	-	-	-
MAX	941	2630	351	4940	15030	11640	3460	38.0	2320	653	3360	14680	50010
MIN	28.0	496	282	1150	187	0	0	0	0	0	786	82.0	50010
MEAN	485	1563	317	2450	6499	4028	1388	18.0	1417	327	2073	7381	27946
NO.	2	2	2	3	3	3	3	3	3	2	2	2	1
DISTR OF MEAN	1.7%	5.6%	1.1%	8.8%	23.3%	14.4%	5.0%	.1%	5.1%	1.2%	7.4%	26.4%	100%

**BRAZOS RIVER BASIN**  
**08098290 Brazos River near Highbank, Texas**

**LOCATION:** Lat 31°08'02", long 96°49'29", Falls County, 45 ft (14 m) downstream from the bridge on Farm Road 413, 1.4 mi (2.3 km) downstream from Highbank Slough and Spring Branch, and 2.6 mi (4.2 km) south of Highbank.

**DRAINAGE AREA:** 30,436 mi<sup>2</sup> (78,829.2 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

**PERIOD OF RECORD:** October 1965 to December 1975.

**GAGE:** Water-stage recorder. Datum of gage is 279.29 ft (85.128 m) above mean sea level, datum of 1929.

**AVERAGE DISCHARGE:** 11 years, 2,008,537 ac-ft/yr (2,476.5 hm<sup>3</sup>/yr).

**EXTREMES:** Period of record (1965-75): Maximum discharge, 57,900 ft<sup>3</sup>/s (1,640 m<sup>3</sup>/s) May 11, 1968 (gage height, 21.88 ft or 6.669 m); minimum, 71 ft<sup>3</sup>/s (2.01 m<sup>3</sup>/s) Mar. 10, 19, 20, 26, 27, and 30, 1971.

Maximum stage since at least 1909, 42 ft (12.8 m) in December 1913, from information by local residents.

**REMARKS:** Records good. There are many diversions for municipal water supply, irrigation, and industrial uses above the gage. The flow is affected by 20 major reservoirs with a combined capacity of 4,181,000 ac-ft (5,155.2 hm<sup>3</sup>), of which 2,194,000 ac-ft (2,705.2 hm<sup>3</sup>) is for flood control.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	41490	130000	73300	-
1966	57890	98130	81730	432800	982000	81350	49810	105800	587000	122100	44810	47840	2691260
1967	26390	13950	14870	70260	71740	152100	76480	77060	43120	60240	135200	106200	847630
1968	418000	275700	570900	366100	1174000	242300	280200	54600	50480	58870	53120	82240	3626510
1969	38110	43830	143700	274200	947400	254300	126000	51580	71570	39260	71370	87070	2148390
1970	128200	109200	660900	203700	135900	94350	42050	74170	45870	62960	16930	13930	1588160
1971	35370	7550	5210	24690	21390	31390	71700	60900	62420	290300	217600	425600	1254120
1972	248200	65920	34340	35560	75340	50760	90500	53980	47400	44020	103000	91990	941010
1973	139000	82220	321300	582900	290000	670100	158100	96850	34530	266600	91490	61170	2794260
1974	72110	45650	78780	56660	61150	33720	53800	59350	242800	80610	1074000	167300	2025930
1975	164300	522500	152100	305800	423500	414700	85910	78990	43570	30700	37140	53350	2312560
MAX	418000	522500	660900	582900	1174000	670100	280200	105800	587000	290300	1074000	425600	3626510
MIN	26390	7550	5210	24690	21390	31390	42050	51580	34530	30700	16930	13930	847630
MEAN	132757	126465	206383	235269	418242	202507	103455	71328	122876	99741	179515	109999	2008537
NO.	10	10	10	10	10	10	10	10	10	11	11	11	10
DISTR OF MEAN	6.6%	6.3%	10.3%	11.7%	20.8%	10.1%	5.2%	3.6%	6.1%	5.0%	8.9%	5.5%	100%

BRAZOS RIVER BASIN

08098300 Little Pond Creek at Burlington, Texas

LOCATION: Lat 31°01'35", long 96°59'17", Milam County, at the bridge on U.S. Highway 77, 1.0 mi (1.6 km) north of Burlington, and 2.5 mi (4.0 km) downstream from Keys Creek.

DRAINAGE AREA: 23.0 mi<sup>2</sup> (59.6 km<sup>2</sup>).

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 388.51 ft (118.418 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 9,183 ac-ft/yr (11.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 8,570 ft<sup>3</sup>/s (243 m<sup>3</sup>/s) May 24, 1975 (gage height, 16.90 ft or 5.151 m); no flow for many days each year.

Maximum stage since at least 1938, 17.5 ft (5.33 m) in 1950, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	5.40	610	55.0	-
1963	5.00	186	1.20	8.90	0	0	0	0	0	0	0	20	201
1964	1.00	1.00	16.0	13.0	36.0	0	0	0	1100	1.20	14.0	0	1182
1965	3050	2070	52.0	644	10600	102	15.0	29.0	162	4.90	807	8.77	18413
1966	169	1120	49.0	3550	1880	0	0	696	1160	1.10	0	44.0	8668
1967	0	0	66.0	4.80	1340	3.70	0	0	114	419	2180	1000	5127
1968	5670	272	847	109	3330	6200	1770	0	17.0	0	592	6.04	19411
1969	7.00	810	970	4120	68.0	0	0	2.90	0	658	32.0	1480	8148
1970	620	1080	1980	414	208	5.50	0	0	483	459	0	0	5250
1971	0	235	40	39.0	1680	1.10	0	0	0	0	904	18.70	4728
1972	200	4.00	3.00	7.00	340	0	52.0	0	129	3370	397	7.96	5298
1973	2330	319	1590	216	1600	1030	351	50	134	6540	1770	51.0	15932
1974	1210	55.0	7.00	1.50	456	0	0	0	4640	1030	5400	4.27	13227
1975	207	2950	11.0	893	10780	499	30.0	53.0	0	4.40	6.80	4.80	15435
MAX	5670	2950	1980	4120	10780	6200	1770	696	4640	6540	5400	18.70	19411
MIN	0	0	40	1.50	0	0	0	0	0	0	0	0	201
MEAN	1036	700	430	771	2486	603	171	60.1	611	892	908	5.15	9183
NO.	13	13	13	13	13	13	13	13	13	14	14	14	13
DISTR													
OF MEAN	11.3%	7.6%	4.7%	8.4%	27.1%	6.6%	1.9%	7%	6.7%	9.7%	9.9%	5.6%	100%



BRAZOS RIVER BASIN

08099000 Leon Reservoir near Ranger, Texas

LOCATION: Lat 32°21'46", long 98°40'32", Eastland County, at the outlet works near the center of the dam on the Leon River, 7.4 mi (11.9 km) south of Ranger, and 8.7 mi (14.0 km) southeast of Eastland.

DRAINAGE AREA: 259 mi<sup>2</sup> (670.8 km<sup>2</sup>).

PERIOD OF RECORD: January 1955 to December 1975.

GAGE: Nonrecording gage. Datum of gage is at mean sea level.

EXTREMES: Period of record (1955-75): Maximum contents, 40,640 ac-ft (50.1 hm<sup>3</sup>) June 13, 1967 (elevation, 1,382.2 ft or 421.29 m); minimum contents since the first appreciable storage, 15,880 ac-ft (19.6 hm<sup>3</sup>) Jan. 11-21, Feb. 5-7, and Apr. 29, 30, 1956 (elevation, 1,366.2 ft or 416.42 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 3,700 ft (1,130 m) long, with a capacity of 27,290 ac-ft (33.6 hm<sup>3</sup>). Storage began in April 1954 and the dam was completed in June 1954. The emergency spillway is a 1,200-foot wide (366-m) cut through natural ground near the left end of the dam. The service spillway is an uncontrolled circular concrete drop inlet designed for a maximum discharge of 6,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) through an 11-foot diameter (3-m) concrete conduit. The dam is the property of the Eastland County Water Supply District and was built to impound water for municipal use by the Cities of Ranger, Olden, and Eastland.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1955	1060	1110	1050	1000	14840	19390	18910	17980	17640	16960	16310	15980
1956	15980	16740	16420	15880	25440	24260	22990	21640	20750	20240	20000	21260
1957	21000	21000	20750	26520	28430	26980	25900	24700	23980	27290	27780	27450
1958	27290	27290	27450	27290	27450	27140	26980	26200	25900	25300	25000	24700
1959	24260	24120	23700	23270	22850	26200	26360	25440	24410	26980	26520	26520
1960	27450	27290	26980	27780	27450	26520	25590	25000	24120	23700	22990	22850
1961	26670	27290	27140	26520	25590	27290	27140	25900	25300	25150	25000	24700
1962	24410	24120	23700	23560	22580	22850	27620	26200	27140	27290	26980	26820
1963	26520	26200	25900	25300	30450	27140	25740	25150	24560	23980	26360	26050
1964	26050	27290	27140	27140	26050	25150	23410	23270	27290	26200	27290	26670
1965	26360	27290	26980	26520	27450	26820	25590	24410	24120	25440	25300	24850
1966	24850	24850	24260	31330	27290	27450	26200	25740	26820	26360	25900	25440
1967	24850	24560	24260	24260	26050	27290	26520	25300	25300	24850	24410	24260
1968	27780	28100	27620	27450	27450	27290	26520	26200	25590	24560	24560	24260
1969	24260	24260	27620	27940	27450	26980	25590	26050	26050	27450	27140	28920
1970	27290	28270	27620	27780	27620	26670	25300	24410	23840	23410	22720	22310
1971	21910	21640	21130	20370	29770	27140	26050	26980	27290	27290	26670	27140
1972	26820	26520	26050	26050	25740	25000	23560	22580	22050	22310	21910	21640
1973	22450	22990	22990	27450	26980	26360	25590	24410	24120	27290	26820	26050
1974	25740	25440	25300	24850	24560	23410	21780	21380	23130	27450	27290	27140
1975	27290	27450	27290	27290	28430	26980	26670	25740	25300	23980	23270	22990
MAX	27780	28270	27620	31330	30450	27450	27620	26980	27290	27450	27780	28920
MIN	1060	1110	1050	1000	14840	19390	18910	17980	17640	16960	16310	15980
MEAN	23823	23991	23874	24550	26187	25920	25239	24509	24510	24928	24772	24667
NO.	21	21	21	21	21	21	21	21	21	21	21	21
DISTR												
OF MEAN	8.0%	8.1%	8.0%	8.3%	8.8%	8.7%	8.5%	8.3%	8.3%	8.4%	8.3%	8.3%

BRAZOS RIVER BASIN

08099100 Leon River near De Leon, Texas

LOCATION: Lat 32° 10' 25", long 98° 31' 58"; Comanche County, at the bridge on State Highway 16, 1.5 mi (2.4 km) upstream from Flat Creek, 4.4 mi (7.1 km) northeast of De Leon, and 6 mi (10 km) downstream from Hog Creek.

DRAINAGE AREA: 479 mi<sup>2</sup> (1,240.6 km<sup>2</sup>).

PERIOD OF RECORD: September 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,209.93 ft (368.787 m) above mean sea level, datum of 1929. Prior to Nov. 22, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 16 years, 37,671 ac-ft/yr (46.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 7,540 ft<sup>3</sup>/s (214 m<sup>3</sup>/s) Jan. 21, 1968 (gage height, 15.50 ft or 4.724 m); no flow for many days.

A stage of 19.3 ft (5.88 m) occurred in May 1908 at a point 2,000 ft (610 m) downstream from the gage site and is the highest since that time, from information by a local resident.

REMARKS: Records good. The flow is partly regulated by Leon Reservoir (station 08099000). There are numerous diversions above the station for municipal water supply, steam powerplant operation, and other uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	2.80	0	0	0	-
1961	3710	5960	711	220	404	8170	6240	25.0	3.20	173	280	241	26137
1962	131	118	147	320	17.0	1050	8280	416	16130	3360	293	360	30622
1963	203	161	196	1890	21840	6150	41.0	419	252	0	586	47.0	31785
1964	454	2130	928	589	110	0	0	215	9190	251	9330	507	23704
1965	2200	1670	600	510	46850	1280	90.0	0	44.0	777	46.0	68.0	54135
1966	98.0	264	97.0	5380	24280	10470	154	77.0	1080	11.0	36.0	63.0	42010
1967	77.0	68.0	143	563	744	37610	250	1.00	141	.80	53.0	66.0	39717
1968	61800	6100	31720	7460	10650	10430	1510	579	6.90	0	111	214	130581
1969	155	273	8700	41530	15680	1780	482	1330	128	1270	419	4290	76037
1970	3400	5000	15070	2720	3760	1500	.30	0	670	249	102	102	32573
1971	106	100	98.0	106	1350	130	516	4200	1590	5250	592	2550	16588
1972	948	643	473	721	1110	42.0	181	23.0	0	606	151	72.0	4970
1973	812	1290	809	9040	1480	763	1600	104	0	3990	186	171	20245
1974	202	181	205	229	83.0	0	0	200	1670	3690	9000	593	16053
1975	841	10630	1290	6580	3810	1370	428	16.0	0	0	0	1.20	24966
MAX	61800	10630	31720	41530	46850	37610	8280	4200	16130	5250	9330	4290	130581
MIN	77.0	68.0	97.0	106	17.0	0	0	0	0	0	0	0	4970
MEAN	5009	2306	4079	5191	8811	5383	1318	507	1932	1227	1324	584	37671
NO.	15	15	15	15	15	15	15	15	16	16	16	16	15
DIS TR													
OF MEAN	13.3%	6.1%	10.8%	13.8%	23.4%	14.3%	3.5%	1.3%	5.1%	3.3%	3.5%	1.6%	100%

BRAZOS RIVER BASIN

08099300 Sabana River near De Leon, Texas

LOCATION: Lat 32°08'50", long 98°36'19", Comanche County, at the bridge on Farm Road 587, 0.8 mi (1.0 km) downstream from Spring Branch, 4.0 mi (6.4 km) west of De Leon, and 4.2 mi (6.8 km) upstream from Turkey Creek.

DRAINAGE AREA: 264 mi<sup>2</sup> (683.8 km<sup>2</sup>).

PERIOD OF RECORD: September 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,209.59 ft (368.683 m) above mean sea level, datum of 1929. Prior to Nov. 22, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 16 years, 27,815 ac-ft/yr (34.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 10,800 ft<sup>3</sup>/s (306 m<sup>3</sup>/s) June 12, 1967 (gage height, 22.05 ft or 6.721 m); no flow at times.

Maximum stage since at least 1890, 24 ft (7.3 m) in May 1908, from information by a local resident.

REMARKS: Records fair. The flow is slightly regulated by Nabors Lake (capacity unknown) on Spring Branch.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	12.0	528	34.0	103	-
1961	634.0	364.0	106.0	48.3	72.3	563.0	610.0	83.0	49.0	94.0	31.5	1.21	24638
1962	111	122	107	212	6.90	154.0	695.0	71.0	2385.0	302.0	398	4.12	36800
1963	272	219	178	127	2746.0	221.0	151	27.0	14.0	22.0	758	1.01	31539
1964	613	142.0	471	931	82.0	23.0	5.00	164	1889.0	409	1184.0	4.36	35284
1965	2300	132.0	524	326	2646.0	604	32.0	281	36.0	111.0	741	1.33	34479
1966	101	152	112	796.0	1752.0	503.0	165.0	130	229.0	95.0	90.0	1.23	35253
1967	135	130	180	532	730.0	1320.0	227	23.0	311	99.0	142	1.23	22402
1968	3623.0	317.0	1644.0	299.0	1313.0	245.0	86.0	409	8.90	25.0	154	1.97	76064
1969	264	190	420.0	1494.0	661.0	779	48.0	219	504	317.0	399	28.80	34203
1970	126.0	298.0	1058.0	183.0	310.0	489.0	33.0	0	589	21.0	68.0	51.0	25591
1971	101	87.0	55.0	233	800.0	302.0	231.0	546.0	260.0	571.0	435	16.40	29651
1972	545	382	184	152.0	533	115	10.0	42.0	26.0	95.0	38.0	46.0	3536
1973	165	228	248	613.0	293	424	841	58.0	18.0	197.0	91.0	72.0	10538
1974	99.0	99.0	81.0	25.0	64.0	.02	0	173	312.0	471.0	252.0	4.31	11322
1975	656	368.0	335	230.0	226.0	534	909	663	1.10	4.10	23.0	75.0	11440
MAX	3623.0	368.0	1644.0	1494.0	2746.0	1320.0	695.0	546.0	2385.0	571.0	1184.0	28.80	76064
MIN	99.0	87.0	55.0	25.0	6.90	.02	0	0	1.10	4.10	23.0	46.0	3536
MEAN	3279	1188	2317	2703	7569	2697	1361	520	3290	1329	1128	4.34	27815
NO.	15	15	15	15	15	15	15	15	16	16	16	16	15
DISTR OF MEAN	11.8%	4.3%	8.3%	9.7%	27.2%	9.7%	4.9%	1.9%	11.8%	4.8%	4.1%	1.6%	100%

BRAZOS RIVER BASIN

08099400 Proctor Lake near Proctor, Texas

LOCATION: Lat 31°58'07", long 98°29'09", Comanche County, in the intake structure at Proctor Lake on the Leon River, 2.0 mi (3.2 km) upstream from the bridge on U.S. Highways 67 and 377, and 3.5 mi (5.6 km) west of Proctor.

DRAINAGE AREA: 1,259 mi<sup>2</sup> (3,260.8 km<sup>2</sup>).

PERIOD OF RECORD: January 1963 to December 1975. Prior to October 1970, published as "Proctor Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 28, 1963, nonrecording gage at same site and datum.

EXTREMES: Period of record (1963-75): Maximum contents, 137,500 ac-ft (169.5 hm<sup>3</sup>) Jan. 26, 1968 (elevation, 1,174.84 ft or 358.091 m); minimum contents since the first filling of the lake, 26,620 ac-ft (32.8 hm<sup>3</sup>) Sept. 14, 1967 (elevation, 1,152.82 ft or 351.380 m).

REMARKS: The lake is formed by a reinforced concrete gated structure and rolled earthfill section, total length 13,460 ft (4,103 m), with a capacity of 59,400 ac-ft (73.2 hm<sup>3</sup>). The lake was operated as a detention basin from Jan. 30 to July 5, 1963. The gates were closed on July 6, 1963 but the lake was operated to elevation 1,156.0 ft (352.35 m) until construction was completed. Deliberate impoundment began on Sept. 30, 1963. The spillway is a gated concrete gravity structure located on the left bank, with an ogee weir section and stilling basin. The spillway is controlled by eleven 40.0-by-35.0-foot (12.2-by-10.7-m) tainter gates. The spillway was designed to discharge 431,800 ft<sup>3</sup>/s (12,200 m<sup>3</sup>/s) at an elevation of 1,201.0 ft (366.06 m). The lake is operated for flood control and water conservation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1963	439	687	463	2000	45820	39000	33130	30820	30500	29180	35750	34750
1964	36660	33260	32950	34970	32140	30020	27140	27820	76010	44020	57210	38520
1965	36800	33320	33440	32620	129400	98760	57300	33010	31140	32830	31930	31930
1966	31780	32890	32260	40330	68810	58570	34620	33160	32620	31780	31110	30760
1967	30760	30620	31080	32800	32710	53540	31870	27850	31200	30760	31050	31140
1968	132400	76980	121500	78340	77470	59210	58520	56220	54110	52390	53110	52940
1969	52860	53460	60040	75530	57570	59160	54940	54240	53160	57910	58310	67380
1970	59770	68670	79120	61330	63120	59490	54080	48770	51820	52120	51050	50500
1971	50100	49980	48690	48290	53480	55570	50880	59440	61850	66790	58900	60710
1972	59820	59720	58400	62130	59390	56600	53140	49700	46210	46550	45720	44770
1973	46400	48450	49370	75490	59210	59170	61850	54290	52800	61140	58940	57910
1974	57500	56870	56020	54040	51690	47000	40280	42080	52200	62510	72020	68670
1975	59680	54800	56130	59480	65530	59720	58340	54500	51330	49270	48140	47220
MAX	132400	76980	121500	78340	129400	98760	61850	59440	76010	66790	72020	68670
MIN	439	687	463	2000	32140	30020	27140	27820	30500	29180	31050	30760
MEAN	50382	46131	50728	50565	61257	56601	47392	43992	48073	47481	48711	47477
NO.	13	13	13	13	13	13	13	13	13	13	13	13
DISTR												
OF MEAN	8.4%	7.7%	8.5%	8.4%	10.2%	9.5%	7.9%	7.3%	8.0%	7.9%	8.1%	7.9%

BRAZOS RIVER BASIN

08099500 Leon River near Hasso, Texas

LOCATION: Lat 31°57'28", long 98°27'32". Comanche County, at the bridge on U.S. Highways 67 and 377, 500 ft (150 m) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 0.3 mi (0.5 km) upstream from Walnut Creek, 2.0 mi (3.2 km) downstream from Proctor Lake, and 2.1 mi (3.4 km) northeast of Hasso.

DRAINAGE AREA: 1,261 mi<sup>2</sup> (3,266.0 km<sup>2</sup>).

PERIOD OF RECORD: January 1939 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,115.01 ft (338.855 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 37 years, 101,507 ac-ft/yr (125.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 38,500 ft<sup>3</sup>/s (1,090 m<sup>3</sup>/s) May 24, 1952 (gage height, 21.49 ft or 6.550 m); maximum gage height, 21.72 ft (6.620 m) Oct. 4, 1959; no flow at times.

Maximum stage since at least 1858 occurred in May 1908 from information by a local resident. At a location about 2.5 mi (4.0 km) upstream, the flood of May 1908 was 9.1 ft (2.77 m) higher than the flood of May 24, 1952, from information by a local resident.

REMARKS: Records good. The flow is regulated by Proctor Lake (station 08099400) since October 1963. There are numerous diversions above the station for municipal water supply, steam powerplant operation, and other uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	1900	925	1360	1900	14720	64310	1060	2030	7.10	0	0	28.0	88240
1940	91.0	265	200	8690	2550	33470	2850	4100	603	1.00	32030	20170	105020
1941	6870	81140	185000	23360	151700	20050	5500	64370	6940	13580	3680	3900	399590
1942	2550	1940	1520	116800	61700	29320	3190	1060	46390	66620	6370	4520	341980
1943	3020	2370	10660	4030	7590	2390	80.0	0	1270	3330	192	593	35525
1944	8850	10600	10560	3610	41910	2190	11310	450	3800	1790	1360	1810	98240
1945	3750	15040	40090	50190	8150	7230	13900	802	532	5840	847	1040	147411
1946	6030	12440	3330	2160	9220	7070	794	2410	15120	837	20800	6350	86561
1947	5370	2190	11770	3500	3800	1630	14.0	0	0	3440	89.0	5060	36863
1948	2150	2960	1430	686	6370	3420	4200	12.0	564	0	0	22.0	21814
1949	2470	10970	11750	19720	73150	52460	1060	228	883	7090	590	3150	183521
1950	1290	3310	1170	7170	18950	8820	17470	378	468	.60	6.70	100	59133
1951	143	276	343	313	4870	15490	42.0	0	18.0	586	130	.20	22211
1952	13.0	37.0	61.0	1400	59510	516	2.40	0	332	0	1860	664	64395
1953	136	73.0	284	3690	10820	25.0	4070	4380	68.0	10400	1170	1180	36296
1954	178	154	407	15380	1490	53.0	0	0	65.0	3300	3750	22.0	24799
1955	46.0	1080	607	8300	37730	11430	2040	0	3220	917	0	0	65370
1956	8.30	225	20.0	3380	87060	32.0	110	0	0	0	0	26.80	93515
1957	0	0	121	43010	215600	11600	763	0	0	24590	16950	2830	315464
1958	4530	3380	15440	9050	29590	1790	5650	441	1390	117	195	293	71866
1959	324	432	331	476	1190	11140	15570	367	725	84890	4270	3250	122965
1960	22620	6190	3230	3580	4630	1890	761	571	0	1950	26.0	574	46022
1961	21760	20940	5500	1930	2350	17350	14780	277	16.0	1370	837	1110	88220
1962	837	805	839	1270	166	3330	12800	1050	83390	14800	2120	2120	123527
1963	1550	1130	1070	1180	6800	21430	3740	514	427	351	1100	740	40032
1964	781	8680	2270	7880	2440	601	638	635	13770	38070	23540	20730	120035
1965	11670	13390	2390	2120	5460	32040	40060	21360	453	668	2390	707	132708
1966	602	543	512	598	21950	23080	22420	2570	8040	75.0	32.0	40.0	80462
1967	48.0	54.0	57.0	263	9930	16220	21080	1320	527	86.0	203	179	49967
1968	16300	69190	30680	60260	58630	35370	3520	1320	694	53.0	135	96.0	276248
1969	72.0	89.0	7080	43800	53770	170	1710	1780	453	161	157	1360	110602
1970	14600	3110	32820	28130	10140	10520	1510	2560	552	91.0	112	229	104374
1971	44.0	108	68.0	158	78.0	694	2970	3880	988	7850	8220	5630	30688
1972	2560	1090	351	852	6340	280	1550	1380	1550	199	231	464	16847
1973	237	227	229	4620	16950	2400	1360	3960	792	6860	2140	407	40202
1974	346	293	281	137	447	1660	3160	1670	774	335	6300	5480	20883
1975	11560	21950	511	8620	455	6600	1120	1430	1160	283	134	327	54150
MAX	22620	81140	40090	116800	215600	64310	40060	64370	83390	84890	32030	20730	399590
MIN	0	0	20.0	137	78.0	25.0	0	0	0	0	0	0	16847
MEAN	4197	8043	5888	13303	28330	12380	6023	3441	5297	8123	3837	2645	101507
NO.	37	37	37	37	37	37	37	37	37	37	37	37	37
DISTR													
OF MEAN	4.1%	7.9%	5.8%	13.1%	27.9%	12.2%	5.9%	3.4%	5.2%	8.0%	3.8%	2.6%	100%

BRAZOS RIVER BASIN

08100000 Leon River near Hamilton, Texas

LOCATION: Lat 31°47'18", long 98°07'16", Hamilton County, at the bridge on U.S. Highway 281, 2.2 mi (3.5 km) upstream from Mesquite Creek, 3.6 mi (5.8 km) downstream from Bear Creek, and 5.9 mi (9.5 km) north of Hamilton.

DRAINAGE AREA: 1,891 mi<sup>2</sup> (4,897.7 km<sup>2</sup>).

PERIOD OF RECORD: January 1925 to September 1931, September 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 855.38 ft (261.200 m) above mean sea level, datum of 1929. Jan. 7, 1925 to Sept. 30, 1931, nonrecording gage 1.4 mi (2.3 km) downstream at datum 1.87 ft (0.570 m) higher. Sept. 1 to Nov. 22, 1960, nonrecording gage at same site and 5.00 ft (1.524 m) higher datum. Nov. 22, 1960 to Sept. 30, 1972, recording gage at same site and 5.00 ft (1.524 m) higher datum.

AVERAGE DISCHARGE: 23 years (1925-31, 1960-75), 113,516 ac-ft/yr (140.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1925-31, 1960-75): Maximum discharge, 18,600 ft<sup>3</sup>/s (527 m<sup>3</sup>/s) Sept. 9, 1962 (gage height, 31.93 ft or 9.732 m); no flow at times.

Maximum stage since at least 1858, 38.4 ft (11.70 m) in May 1908 and December 1913, from information by local residents.

REMARKS: Records good. Since 1960, at least 10 percent of the drainage area is regulated by Leon Reservoir (station 08099000) and Proctor Lake (station 08099400). There are numerous diversions above the station for irrigation, municipal water supply, and industrial uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1925	446	516	267	1670	21700	1690	588	1090	1440	9020	7130	520	46077
1926	3120	301	467	50500	20000	19500	16100	998	3210	1640	375	1360	117571
1927	496	1560	3380	6900	14100	10900	2540	322	61.3	8550	124	3760	52693
1928	173	2340	744	1550	32100	35200	12200	12400	4920	148	456	9350	111581
1929	12200	3450	6000	25600	22000	10600	173	0	12700	614	96.0	159	93592
1930	150	216	441	572	28500	750	31.0	3.10	5580	43200	1130	9530	90103
1931	5510	15900	8480	3080	28900	16500	3070	101	67.0	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	97.0	7490	149	5500	-
1961	53530	59600	17830	6600	5850	29190	22430	1350	447	15940	2700	2940	218407
1962	2430	2310	1950	2140	890	2730	8750	2630	73690	15300	3490	2880	119190
1963	2620	1750	1600	1170	13500	25550	5140	393	982	123	3440	809	57077
1964	1070	9940	6740	19650	4800	693	16.0	5020	20970	44240	25810	24940	163889
1965	15380	28550	4830	3520	79050	34530	42540	26210	1590	1250	3560	1080	242090
1966	1070	1860	1380	5240	29520	25610	25450	7500	11160	400	214	288	109692
1967	342	268	345	2180	11640	14670	23540	341	792	2.70	199	288	54608
1968	35880	72640	47000	67060	92440	39200	4920	798	678	119	239	593	361567
1969	498	572	4440	35300	64040	922	449	698	144	2930	2950	5960	118903
1970	18060	8190	61260	40520	18040	15400	457	502	6860	1420	859	1120	172688
1971	827	722	659	425	267	124	4120	3170	1180	22920	12620	22020	69054
1972	11240	4340	2510	1660	10160	336	1140	424	752	145	528	727	33962
1973	1140	2110	3150	11680	19270	2500	1450	1530	220	10480	2720	710	56960
1974	1260	752	589	115	76.0	512	548	874	11250	7420	8690	5650	37736

BRAZOS RIVER BASIN  
08100000 Leon River near Hamilton, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	10930	24370	5180	24210	6340	6450	3080	553	388	58.0	43.0	380	81982
MAX	53530	72640	61260	67060	92440	39200	42540	26210	73690	44240	25810	24940	361567
MIN	150	216	267	115	76.0	124	16.0	0	61.3	2.70	43.0	159	33962
MEAN	8108	11012	8147	14152	23781	13344	8124	3041	6921	8791	3524	4571	113516
NO.	22	22	22	22	22	22	22	22	23	22	22	22	21
DISTR													
OF MEAN	7.1%	9.7%	7.2%	12.5%	20.9%	11.8%	7.2%	2.7%	6.1%	7.7%	3.1%	4.0%	100%

BRAZOS RIVER BASIN

08100500 Leon River at Gatesville, Texas

LOCATION: Lat 31°25'58", long 97°45'42", Coryell County, at a county road bridge, 800 ft (240 m) downstream from the U.S. Highway 84 bridge in Gatesville, 0.3 mi (0.5 km) downstream from Dodds Creek, and 6.2 mi (8.4 km) upstream from Cottonwood Creek.

DRAINAGE AREA: 2,342 mi<sup>2</sup> (6,065.8 km<sup>2</sup>).

PERIOD OF RECORD: October 1950 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 723.85 ft (220.629 m) above mean sea level, datum of 1928. Oct. 1, 1950 to Feb. 8, 1951, nonrecording gage; Feb. 9, 1951 to Jan. 21, 1969, water-stage recorder; all at site 800 ft (240 m) upstream at same datum.

AVERAGE DISCHARGE: 26 years, 196,326 ac-ft/yr (242.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1950-75): Maximum discharge, 51,200 ft<sup>3</sup>/s (1,450 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 34.14 ft or 10.406 m); no flow at times in 1951-52, 1954-55, and 1971.

Maximum stage since at least 1854, 35 ft (10.7 m) in May 1908, from information by local residents.

REMARKS: Records good. There is some upstream regulation by Leon Reservoir (station 08089000) and Proctor Lake (station 08099400). There are numerous diversions above the station for irrigation, municipal water supply, and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	-	-	-	-	-	-	-	-	-	147	77.0	161	-
1951	318	696	682	974	6810	20830	125	14.0	5.60	1.80	14.0	12.0	30482
1952	32.0	21.0	26.0	9530	49930	3190	3450	17.0	13.0	13.0	7070	3310	76602
1953	2180	504	7330	4470	49260	613	5770	3450	2180	13890	1860	1200	92707
1954	466	339	249	11840	4620	105	4.20	0	0	3780	5370	19.0	26792
1955	31.0	3400	1110	8340	53050	24220	5120	167	17950	8540	135	75.0	122138
1956	134	623	107	2250	97350	1440	40.0	793	21.0	12.0	601	4050	107421
1957	304	261	4460	120800	382700	54880	4810	1120	664	50320	37190	13800	671309
1958	15020	24630	43740	17210	95370	6710	5200	1050	1420	1100	781	1050	213281
1959	1230	1850	957	1290	2260	18430	19610	1730	1560	249300	14700	18750	331667
1960	76610	31550	16910	9150	9250	4060	2260	1410	494	12470	1220	27370	192754
1961	99870	97520	31590	10870	9190	53430	50440	4510	2480	64320	17030	13270	454520
1962	7500	5260	4710	4860	2610	6870	5050	6640	65260	15820	5920	5230	135730
1963	3300	2670	3260	2060	12800	25310	7250	228	1150	44.0	2560	1080	61712
1964	1060	9900	8900	19030	7650	7580	61.0	10000	31750	43910	41250	25360	206451
1965	20820	59960	11360	6690	189200	43820	42180	27290	5740	3500	30300	4770	445630
1966	3620	7220	5360	34080	41400	32670	25440	12590	17800	2040	1220	1110	184550
1967	1100	1040	1100	6190	12090	14160	30080	728	1080	319	242	417	68546
1968	57290	85960	83250	86980	135500	55290	10900	1910	1200	808	860	1520	521468
1969	1510	1470	4220	42570	84840	2500	302	1210	518	5240	6660	9760	160800
1970	23520	17640	100100	54030	26530	21870	1040	328	12670	3470	1540	1770	264508
1971	1460	1260	1220	1390	1200	141	23370	6130	1680	38290	17000	44360	137501
1972	19940	8790	5110	2440	13500	1640	1600	385	1350	1550	923	990	58218
1973	3200	5050	8790	18870	26950	13730	8090	1900	487	12960	4390	1370	105787
1974	2060	1510	1360	506	582	410	41.0	2330	24980	18710	21640	11680	85809
1975	17180	56200	11850	53970	27300	9860	6850	2690	920	529	386	735	188470
MAX	99870	97520	100100	120800	382700	55290	50440	27290	65260	249300	41250	44360	671309
MIN	31.0	21.0	26.0	506	582	105	4.20	0	0	1.80	14.0	12.0	26792
MEAN	14390	17013	14310	21216	53678	16950	10363	3545	7735	21196	8498	7432	196326
NO.	25	25	25	25	25	25	25	25	25	26	26	26	25
DISTR													
OF MEAN	7.3%	8.7%	7.3%	10.8%	27.3%	8.6%	5.3%	1.8%	3.9%	10.8%	4.3%	3.8%	100%



BRAZOS RIVER BASIN  
08101000 Cowhouse Creek at Pidcoke, Texas

LOCATION: Lat 31°17'05", long 97°53'05", Coryell County, 125 ft (38 m) downstream from the bridge on Farm Road 116, 0.1 mi (0.2 km) downstream from Beehouse Creek, 0.6 mi (1.0 km) northeast of Pidcoke, and 4.9 mi (7.9 km) upstream from Table Rock Creek.

DRAINAGE AREA: 455 mi<sup>2</sup> (1,178 km<sup>2</sup>).

PERIOD OF RECORD: October 1950 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 736.71 ft (224.549 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 26 years, 68,055 ac-ft/yr (83.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1950-75): Maximum discharge, 66,200 ft<sup>3</sup>/s (1,870 m<sup>3</sup>/s) Oct. 4, 1959 (gage height, 40.1 ft or 12.22 m, from floodmark); no flow at times.

Maximum stage since at least 1882, that of Oct. 4, 1959, from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	-	-	-	-	-	-	-	-	-	45.0	11.0	27.0	-
1951	35.0	76.0	49.0	261	181	3410	1.00	0	6.30	0	0	0	4019
1952	0	0	.60	4900	14710	383	299	0	0	0	3550	2720	26563
1953	816	429	6430	3690	23090	140	1550	45.0	1010	572	44.0	35.0	37851
1954	40.0	9.7	.60	149	1010	9.7	0	0	93.0	533	1360	9.5	3214
1955	3.20	1910	1510	3490	19230	4660	492	2510	3640	2850	0	9.5	40305
1956	32.0	88.0	2.80	0	40040	4.40	0	1900	0	.20	754	1.82	43003
1957	16.0	32.0	4270	61440	85790	5980	686	142	67.0	22580	10200	4860	196063
1958	4130	18390	14840	7680	17070	2410	617	315	260	159	144	1.52	66167
1959	151	447	140	417	409	5790	400	1940	1220	87060	3410	9320	110704
1960	25310	12470	7520	3820	1740	595	282	96.0	125	13620	1560	24870	92008
1961	47150	41880	16750	4970	2610	22240	15790	1560	681	18740	5290	3800	181461
1962	2360	1590	1260	1510	561	2630	450	2.00	20.0	2900	466	1850	15599
1963	292	264	1520	473	1910	1370	8.10	0	0	0	87.0	0	5924
1964	15.0	386	3230	3540	2210	2700	11.0	9090	17250	1000	9940	1470	50842
1965	3680	22810	5470	3330	130100	6750	1270	1290	4930	2430	25310	5870	213240
1966	3570	5250	4650	18400	7950	2170	547	14760	8670	1910	922	726	69525
1967	541	391	330	1360	631	53.0	269	.60	25.0	4.10	5.70	60.0	3670
1968	31260	6480	26840	14990	29690	5830	2860	722	356	135	165	2.72	119600
1969	200	446	815	7320	14270	651	14.0	36.0	6.40	6250	3770	6850	40628
1970	5100	8960	39160	14550	10600	7760	640	109	25780	3130	1180	1080	118049
1971	885	1010	645	1060	776	397	19540	1920	2050	17690	3940	17100	67013
1972	8280	3930	2050	1110	5580	1310	73.0	18.0	45.0	1040	129	70.0	23635
1973	707	1740	3880	8660	5640	8460	3610	238	315	7670	1570	1180	43670
1974	1410	1050	794	295	215	334	0	1330	13070	14470	9940	4680	47588
1975	4880	28920	5740	24760	20560	6210	2740	981	241	121	121	146	95420
MAX	47150	41880	39160	61440	130100	22240	19540	14760	25780	87060	25310	24870	213240
MIN	0	0	.60	0	181	4.40	0	0	0	0	0	0	3214
MEAN	5635	6358	5916	7687	17463	3690	2086	1560	3194	7881	3226	3359	68055
NO. OF MEAN	25	25	25	25	25	25	25	25	25	26	26	26	25
DISTR OF MEAN	8.3%	9.3%	6.7%	11.3%	25.7%	5.4%	3.1%	2.3%	4.7%	11.6%	4.7%	4.9%	100%

**BRAZOS RIVER BASIN**  
08101500 Cowhouse Creek near Killeen, Texas

LOCATION: Lat 31°12', long 97°43', Coryell County, at Potters Bridge, 3.8 mi (6.1 km) downstream from House Creek, and 6.0 mi (9.6 km) north of Killeen.

DRAINAGE AREA: 650 mi<sup>2</sup> (1,683.5 km<sup>2</sup>).

PERIOD OF RECORD: October 1924 to August 1925, March 1939 to July 1942.

GAGE: Water-stage recorder and concrete control. Datum of gage is 600.0 ft (182.9 m) above mean sea level, datum of 1929. Prior to August 31, 1925, chain gage at same site and datum.

AVERAGE DISCHARGE: 6 years, 114,799 ac-ft/yr (141.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-25, 1939-42): Maximum gage height, 30.5 ft (9.3 m) April 30, 1942, from floodmark (discharge not determined); no flow at times.

Maximum stage known, 34.0 ft (10.4 m) in 1900, from information by a local resident.

REMARKS: Records fair, No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	-	-	34.1	63.9	112	-
1925	91.4	66.2	64.7	299	3520	220	0	966	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	2880	2560	21480	1680	415	2880	39.0	2030	57.0	81.0	-
1940	80.0	243	84.0	5430	741	32230	8690	1510	277	2230	37010	50930	139455
1941	21100	56250	47670	31570	62750	27300	11460	2210	667	12770	3530	2820	280097
1942	1700	1490	1320	-	-	24820	2760	-	-	-	-	-	-
MAX	21100	56250	47670	31570	62750	32230	11460	2880	667	12770	37010	50930	280097
MIN	80.0	66.2	64.7	299	741	220	0	966	39.0	34.1	57.0	81.0	139455
MEAN	5743	14512	10404	9965	22123	17250	4665	1892	328	4266	10165	13486	114799
NO.	4	4	5	4	4	5	5	4	3	4	4	4	2
DISTR													
OF MEAN	5.0%	12.6%	9.1%	8.7%	19.3%	15.0%	4.1%	1.6%	.3%	3.7%	8.9%	11.7%	100%

**BRAZOS RIVER BASIN**  
**08102000 Belton Lake near Belton, Texas**

LOCATION: Lat 31°06'22", long 97°28'28", Bell County, in the intake structure at Belton Dam on the Leon River, 1.6 mi (2.6 km) upstream from the bridge on State Highway 317, 3.5 mi (5.6 km) north of Belton, and 8.9 mi (14.3 km) upstream from Nolan Creek.

DRAINAGE AREA: 3,531 mi<sup>2</sup> (9,145.3 km<sup>2</sup>).

PERIOD OF RECORD: March 1954 to December 1975. Prior to October 1970, published as "Belton Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Feb. 20, 1955, nonrecording gage at present site and datum.

EXTREMES: Period of record (1954-75): Maximum contents, 870,300 ac-ft (1,073.1 hm<sup>3</sup>) June 6, 1957 (elevation, 620.45 ft or 189.113 m); minimum contents since the initial filling, 113,400 ac-ft (139.8 hm<sup>3</sup>) Dec. 16, 1956 (elevation, 553.06 ft or 168.573 m).

REMARKS: The lake is formed by a rolled earthfill dam 5,524 ft (1,684 m) long, including a 1,300-foot (396-m) uncontrolled broadcrested spillway in a saddle near the left end of the dam and a 418-foot long (127-m) dike. The lake has a capacity of 457,600 ac-ft (564.2 hm<sup>3</sup>). Deliberate impoundment began on Mar. 8, 1954 and the dam was completed in December 1954. The lake was built for flood control and conservation storage. The controlled outlet works consist of a 22.0-foot diameter (6.7-m) conduit that is controlled by three 7.0- by 22.0-foot (2.1- by 6.7-m) broome-type gates. The service outlet consists of one 36- by 36-inch (914- by 914-millimeter) gated outlet that discharges into the flood-control conduit. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1954	-	-	711	7430	13760	12440	10700	9090	8030	9260	14530	13890
1955	13510	21840	24500	45650	118600	149700	151300	152200	169400	174500	171300	169200
1956	169600	170900	168300	167600	211900	205500	198100	193000	186800	182300	132800	117500
1957	117900	119000	138500	453700	838200	589700	243900	206100	206900	215100	207900	211000
1958	210200	301600	208900	221300	208600	207700	208300	205700	206600	206300	205600	205600
1959	205900	209900	209100	210000	210800	223200	209500	217200	211900	344600	206300	210600
1960	224300	208700	206200	210800	205700	208700	209300	205600	201700	224400	212500	211800
1961	278900	354600	225600	204200	206600	253600	254500	204500	204600	208900	209900	205600
1962	204500	206400	205900	212100	211600	210200	201900	203100	211000	210600	212000	211000
1963	204000	206400	203700	204100	201700	204200	199800	193200	189800	185500	188600	188100
1964	191900	203200	211500	226200	210800	234500	205900	211600	257300	215200	213400	210700
1965	214100	279600	233200	213100	697700	451400	311300	210500	208800	211400	211300	211700
1966	211300	214900	213400	281700	261600	211000	210600	213600	218600	211000	210100	210000
1967	210200	209500	208500	186200	187900	187000	186300	169900	174200	173600	177600	179900
1968	341000	317400	323000	254300	297100	212600	207500	206400	207700	206000	208600	212100
1969	210200	207800	212600	242600	239400	205900	189500	187000	184000	191700	203200	209900
1970	209100	228700	311900	265500	227900	211600	206800	200500	213400	214300	210200	209900
1971	209300	208800	206000	191000	182300	144800	243900	241900	238600	261200	266600	308500
1972	310700	325900	324800	320700	328200	327200	326500	320700	315800	323400	326300	327400
1973	341900	358700	393700	438100	460200	446900	449600	438900	439100	453800	447700	447100
1974	445800	447100	447000	444800	445400	425100	407100	433400	502300	563200	610500	557600
1975	448500	490000	448100	450100	513400	457100	444500	443000	438400	433400	428400	427800
MAX	448500	490000	448100	453700	838200	589700	449600	443000	502300	563200	610500	557600
MIN	13510	21840	711	7430	13760	12440	10700	9090	8030	9260	14530	13890
MEAN	236800	251950	232960	247781	294516	262729	239855	230322	236133	246348	239788	238950
NO.	21	21	22	22	22	22	22	22	22	22	22	22
DISTR												
OF MEAN	8.0%	8.5%	7.9%	8.4%	10.0%	8.9%	8.1%	7.8%	8.0%	8.3%	8.1%	8.1%

BRAZOS RIVER BASIN

08102500 Leon River near Belton, Texas

LOCATION: Lat 31°04'12", long 97°26'28", Bell County, 1,400 ft (427 m) upstream from the bridge on Farm Road 817, 2,000 ft (610 m) upstream from a concrete dam, 1.0 mi (1.6 km) upstream from the bridge on U.S. Highway 81, 2.0 mi (3.2 km) northeast of Belton, 3.2 mi (5.1 km) downstream from Belton Dam, and 5.0 mi (8.0 km) upstream from Nolan Creek.

DRAINAGE AREA: 3,542 mi<sup>2</sup> (9,173.8 km<sup>2</sup>).

PERIOD OF RECORD: October 1923 to December 1975.

GAGE: Water-stage recorder above concrete dam. Datum of gage is 476.68 ft (145.292 m) above mean sea level, datum of 1929. Prior to May 21, 1931, nonrecording gage.

AVERAGE DISCHARGE: 53 years, 451,476 ac-ft/yr (556.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-75): Maximum discharge, 56,500 ft<sup>3</sup>/s (1,600 m<sup>3</sup>/s) Apr. 22, 1945 (gage height, 24.41 ft or 7.440 m); no flow at times.

Flood in December 1913 reached a stage of 25 ft (7.6 m), from information by local residents.

REMARKS: Records good. The flow is regulated by Belton Lake (station 08102000) since Mar. 8, 1954.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	10500	33600	55600	-
1924	10800	23200	60500	48900	54500	30700	1880	476	3640	550	903	1770	257819
1925	2000	1320	616	308	28000	712	398	1160	10300	28700	50000	2370	125884
1926	20000	6400	54200	196000	66400	37400	42000	4100	2570	5620	1790	4560	441060
1927	3540	39300	25500	56100	39200	97300	10900	1630	1070	57400	8270	8610	348820
1928	4020	19000	10300	9940	25300	64300	4640	15700	4090	434	425	5740	163889
1929	11300	3600	14200	34800	73800	29000	1320	197	33800	1580	1540	959	206096
1930	1790	2140	3070	1810	126000	7140	2010	2910	5510	123000	9520	52400	337300
1931	49700	81100	53900	30800	54500	38800	14300	3540	4360	22200	2310	12000	367510
1932	58600	128000	78100	29900	170000	97600	23900	9960	39500	3220	2050	4530	645360
1933	19100	9280	21100	30500	87300	20900	9350	1970	2760	1840	1510	750	206360
1934	15300	6890	35500	105000	24500	2050	460	0	0	0	18870	1290	209860
1935	5750	21670	5140	13270	246700	120900	17630	5520	131700	48200	40180	81820	738480
1936	19590	11360	9350	15130	187500	69580	25390	3990	196800	175400	68650	159100	941840
1937	93990	53140	77100	33410	13110	66840	54010	4660	7030	13160	3220	72140	491810
1938	183600	159940	58810	120200	107300	57850	153800	54530	7470	3850	3160	4000	913970
1939	14110	11270	11370	12220	83240	45540	10180	9010	1120	2250	1130	1230	202670
1940	1110	1780	1110	30040	7070	99530	48050	8690	1990	5630	179000	212500	596500
1941	85560	247600	218000	131800	416100	160000	83960	52770	41810	59340	18670	15090	1530700
1942	10920	9650	8150	289600	267100	187800	22340	27790	185000	147160	49130	29660	1234240
1943	22500	14640	20980	31560	21020	8860	3550	912	8360	7880	2690	4730	147682
1944	47870	118100	108500	68620	538200	107900	21150	8710	10600	9610	8440	32820	1080520
1945	110100	111600	195500	400800	81530	64300	35900	7440	10380	43170	16340	39470	1116630
1946	48210	83190	155400	43960	146700	48430	9810	3050	26230	7010	26880	28640	627490
1947	65540	25340	89180	42750	57210	11970	5000	1790	1190	687	3720	8200	312577
1948	3350	20090	11420	7630	29860	10810	17180	1160	8000	1200	0	5300	109565
1949	2030	4960	63650	84290	74740	54940	11020	1800	863	6810	3960	2860	312123
1950	1920	11700	2680	13260	42050	24530	24130	1290	31110	355	4800	903	153039
1951	342	785	1330	2010	16120	28410	218	0	1940	3200	0	0	51187
1952	0	0	723	27900	67460	10240	2940	0	0	0	7600	18100	134963
1953	5940	1380	17390	10560	159100	3300	10900	4830	3450	21650	5510	2860	246870
1954	1750	1060	284	101	5300	3020	1600	114	1500	185	6400	4100	3686
1955	154	499	157	348	523	342	304	467	326	268	228	371	3987
1956	501	421	405	274	80650	3450	813	1300	661	1330	53390	19760	162955
1957	165	198	293	8580	241500	357100	386600	41140	1590	114200	82850	27870	1262086
1958	28230	26960	187800	40340	192800	23020	1150	485	489	581	381	430	502666
1959	396	534	496	2140	2000	34920	39670	2030	10310	240900	182000	68810	584206
1960	140100	98530	43240	20080	18960	316	500	1850	1030	33780	22270	118300	498956
1961	182200	161200	221400	51270	12300	48950	99790	62570	10490	74870	27870	27450	980360
1962	13680	7780	7490	6790	6970	15350	7600	365	45640	21730	4200	11850	149445
1963	10530	730	6390	1980	12010	19690	8450	220	382	402	430	396	61610
1964	387	1080	8820	31330	33170	63350	25220	8110	8230	94070	65490	32390	371647
1965	35870	50070	103800	47320	20760	341300	195000	135400	18330	7040	82510	24760	1062180
1966	15880	24090	25010	10810	102800	93800	19940	41320	70310	15210	3250	1860	424220
1967	1310	1130	1130	30520	15320	7650	21520	11830	1210	576	202	169	92587
1968	1160	139800	147000	209600	190500	178800	55630	1560	363	171	114	267	924985
1969	3830	7910	8090	68290	128400	37970	9770	1300	263	411	819	17830	284883
1970	36350	22610	121600	143100	103400	61910	671	555	18550	5080	3720	1320	518866
1971	1070	783	1150	16480	16080	33480	8150	18350	5850	38970	20500	35690	196553
1972	38710	3860	7650	4530	14020	1000	1020	861	786	1170	1750	1800	77157

BRAZOS RIVER BASIN  
08102500 Leon River near Belton, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	2030	1860	2480	2180	23780	47940	14350	2520	1100	32240	16900	1970	149350
1974	7450	1940	1560	1240	1140	11370	9890	1250	17590	68620	52990	95510	270550
1975	159900	120700	88950	92320	29420	94450	24600	4410	1110	955	1310	717	618842
MAX	183600	247600	221400	400800	538200	357100	386600	135400	196800	240900	182000	212500	1530700
MIN	0	0	157	101	53.0	3.20	16.0	0	0	0	0	0	3686
MEAN	30774	36570	46503	52167	87657	59304	30749	11108	19178	29433	22496	25537	451476
NO.	52	52	52	52	52	52	52	52	52	53	53	53	52
DISTR													
OF MEAN	6.8%	8.1%	10.3%	11.6%	19.4%	13.1%	6.8%	2.5%	4.2%	6.5%	5.0%	5.7%	100%

BRAZOS RIVER BASIN

08102600 Nolan Creek at Belton, Texas

LOCATION: Lat 31°03'06", long 97°27'25", Bell County, 43 ft (13 m) downstream from the bridge on the northbound service road of Interstate Highway 35, 0.5 mi (0.8 km) southeast of the courthouse at Belton, and 3.1 mi (5.0 km) upstream from the mouth.

DRAINAGE AREA: 112 mi<sup>2</sup> (290 km<sup>2</sup>).

PERIOD OF RECORD: February 1974 to December 1975.

GAGE: Water-stage recorder. Datum at gage is 480.84 ft (146.560 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1974-75): Maximum discharge, 36,100 ft<sup>3</sup>/s (1,020 m<sup>3</sup>/s) Oct. 31, 1974 (gage height, 26.90 ft or 8.199 m); minimum, 6.8 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) July 22, 1974.

Maximum stage since at least 1900, that of October 31, 1974.

REMARKS: Records good. The low flow is sustained by sewage effluent from the Fort Hood Military installation and by the Cities of Killeen, Nolanville, and Harker Heights.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	1880	1580	1400	2740	1120	930	11830	10040	19230	18420	5460	-
1975	5920	13620	4560	2950	16800	8820	3660	2340	1550	1830	1510	1830	65390
MAX	5920	13620	4560	2950	16800	8820	3660	11830	10040	19230	18420	5460	65390
MIN	5920	1880	1580	1400	2740	1120	930	2340	1550	1830	1510	1830	65390
MEAN	5920	7750	3070	2175	9770	4970	2295	7085	5795	10530	9965	3645	72970
NO. OF	1	2	2	2	2	2	2	2	2	2	2	2	1
DISTR OF MEAN	8.1%	10.6%	4.2%	3.0%	13.4%	6.8%	3.1%	9.7%	7.9%	14.4%	13.7%	5.0%	100%

BRAZOS RIVER BASIN

08103800 Lampasas River near Kempner, Texas

LOCATION: Lat 31°04'54", long 98°00'58", Lampasas County, 800 ft (240 m) upstream from the centerline of the bridge on U.S. Highway 190, 0.6 mi (1.0 km) upstream from Mesquite Creek, 0.8 mi (1.3 km) west of Kempner, and 0.9 mi (1.4 km) downstream from Sulphur Creek.

DRAINAGE AREA: 818 mi<sup>2</sup> (2,118.6 km<sup>2</sup>).

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 828.38 ft (252.490 m) above mean sea level, datum of 1929. Prior to Aug. 4, 1967, at site 800 ft (240 m) downstream.

AVERAGE DISCHARGE: 14 years, 109,836 ac-ft/yr (135.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 71,000 ft<sup>3</sup>/s (2,010 m<sup>3</sup>/s) May 16, 1965 (gage height, 32.98 ft or 10.052 m); minimum, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) July 17, 1971.

Maximum stage since at least 1871 occurred in September 1873 (stage unknown).

REMARKS: Records good. There are many small diversions above the station for irrigation and municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	14990	1800	4340	-
1963	2300	2370	2660	1480	2310	1170	659	257	1170	414	2360	705	17855
1964	762	2220	5940	6460	3850	2830	355	4260	11100	2590	4980	1780	47127
1965	2540	25730	7330	4490	184100	16380	3120	2120	11370	8310	17340	7980	290810
1966	7250	9310	15800	27240	22590	7090	1660	23250	16560	5250	3140	3450	142590
1967	2450	2060	1490	2970	1250	589	691	349	1000	1220	954	936	15959
1968	49010	17900	47550	26680	26070	14450	12370	2820	1910	1530	1420	1390	203100
1969	1160	1150	1710	13520	25110	2560	1480	2150	1520	16190	7690	12750	86990
1970	11120	18500	92350	27010	13720	12280	2330	1630	24800	5010	3010	2490	214250
1971	2130	1870	1680	1290	2610	1240	14250	4060	1670	14530	5100	19760	70190
1972	11270	6940	4290	3710	23220	2230	2400	1040	686	1860	795	859	59300
1973	1090	1470	4200	8260	6020	7940	2780	811	814	12890	3700	2730	52705
1974	2870	2970	1920	1080	2980	3850	693	4100	10180	8440	13040	8560	60683
1975	10270	42910	13000	24850	34060	14670	8430	6200	1910	1890	1770	1750	161710
MAX	49010	42910	92350	27240	184100	16380	14250	23250	24800	16190	17340	19760	290810
MIN	762	1150	1490	1080	1250	589	355	257	686	414	795	705	15959
MEAN	8017	10415	15378	11465	26761	6714	3940	4081	6515	6794	4793	4963	109836
NO. OF	13	13	13	13	13	13	13	13	13	14	14	14	13
DISTR													
OF MEAN	7.3%	9.5%	14.0%	10.4%	24.4%	6.1%	3.6%	3.7%	5.9%	6.2%	4.4%	4.5%	100%

BRAZOS RIVER BASIN

08103900 South Fork Rocky Creek near Briggs, Texas

LOCATION: Lat 30°54'41", long 98°02'12", Burnet County, at the bridge on Ranch Road 963, 6 mi (10 km) above its confluence with North Fork Rocky Creek, and 7 mi (11 km) west of Briggs.

DRAINAGE AREA: 33.3 mi<sup>2</sup> (86.2 km<sup>2</sup>).

PERIOD OF RECORD: May 1963 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 955.8 ft (291.33 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 8,298 ac-ft/yr (10.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 11,900 ft<sup>3</sup>/s (337 m<sup>3</sup>/s) May 18, 1965 (gage height, 13.82 ft or 4.212 m); no flow for many days each year from 1963-74.

Maximum stage since at least 1904, 18 ft (5.5 m) in September 1921, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	199	96.0	0	0	53.0	409	58.0	10.0	-
1964	64.0	208	371	233	116	8.30	0	0	770	6.00	113	200	2089
1965	366	2150	1650	1060	7280	1660	89.0	40	0	82.0	33.0	336	14706
1966	371	844	735	478	677	211	7.70	34.0	955	150	58.0	39.0	4560
1967	22.0	15.0	4.30	.08	15.0	0	0	0	4.80	0	0	2.80	64.0
1968	5030	2110	4750	2090	4680	1120	234	5.80	109	0	1.80	4.10	20135
1969	1.30	10.0	74.0	3730	3190	221	2.60	0	0	0	1.60	701	7931
1970	409	1120	4510	995	2100	1100	74.0	0	0	109	0	0	10417
1971	0	0	0	0	116	.20	163	9.4	4.60	0	0	28.0	321
1972	35.0	39.0	14.0	39.0	972	622	61.0	10.0	0	142	49.0	144	2127
1973	646	1520	2980	2700	1290	467	283	8.70	5.30	1980	838	348	13066
1974	212	156	119	54.0	1600	196	2.80	3150	4140	2090	3290	1170	16180
1975	1020	3490	935	325	3400	1700	388	163	35.0	13.0	12.0	21.0	11502
MAX	5030	3490	4750	3730	7280	1700	388	3150	4140	2090	3290	1170	20135
MIN	0	0	0	0	15.0	0	0	0	0	0	0	0	64.0
MEAN	681	972	1345	975	1972	569	100	260	467	383	343	231	8298
NO.	12	12	12	12	13	13	13	13	13	13	13	13	12
DISTR OF MEAN	8.2%	11.7%	16.2%	11.8%	23.8%	6.9%	1.2%	3.1%	5.6%	4.6%	4.1%	2.8%	100%



BRAZOS RIVER BASIN

08104G00 Lampasas River at Youngsfort, Texas

LOCATION: Lat 30°57'26", long 97°42'30". Bell County, 600 ft (180 m) downstream from a county road low-water crossing, 2,000 ft (610 m) downstream from a bridge on a county road, 0.7 mi (1.1 km) east of Youngsfort, and 4.5 mi (7.2 km) downstream from Rocky Creek.

DRAINAGE AREA: 1,240 mi<sup>2</sup> (3,211.6 km<sup>2</sup>).

PERIOD OF RECORD: March 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 630.88 ft (192.29 m) above mean sea level. Prior to Mar. 14, 1931, nonrecording gage, and Mar. 14, 1931 to Mar. 11, 1965, water-stage recorder at site 1,000 ft (305 m) upstream at datum 2.58 ft (0.786 m) higher.

AVERAGE DISCHARGE: 52 years, 202,711 ac-ft/yr (249.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 87,900 ft<sup>3</sup>/s (2,490 m<sup>3</sup>/s) May 17, 1965 (gage height, 37.7 ft or 11.49 m, from floodmarks); no flow at times in 1925, 1934, 1950-52, 1954, 1956, 1963-67, and 1971.

Maximum stage since at least 1873, 45.2 ft (13.78 m) Sept. 8, 1873, from information by local residents.

REMARKS: Records good. There are many small diversions above the station for irrigation and municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	22800	13500	25300	9340	1150	444	7350	480	519	811	-
1925	944	666	611	2250	10900	329	46.0	347	2730	24100	35200	3080	81203
1926	8330	5820	32200	80900	37300	18800	26200	1360	972	8430	1780	5180	227272
1927	1750	33400	27700	24300	10200	26500	10400	779	1140	39900	1680	1960	179709
1928	1560	9320	9100	3260	2580	8330	627	342	1210	538	1180	1600	39647
1929	1680	855	3580	6960	16400	7020	1730	120	30600	615	643	658	70861
1930	855	761	799	464	44900	1840	572	1320	3690	36500	3190	16800	111691
1931	23300	41000	46500	34600	12300	17600	6890	1990	3920	1750	738	1290	191878
1932	3390	25300	24900	13800	70700	10600	3820	6400	25500	1480	1170	1540	188600
1933	4440	3190	10600	7260	30700	3390	2980	1520	1310	1670	994	610	68664
1934	4690	1880	6760	27000	2990	1860	400	15.0	5300	82.0	4400	652	56029
1935	1350	7890	2480	4360	129500	48380	6490	3020	58020	11320	6790	24930	304530
1936	8610	4780	3740	21560	158500	28660	13780	2710	146000	46830	44180	71560	550910
1937	55450	36360	49640	19990	7620	13360	24600	1760	3260	4690	7040	36980	260750
1938	88980	124900	33160	37790	36730	21550	126900	17340	4950	2820	2140	2200	499460
1939	6950	4600	4700	8050	8720	5870	5270	1760	353	5250	725	1020	53268
1940	924	2540	1150	8270	5530	37470	28600	2490	1050	3510	89010	104600	285144
1941	53380	95690	94930	86950	111800	61790	24420	12300	2970	10150	3700	3450	561530
1942	2700	2240	2180	76800	80270	89090	9070	5310	15940	17370	10270	8380	319620
1943	6990	4480	6330	6090	5370	1680	1030	390	7790	2180	1280	1700	45310
1944	20710	63200	56250	28600	256800	82970	13650	10880	7840	5350	7140	37830	591220
1945	75440	82300	99700	108900	48320	32620	10000	7270	17900	15270	12350	20750	530820
1946	25860	37010	48850	19060	18440	10920	2560	2900	3700	2560	3700	8050	183610
1947	30800	13970	30930	20980	15750	4660	2070	2190	1140	920	1270	1540	126222
1948	1300	12730	2610	5890	9430	816	5390	3570	659	491	699	1240	44825
1949	950	871	24350	36080	7500	12230	2000	1930	437	529	766	1070	88713
1950	778	4400	1150	4380	6090	4230	949	82.0	6480	477	520	575	30111
1951	550	616	612	576	5370	3430	44.0	0	1350	231	480	506	13765
1952	446	399	1050	18440	36380	5200	2190	37.0	216	107	1170	15810	81445
1953	3790	2240	5400	8010	78800	3940	1800	556	3630	3970	897	1090	114123
1954	994	599	562	1010	5220	143	0	0	391	1420	17890	480	28709
1955	2370	6050	2150	3700	52850	22870	9870	4660	7860	424	357	575	113736
1956	580	1110	339	193	29500	677	7.30	2440	250	1180	6370	4150	46796
1957	871	1210	11490	154500	191500	35000	3490	1150	1730	44700	27960	19780	493381
1958	14530	72120	61840	23820	53780	32590	4100	2240	2100	1740	1480	1450	271790
1959	1290	1580	1360	2290	1270	25000	3230	7680	6170	144300	24930	42710	261810
1960	65660	43350	27880	15070	7890	3570	5030	3390	4270	67320	18340	72890	334660
1961	99220	114900	48350	25280	12570	16110	33360	6330	4570	10200	12850	4440	388180
1962	4200	3760	4960	5470	5820	9570	2270	449	10020	18850	2410	4910	72689
1963	2580	2130	2270	1160	4120	1360	935	4.00	800	2640	2500	952	21451
1964	1380	4910	8950	9520	7070	5700	101	3440	15650	2800	7960	3320	70801
1965	6860	39570	20960	14400	292200	39260	7080	3180	11600	9990	19080	12430	476610
1966	10160	13980	17910	34050	40170	10240	2420	23960	33320	8050	4490	3830	202580
1967	3170	2380	2180	3140	1770	437	283	827	1060	971	1110	893	18221
1968	91240	33780	91430	45590	58500	29060	19690	4110	4040	1990	1950	2710	384090
1969	2000	2520	5660	56480	48080	6090	1610	2120	1740	14460	8200	15580	164540
1970	15460	24260	128300	37970	29090	23380	3790	1520	26830	5140	3070	2890	301700
1971	2270	1860	1680	1350	2530	908	16190	5400	1690	13300	6420	21840	75638
1972	12410	7630	4550	3540	27730	5410	3520	2260	579	2880	2260	2050	74819
1973	6410	12960	22990	22080	18700	12340	6960	1500	1060	23720	9620	6250	144590

BRAZOS RIVER BASIN

08104000 Lampasas River at Youngsport, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	6070	4600	3240	1850	9970	4600	470	33940	46660	55820	66530	28370	262120
1975	25720	78790	32310	32030	68950	36260	17150	10410	3420	2520	2080	2260	311900
MAX	99220	124900	128300	154500	292200	89090	126900	33940	146000	144300	89010	104600	591220
MIN	446	399	339	193	1270	143	0	0	216	82.0	357	480	13765
MEAN	15928	21519	22237	23645	43471	17213	9177	4080	10639	13154	9490	12158	202711
NO.	51	51	52	52	52	52	52	52	52	52	52	52	51
DISTR OF MEAN	7.9%	10.6%	11.0%	11.7%	21.4%	8.5%	4.5%	2.0%	5.2%	6.5%	4.7%	6.0%	100%

BRAZOS RIVER BASIN

08104050 Stillhouse Hollow Lake near Belton, Texas

LOCATION: Lat 31°01'20", long 97°31'57", Bell County, in the intake structure at Stillhouse Hollow Dam on the Lampasas River, 6 mi (8 km) southwest of Belton.

DRAINAGE AREA: 1,313 mi<sup>2</sup> (3,400.7 km<sup>2</sup>).

PERIOD OF RECORD: September 1966 to December 1976. Prior to October 1970, published as "Stillhouse Hollow Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1966-75); Maximum contents, 334,600 ac-ft (412.6 hm<sup>3</sup>) Nov. 27, 1974 (elevation, 635.70 ft or 193.761 m); minimum contents since conservation storage was first reached in Apr. 12, 1968, 106,600 ac-ft (242.4 hm<sup>3</sup>) July 23, 1971 (elevation, 615.55 ft or 187.620 m).

REMARKS: The lake is formed by a rolled earthfill dam 15,624 ft (4,762 m) long, including a 1,650-foot (503-m) spillway and a 5,894-foot (1,798-m) dike. The capacity of the lake is 235,700 ac-ft (290.6 hm<sup>3</sup>). The lake was operated as a temporary detention basin from Sept. 2, 1966 to Feb. 19, 1968. Deliberate impoundment began on Feb. 19, 1968. The lake was built for flood control and water conservation. The emergency spillway is an uncontrolled broad-crested weir 1,650 ft (603 m) long located near the right end of the dam. A 12.0-foot diameter (3.7-m) conduit is controlled by two 5.67-foot by 12.0-foot (1.73- by 3.7-m) slide gates at an invert elevation of 515.0 ft (156.07 m). The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1966	-	-	-	-	-	-	-	-	1420	1060	1030	1020
1967	975	964	975	997	922	803	852	862	892	892	892	892
1968	3180	13340	63490	108300	170000	196400	214500	214500	217000	216100	217300	218800
1969	220100	223400	230000	241300	234400	236200	233000	233100	232200	236700	236200	233300
1970	236200	247200	326200	271700	252400	236500	235400	233000	231100	235600	236000	237100
1971	237600	238900	219100	210700	210300	207200	220600	227300	226800	242500	236300	236100
1972	237600	236500	235100	237300	235700	235400	235800	235200	233800	237500	235700	237800
1973	236000	237900	235500	235100	236000	235700	236800	233500	234300	245400	236200	236000
1974	236000	235800	236500	236000	236000	234600	227500	258000	269100	296400	332200	308300
1975	235500	250500	236200	239600	278200	255200	235500	236900	234500	234300	233700	234700
MAX	237600	250500	326200	271700	278200	255200	236800	258000	269100	296400	332200	308300
MIN	975	964	975	997	922	803	852	862	892	892	892	892
MEAN	182573	187167	198118	197889	205991	204223	204439	208040	188111	194645	196552	194401
NO.	9	9	9	9	9	9	9	9	10	10	10	10
DISTR												
OF MEAN	7.7%	7.9%	8.4%	8.4%	8.7%	8.6%	8.7%	8.8%	8.0%	8.2%	8.3%	8.2%

BRAZOS RIVER BASIN  
08104100 Lampasas River near Belton, Texas

LOCATION: Lat 31°00'06", long 97°29'32", Bell County, 22 ft (7 m) upstream from the upstream bridge of three bridges on Interstate Highway 35, 3.5 mi (5.6 km) downstream from Stillhouse Hollow Dam, and 4.1 mi (6.6 km) southwest of Belton.

DRAINAGE AREA: 1,321 mi<sup>2</sup> (3,421.4 km<sup>2</sup>).

PERIOD OF RECORD: February 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 476.58 ft (145.262 m) above mean sea level.

AVERAGE DISCHARGE: 13 years, 187,582 ac-ft/yr (231.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 77,900 ft<sup>3</sup>/s (2,210 m<sup>3</sup>/s) May 17, 1965 (gage height, 43.58 ft or 13.283 m); no flow Aug. 9, 10, 12-15 and Sept. 5, 6, 1967.

Maximum stage since at least 1877, 45 ft (13.7 m) September 1921, from information by local residents.

REMARKS: Records good. There are many small diversions above the station for irrigation and municipal water supply. Since Sept. 2, 1966, the flow is regulated by Stillhouse Hollow Lake (station 08104050).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	2060	1770	1440	3130	1120	659	420	1820	2690	3600	904	-
1964	1320	5280	10010	9910	6950	7610	324	3680	17410	2930	9140	3660	78224
1965	8390	49910	25680	16880	310700	50970	8990	3550	10640	10190	19730	12540	528170
1966	9910	13640	18860	38170	41480	11560	2820	21320	28580	7750	4570	3860	202520
1967	3230	2600	2370	2750	2240	639	129	520	474	1030	1260	1000	18242
1968	90250	25670	35570	767	744	1140	1610	465	491	456	491	421	158075
1969	369	765	814	48710	59890	986	337	387	338	9360	8970	22990	153916
1970	13020	15050	52530	96970	53530	42020	978	765	28710	364	278	273	304488
1971	314	256	21650	8820	2080	1670	7870	173	213	1780	13580	31920	90326
1972	13220	10040	5070	706	35260	4490	1080	2050	269	315	5700	510	78710
1973	13450	15110	30470	26590	21620	13450	6850	859	576	22320	21540	4800	177635
1974	6790	4070	2630	1880	11400	2070	4710	11710	44120	49030	25180	50880	214470
1975	96260	69880	41890	26400	44350	65200	35140	8840	3470	662	533	542	393167
MAX	96260	69880	52530	96970	310700	65200	35140	21320	44120	49030	25180	50880	528170
MIN	314	256	814	706	744	639	129	420	213	315	278	273	18242
MEAN	21377	16487	19178	21538	45644	15610	5500	4182	10547	8375	8813	10331	187582
NO.	12	13	13	13	13	13	13	13	13	13	13	13	12
DISTR OF MEAN	11.4%	8.8%	10.2%	11.5%	24.3%	8.3%	2.9%	2.2%	5.6%	4.5%	4.7%	5.5%	100%

BRAZOS RIVER BASIN

08104500 Little River near Little River, Texas

LOCATION: Lat. 30°57'59", long 97°20'45", Bell County, 25 ft (8 m) downstream from the bridge on State Highway 96, 2.4 mi (3.9 km) southeast of the Little River, and 5 mi (8 km) downstream from the confluence of the Leon and Lampasas Rivers.

DRAINAGE AREA: 5,228 mi<sup>2</sup> (13,540.5 km<sup>2</sup>).

PERIOD OF RECORD: October 1923 to May 1929, August 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 400.11 ft (121.954 m) above mean sea level, datum of 1929, Oct. 5, 1923 to May 27, 1929, nonrecording gage on the railroad bridge 0.5 mi (0.8 km) upstream at same datum.

AVERAGE DISCHARGE: 21 years (1923-29, 1962-75), 626,849 ac-ft/yr (772.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-29, 1962-75): Maximum discharge, 79,600 ft<sup>3</sup>/s (2,250 m<sup>3</sup>/s) May 17, 1965 (gage height, 42.85 ft or 13.06 m); minimum, 8.2 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Aug. 6, 19, 1963.

Maximum stage since at least 1900, 46.8 ft (14.26 m) in September 1921, from information by local residents.

REMARKS: Records good. There are many small diversions for irrigation and municipal water supply which affect the very low flows. The flow is regulated by Bolton Lake (station 08102000) on the Leon River beginning on Mar. 8, 1954 and by Stillhouse Hollow Lake (station 08104050) on the Lampasas River beginning on Sept. 2, 1966.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	18 900	41 200	10 900	-
1924	3 800	6 200	12 400	5 800	11 700	6 800	8 560	4 150	1 650	4 000	3 620	4 410	50 894
1925	4 000	3 200	2 970	5 010	4 070	2 220	1 310	1 380	1 650	50 700	9 320	5 820	227 010
1926	3 670	1 630	9 900	30 400	12 500	5 550	7 470	11 400	8 230	21 900	6 790	11 300	773 720
1927	9 980	9 930	6 850	9 880	6 500	13 500	27 900	5 760	3 910	11 900	12 600	14 700	660 450
1928	9 840	3 270	2 710	20 000	3 220	7 860	8 120	1 680	6 130	1 760	1 850	8 670	243 770
1929	13 500	6 220	17 000	38 300	3 910	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	2 430	6 070	50 780	11 820	2 250	-
1963	1 801	5 370	12 140	6 260	20 290	24 840	12 360	7 410	3 360	4 360	6 600	2 930	117 261
1964	4 850	9 210	24 830	44 110	4 651	8 523	28 560	12 480	3 564	10 550	8 364	3 867	519 230
1965	6 562	13 060	14 810	71 680	41 020	43 220	21 720	14 890	3 567	23 380	11 520	50 760	1 849 510
1966	3 843	5 935	6 240	70 230	16 780	11 420	28 470	6 563	10 600	27 440	10 970	9 190	760 150
1967	7 330	6 320	6 270	34 570	24 950	9 830	25 440	14 610	5 220	6 810	5 650	6 740	1 53 740
1968	13 310	17 640	19 870	21 020	20 560	17 830	7 421	7 570	5 710	3 920	4 620	6 250	1 204 580
1969	7 940	17 560	2 509	14 330	20 400	4 664	13 350	4 950	3 440	11 950	11 910	4 637	536 500
1970	5 673	4 902	20 070	2 443	17 070	11 070	5 860	3 770	5 164	10 740	6 070	3 980	914 210
1971	3 640	3 710	2 382	28 900	2 186	3 571	28 430	23 420	7 200	4 538	3 583	7 241	330 310
1972	5 614	1 626	1 516	7 820	5 211	10 660	5 240	5 000	2 460	7 200	17 480	8 510	204 040

BRAZOS RIVER BASIN

08104500 Little River near Little River, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	32160	34600	52070	43270	62850	70800	29100	6220	9570	81560	49740	15170	487110
1974	23350	12590	10030	7800	20400	17400	18390	27590	85270	169700	127100	165300	684920
1975	277900	229000	192300	124600	149300	202700	91170	24900	11640	6950	5950	6350	1272760
MAX	277900	229000	200700	304000	410200	432200	217200	148900	106000	169700	127100	165300	1849510
MIN	3640	3200	2970	5010	20290	2220	1310	741	2460	1760	1850	2930	117261
MEAN	44169	51037	66375	82203	103977	93252	38798	20405	24990	38597	32592	30454	626849
NO.	19	19	19	19	19	18	18	19	19	20	20	20	18
DISTR OF MEAN	7.0%	6.1%	10.6%	13.1%	16.6%	14.9%	6.2%	3.3%	4.0%	6.2%	5.2%	4.9%	100%

BRAZOS RIVER BASIN

08104700 North Fork San Gabriel River near Georgetown, Texas

LOCATION: Lat 30°39'42", long 97°42'40", Williamson County, 1.5 mi (2.4 km) upstream from the Middle Fork San Gabriel River, 2.7 mi (4.3 km) upstream from the bridge on Interstate Highway 35, and 2.7 mi (4.3 km) northwest of Georgetown.

DRAINAGE AREA: 248 mi<sup>2</sup> (642.3 km<sup>2</sup>).

PERIOD OF RECORD: July 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 889.06 ft (210.026 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 66,696 ac-ft/yr (82.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1968-75): Maximum discharge 35,000 ft<sup>3</sup>/s (991 m<sup>3</sup>/s) Sept. 17, 1974 (gage height, 26.20 ft or 7.986 m); no flow July 23-25, 1971.

Maximum stage since at least 1875, 39.5 ft (12.04 m) in September 1921.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	-	-	2980	611	1380	294	389	1070	-
1969	699	1460	5540	23320	18070	3240	661	3710	2250	942	1020	4690	65602
1970	3540	6940	26500	9460	13910	8920	1660	390	308	255	196	180	72259
1971	180	176	174	105	83.0	12.0	3350	354	49.0	2050	1410	2840	10783
1972	1550	1020	650	257	1150	1800	820	210	61.0	861	1810	958	11147
1973	2350	5620	9160	7170	13320	4430	7120	1020	946	14530	5480	3050	74196
1974	2960	2570	1980	1180	19280	2340	453	20710	26980	27990	22200	7230	135873
1975	6220	29390	7000	3030	32690	19340	7710	6280	1020	601	524	502	114307
MAX	6220	29390	26500	23320	32690	19340	7710	20710	26980	27990	22200	7230	135873
MIN	180	176	174	105	83.0	12.0	453	210	49.0	255	196	180	10783
MEAN	2500	6739	7286	6360	14072	5726	3094	4161	4124	5940	4129	2565	66696
NO.	7	7	7	7	7	7	8	8	8	8	8	8	7
DISTR OF MEAN	3.7%	10.1%	10.9%	9.5%	21.1%	8.6%	4.6%	6.2%	6.2%	8.9%	6.2%	3.8%	100%

BRAZOS RIVER BASIN

08104900 South Fork San Gabriel River at Georgetown, Texas

LOCATION: Lat 30°37'32", long 97°41'27", Williamson County, at the bridge on Interstate Highway 35, 1.1 mi (1.8 km) southwest of the county courthouse at Georgetown.

DRAINAGE AREA: 133 mi<sup>2</sup> (344.5 km<sup>2</sup>).

PERIOD OF RECORD: December 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 687.72 ft (209.617 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 42,155 ac-ft/yr (52.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 20,200 ft<sup>3</sup>/s (572 m<sup>3</sup>/s) Oct. 31, 1974 (gage height, 16.61 ft or 5.063 m); no flow July 3-25, 1971.

Maximum stage since at least 1887, about 41 ft (12.5 m) on Apr. 24, 1957, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	-	-	655	-
1968	27140	7480	10210	6400	11820	15600	2940	519	3140	735	658	1570	88212
1969	940	1880	4360	14250	10190	2290	530	4340	897	665	575	1750	42667
1970	1840	2870	11720	6070	12500	5270	1210	137	462	318	210	263	42870
1971	171	218	244	211	627	22.0	1580	423	24.0	888	359	937	5704
1972	588	441	330	121	1840	778	161	251	71.0	598	2240	893	8312
1973	1840	2860	3180	2280	5940	1780	3770	504	812	13620	3700	2040	42326
1974	2220	2130	1410	1380	11980	2200	332	8060	3310	12210	7410	3500	56142
1975	3600	13350	3930	2080	15200	6740	3120	1970	666	297	442	278	51673
MAX	27140	13350	11720	14250	15200	15600	3770	8060	3310	13620	7410	3500	88212
MIN	171	218	244	121	627	22.0	161	137	24.0	297	210	263	5704
MEAN	4792	3904	4423	4099	8762	4335	1705	2026	1173	3666	1949	1321	42155
NO.	8	8	8	8	8	8	8	8	8	8	8	9	8
DISTR													
OF MEAN	11.4%	9.3%	10.5%	9.7%	20.8%	10.3%	4.0%	4.8%	2.8%	8.7%	4.6%	3.1%	100%



BRAZOS RIVER BASIN

08105000 San Gabriel River at Georgetown, Texas

LOCATION: Lat 30°39'13", long 87°39'19", Wilhamson County, 100 ft (30 m) downstream from the Missouri-Kansas-Texas Railroad Co. bridge, 1.2 mi (1.9 km) downstream from the confluence of the North and South Forks, and 1.8 mi (2.9 km) northeast of Georgetown.

DRAINAGE AREA: 399 mi<sup>2</sup> (1,033 km<sup>2</sup>).

PERIOD OF RECORD: March 1924 to August 1925, August 1934 to September 1973.

GAGE: Water-stage recorder and concrete control. Datum of gage is 643.24 ft (196.06 m) above mean sea level, datum of 1929. Feb. 27, 1924 to Aug. 31, 1925, nonrecording gage at site 1.0 mi (1.6 km) upstream at different datum.

AVERAGE DISCHARGE: 42 years (1924-25, 1934-73), 95,709 ac-ft/yr (118.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-25, 1934-73): Maximum discharge, 155,000 ft<sup>3</sup>/s (4,390 m<sup>3</sup>/s) Apr. 24, 1957, gage height, 31.89 ft (9.72 m) in gage well, 34.10 ft (10.39 m), from floodmarks; no flow at times in 1954-57.

Maximum stage since at least 1852, 36.1 ft (11.0 m) Sept. 10, 1921, present site and datum, discharge 160,000 ft<sup>3</sup>/s (4,530 m<sup>3</sup>/s).

REMARKS: Records good. The low flow is partly sustained by sewage effluent from the City of Georgetown.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	17500	16200	22100	14900	3770	1960	2520	1550	789	895	-
1925	785	522	350	764	6960	427	273	1830	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	352	1580	266	6590	429	-
1935	419	1800	580	3080	32270	39430	5230	1380	30230	7030	3840	27060	152349
1936	8880	5110	4290	2180	60440	14670	6870	1900	50430	15610	13650	29440	213470
1937	26160	14700	20020	8440	3420	1950	11630	932	624	937	8310	23300	120423
1938	46180	19360	11610	25600	23180	8360	4720	1940	893	639	683	726	143891
1939	1080	756	920	734	717	1260	232	229	202	4320	360	289	11099
1940	274	2330	819	7110	8270	39800	27180	2400	1110	2990	60930	55660	208873
1941	28330	40980	37690	45360	43990	31500	9210	2780	1610	4890	1680	1850	249870
1942	1560	1320	1070	17860	8470	22710	1880	1030	8100	16520	5570	4620	90730
1943	4280	2870	3000	2520	2990	754	837	275	614	609	368	184	19301
1944	8510	19900	25910	11890	47140	26880	3140	1320	5640	1220	4520	18100	174170
1945	27430	25790	22490	33300	14930	20350	5250	2890	3000	2750	4290	2510	164980
1946	5650	14200	15470	11650	14140	5730	1540	1230	7710	5400	16420	23640	122780
1947	29030	15680	14640	11680	6510	2700	1240	1220	698	592	643	740	85373
1948	704	895	821	11370	13140	779	1040	1700	292	612	356	330	32039
1949	416	671	2570	13300	3410	4600	1550	439	417	413	274	613	28673
1950	543	2330	1100	2450	4610	2970	737	256	670	280	251	267	16464
1951	241	339	508	669	628	400	84.0	85.0	1950	279	220	218	5621
1952	254	561	992	8720	14330	2390	675	145	157	157	173	11050	39604
1953	3190	2970	3090	13860	14150	1620	385	895	3570	16010	2610	2350	64700
1954	1580	1080	767	362	607	73.0	6.00	10.0	30.0	119	114	127	4875
1955	316	1080	1110	347	9310	4970	2660	3180	259	35.0	63.0	75.0	23405
1956	149	160	128	61.0	3020	2.20	0	130	103	989	3090	2320	10152
1957	268	659	1820	89180	35500	45770	3810	1370	2240	20330	16690	14670	232107
1958	13050	45920	26730	10810	13680	5980	2350	1460	5160	3090	2870	2520	133620
1959	2020	3200	3330	6300	4230	5040	1890	3820	2640	68490	13280	35150	149390
1960	27630	22540	13440	7740	4220	1720	1960	889	661	14390	10790	30560	136540
1961	29120	51560	17710	7120	3690	3420	11830	3350	4170	3930	3300	3510	142710
1962	2920	2830	2330	3500	4320	5540	2720	535	1440	1890	1110	1290	30425
1963	1140	1140	1280	1080	896	418	221	124	93.0	6020	846	629	13887
1964	1100	2640	4470	3460	2520	1520	467	267	3820	1580	5690	3220	30754
1965	6940	27020	14720	11110	69110	14680	4870	1850	8450	4750	7400	14210	185110
1966	9220	11510	12800	15840	15100	5130	2230	1860	4770	2490	1850	1800	84600
1967	1510	1230	954	1600	5030	964	400	311	970	1650	2240	2170	19029
1968	64000	21440	35810	19890	37200	27080	7050	2460	6270	2310	2240	3970	229720
1969	2930	4800	11880	38980	30120	6540	2040	10690	4270	2820	2590	8160	125820
1970	6840	12590	41430	16300	28860	17470	4400	1690	2200	2030	1540	1640	136990
1971	1430	1140	1220	897	987	377	5140	1490	449	3450	2470	5220	24270
1972	3170	2240	1680	954	3740	3230	1520	1050	598	2570	6240	3120	30112
1973	5670	11370	15980	12510	22600	7790	13200	2990	3400	-	-	-	-
MAX	64000	51560	41430	89180	69110	45770	27180	10690	50430	68490	60930	55660	249870
MIN	149	160	128	61.0	607	2.20	0	10.0	30.0	35.0	63.0	75.0	4675
MEAN	9373	9981	9635	12117	15623	9802	3811	1588	4244	5645	5424	8466	95709
NO.	40	40	41	41	41	41	41	42	41	40	40	40	38
DISTR OF MEAN	9.8%	10.4%	10.1%	12.7%	16.3%	10.2%	4.0%	1.7%	4.4%	5.9%	5.7%	8.8%	100%

BRAZOS RIVER BASIN  
08105100 Berry Creek near Georgetown, Texas

LOCATION: Lat 30°41'28", long 97°39'21", Williamson County, at the bridge on the upstream service road on Interstate Highway 35, and 2.9 mi (4.7 km) north of the county courthouse at Georgetown.

DRAINAGE AREA: 83.1 mi<sup>2</sup> (215.2 km<sup>2</sup>).

PERIOD OF RECORD: August 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 659.97 ft (201.159 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 21,685 ac-ft/yr (26.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 15,500 ft<sup>3</sup>/s (439 m<sup>3</sup>/s) Oct. 31, 1974 (gage height, 19.33 ft or 5.892 m); no flow at times in 1967 and 1971-72.

Maximum stage since at least 1921 occurred in September 1921, 25 ft (7.6 m), from information by the Texas Highway Department and local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	0	5.60	11.0	79.0	111	-
1968	16220	4860	4840	2690	4020	2920	994	313	180	96.0	120	205	37478
1969	209	820	2520	4590	3600	843	309	558	232	132	76.0	491	14380
1970	761	1490	5740	2180	4480	2520	631	326	159	103	65.0	64.0	18519
1971	40.0	18.0	12.0	6.90	.20	3.30	1890	64.0	1.30	71.0	157	767	3031
1972	356	306	113	57.0	197	2620	322	106	51.0	463	1870	624	7085
1973	2280	3130	2570	3300	6600	2210	2820	547	928	5980	2840	1690	34895
1974	1840	1560	1050	541	5740	719	210	419	4900	9710	4420	2110	33219
1975	2370	8110	2190	1250	7590	3900	1880	1130	454	323	174	91.0	29462
MAX	16220	8110	5740	4590	7590	3900	2820	1130	4900	9710	4420	2110	37478
MIN	40.0	18.0	12.0	6.90	.20	3.30	210	0	1.30	11.0	65.0	64.0	3031
MEAN	3010	2539	2379	1827	4028	1967	1132	385	768	1877	1089	684	21685
NO. OF DISTR	8	8	8	8	8	8	8	9	9	9	9	9	8
OF MEAN	13.9%	11.7%	11.0%	8.4%	18.6%	9.1%	5.2%	1.8%	3.5%	8.7%	5.0%	3.2%	100%

BRAZOS RIVER BASIN

08105400 San Gabriel River near Circleville, Texas

LOCATION: Lat 30°37'43", long 97°28'23", Williamson County, at a county road bridge, 2.3 mi (3.7 km) west of Circleville, and 3.1 mi (5.0 km) upstream from the bridge on State Highway 95.

DRAINAGE AREA: 599 mi<sup>2</sup> (1,551.4 km<sup>2</sup>).

PERIOD OF RECORD: February 1924 to September 1934 (published as "at Circleville"), August 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 520.62 (158.685 m) above mean sea level, datum of 1920. Feb. 1, 1924 to Sept. 30, 1934, water-stage recorder at site 3.1 mi (5.0 km) downstream and at 15.35 ft (4.679 m) lower datum.

AVERAGE DISCHARGE: 20 years (1924-34, 1967-75), 142,717 ac-ft/yr (176.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-34, 1967-75): Maximum discharge, 53,400 ft<sup>3</sup>/s (1,510 m<sup>3</sup>/s) May 29, 1929 (gage height, 34.20 ft or 10.424 m, from floodmark, former site and datum); no flow Sept. 5, 6, 8, 11, 1924 and Aug. 10-16, 1967.

Maximum stage since at least 1852, about 46 ft (14.0 m) present site and datum, Sept. 10, 1921.

REMARKS: Records good. The low flow is partly sustained by sewage effluent from the City of Georgetown.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	19800	30900	25100	40000	18000	5480	2210	2040	1070	1350	1420	-
1925	1510	968	962	1500	10300	252	221	2310	4240	20500	16400	2870	62033
1926	23100	10800	27100	48900	49700	11800	10000	3000	1580	6270	2070	3700	198020
1927	3900	28300	23100	31100	9590	17900	2630	707	543	43300	3340	2100	166510
1928	2000	6340	8180	3860	4190	5680	1330	474	415	389	613	1050	36521
1929	1060	922	2470	8930	80600	11500	4330	1460	750	744	1520	1490	115776
1930	1480	2140	3830	2080	94100	7020	1840	695	910	20900	4690	6700	146385
1931	24500	34500	23700	13200	8040	3290	2680	836	607	462	684	1170	113689
1932	3870	3500	15100	5550	16000	3700	1650	2870	8870	1050	839	1290	64289
1933	4860	3730	5370	2820	3410	520	7070	818	750	589	471	549	30957
1934	3090	15500	7500	13000	4380	1230	552	160	1200	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	264	5930	3230	5840	6850	-
1968	108000	33000	45860	26150	47420	31390	10300	3220	7310	3080	4170	6780	326680
1969	4140	8260	18010	50890	38610	9820	2880	11250	6380	4090	2830	11070	168230
1970	10460	19890	59140	21080	37730	20320	5170	2010	3120	2450	1950	2010	165330
1971	1990	1810	2070	993	1320	407	6410	3470	491	3770	3210	9450	35391
1972	5090	3850	2980	1630	6260	11060	2220	1450	663	10010	10910	6100	62223
1973	13280	18740	22070	22540	38170	11860	16560	3840	9330	54480	17110	9760	237740

BRAZOS RIVER BASIN

08105400 San Gabriel River near Circleville, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	10970	8790	6900	5140	47290	7740	2360	31600	46980	45480	49050	18760	281060
1975	17830	64800	18000	10510	71230	37780	15590	12140	4370	3120	2790	2700	260860
MAX	108000	64800	59140	50890	94100	37780	16560	31600	46980	54480	49050	18760	326680
MIN	1060	922	962	993	1320	252	221	160	415	389	471	549	30957
MEAN	13396	15139	17013	15525	32019	11119	5225	4239	5324	11841	6834	5043	142717
NO.	18	19	19	19	19	19	19	20	20	19	19	19	17
DISTR OF MEAN	9.4%	10.6%	11.9%	10.9%	22.4%	7.8%	3.7%	3.0%	3.7%	8.3%	4.8%	3.5%	100%

**BRAZOS RIVER BASIN**  
**08105700 San Gabriel River at Laneport, Texas**

LOCATION: Lat 30°41'40", long 97°16'43", Williamson County, 22 ft (7 m) downstream from a county bridge, 0.2 mi (0.3 km) north of Laneport, 3.4 mi (5.5 km) downstream from Willis Creek, and 7.5 mi (12.1 km) northwest of Thrall.

DRAINAGE AREA: 738 mi<sup>2</sup> (1,911.4 km<sup>2</sup>).

PERIOD OF RECORD: August 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 412.60 ft (125.760 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 219,415 ac-ft/yr (270.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 31,200 ft<sup>3</sup>/s (884 m<sup>3</sup>/s), Oct. 31, 1974 (gage height, 30.80 ft or 9.388 m); minimum, 0.35 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) July 19-26, 1971.

Maximum stage since 1910 occurred in September 1921 (39.6 ft or 12.07 m), from floodmarks at present site and datum.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	4210	17500	8340	17080	30880	-
1966	18440	23580	22160	57990	42100	14110	5930	5390	15620	4820	3310	3570	217020
1967	2760	2630	2080	4480	20680	1790	421	276	8840	7170	13100	13030	77257
1968	129100	39450	54710	34830	58360	35800	18450	4390	7900	3770	5750	10810	403320
1969	6360	14330	24910	59180	48760	12460	4270	12890	7410	5510	3880	12410	212370
1970	12450	26740	72820	28810	47180	22900	7330	2640	6970	3640	2780	2700	236960
1971	2390	2390	2060	1670	1970	1040	5860	3390	542	3590	9780	12430	47112
1972	6080	4570	3520	2450	8350	15900	2990	1920	664	17970	13590	8530	86534
1973	16080	22250	25880	33050	45540	14400	16020	3790	12700	67020	24500	12580	293810
1974	14200	11010	9060	6520	49320	10360	3140	28960	45810	25040	71130	22470	297020
1975	20120	73020	21230	12080	85210	44990	17950	14080	5500	3900	3460	3510	305050
MAX	129100	73020	72820	59180	85210	44990	18450	28960	45810	67020	71130	30880	403320
MIN	2390	2390	2060	1670	1970	1040	421	276	542	3590	2780	2700	47112
MEAN	22798	21997	23843	24106	40747	17375	8236	7449	11769	13706	15305	12084	219415
NO.	10	10	10	10	10	10	10	11	11	11	11	11	10
DISTR													
OF MEAN	10.4%	10.0%	10.9%	11.0%	18.6%	7.9%	3.8%	3.4%	5.4%	6.2%	7.0%	5.5%	100%

**BRAZOS RIVER BASIN**  
08106000 Brushy Creek at Coupland, Texas

LOCATION: Lat 30°28', Long 97°23', Williamson County, at the Missouri-Kansas-Texas Railroad Co. bridge, 0.5 mi (0.8 km) north of Coupland, and 8 mi (12.9 km) south of Taylor.

DRAINAGE AREA: 198 mi<sup>2</sup> (512.8 km<sup>2</sup>).

PERIOD OF RECORD: June 1924 to July 1926.

GAGE: Chain gage. Datum of gage is 501.79 ft (152.9 m) above mean sea level.

EXTREMES: Period of record (1924-26): Maximum stage recorded, 23.2 ft (7.1 m) October 13, 1925; no flow at times.

REMARKS: Records poor. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	5880	1290	379	3000	411	389	417	-
1925	440	299	279	222	2920	760	0	0	791	8670	7190	883	22454
1926	5950	1430	-	-	4810	2660	1790	-	-	-	-	-	-
MAX	5950	1430	279	222	4810	5880	1790	379	3000	8670	7190	883	22454
MIN	440	299	279	222	2920	760	0	0	791	411	389	417	22454
MEAN	3195	865	279	222	3665	3100	1027	190	1696	4541	3790	650	23620
NO.	2	2	1	1	2	3	3	2	2	2	2	2	1
DISTR													
OF MEAN	13.5%	3.7%	1.2%	.9%	16.4%	13.1%	4.3%	.8%	8.0%	19.2%	16.0%	2.8%	100%

BRAZOS RIVER BASIN

08106300 Brushy Creek near Rockdale, Texas

LOCATION: Lat 30°41'38", long 97°04'42", Milam County, 36 ft (11 m) upstream from the bridge on Farm Road 908, 2.8 mi (4.5 km) upstream from the mouth, and 5.3 mi (8.5 km) northwest of Rockdale.

DRAINAGE AREA: 505 mi<sup>2</sup> (1,308.0 km<sup>2</sup>).

PERIOD OF RECORD: August 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 325.56 ft (99.231 m) above mean sea level, datum of 1929. Prior to Feb. 4, 1970, water stage recorder at site 150 ft (46 m) downstream at datum 5.00 ft (1.524 m) higher. Feb. 5 to Sept. 3, 1970, nonrecording gage at site 150 ft (46 m) downstream at present datum.

AVERAGE DISCHARGE: 9 years, 148,099 ac-ft/yr (182.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 12,000 ft<sup>3</sup>/s (348 m<sup>3</sup>/s), May 24, 1975 (gage height, 28.43 ft or 8.665 m); maximum gage height, 31.09 ft (9.476 m) Jan. 20, 1968, prior to the channel rectification, present datum, from floodmark; minimum discharge, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 4, 1967.

Maximum stage since at least 1903, 54.5 ft (16.61 m), present datum, in September 1921, from information by local residents.

REMARKS: Records fair. In 1970, the channel was rectified in the vicinity of the gage. There is backwater at times from the San Gabriel River.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	14.0	4220	8440	24110	10670	-
1968	96910	13070	27810	17740	40470	13450	17210	1860	4730	791	7080	13920	255041
1969	2760	19250	22140	34440	7090	1340	369	2960	3410	2490	1070	10090	107409
1970	25560	29870	46060	10490	43580	5160	1690	764	2260	6800	1030	1300	174564
1971	604	554	685	607	8000	125	26.0	821	1150	476	3180	23760	39988
1972	3100	2100	960	305	15470	14120	526	409	1370	13980	7110	3620	63072
1973	23430	16630	18400	21670	17360	5100	4100	687	3570	62130	8110	3490	184677
1974	21640	3890	2510	2040	19860	4520	712	1820	43020	1190	28630	10150	139982
1975	8270	31070	4600	5640	71750	54120	20000	5710	3290	2780	1850	1490	210570
MAX	96910	31070	46060	34440	71750	54120	20000	5710	43020	62130	28630	23760	255041
MIN	604	554	685	305	7090	125	26.0	14.0	1150	476	1030	1300	39988
MEAN	22784	14554	15396	11617	27948	12242	5579	1672	7447	11009	9130	8721	148099
NO.	6	8	8	8	8	8	8	9	9	9	9	9	8
DISTR													
OF MEAN	15.4%	9.8%	10.4%	7.8%	18.9%	8.3%	3.8%	1.1%	5.0%	7.4%	6.2%	5.9%	100%

BRAZOS RIVER BASIN

08106500 Little River at Cameron, Texas

LOCATION: Lat 30°49'53", long 96°57'01", Milam County, at the site of the old McCowan Bridge, 2,020 ft (616 m) upstream from the bridge on U.S. Highway 77, 1.1 mi (1.8 km) upstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, and 2 mi (3 km) southeast of Cameron.

DRAINAGE AREA: 7,065 mi<sup>2</sup> (18,290.4 km<sup>2</sup>).

PERIOD OF RECORD: November 1916 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 281.89 ft (85.920 m) above mean sea level. Nov. 2, 1916 to Sept. 30, 1922, nonrecording gage at site 1.8 mi (2.9 km) upstream at different datum. Oct. 1, 1922 to Apr. 8, 1926, nonrecording gage at the McCowan Bridge 30 ft (9 m) downstream at same datum. Apr. 9, 1926 to Oct. 9, 1933, nonrecording gage at the bridge on U.S. Highway 77, 2,020 ft (616 m) downstream at datum 1.58 ft (0.482 m) lower.

AVERAGE DISCHARGE: 60 years, 1,260,296 ac ft/yr (1,553.9 hm<sup>3</sup>/yr)

EXTREMES: Period of record (1916-75): Maximum discharge, 647,000 ft<sup>3</sup>/s (18,300 m<sup>3</sup>/s) Sept. 10, 1921 (gage height, 53.2 ft or 16.22 m, present datum, from floodmark); no flow July 12-27, 1956.

Maximum stage since 1852, that of Sept. 10, 1921.

REMARKS: Records fair. There are many small diversions for irrigation and municipal supply which affect the very low flows. Since 1954, at least 10 percent of the drainage area is regulated by reservoirs. There is some regulation by Belton Lake (station 08102000) on the Leon River beginning on Mar. 8, 1954 and by Stillhouse Hollow Lake (station 08104050) on the Lampasas River beginning on Sept. 2, 1966.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1916	-	-	-	-	-	-	-	-	-	-	7200	5790	-
1917	5850	5030	5110	13800	26600	13200	4830	867	35200	1210	3480	1880	117057
1918	2340	4650	2290	164000	29000	48000	2550	512	5140	46200	178000	186000	668682
1919	220000	189000	141000	124000	257000	317000	247000	102000	135000	434000	336000	234000	2736000
1920	500000	204000	122000	75000	228000	120000	68900	195000	168000	60200	102000	84200	1927300
1921	69500	53500	87300	184000	106000	146000	79900	10700	1565000	36100	20200	23300	2381500
1922	20200	29800	108000	827000	1000000	126000	31200	10600	9520	7780	12100	9200	2191400
1923	7760	20000	39900	245000	98600	53000	17800	2670	62600	29600	72800	317000	966930
1924	98400	179000	217000	180000	172000	131000	22300	10900	27500	8460	6310	7790	1060660
1925	8350	6280	5330	3660	53700	4870	1810	2510	20100	142000	163000	16700	448310
1926	123000	38300	219000	571000	274000	96100	105000	21500	13100	30300	15400	28300	1535000
1927	13700	173000	164000	183000	91300	222000	39400	10900	5660	180000	26600	21800	1151560
1928	18200	85700	41100	27600	42100	98200	12900	21500	8390	3060	2430	11900	373080
1929	17600	12100	33600	142000	535000	140000	26300	8240	53900	8480	29300	7810	1014530
1930	15500	25400	25600	10100	559000	37400	11600	10900	17000	207000	30300	135000	1064800
1931	152000	222000	199000	97600	121000	73800	35700	9590	10200	23600	6370	13300	964160
1932	140000	196000	162000	61300	303000	134000	35200	29000	179000	13200	8330	14400	1277430
1933	67600	34300	68200	49700	114000	46400	14700	27200	12100	4480	6250	3820	450750
1934	71300	78300	121000	293000	39700	10500	3060	1490	6840	968	68330	9600	704088
1935	11380	73860	15420	27990	656500	470100	63000	21340	290700	100400	65990	246800	2043460
1936	64560	37260	36400	46170	682900	203500	184100	19630	352700	359400	176900	352900	2516420
1937	292100	157500	216700	85580	37600	114000	86800	12740	18000	29460	47500	186300	1864300
1938	459600	323900	144700	335000	268700	134500	278700	106000	22440	12400	10030	11250	2107220
1939	28010	19930	27170	25120	118100	63620	18640	14450	3720	11990	3020	4100	337670
1940	4350	21720	5370	106900	118900	246800	402000	19320	8140	4550	506100	610200	2054350
1941	315100	455400	479900	373700	726500	362700	284200	63310	64430	91210	32520	31830	3280800
1942	23720	21230	19170	426000	430500	399500	49920	37310	363200	194900	105100	79630	2150180
1943	57470	35940	63360	80820	60410	21510	13150	5290	17620	14410	7430	11810	389420
1944	135100	250500	293600	104100	1069000	348100	60810	25200	55690	22330	51650	167800	2584260
1945	257400	273100	363800	727300	202500	198400	77800	36380	27460	108900	38880	91320	2443240
1946	139600	206900	286000	149100	296500	130300	28360	13950	68330	31860	195800	142300	1689000
1947	291000	104000	194600	142900	153800	50210	15690	9960	7010	4620	8800	15760	998350
1948	10820	30910	28770	35330	75960	22310	34510	6530	9330	2230	1600	2710	261030
1949	14720	24360	78920	328200	128400	79470	18890	6070	3130	8750	8030	13890	712810
1950	6900	56960	10680	63190	67450	53360	32380	3300	61680	3440	1730	2260	363350
1951	2850	5390	17620	5520	33840	53540	1310	136	9350	1150	914	1410	133230
1952	1550	2340	4660	66480	147500	40450	5930	353	122	470	9690	48830	327952
1953	35500	20140	30660	40770	307300	18560	11660	6330	21400	177600	28190	138100	835610
1954	12230	7230	4250	1660	27130	901	132	384	1010	1060	15690	1410	73087
1955	3520	28440	11870	28640	87040	66360	13950	21800	6740	1240	1100	2030	274780
1956	2120	7050	1400	981	99950	7520	970	2150	262	1770	63080	29840	216220
1957	2170	2790	29490	623900	541900	673900	401700	70230	17550	549600	223900	107600	3244730
1958	88600	367600	360000	121200	388800	118000	32970	11950	66880	24730	19210	14100	1614040
1959	10660	25430	14100	49790	37490	59500	61830	18200	27590	623400	268100	234600	1450690
1960	326700	246700	122700	71070	52760	20360	15850	12440	8660	299800	138600	424800	1740640
1961	487100	530300	356700	114600	55250	176100	215500	94270	114600	109300	54530	77260	2385510
1962	39970	34120	28270	54410	34740	87200	30110	4500	64180	58630	50830	60460	547420
1963	25750	41000	19460	20950	22310	24540	14240	1300	4100	13140	10380	4110	201030
1964	4610	20140	35950	47090	59170	94940	36560	13260	72590	104300	101400	53760	647770
1965	231600	308100	186800	132900	797500	449200	230800	155200	56760	48640	178000	130200	2965700



BRAZOS RIVER BASIN

08106500 Little River at Cameron, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	71090	120300	96460	294900	287900	137000	37740	70220	142100	40550	16840	16440	1331540
1967	13670	11640	9040	44640	80680	9640	25560	14240	20150	27120	78680	44310	379370
1968	474900	246900	315300	293600	366400	289600	175000	18040	22040	10460	23110	48770	2284140
1969	21760	75000	103600	275000	284800	73830	20280	22280	18060	21710	14210	82240	1012770
1970	86750	126300	339700	286300	290100	152900	20070	9500	58450	34670	10810	8860	1424410
1971	6530	6690	26920	33320	37510	36490	28950	36420	8630	41000	57200	108200	427860
1972	69800	26920	21240	9690	74230	39310	8600	6880	4950	49580	42460	25300	378960
1973	92720	76450	108200	118900	141300	97270	49330	14730	28380	249800	121800	41670	1142550
1974	76800	35800	24530	15480	108200	31890	20350	52250	186900	135300	301300	198900	1188100
1975	312000	355200	177000	130600	477100	331600	143200	54160	28710	21850	14950	14990	2061360
MAX	500000	530300	479500	827000	1069000	673900	402000	195000	1565000	623400	506100	610200	3280800
MIN	1550	2340	1400	981	22310	901	97.0	136	122	47.0	914	1410	73087
MEAN	105493	108166	109765	155789	237027	132347	67980	26917	79674	82781	70676	83681	1260296
NO.	59	59	59	59	59	59	59	59	59	59	60	60	59
UNSTR													
OF MEAN	8.4%	8.6%	8.7%	12.4%	18.8%	10.5%	5.4%	2.1%	6.3%	6.6%	5.6%	6.6%	100%

BRAZOS RIVER BASIN

08107000 Big Elm Creek near Temple, Texas

LOCATION: Lat 31°03', Long 97°15', Bell County, 350 ft (106.7 m) below the mouth of Cottonwood Creek, and 6 mi (9.6 km) southeast of Temple.

DRAINAGE AREA: 68.5 mi<sup>2</sup> (177.4 km<sup>2</sup>).

PERIOD OF RECORD: April 1934 to June 1936.

GAGE: Water-stage recorder. Datum of gage not published.

EXTREMES: Period of record (1934-36): Maximum discharge, 15,700 ft<sup>3</sup>/s (444.6 m<sup>3</sup>/s) June 15, 1935 (gage height, 18.05 ft or 5.5 m); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1934	-	-	-	6720	336	360	0	0	0	0	6350	45.0	-
1935	44.0	1940	289	1020	11970	15910	683	67.0	4380	868	1260	12200	50631
1936	1170	592	335	1890	5890	558	-	-	-	-	-	-	-
MAX	1170	1940	335	6720	11970	15910	683	67.0	4380	868	6350	12200	50631
MIN	44.0	592	289	1020	336	360	0	0	0	0	1260	45.0	50631
MEAN	607	1266	312	3210	6065	5491	342	33.5	2190	434	3605	6123	29879
NO.	2	2	2	3	3	3	2	2	2	2	2	2	1
DISTR OF MEAN	2.0%	4.2%	1.0%	10.7%	20.3%	18.4%	1.1%	.1%	7.3%	1.5%	12.7%	20.5%	100%

BRAZOS RIVER BASIN

08107500 Big Elm Creek near Buckholts, Texas

LOCATION: Lat 30°57', long 97°06', Milam County, at the Buckholts-Yarrellton Highway bridge, 3.8 mi (6.1 km) above the mouth of South Elm Creek, and 5.5 mi (8.8 km) northeast of Buckholts.

DRAINAGE AREA: 166 mi<sup>2</sup> (429.9 km<sup>2</sup>).

PERIOD OF RECORD: April 1934 to September 1936.

GAGE: Water-stage recorder. Datum of gage not published.

EXTREMES: Period of record (1934-36): Maximum discharge, 27,600 ft<sup>3</sup>/s (781.6 m<sup>3</sup>/s) December 6, 1935 (gage height, 15.80 ft or 4.8 m); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1934	-	-	-	13200	429	420	0	0	0	0	6100	168	-
1935	106	4150	554	2000	24150	25090	1170	105	6860	1270	1640	33460	100555
1936	1950	994	598	4380	18930	1000	11170	120	2740	-	-	-	-
MAX	1950	4150	598	13200	24150	25090	11170	105	6860	1270	6100	33460	100555
MIN	106	994	554	2000	429	420	0	0	0	0	1640	168	100555
MEAN	1028	2572	576	6527	14503	8698	4113	45.7	3200	635	3870	16814	62582
NO.	2	2	2	3	3	3	3	3	3	2	2	2	1
DISTR CF PERCENT	1.6%	4.1%	.9%	10.4%	23.2%	13.9%	6.6%	.1%	5.1%	1.0%	6.2%	26.9%	100%

BRAZOS RIVER BASIN  
08108000 North Elm Creek near Ben Arnold, Texas

LOCATION: Lat 30°57', long 97°03', Milam County, at the bridge on a county road between Ben Arnold and Yarrellton, 3.5 mi (5.6 km) west of Ben Arnold, and 8 mi (12.9 km) above its confluence with Big Elm Creek.

DRAINAGE AREA: 30.3 mi<sup>2</sup> (78.5 km<sup>2</sup>).

PERIOD OF RECORD: October 1934 to September 1936.

GAGE: Water-stage recorder. Datum of gage not published.

EXTREMES: Period of record (1934-36): Maximum discharge, 3,540 ft<sup>3</sup>/s (100.2 m<sup>3</sup>/s) December 6, 1935 (gage height, 8.90 ft or 2.7 m); no flow at times.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1934	-	-	-	-	-	-	-	-	-	0	75.0	96.0	-
1935	15.0	1540	86.0	0	6490	2880	0	0	316	0	0	3060	14387
1936	18.0	7.50	7.70	722	4050	5.70	3690	0	0	-	-	-	-
MAX	18.0	1540	86.0	722	6490	2880	3690	0	316	0	75.0	3060	14387
MIN	15.0	7.50	7.70	0	4050	5.70	0	0	0	0	0	96.0	14387
MEAN	16.5	774	46.8	361	5270	1443	1845	0	158	0	37.5	1578	11530
NO.	2	2	2	2	2	2	2	2	2	2	2	2	1
DISTR													
OF MEAN	.1%	6.7%	.4%	3.1%	45.7%	12.5%	16.0%	.0%	1.4%	.0%	.3%	13.7%	100%

BRAZOS RIVER BASIN

08108200 North Elm Creek near Cameron, Texas

LOCATION: Lat 30°55'52", long 97°01'13", Milam County, at the bridge on Farm Road 485, 2 mi (3 km) upstream from the mouth, 3 mi (5 km) southwest of Ben Arnold, and 6 mi (10 km) northwest of Cameron.

DRAINAGE AREA: 48.6 mi<sup>2</sup> (126 km<sup>2</sup>).

PERIOD OF RECORD: October 1962 to September 1973.

GAGE: Water-stage recorder and concrete low-water control. Datum of gage is 325.1 ft (99.1 m) above mean sea level.

AVERAGE DISCHARGE: 12 years, 15,781 ac-ft/yr (19.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-73): Maximum discharge, 7,170 ft<sup>3</sup>/s (203 m<sup>3</sup>/s) June 21, 1968, gage height, 9.45 ft (2.88 m); no flow for many days.

Maximum stage since at least 1913, 13.5 ft (4 m) in October 1957, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	.20	976	102	-
1963	1.60	601	5.00	137	0	0	0	0	0	0	0	0	745
1964	0	0	10.0	0	63.0	0	0	8.10	535	2.20	41.0	0	659
1965	2010	4390	117	2300	17480	242	140	0	83.0	.20	612	1250	28624
1966	234	2650	87.0	9760	5250	.80	0	608	1400	16.0	0	41.0	20047
1967	.04	0	0	0	2130	15.0	0	0	87.0	629	3460	1430	7751
1968	10840	414	1520	545	6610	14400	4060	0	0	0	411	1340	40140
1969	.90	1850	2440	6730	1030	0	0	269	0	2170	172	4580	19242
1970	1610	3710	4440	1030	363	46.0	0	0	854	1700	.20	0	13753
1971	0	383	2.30	621	4090	3.90	0	0	0	0	2130	5740	12970
1972	366	20.0	0	419	582	0	213	0	98.0	4660	1110	1980	9448
1973	7450	939	4520	536	2920	2440	171	0	144	-	-	-	-
MAX	10840	4390	4520	9760	17480	14400	4060	608	1400	4660	3460	5740	40140
MIN	0	0	0	0	0	0	0	0	0	0	0	0	659
MEAN	2047	1360	1195	2007	3683	1559	417	80.5	291	834	810	1497	15781
NO.	11	11	11	11	11	11	11	11	11	11	11	11	10
DISTR OF YEAR	13.0%	8.6%	7.6%	12.7%	23.3%	9.9%	2.6%	.5%	1.8%	5.3%	5.1%	9.5%	100%

BRAZOS RIVER BASIN

08109000 Brazos River near Bryan, Texas

LOCATION: Lat 30°36'52", long 96°29'10", Brazos-Burleson County line, 2.4 mi (3.9 km) downstream from the Little Brazos River, 5 mi (8 km) downstream from the Texas and New Orleans Railroad Co. bridge, and 9 mi (14 km) southwest of Bryan.

DRAINAGE AREA: 39,515 mi<sup>2</sup> (102,343.8 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: August 1899 to December 1902, March 1916 to December 1925, July 1926 to December 1975. Prior to September 1925, published as "near College Station".

GAGE: Water-stage recorder. Datum of gage is 192.33 ft (58.622 m) above mean sea level, datum of 1929, Aug. 1, 1899 to Dec. 31, 1902, and Feb. 23, 1918 to Sept. 17, 1925, nonrecording gage at site 7.5 mi (12.1 km) downstream at different datum. Sept. 11, 1925 to Oct. 24, 1932, nonrecording gage at site 3.000 ft (914 m) upstream at present datum.

AVERAGE DISCHARGE: 62 years (1899-1902, 1918-75), 3,842,476 ac-ft/yr (4,737.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1899-1902, 1918-75): Maximum gage height, 54 ft (16.5 m) Sept. 12, 1921, present site and datum (discharge not determined); minimum discharge, 89 ft<sup>3</sup>/s (2.52 m<sup>3</sup>/s) Aug. 24, 1934.

Maximum stage since at least 1854, that of Sept. 12, 1921.

REMARKS: Records fair. The flow is regulated by 24 major reservoirs with a combined capacity of 6,311,000 ac-ft (7,781.5 hm<sup>3</sup>), of which 3,791,000 ac-ft (4,674.3 hm<sup>3</sup>) is for flood control. There are many small diversions above the station for irrigation, municipal and industrial water uses, and oilfield operations. Since 1941, at least 10 percent of the drainage area is regulated by reservoirs.

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1899	-	-	-	-	-	-	-	108400	30290	117900	464800	443900	-
1900	530300	115900	321800	2601000	2044000	751100	172800	167200	1171000	498100	256200	77450	8706650
1901	52700	57000	48250	78110	261400	276100	28120	38100	46450	24720	27150	18490	976590
1902	14450	12940	69700	140900	334700	174100	765500	638400	156700	145800	633600	276300	3363090
1903	-	-	-	-	-	-	-	-	-	-	-	-	-
1904	-	-	-	-	-	-	-	-	-	-	-	-	-
1905	-	-	-	-	-	-	-	-	-	-	-	-	-
1906	-	-	-	-	-	-	-	-	-	-	-	-	-
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	10100	400000	196000	211000	26700	8180	142000	277000	827000	658000	-
1919	689000	542000	320000	522000	1030000	898000	799000	510000	510000	1810000	1400000	695000	9725000
1920	1430000	496000	304000	170000	1160000	459000	172000	640000	762000	251000	343000	234000	6421000
1921	226000	216000	272000	536000	258000	607000	261000	33200	1320000	92200	56300	33200	3910900
1922	31100	46700	231000	2340000	3620000	419000	150600	58700	27600	23100	40700	41000	7030900
1923	27700	84700	124000	760000	405000	306000	49300	11500	130000	250000	410000	105000	3608200
1924	357000	424000	675000	350000	413000	374000	53400	27700	132000	58600	21600	18000	2904300
1925	17900	13700	16400	19300	594000	48100	18800	44500	339000	338000	425000	43100	1917800
1926	-	-	-	-	-	-	357000	212000	310000	367000	78500	186000	-
1927	141000	353000	381000	523000	248000	627000	168000	62900	37800	425000	54000	47800	3068500
1928	41600	221000	108000	166000	376000	499000	168000	232000	79100	12700	27100	113000	2043500
1929	99600	43500	127000	326000	1070000	750000	89800	27800	374000	81800	130000	25800	3145300
1930	23200	90000	78700	30300	2310000	425000	91000	24600	71400	885000	147000	640000	4816200
1931	342000	633000	427000	318000	270000	212000	80600	37800	25000	241000	114000	126000	2826400
1932	719000	776000	505000	155000	879000	424000	546000	97200	904000	103000	41500	122000	5271700
1933	220000	102000	244000	157000	559000	192000	38800	175000	132000	39000	34900	20600	1914300
1934	175000	132000	416000	833000	124000	29600	11400	6950	19400	14510	146400	72340	1980600
1935	66020	228200	72990	140400	2256000	1050000	324700	109400	559000	244000	159200	615700	5825610
1936	134700	72160	65040	64180	966900	391400	472400	35660	868800	1207000	370800	713800	5362860
1937	596200	285800	418300	157700	83260	287600	117600	81050	93040	115700	113400	402400	2752050
1938	999200	901300	458800	914000	737600	455900	427000	249400	46610	26940	21320	21760	5260030
1939	104900	82280	75960	62330	535000	469200	126700	49950	31140	21630	25790	17550	1602430
1940	12420	41900	20110	230900	268300	644100	689800	257400	94650	31260	1299000	1339000	4929040
1941	711200	1137000	917500	701400	2134000	1510000	635800	304500	217200	829900	372000	90200	9560700
1942	95010	59220	51600	1776000	1496000	1010000	114600	99980	787300	714000	311800	236000	6751510
1943	159100	141400	241200	293400	235400	146700	82430	62270	58410	69360	21510	29690	1540870
1944	335900	601200	697000	246100	2395000	631200	112100	59350	170900	61880	144300	348000	5802930
1945	657500	707000	1111000	2002000	462300	451300	408900	126100	80020	331100	85600	322300	6745120
1946	380400	504800	721400	335300	1011000	405700	94670	72860	178000	261400	570400	421800	4957730
1947	620900	206200	476300	332800	649100	238400	79950	106800	61770	33390	41390	11740	2964400
1948	82680	173600	153600	107700	252300	94410	162300	50920	62820	23740	18400	23120	1205590

BRAZOS RIVER BASIN

08109000 Brazos River near Bryan, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	57180	103400	294900	493400	630700	413600	149000	63000	80560	140300	73360	68880	2522780
1950	78850	373700	62800	222400	212300	202500	205900	259900	97380	29450	27340	179640	1979640
1951	44140	50740	49030	24280	98960	257700	78880	75200	17630	29130	24330	17620	829640
1952	19700	22620	28400	174200	280000	81770	55520	63220	36920	6830	33020	128100	933510
1953	121200	391400	153800	82290	889500	55850	59530	47820	51180	221300	51750	300500	2084660
1954	38180	20800	16670	39290	438700	145900	171250	57790	20740	27230	37080	10490	924120
1955	13050	67310	37090	164700	328700	345900	92700	80490	123700	638600	44060	33500	1965800
1956	47630	63140	40910	39400	371600	53500	80590	42230	34720	38650	77770	42530	936810
1957	34230	39440	149400	1657000	3237000	2999000	794900	143500	68330	1117000	615500	304800	11060100
1958	256100	677500	585000	344600	1397000	249200	302500	120000	192100	96120	68330	64070	4322520
1959	55110	115500	61780	195400	162400	233800	182400	89950	65540	158600	441200	480400	3671490
1960	816300	473100	258300	167000	226800	107100	166100	74200	47970	507300	448900	1076000	4369070
1961	1498000	1156000	551300	224700	137800	633500	655200	244000	244200	315000	144400	233100	6078000
1962	126600	103500	90290	130700	117400	326800	123000	290200	520100	240300	123600	164700	2357190
1963	85420	108300	67300	80490	106800	216400	107100	39370	32300	53420	41020	28640	967010
1964	25740	42780	91820	82020	122500	182900	78190	48840	170700	123000	192000	102800	1263290
1965	393600	627300	308100	308100	696500	300600	210200	106200	105700	336900	336900	250500	584900
1966	144000	254900	222600	197000	132800	242100	92440	189100	725100	201700	67860	4334080	4334080
1967	48240	35660	33300	112500	166400	152700	100100	92040	68450	65250	269500	173700	1318340
1968	1005000	581700	898800	706500	1528000	765400	526400	80570	75160	74960	79020	170200	6491710
1969	73350	273300	130200	670500	1152000	350600	173600	91390	100200	74080	114500	223300	3540920
1970	253000	261900	1102000	523400	466300	266500	65750	81700	107200	144100	33130	27600	3332580
1971	47690	47690	34690	57990	82100	63930	80660	113800	73570	316400	299300	565900	1777180
1972	335400	111100	59690	40810	180800	90960	101000	70820	58500	126800	176100	142300	1494280
1973	334100	193800	499100	665800	526200	769800	228500	122900	66900	644000	293400	141000	4485500
1974	494500	956100	351900	373900	978300	807600	282900	159500	84480	73670	63510	65870	4692230
1975	494500	956100	121800	86680	219000	71210	77360	1019000	601700	191900	1445000	398500	4550210
MAX	1498000	1156000	1111000	2601000	3620000	2999000	799000	1019000	1320000	1810000	1445000	1339000	11060100
KIN	12420	12940	10100	19300	82100	24600	11400	6950	19400	8830	18400	10490	829640
MIN	284238	275731	276230	437083	437674	214089	141042	227851	278756	278756	240235	244483	3842476
NC*	59	59	60	60	60	60	61	62	62	62	62	62	59

BRAZOS RIVER BASIN

08109700 Middle Yegua Creek near Dime Box, Texas

LOCATION: Lat 30°20'21", long 96°54'16". Lee County, 25 ft (8 m) upstream from the centerline of the bridge on State Highway 21, 4.5 mi (7.2 km) upstream from West Yegua Creek, and 5.0 mi (8.0 km) southwest of Dime Box.

DRAINAGE AREA: 236 mi<sup>2</sup> (611 km<sup>2</sup>).

PERIOD OF RECORD: August 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 295.4 ft (90.04 m) above mean sea level. June 30 to July 21, 1970, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 14 years, 39,236 ac-ft/yr (48.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 11,400 ft<sup>3</sup>/s (323 m<sup>3</sup>/s) May 24, 1975 (gage height, 15.16 ft or 4.621 m); no flow at times most years.

Maximum stage since at least 1851, 16 ft (4.9 m) in December 1913, from information by local residents.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	0	1150	1190	1370	10450	-
1963	1320	7580	826	3380	346	21.0	0	0	0	0	0	0	13473
1964	.40	.40	141	44.0	45.0	8.50	0	0	159	135	2.80	5.60	542
1965	595	10580	670	476	22180	2770	21.0	1.40	196	357	7560	12510	57916
1966	1500	4990	5360	3940	12000	468	52.0	112	1950	1110	99.0	213	31794
1967	249	292	280	291	364	55.0	0	0	.50	.50	1330	102	2964
1968	26460	2620	6090	5280	9070	9320	1870	9.1	5000	193	1680	11540	79132
1969	1390	12470	15310	21110	3690	202	1.70	45.0	82.0	6.90	105	2570	56983
1970	1370	7680	17240	7180	23290	3410	31.0	0	25.0	184	11.0	0	60421
1971	34.0	85.0	40.0	43.0	1.10	88.0	1.90	0	26.0	549	219	3560	4647
1972	397	463	192	59.0	2470	2230	4.00	0	0	28.0	30.0	76.0	5949
1973	3870	2150	3330	3450	1170	1330	215	14.0	429	15050	3500	1260	35788
1974	15090	1220	935	388	2290	3010	12.0	1120	21910	613	24690	6210	77488
1975	3500	17960	986	750	40690	9250	4160	493	332	155	215	482	78973
MAX	26460	17960	17240	21110	40690	9320	4160	1120	21910	15050	24690	12510	79132
MIN	.40	.40	40.0	43.0	1.10	8.50	0	0	0	0	0	0	542
MEAN	4290	5238	3954	3569	9047	2474	490	128	2233	1398	2915	3500	39236
NO.	13	13	13	13	13	13	13	14	14	14	14	14	13
DISTR													
OF MEAN	10.9%	13.3%	10.1%	9.1%	23.1%	6.3%	1.2%	.3%	5.7%	3.6%	7.4%	8.9%	100%



BRAZOS RIVER BASIN

08109800 East Yegua Creek near Dime Box, Texas

LOCATION: Lat 30°24'26", long 96°49'02", Burleson County, 49 ft (15 m) upstream from the centerline of the bridge on State Highway 21, 0.8 mi (1.3 km) downstream from Buffalo Creek, and 3.5 mi (5.6 km) north of Dime Box.

DRAINAGE AREA: 244 mi<sup>2</sup> (632.0 km<sup>2</sup>).

PERIOD OF RECORD: August 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 284.00 ft (86.56 m) above mean sea level. Nov. 6 to Dec. 10, 1970, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 14 years, 42,148 ac-ft/yr (52.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 14,000 ft<sup>3</sup>/s (396 m<sup>3</sup>/s) May 24, 1975 (gage height, 13.91 ft or 4.240 m); no flow at times most years.

Maximum stage since at least 1886, 17 ft (5.2 m) in 1899 and 1957, from information by local residents.

REMARKS: Records good. There are several diversions above the station for irrigation.

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	0	1950	1080	7450	9150	-
1963	1580	9020	1170	4700	410	80.0	5.00	0	0	0	1.40	47.0	17013
1964	213	361	582	346	1010	229	12.0	0	3000	654	507	372	7286
1965	1070	13180	950	1690	27390	2440	68.0	47.0	98.0	268	4680	7580	59461
1966	1720	7590	3680	11850	11670	402	111	221	885	178	128	246	38661
1967	321	467	375	974	1840	304	.04	.02	216	330	1280	223	6330
1968	16780	1760	3120	3670	7120	27190	13610	144	1620	112	1130	3720	79976
1969	1450	12060	12480	15530	3040	309	8.50	139	459	173	572	2830	49051
1970	2110	8820	16630	5680	18150	1200	72.0	4.90	435	523	183	329	54137
1971	252	262	245	476	440	54.0	1.10	12.0	67.0	70.0	136	1940	3955
1972	429	449	239	59.0	1940	4840	15.0	4.00	172	425	320	262	9154
1973	6870	2510	4880	6040	4180	4060	130	8.70	149	13950	2030	1340	46148
1974	15370	958	1050	425	1920	6600	9.8	4120	30110	765	20630	7270	89226
1975	3780	17610	1110	1280	40360	7800	3490	1040	337	121	189	685	77802
MAX	16780	17610	16630	15530	40360	27190	13610	4120	30110	13950	20630	9150	89228
MIN	213	262	239	59.0	410	54.0	.04	0	0	0	1.40	47.0	3955
MEAN	3996	5773	3578	4055	9190	4270	1349	410	2821	1332	2803	2571	42148
NO. OF	13	13	13	13	13	13	13	14	14	14	14	14	13
CF MEAN	9.5%	13.7%	8.5%	9.6%	21.8%	10.1%	3.2%	1.0%	6.7%	3.2%	6.6%	6.1%	100%

BRAZOS RIVER BASIN

08109900 Somerville Lake near Somerville, Texas

LOCATION: Lat 30° 19' 06", long 96° 31' 24", Burleson County, in the intake structure of Somerville Dam on Yegua Creek, and at the southwest edge of the city limits of Somerville.

DRAINAGE AREA: 1,007 mi<sup>2</sup> (2,608.1 km<sup>2</sup>).

PERIOD OF RECORD: February 1966 to December 1975. Prior to October 1970, published as "Somerville Reservoir near Somerville".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1966-75): Maximum contents, 294,200 ac-ft (362.7 hm<sup>3</sup>) June 28, 1968 (elevation, 247.56 ft or 75.456 m); minimum contents, 117,000 ac-ft (144.3 hm<sup>3</sup>) Nov. 16, 1971 (elevation, 233.88 ft or 71.287 m).

REMARKS: The lake is formed by a rolled earthfill dam 20,210 ft (6,160 m) long, with a 4,715-foot long (1,437-m) dike and 1,250-foot long (381-m) uncontrolled spillway. The lake has a capacity of 160,100 ac ft (197.4 hm<sup>3</sup>). Deliberate impoundment began on Jan. 3, 1967 and the dam was completed on Oct. 27, 1967. The emergency spillway is an uncontrolled ogee weir 1,250-foot (381-m) wide located near the right end of the dam. The low-flow outlet consists of one 10.0-foot diameter (3.0-m) conduit that is controlled by two 5.0- by 10.0-foot (1.5- by 3.0-m) tractor-type gates. The lake was designed for flood control and water conservation. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1966	-	16280	1060	12880	8470	1300	934	382	1370	558	695	530
1967	2000	2910	3530	6710	13750	15620	14670	13160	16940	17620	20510	20890
1968	101500	107200	120500	149400	164300	292700	198400	156800	198100	153200	178100	164700
1969	158900	212100	225500	236000	165300	156200	150000	144100	142400	140300	143300	157100
1970	153900	170800	190700	159400	231900	163300	154600	147900	148400	150500	147400	146100
1971	144400	143300	140000	137500	134800	130700	123800	121600	119700	119200	118800	135600
1972	135100	135500	133100	131300	151400	160500	159500	158300	154700	154500	153800	153700
1973	178000	159100	181300	169000	158000	191200	159500	155100	162000	206900	164300	160900
1974	215600	157900	161300	159100	158300	158000	153400	160200	228500	169100	211200	159300
1975	160300	189300	160100	162100	284100	234200	181400	160200	157800	157800	156000	158600
MAX	215600	212100	225500	236000	284100	292700	198400	160200	228500	206900	211200	164700
MIN	2000	2910	1060	6710	8470	1300	934	382	1370	558	695	530
MEAN	138856	129439	131709	132339	147032	150372	129620	121774	132991	126968	129411	125742
NO.	9	10	10	10	10	10	10	10	10	10	10	10
DISTR OF MEAN	8.7%	8.1%	6.3%	8.3%	9.2%	9.4%	8.1%	7.6%	8.3%	8.0%	8.1%	7.9%

BRAZOS RIVER BASIN

08110000 Yegua Creek near Somerville, Texas

LOCATION: Lat 30°19'18", long 96°30'26", Burleson County, 40 ft (12 m) downstream from the centerline of the bridge on State Highway 36, 860 ft (262 m) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge, 1.0 mi (1.6 km) downstream from Somerville Lake, 2.0 mi (3.2 km) south of Somerville, and 5.0 mi (8.0 km) upstream from Davidson Creek.

DRAINAGE AREA: 1,009 mi<sup>2</sup> (2,613.3 km<sup>2</sup>).

PERIOD OF RECORD: June 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 199.21 ft (60.719 m) above mean sea level, datum of 1929. Prior to Jan. 30, 1934, nonrecording gage at the railway bridge 860 ft (262 m) upstream at datum 34.30 ft (10.456 m) higher. Jan. 30, 1934 to Nov. 30, 1970, water-stage recorder at the highway bridge 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE: 52 years, 211,797 ac-ft/yr (261.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 56,800 ft<sup>3</sup>/s (1,610 m<sup>3</sup>/s) July 1, 1940 (gage height, 19.27 ft or 5.873 m); no flow at times.

Maximum stage since at least 1875, 22 ft (6.7 m) Dec. 5, 1913, present site and datum, from information by the Gulf, Colorado, and Santa Fe Railway Co.

REMARKS: Records good. The flow is regulated by Somerville Lake (station 08109900) since Feb. 3, 1968.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	20200	176	8.50	.60	0	1.80	13.7	-
1925	30.5	30.9	32.5	31.3	21.2	0	158	0	11.7	193000	64900	783	258999
1926	28000	1460	108000	172000	48000	1320	586	150	65.7	4540	12000	50100	426222
1927	3930	17900	30100	60400	1560	8150	14900	154	23.8	260	154	255	137787
1928	799	17400	2560	1750	229	851	36.0	0	0	0	411	21800	45836
1929	1940	271	3530	50200	163000	65500	8850	96.0	0	0	31600	507	325494
1930	11300	20200	12500	2350	64600	1200	22.0	0	64.3	14600	9160	36400	172975
1931	86100	47800	52400	6490	19400	201	561	251	0	294	1.20	4160	217658
1932	184000	118000	50200	2960	8300	5460	52.0	17.0	32300	2940	43.0	1460	405732
1933	24300	40800	29500	3940	5710	1090	1220	2040	1010	58.0	0	0	109668
1934	45400	62200	74400	73800	1030	424	33.0	17.0	0	0	3740	23450	284494
1935	11270	19510	1990	9070	143400	7490	609	76.0	29560	1950	1790	26520	253235
1936	1990	2550	2200	1480	173300	12430	120200	629	2020	4280	919	5190	327188
1937	22210	3290	10340	2790	213	572	1.80	0	0	12600	18650	18760	89427
1938	59200	6440	9570	102000	49590	5190	295	190	0	0	340	24.0	232839
1939	5650	14230	1300	48.0	10480	2130	2.40	785	3.00	41.0	0	952	35621
1940	36.0	3800	24.0	2090	13800	57480	206800	78.0	289	822	84760	132800	502779
1941	24430	24990	63670	27540	60760	95490	155900	1270	210	1130	8680	1410	465480
1942	867	869	787	52920	2400	1950	3290	81.0	3160	429	2870	3170	72793
1943	9940	1150	8720	1640	6740	3850	96.0	4.80	708	714	52.0	7.22	34337
1944	41080	38130	32850	3180	37400	4120	618	2510	10680	12.0	52560	66610	289750
1945	81870	22590	12380	66460	5940	21630	1890	42740	8230	24010	1610	5160	294510
1946	37210	31370	86650	8120	26230	14250	447	1.60	3280	4230	60910	8480	281179
1947	36640	2600	56750	10900	26410	1670	1940	99750	459	7.30	3.20	1690	238819
1948	332	6870	1080	307	5660	254	805	0	0	0	0	0	15208
1949	1070	26750	16970	106800	13970	5100	239	.20	662	34460	610	12020	218651
1950	6520	53510	2820	52410	21760	64480	2140	13.0	12690	82.0	.60	3.40	216429
1951	14.0	198	4610	2670	615	1670	0	0	120	1.20	96.0	.20	9994
1952	.80	891	494	5500	17620	1960	18960	12.0	11.0	0	3020	18370	66839
1953	16250	4310	1870	6330	70110	186	6140	598	3870	18710	7430	12240	148044
1954	2310	1010	343	803	6570	59.0	109	2450	0	0	51.0	84.0	13789
1955	299	17500	110	3770	210	4480	4.60	553	199	173	0	27.0	27326
1956	308	13060	3120	6410	1840	391	0	0	0	0	0	6.39	25768
1957	3.60	354	13650	134800	73110	63050	261	2.60	15560	136400	54380	12990	504761
1958	43390	73240	13800	20430	59940	715	12970	.60	38190	11890	8290	2570	285426
1959	3920	36470	4380	97900	14000	1380	74.0	0	0	3040	13510	20620	195294
1960	18770	26260	6430	10690	27870	39480	4130	1580	252	47950	90040	63030	336482
1961	70970	59600	10740	4120	7670	113000	16360	714	140200	2390	18260	11600	455624
1962	12080	4880	4870	3890	6770	8920	9110	2.00	12100	14690	24500	58380	160192
1963	11580	37700	3710	16680	1440	290	155	0	307	0	340	1440	73642
1964	1060	3680	13490	2850	2820	2180	5.80	0	2210	4150	1990	3490	37926
1965	5040	73520	4460	3590	188200	26330	317	735	68.0	1660	29910	82400	416230
1966	11380	30770	43080	6520	59740	7370	324	1290	8040	2480	508	6.36	172138
1967	98.0	3.90	3.50	54.0	46.0	2.50	0	0	0	0	0	0	208
1968	89.6	35.0	35.1	130	48000	30200	125800	39600	30500	45030	1700	64970	386090
1969	12090	17900	65790	87780	96100	5100	25.0	25.0	11.0	133	131	202	285287
1970	11610	17840	52530	53820	26090	86400	2370	47.0	32.0	54.0	15.0	11.0	250819
1971	30.0	38.0	21.0	2.70	.30	0	89.0	231	.70	0	0	24.0	437
1972	27.0	14.0	22.0	22.0	45.0	1010	206	14.0	355	256	314	165	2450
1973	14100	48860	17740	54950	19400	41350	31140	21.0	224	56650	55950	11920	351705

BRAZOS RIVER BASIN

08110000 Yegua Creek near Somerville, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	17930	68760	3570	1800	7110	11500	14.0	53.0	47280	77510	67700	88610	391841
1975	21910	39660	33920	5380	29580	91800	72920	22830	2520	100	91.0	157	320788
MAX	184000	118000	108000	172000	188200	113000	206800	99750	140000	193000	90040	132800	504761
MIN	.80	3.90	3.50	2.70	.30	0	0	0	0	0	0	0	208
PLAN	19635	22768	19104	26521	32837	16102	15834	4262	7647	13906	14115	16866	211797
NO.	51	51	51	51	51	52	52	52	52	52	52	52	51
DISTH													
CF YEAN	9.33	10.83	9.03	12.53	15.53	8.53	7.53	2.03	3.73	6.63	6.73	8.03	103

BRAZOS RIVER BASIN

08110100 Davidson Creek near Lyons, Texas

LOCATION: Lat 30°25'10", long 96°32'24", Burleson County, 83 ft (25 m) downstream from the bridge on Farm Road 60, 1.2 mi (1.9 km) downstream from Berry Creek, and 2.8 mi (4.5 km) northeast of Lyons.

DRAINAGE AREA: 195 mi<sup>2</sup> (505 km<sup>2</sup>).

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 220.26 ft (67.135 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 45,806 ac-ft/yr (56.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 23,200 ft<sup>3</sup>/s (657 m<sup>3</sup>/s) June 24, 1968 (gage height, 18.67 ft or 5.691 m); no flow at times each year.

Maximum stage since at least 1902, that of June 24, 1968.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	-	-	-	-	-	3920	13210	10370	-
1963	1500	10330	792	8040	320	61.0	7.90	5.40	0	0	120	530	21706
1964	789	588	1870	1040	2130	231	0	0	251	316	85.0	634	7934
1965	1170	15980	516	519	21960	1600	11.0	0	0	0	1520	10460	53736
1966	3030	14260	2780	8390	8360	213	17.0	80.0	2560	152	13.0	60.0	39915
1967	45.0	67.0	89.0	1140	3070	192	0	0	.70	.20	0	0	4604
1968	5380	490	3290	4070	10290	50020	3780	68.0	3730	177	3250	8330	92875
1969	1440	17160	18010	28680	2410	393	0	0	0	0	21.0	1850	69964
1970	946	6020	10120	3990	21200	981	26.0	0	188	19.0	1.00	0	43491
1971	12.0	134	27.0	116	611	3.60	0	99.0	7.10	707	182	3440	5339
1972	314	180	56.0	14.0	3820	1220	180	58.0	41.0	543	217	92.0	6735
1973	9860	3830	11890	14730	2740	25820	204	73.0	488	27340	1610	2990	101575
1974	13780	894	820	243	1200	2900	11.0	2070	25450	1790	20800	6730	76688
1975	4180	12970	706	1330	20600	5550	3290	1880	1100	85.0	97.0	350	52138
MAX	13780	17160	18010	28680	21960	50020	3780	2070	25450	27340	20800	10460	101575
MIN	12.0	67.0	27.0	14.0	320	3.60	0	0	0	0	0	0	4604
MEAN	3265	6377	3920	5562	7593	6860	579	333	2601	2504	2938	3274	45806
NO.	13	13	13	13	13	13	13	13	13	14	14	14	13
CF MEAN	7.1%	13.9%	6.6%	12.1%	16.6%	15.0%	1.3%	.7%	5.7%	5.5%	6.4%	7.1%	100%

BRAZOS RIVER BASIN

08110200 Brazos River at Washington, Texas

LOCATION Lat 30 21'40", long 96 09'18", Brazos Washington County line, at the bridge on State Highway 105, 2.4 mi (3.9 km) upstream from the Navasota River, and 2.5 mi (4.0 km) north of Washington.

DRAINAGE AREA: 41,192 mi<sup>2</sup> (106,687.3 km<sup>2</sup>)

PERIOD OF RECORD: November 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 140 13 ft (42,712 m) above mean sea level, datum of 1929. Auxiliary water-stage recorder 1.8 mi (2.9 km) downstream at same datum.

AVERAGE DISCHARGE: 11 years, 4,014,462 ac-ft/yr (4,949.8 hm<sup>3</sup>/yr).

EXTREMES Period of record (1965-75): Maximum discharge, 82,500 ft<sup>3</sup>/s (2,340 m<sup>3</sup>/s) Jan. 24, 1964 (gage height, 33.60 ft or 10.241 m); maximum gage height, 36.74 ft (11.198 m) Apr. 28, 1956 (backwater from the Navasota River); minimum, 276 ft<sup>3</sup>/s (7.82 m<sup>3</sup>/s) Feb. 17, 19, 1971.

Maximum stage since at least 1856, 62.0 ft (18.90 m) Dec. 6, 1913, from information by local residents.

REMARKS Records good. There is backwater at times from the Navasota River. There are many diversions above the station for irrigation, municipal, industrial, and oilfield operations. The flow is regulated by 26 major reservoirs with a combined capacity of 6,829,000 ac-ft (8,420.2 hm<sup>3</sup>), of which 4,138,000 ac-ft (5,102.2 hm<sup>3</sup>) is for flood control.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	-	-	-	-	-	-	390300	369500	-
1966	168900	291000	317700	764200	1504000	252000	99310	213800	729600	244400	60640	64930	4750480
1967	49750	35600	30240	129400	186000	163900	94700	86940	69520	53690	309100	175800	1386640
1968	1082000	619300	939700	610900	1739000	907800	679100	153800	161400	129000	128000	324300	7474300
1969	103600	246700	466700	685600	1393000	367900	165200	88600	97110	61420	116500	251800	4246330
1970	290500	270500	1119600	555700	523600	338500	73820	96430	111900	140400	43780	33790	3597920
1971	54890	21550	31190	57220	86830	68710	77080	132400	86840	304500	261100	544400	1726710
1972	334700	133400	78610	55700	215000	122300	98590	79900	64930	119800	194100	147800	1645030
1973	402600	269300	548800	818800	615100	862000	338700	164900	74340	746000	375500	217700	5433740
1974	339400	159600	120800	88150	215000	75700	71850	117600	747600	295700	1493000	576700	4303100
1975	623500	1032000	460200	422200	1017000	962800	392300	192200	103600	89960	76300	77900	5369380
MAX	1082000	1032000	1119000	885600	1739000	962800	679100	213800	747600	746000	1493000	578700	7474300
MIN	49750	21550	30240	55700	86830	68710	71850	79900	64930	53690	43780	33790	1386640
MEAN	347004	307895	405314	438787	749453	412161	209065	132857	224624	218489	315484	253329	4014462
NO.	10	10	10	10	10	10	10	10	10	10	11	11	10
DISTR													
OF YEAR	8.6%	7.7%	10.1%	10.9%	18.7%	10.3%	5.2%	3.3%	5.6%	5.4%	7.9%	6.3%	100%

BRAZOS RIVER BASIN

08110300 Lake Mexia near Mexia, Texas

LOCATION: Lat 31°38'37", long 96°34'42", Limestone County, 550 ft (168 m) downstream from Cedar Creek, 610 ft (186 m) upstream from the spillway of the dam on the Navasota River, 1.0 mi (1.6 km) upstream from Echo Dam, 1.6 mi (2.6 km) upstream from Jacks Creek, and 6 mi (10 km) southwest of Mexia.

DRAINAGE AREA: 196 mi<sup>2</sup> (507.6 km<sup>2</sup>).

PERIOD OF RECORD: July 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 420.0 ft (128.02 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1961-75): Maximum contents, 20,320 ac-ft (25.1 hm<sup>3</sup>) Oct. 31, 1974 (gage height, 34.40 ft or 10.485 m); minimum contents, 3,730 ac-ft (4.60 hm<sup>3</sup>) Jan 15, 1964 (gage height, 21.40 ft or 6.523 m).

REMARKS: The lake is formed by a 1,845-foot (561.3 m) earthfill dam, including a 520-foot (158.5-m) uncontrolled concrete ogee-type spillway near the center of the dam. The dam was completed and deliberate impoundment began on June 5, 1961. The capacity of the lake is 9,400 ac-ft (11.6 hm<sup>3</sup>). The dam is operated by the Bistone Municipal Water Supply District.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1961	-	-	-	-	-	-	9300	8410	9170	9460	9440	9370
1962	9470	9460	9230	9870	9610	9810	8520	7400	7130	6770	6950	7170
1963	6910	6840	6590	6370	6810	6210	5400	4770	4340	3990	3870	3820
1964	5660	6430	7110	6820	6250	5550	4720	4420	4550	4240	5130	4900
1965	8870	9560	10640	9460	9710	8930	7840	6930	6700	6360	9130	9360
1966	9560	9800	9230	10360	9330	8700	7580	9170	9570	8940	8510	8630
1967	8380	8010	8300	9480	10400	8930	7960	7230	9200	10330	9430	9900
1968	9880	9930	9500	9580	9430	9510	9100	8040	8100	7640	10140	9300
1969	9260	9480	9510	9580	9360	8430	7260	6510	6000	6530	8100	9710
1970	9270	10770	9440	9360	9710	8730	7590	6620	9500	9370	8920	8680
1971	8310	8110	7540	7100	6610	5920	6550	7130	6960	9200	9410	9660
1972	9800	9330	8660	8380	7580	7580	8970	8270	7600	9580	9430	9430
1973	9680	9540	9500	9570	9470	9280	9040	8000	7940	10770	9470	9460
1974	9580	9530	9400	9400	8830	8160	7140	9730	9410	19370	9830	9640
1975	9510	9440	9470	10950	9910	9500	9100	8260	8180	8240	8310	8350
MAX	9880	10770	10640	10950	10400	9810	9300	9730	9570	19370	10140	9900
MIN	5660	6430	6590	6370	6250	5550	4720	4420	4340	3990	3870	3820
MEAN	8867	9016	8880	9020	8786	8231	7738	7393	7623	8719	8405	8492
NO. OF MEAN	14	14	14	14	14	14	15	15	15	15	15	15
DISTR	8.8%	8.9%	8.8%	8.9%	8.7%	8.1%	7.6%	7.3%	7.5%	8.6%	8.3%	8.4%

BRAZOS RIVER BASIN

08110400 Navasota River near Groesbeck, Texas

LOCATION: Lat 31°30'45", long 96°27'03", Limestone County, 43 ft (13 m) downstream from the bridge on State Highway 164, 0.4 mi (0.6 km) downstream from Pin Oak Creek, and 5 mi (8 km) east of Groesbeck.

DRAINAGE AREA: 311 mi<sup>2</sup> (805.5 km<sup>2</sup>).

PERIOD OF RECORD: March 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 353.84 ft (107.850 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1972, at 5.0 ft (1.52 m) higher datum.

AVERAGE DISCHARGE: 11 years, 148,437 ac-ft/yr (183.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 27,000 ft<sup>3</sup>/s (765 m<sup>3</sup>/s) Nov. 1, 1974 (gage height, 25.55 ft or 7.788 m); no flow at times in 1967, 1969, and 1971-72.

Maximum stage occurred in 1932 and reached a stage of 28.7 ft (8.75 m), from information by the Texas Highway Department.

REMARKS: Records fair. The flow is partly regulated by Lake Mexia (station 08110300) located 14.4 mi (23.2 km) upstream (capacity, 9,400 ac-ft or 11.6 hm<sup>3</sup>) and Springfield Lake located 8.0 mi (12.9 km) upstream (capacity, 3,100 ac-ft or 3.82 hm<sup>3</sup>). There are several diversions above the station for irrigation, municipal supply, and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	40350	12260	117300	3930	357	55.0	296	73.0	219	914	-
1966	768	11870	1540	117200	15830	274	53.0	15780	10370	642	91.0	204	174622
1967	129	91.0	130	7880	2940	6020	23.0	2.60	2330	4110	15810	21360	60826
1968	39800	13660	27510	32480	60940	28690	3280	121	224	203	1430	8540	216878
1969	2440	14550	32760	21000	17390	184	27.0	2.60	5.00	623	852	23410	113244
1970	5360	20060	42270	6730	268	261	6.80	.80	1120	7290	190	129	83686
1971	94.0	253	74.0	24.0	279	.80	136	139	838	845	15470	55130	73283
1972	22090	2240	184	115	63.0	856	10110	133	14.0	2740	2040	7920	48505
1973	28560	3910	40810	42060	2440	82870	1760	164	369	70900	21410	8070	303323
1974	18140	5940	5540	4450	2990	100	16.0	157	41620	7940	97650	13740	196283
1975	9820	42150	4330	11540	76330	12680	2080	317	333	296	150	183	160209
MAX	39800	42150	42270	117200	117300	82870	10110	15780	41620	70900	97650	55130	303323
MIN	94.0	91.0	74.0	24.0	63.0	.80	6.80	.80	5.00	73.0	91.0	129	48505
MEAN	12720	11472	17773	23249	26979	12351	1623	1534	5229	8697	14119	12691	148437
NO.	10	10	11	11	11	11	11	11	11	11	11	11	10
DISTR													
OF MEAN	8.6%	7.7%	12.0%	15.7%	18.2%	8.3%	1.1%	1.0%	3.5%	5.9%	9.5%	8.5%	100%



BRAZOS RIVER BASIN

08110500 Navasota River near Easterly, Texas

LOCATION: Lat 31°10'10", long 96°17'54", Leon-Robertson County line, at the bridge on U.S. Highway 79, 1.0 mi (1.6 km) upstream from the Missouri-Pacific Railroad Co. bridge, and 7 mi (11 km) northeast of Easterly.

DRAINAGE AREA: 968 mi<sup>2</sup> (2,507.1 km<sup>2</sup>).

PERIOD OF RECORD: April 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 276.46 ft (84.265 m) above mean sea level, datum of 1929. Prior to June 11, 1932, nonrecording gage at the railroad bridge 1.0 mi (1.6 km) downstream at datum 24.86 ft (7.577 m) higher.

AVERAGE DISCHARGE: 52 years, 306,834 ac-ft/yr (378.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 60,300 ft<sup>3</sup>/s (1,710 m<sup>3</sup>/s) May 2, 1944 (gage height, 22.13 ft or 6.745 m); no flow at times.

Maximum stage since about 1845, 24 ft (7.3 m) in June 1899, from information by local residents (discharge, 90,000 ft<sup>3</sup>/s or 2,550 m<sup>3</sup>/s).

REMARKS: Records good. Since 1961, at least 10 percent of the drainage area is regulated by reservoirs. There are numerous diversions above the station for irrigation, municipal supply, and oilfield operations.

DISCHARGE IN AC FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	11200	15300	54500	377	0	3180	246	1710	307	-
1925	579	555	641	561	0	0	789	196	12000	26400	99100	1400	142221
1926	28400	3090	87200	111000	32500	40800	14000	1210	194	8600	7590	40300	374884
1927	93900	47200	29800	33600	21800	50000	2010	168	161	97500	1520	3630	381289
1928	2100	51300	7440	10900	2540	52000	8730	965	149	265	2740	56800	197929
1929	25500	9440	14800	28100	31000	141000	3260	371	74.0	787	26100	1880	561312
1930	7560	12300	18100	3520	295000	1680	250	36.0	138	15700	4110	64000	422394
1931	32800	94400	19200	16500	36400	750	910	347	18.0	19.0	141	8980	210465
1932	249000	150000	33600	4110	29200	10200	383	35.0	203000	573	565	6820	687486
1933	31900	7660	25000	23400	31100	2520	174	169	578	194	199	492	123386
1934	13800	7050	76200	87500	1760	162	34.0	17.0	80.0	36.0	8720	11900	207259
1935	6080	71980	13120	77620	216700	30500	2460	737	12380	43420	12730	211800	699527
1936	4050	2810	5420	2050	32500	4920	129000	432	642	16480	5720	49700	253724
1937	78820	14500	80810	6280	1540	7180	204	48.0	5400	225	16380	12470	223857
1938	86940	19800	7270	50820	5280	25180	2430	664	65.0	59.0	252	285	199045
1939	5540	4020	5980	1610	21580	13570	244	19.0	1190	28.0	41.0	128	53950
1940	274	1780	301	8060	28860	8070	17350	243	251	229	219200	103700	388318
1941	74770	87500	41170	15900	21110	60300	14000	2610	961	390	938	1640	321329
1942	763	1460	1010	60180	88460	26560	517	527	20270	1700	11060	25830	238337
1943	10110	1430	8540	8330	6420	10870	455	43.0	27.0	3890	855	966	51936
1944	59150	127900	63820	5950	310200	16280	416	294	945	98.0	19220	54710	660983
1945	80080	39140	116500	149400	12280	15960	11600	30840	26290	57330	5180	112600	657200
1946	52600	69420	72230	16030	176100	51090	1650	469	3080	731	89370	15070	548040
1947	78560	5680	81250	13260	131200	23800	737	1160	370	199	318	3340	339874
1948	6920	26450	12930	12720	30650	816	2620	89.0	102	94.0	187	857	96435
1949	28430	6600	42020	12800	2500	9580	1880	259	729	45750	935	2280	153763
1950	29610	115300	3620	38060	7810	10240	2020	227	150	147	464	277	207925
1951	379	740	1620	1240	4710	3180	58.0	5.80	4080	132	164	575	16884
1952	642	8200	9650	24160	42580	1120	133	32.0	19.0	23.0	3780	22840	113379
1953	23410	2530	71820	4230	206800	612	665	450	572	3730	6390	80270	401479
1954	12720	1590	920	1230	27920	221	24.0	21.0	14.0	194	1150	1700	47704
1955	2000	14800	9750	24260	9690	5280	685	787	37.0	292	25.0	135	67741
1956	612	8080	437	296	38810	2120	34.0	18.0	75.0	11.0	2300	145	52938
1957	145	5320	28540	236000	201600	43800	242	34.0	203	150500	53090	4530	724004
1958	17280	29180	5510	6720	49770	11700	725	28700	43180	10260	1110	2690	206825
1959	1780	30490	5770	43130	74580	80560	7550	1560	1960	37200	24300	71390	380270
1960	62360	19990	22380	7300	17650	11520	2000	814	299	13600	22880	198700	379493
1961	182900	119700	23670	6160	2430	106700	29130	1330	20440	2330	5280	25390	525460
1962	19420	8160	5460	19160	18340	15110	2420	86.0	227	1190	1420	1080	92073
1963	666	2200	1670	1340	1010	288	190	50.0	95.0	74.0	103	284	7970
1964	586	1200	5060	4590	1440	176	23.0	2000	3120	270	1320	328	20113
1965	32780	38030	31450	88560	319400	28920	812	151	384	194	930	3990	545601
1966	2740	18590	9780	223800	74160	881	138	29870	75190	2010	562	1200	438921
1967	1040	839	1190	9870	8150	7320	282	53.0	2770	742	22100	34410	88766
1968	128000	25970	65300	82040	143700	106900	11890	370	592	277	3460	22380	590879
1969	10030	55000	113800	154800	44350	808	237	2150	157	1400	6500	61790	451022
1970	17850	36150	109800	29000	1750	676	108	57.0	2100	19080	917	632	218120
1971	653	8740	1450	868	2080	117	240	612	769	1410	19970	86190	123094
1972	37560	10580	1090	498	423	1190	8750	457	71.0	8470	11160	16050	96299
1973	74950	17400	135800	116900	35710	166300	6110	519	4760	155400	66340	58710	838899

BRAZOS RIVER BASIN  
0810500 Navasota River near Easterly, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	99930	21110	17820	13230	20500	582	168	404	96030	3250	241500	43710	558234
1975	23730	98660	10700	26810	170200	26830	12750	1380	784	6680	1590	1980	382094
MAX	249000	150000	135800	236000	319400	166300	129000	30840	203000	155400	241500	211800	838899
MIN	145	555	301	296	0	0	23.0	0	14.0	11.0	25.0	128	7970
MEAN	36129	30667	30561	37224	65126	24875	5844	2194	10584	14227	19879	29524	306834
NO.	51	51	51	52	52	52	52	52	52	52	52	52	51
DISTR OF MEAN	11.8%	10.0%	10.0%	12.1%	21.2%	8.1%	1.9%	.7%	3.4%	4.6%	6.5%	9.6%	100%

**BRAZOS RIVER BASIN**  
**08111000 Navasota River near Bryan, Texas**

LOCATION: Lat 30°52'10", Long 96°11'32", Brazos-Madison County line, at the bridge on U.S. Highway 190, 2.5 mi (4.0 km) upstream from Shepherd Creek, and 17 mi (27 km) northeast of Bryan.

DRAINAGE AREA: 1,454 mi<sup>2</sup> (3,765.9 km<sup>2</sup>).

PERIOD OF RECORD: January 1951 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 224.64 ft (68.470 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 25 years, 386,739 ac-ft/yr (476.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1951-75): Maximum discharge, 38,200 ft<sup>3</sup>/s (1,080 m<sup>3</sup>/s) Apr. 29, 1966 (gage height, 16.57 ft or 5.051 m); no flow at times.

Maximum stage since about 1840, 19.5 ft (5.94 m) in June 1890, from information by local residents.

REMARKS: Records good. Since 1961, at least 10 percent of the drainage area is regulated by reservoirs. There are numerous diversions above the station for irrigation, municipal supply, and oilfield operations.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	1460	3200	7120	3770	7630	4040	245	28.0	2990	270	428	1470	32651
1952	1500	8960	12470	29460	30360	15770	340	35.0	0	0	2820	24100	125815
1953	34910	6150	69230	15480	251300	1360	1230	806	1820	16370	9450	115100	523206
1954	15260	3860	2580	2860	43100	765	52.0	2.20	0	834	2510	2780	74603
1955	4190	30400	12300	66580	11170	6510	780	776	135	296	444	536	134117
1956	2020	28410	2920	2730	26180	1780	33.0	0	5.20	0	1760	358	66196
1957	406	4440	19420	271900	245500	59390	753	242	159	203900	56120	16040	878270
1958	24770	44740	20830	8140	58930	15840	1620	13840	84550	17310	4800	6620	301990
1959	5230	60140	9150	94850	90620	60270	27450	4540	1870	36960	33840	93820	518740
1960	95020	33180	34880	7010	28340	8860	11260	2570	708	25520	83890	255400	586638
1961	247700	157000	42110	14550	3970	95080	37530	2410	28670	4620	11200	55170	700010
1962	31320	23240	12730	14590	31340	20210	4330	185	558	1360	2380	4200	146443
1963	2610	7630	3540	7030	3660	2430	333	48.0	36.0	82.0	320	983	28702
1964	1540	2760	9720	6630	5060	638	25.0	3420	6550	1160	4570	2060	44133
1965	30580	51710	9760	120300	338200	57830	998	214	421	574	4880	11910	627377
1966	9570	29340	15590	244200	142100	1800	407	20850	83140	6370	1390	2210	556967
1967	2660	2360	2990	15690	10180	8600	335	100	2850	710	19980	27840	94295
1968	125300	29960	62690	105600	157400	131200	52140	1070	1290	716	3050	34840	705256
1969	17390	73470	168300	222600	74850	2110	423	2040	518	278	7290	52330	621599
1970	24720	25840	125100	44150	7020	2560	254	95.0	2830	31970	2560	1730	268829
1971	1690	8120	9930	1570	5500	495	156	1140	486	2170	20830	108110	160197
1972	46730	17200	2180	1110	934	1210	10290	572	272	5740	29310	21300	136848
1973	89780	56960	193200	108500	63460	181200	7690	481	19780	205300	70700	75480	1072531
1974	148400	50400	26340	18010	37790	2850	562	15290	146200	4630	244400	75260	770132
1975	33870	142800	16200	24450	187700	42560	24720	4000	2630	6970	3210	3860	492970
MAX	247700	157000	193200	271900	338200	181200	52140	20850	146200	205300	244400	255400	1072531
MIN	406	2360	2180	1110	934	495	25.0	0	0	0	320	358	28702
MEAN	39945	36091	35651	58070	74492	29014	7358	2990	15539	22964	24885	39740	386739
NO. DISTR	25	25	25	25	25	25	25	25	25	25	25	25	25
OF MEAN	10.3%	9.3%	9.2%	15.0%	19.3%	7.5%	1.9%	.8%	4.0%	5.9%	6.4%	10.3%	100%

BRAZOS RIVER BASIN

08111025 Burton Creek at Villa Maria Road at Bryan, Texas

LOCATION: Lat 30°38'48", long 96°20'57", Brazos County, 60 ft (18.3 m) downstream from the bridge on Villa Maria Road in Bryan, and 2.8 mi (4.5 km) upstream from Carters Creek.

DRAINAGE AREA: 1.33 mi<sup>2</sup> (3.4 km<sup>2</sup>).

PERIOD OF RECORD: May 1968 to September 1970.

GAGE: Water-stage recorder and concrete control. Datum of gage is 281.23 ft (85.7 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1968-70): Maximum discharge, 1,850 ft<sup>3</sup>/s (52.4 m<sup>3</sup>/s) September 18, 1969 (gage height, 8.72 ft or 2.6 m); no flow for many days.

Maximum stage since at least 1955, 13.5 ft (4.1 m) in 1957 and 1960, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	278	732	248	6.00	61.0	52.0	319	66.0	-
1969	30.0	202	254	771	132	60.0	3.40	91.0	378	64.0	77.0	210	2272
1970	92.0	182	145	187	110	72.0	12.0	6.00	434	-	-	-	-
MAX	92.0	202	254	771	278	732	248	91.0	434	64.0	319	210	2272
MIN	30.0	182	145	187	110	60.0	3.40	6.00	61.0	52.0	77.0	66.0	2272
MEAN	61.0	192	200	479	173	288	87.8	34.3	291	58.0	198	138	2200
NO.	2	2	2	2	3	3	3	3	3	2	2	2	1
DISTR OF MEAN	2.8%	8.7%	9.1%	21.8%	7.9%	13.1%	4.0%	1.6%	13.2%	2.6%	9.0%	6.3%	100%

BRAZOS RIVER BASIN

08111050 Hudson Creek near Bryan, Texas

LOCATION: Lat 30°39'38", long 96°17'50", Brazos County, 5 ft (1.5 m) upstream from a culvert on Farm Road 158, and 4.3 mi (6.9 km) east of Bryan.

DRAINAGE AREA: 1.94 mi<sup>2</sup> (5.0 km<sup>2</sup>).

PERIOD OF RECORD: May 1968 to September 1970.

GAGE: Water-stage recorder. Datum of gage is 269.2 ft (82.0 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1968-70): Maximum discharge, 828 ft<sup>3</sup>/s (23.4 m<sup>3</sup>/s) July 9, 1968 (gage height, 10.85 ft or 3.3 m); no flow for many days.

Maximum stage since at least 1879, that of July 9, 1968.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	245	707	348	.40	.08	27.0	239	129	-
1969	18.0	186	329	607	202	4.90	0	0	11.0	.08	34.0	178	1570
1970	82.0	162	186	223	30.0	4.70	0	0	182	-	-	-	-
MAX	82.0	186	329	607	245	707	348	.40	182	27.0	239	178	1570
MIN	18.0	162	186	223	30.0	4.70	0	0	.08	.08	34.0	129	1570
MEAN	50.0	174	258	415	159	239	116	.13	64.4	13.5	137	154	1780
NO.	2	2	2	2	3	3	3	3	3	2	2	2	1
DISTR OF MEAN	2.8%	9.8%	14.5%	23.3%	8.9%	13.4%	6.5%	.0%	3.6%	.8%	7.7%	8.6%	100%

BRAZOS RIVER BASIN

08111500 Brazos River near Hempstead, Texas

LOCATION: Lat 30°07'35", long 96°11'05", Washington-Waller County line, at the bridge on relocated U.S. Highway 290, 6,000 ft (1,830 m) upstream from the Texas and New Orleans Railroad Co. bridge, 6.5 mi (10.5 km) northwest of Hempstead, and 10.5 mi (16.9 km) upstream from Caney Creek.

DRAINAGE AREA: 43,880 mi<sup>2</sup> (113,649.2 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1938 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 117.90 ft (35.936 m) above mean sea level, datum of 1929. Prior to Nov. 1, 1940, nonrecording gage at the railroad bridge 6,000 ft (1,830 m) downstream at datum 5.80 ft (1.768 m) lower. Nov. 1, 1940 to Sept. 30, 1963, nonrecording gage at site 1,500 ft (457 m) downstream at present datum. Oct. 1, 1964 to July 31, 1974, water-stage recorder 1,500 ft (457 m) downstream at present datum.

AVERAGE DISCHARGE: 38 years, 4,813,849 ac-ft/yr (5,935.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1938-75): Maximum discharge, 143,000 ft<sup>3</sup>/s (4,050 m<sup>3</sup>/s) May 2, 1957 (gage height, 44.21 ft or 13.475 m, at site 1,500 ft or 457 m downstream); minimum, 137 ft<sup>3</sup>/s (3.88 m<sup>3</sup>/s) Nov. 6, 1952.

Maximum stage since at least 1899, 56.1 ft (17.10 m) Dec. 8, 1913, at site 1,500 ft (457 m) downstream at present datum, from information by the Texas and New Orleans Railroad Co., obtained at the bridge 6,000 ft (1,830 m) downstream.

REMARKS: Records fair. There are many small diversions above the station for irrigation, municipal and industrial uses, and oilfield operations. The flow is regulated by 28 major upstream reservoirs having a combined capacity of 6,847,000 ac-ft (8,442.4 hm<sup>3</sup>), of which 4,138,000 ac-ft (5,102.2 hm<sup>3</sup>) is for flood control.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	31010	27760	29710	-
1939	171500	183300	145900	66050	606200	495100	156100	48660	36410	24850	29380	60690	2024140
1940	23750	150400	29140	195100	364400	663900	1168000	266100	105500	50470	1581000	2557000	7154760
1941	980000	1260000	1380000	802000	2261000	1871000	992100	306900	209200	735100	505600	132600	11435500
1942	132200	87970	75740	2121000	1848000	1204000	209200	107200	822900	729600	392000	257500	7987310
1943	300900	160300	250800	310500	261600	216700	316900	87190	73760	84990	37530	60780	1961950
1944	608300	919000	967700	270000	2837000	967600	147300	77400	258800	70830	374300	731400	8229630
1945	1291000	877100	1337000	2550000	753700	600100	438400	257400	304300	475700	123100	428000	9435800
1946	690200	842600	1173000	469300	1586000	771600	155700	83120	167100	303500	951800	560000	7753920
1947	1009000	296900	804000	442300	868500	357000	118100	327000	107900	43140	72260	150400	4596500
1948	109900	247000	247300	170300	300900	147700	194700	48110	71760	29350	23770	29810	1620600
1949	85870	265100	471200	779700	794900	542800	200200	75790	100100	310000	183500	228400	4037560
1950	223700	778700	144500	504600	381100	547400	211300	248200	289000	133800	41410	37680	3541390
1951	50560	62220	61700	58900	103900	278300	84560	75490	83150	36160	29700	28990	953630
1952	25210	43320	72160	271200	363000	195600	79570	68780	45830	11110	36670	197900	1410550
1953	252700	120500	250200	109700	1607000	110000	75540	52110	78110	233200	132200	508900	3530160
1954	100300	39320	26190	54880	478600	177000	82880	69870	27000	31260	44390	18410	1150100
1955	26350	212300	53830	284200	307400	350200	107000	83050	78390	676800	50630	39090	2269240
1956	53190	121400	62600	62660	372200	61100	79860	51530	36850	40340	80520	55580	1077830
1957	36960	47730	159000	1675000	4296000	3092000	824900	166000	79600	1518000	891400	428200	13214790
1958	456800	851300	741900	404800	1597000	264800	364900	102300	275900	176500	108700	94300	5439200
1959	80210	281700	83680	717000	408500	305500	251500	126300	82060	1527000	510400	621300	4995150
1960	967300	637200	339900	211500	377800	294800	257600	97510	54780	473500	881900	1489000	6082790
1961	203800	1682000	789600	278600	157200	819600	807500	264800	589900	305900	254000	358900	6511800
1962	214900	176700	127800	124500	175200	322700	158800	294400	481300	254900	152400	342400	2826000
1963	152000	237800	85290	187100	116700	224000	120700	44660	38450	60260	52650	54840	1374450
1964	46760	86200	183900	110100	156800	187800	90940	46220	176400	167400	234200	147100	1633820
1965	510600	1055000	341500	456400	2569000	963500	306700	202000	96370	109000	355900	458100	7424270
1966	220600	384600	369900	799000	1883000	289800	118100	213600	702900	266000	78900	74480	5400880
1967	55710	36650	36000	144700	196000	177700	95260	92370	65390	41030	274400	182700	1397910
1968	1064000	665600	1019000	1050000	2024000	1410000	1046000	158900	205800	160800	180400	476300	9460800
1969	132900	419700	729300	1221000	1335000	426700	178200	98500	104400	72360	145200	288100	5151360
1970	339200	325800	1290000	745900	584000	389700	96040	95890	178300	233900	74610	41380	4394720
1971	62120	31750	56230	71270	116900	73180	72250	145100	82760	286400	338700	706200	2042860
1972	419500	159600	79190	64410	279300	120100	101400	76310	57390	96260	254100	181200	1888760
1973	461700	441900	846700	1034000	768000	1265000	313400	136100	108200	1260000	452700	330800	7438500
1974	567600	347200	178700	124200	273800	89470	84010	124600	1073000	397400	1755000	757700	5772680
1975	639700	1173000	488800	529400	1363000	1150000	451500	208000	102100	93550	83260	82910	6365220
MAX	1291000	1682000	1380000	2550000	4296000	3092000	1168000	327000	1073000	1527000	1755000	2557000	13214790
MIN	23750	31750	26190	54880	103900	61100	72250	44660	27000	11110	23770	18410	953630
MEAN	345594	424564	418901	526251	939800	579012	279922	135877	201380	303983	310435	348130	4813849
NO.	37	37	37	37	37	37	37	37	37	38	38	38	37
DISTR OF MEAN	7.2x	8.8x	8.7x	10.9x	19.5x	12.0x	5.8x	2.8x	4.2x	6.3x	6.4x	7.2x	100x

BRAZOS RIVER BASIN

08111700 Mill Creek near Bellville, Texas

LOCATION: Lat 29°52'51", long 96°12'18", Austin County, at an abandoned bridge pier 6 ft (2 m) downstream from the bridge on State Highway 36, 5.0 mi (8.0 km) southeast of Bellville, and 0.0 mi (9.7 km) upstream from the Brazos River.

DRAINAGE AREA: 376 mi<sup>2</sup> (973.8 km<sup>2</sup>).

PERIOD OF RECORD: August 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 122.82 ft (37.436 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 163,683 ac-ft/yr (201.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 44,400 ft<sup>3</sup>/s (1,260 m<sup>3</sup>/s) June 13, 1973 (gage height, 17.95 ft or 6.471 m); minimum, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) July 22, 23, 1971

Maximum stage since 1899, 22.8 ft (6.95 m) in 1940, from information by local residents and the Texas Highway Department.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	102	68.0	215	228	504	-
1964	959	2210	8680	1300	733	979	109	149	393	319	504	1820	18195
1965	22140	33630	4090	1740	104900	12270	326	163	176	311	4370	21960	206076
1966	10110	33720	9940	12030	33480	1140	906	380	271	244	280	670	103171
1967	995	656	763	3300	5040	344	65.0	75.0	3120	3610	715	891	19574
1968	14550	1940	2480	22040	70200	105800	12340	518	14490	7000	9380	35010	295748
1969	7070	49220	39580	27040	11180	4410	346	233	2100	530	1640	2830	146179
1970	3310	2920	20040	12320	35450	13060	394	196	8100	41600	2010	2270	141670
1971	2860	3130	1730	1330	1030	225	60.0	314	661	1870	858	6060	20128
1972	4290	2700	18760	5470	84490	7140	1760	824	350	2580	5240	3460	137064
1973	16010	24820	61190	61840	12470	99150	2240	964	3030	58700	12870	18120	371404
1974	83030	10730	7500	4770	6560	899	476	18550	71540	7150	54090	28230	293525
1975	18570	24990	11480	41680	73110	42780	7480	10320	5720	3860	3190	5080	248260
MAX	83030	49220	61190	61840	104900	105800	12340	18550	71540	58700	54090	35010	371404
MIN	959	656	763	1330	733	225	60.0	75.0	68.0	215	228	504	18195
MEAN	15325	15889	15519	16242	36554	24016	2209	2522	8463	9845	7337	9762	163683
NO.	12	12	12	12	12	12	12	13	13	13	13	13	12
DISTR													
CF MEAN	9.4%	9.7%	9.5%	9.9%	22.3%	14.7%	1.3%	1.5%	5.2%	6.0%	4.5%	6.0%	100%

BRAZOS RIVER BASIN

08112500 Brazos River Authority's Canal A near Fulshear, Texas

LOCATION: Lat 29°38'28"; long 95°53'06", Fort Bend County, on the canal, 1.2 mi (1.9 km) downstream from the point of diversion, and 3.4 mi (5.5 km) south of Fulshear.

PERIOD OF RECORD: October 1931 to September 1954, October 1957 to September 1973. Published as "Brazos Valley Irrigation Co.'s Canal" 1930-44, and as "American Canal Co.'s Canal" 1944-54, 1957-66.

GAGE: Duplex water-stage recorder and Parshall flume. Datum of gage not published. Prior to Apr. 24, 1968, water-stage recorder at site 300 ft (91 m) downstream at different datum.

AVERAGE DISCHARGE: 41 years (1931-54, 1957-73), 65,795 ac-ft/yr (81.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1931-54, 1957-73): Maximum discharge, 495 ft<sup>3</sup>/s (14.0 m<sup>3</sup>/s) July 25, 1973; no flow for several months in each year.

REMARKS: Records good. The station is above all diversions from the canal. The flow is controlled by the pumping plant located on the left bank of the Brazos River 21.7 mi (34.9 km) upstream from Richmond. The discharge figures represent water pumped from the river for irrigation in the vicinity of Sugarland.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	0	0	0	-
1932	0	0	0	3030	6270	10000	13800	7810	1740	0	0	0	42650
1933	0	0	0	851	3830	7440	5120	5720	212	0	0	0	23173
1934	0	0	0	0	3040	11600	8420	6700	1470	0	0	0	31230
1935	0	0	0	0	276	4140	4580	5530	2150	0	0	0	16676
1936	0	0	0	1560	3240	7020	3890	5510	871	0	0	0	22091
1937	0	0	0	0	6950	6750	9710	8600	4370	0	0	0	36386
1938	0	0	0	1510	7000	12730	13410	12790	2940	0	0	0	50380
1939	0	0	0	9780	13450	12590	10090	12090	5660	0	0	0	63660
1940	0	0	0	4910	8310	7570	9760	10700	6060	0	0	0	47310
1941	0	0	0	0	8610	8160	12110	14270	4720	0	0	0	47870
1942	0	0	0	1130	10060	16170	13240	15240	10120	0	0	0	66010
1943	0	0	0	5550	13560	17330	13640	14760	10430	0	0	0	75276
1944	0	0	0	3460	2440	16220	17760	16380	13630	0	0	0	69890
1945	0	0	2070	3580	14710	16800	18670	14860	9310	0	0	0	80000
1946	0	0	0	3440	3920	6730	16080	16180	8220	0	0	0	54570
1947	0	0	0	6500	10200	18230	15770	11790	14810	5010	0	0	82310
1948	0	0	0	11500	17990	15780	16640	15410	12300	1930	0	0	91450
1949	0	0	0	1170	12910	20330	20520	19150	19080	1210	0	0	94370
1950	0	0	1480	6310	18600	18370	22370	24360	16480	4020	0	0	111990
1951	0	0	1940	11230	21150	25170	24690	23480	9770	1250	0	0	118680
1952	0	0	0	749	14230	23220	21570	23930	16690	5260	0	0	105649
1953	0	0	1460	15470	11650	22550	22780	16680	6120	474	0	0	97184
1954	0	0	7350	15470	21940	23590	23360	14540	5650	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	940	0	0	-
1958	0	0	1450	4880	13010	17150	19000	12500	621	697	0	0	69308
1959	0	0	3790	6060	12980	17110	14130	9580	5450	429	0	0	69529
1960	0	2340	1070	5390	13770	13470	13620	5630	1730	217	0	0	54920
1961	0	0	1010	6830	14760	9300	9870	10860	1740	2010	0	0	56380
1962	0	0	4820	9500	19750	18820	15460	17610	7260	2650	0	0	95870
1963	0	0	2480	13850	18940	13320	13650	13010	6260	5170	0	0	86680
1964	0	0	0	6910	14970	17350	15490	8640	6290	3670	620	0	73382
1965	0	0	6200	14040	13550	16700	13370	11690	5640	835	0	0	82025
1966	0	0	131	2200	4310	16650	18310	10980	8650	935	661	0	63027
1967	588	549	10860	14800	15850	16080	7160	10850	3030	0	590	0	79826
1968	0	0	2240	7580	10950	8570	13440	11210	1660	1590	423	0	57663
1969	8640	916	1130	4650	7540	14990	14760	8450	2710	476	0	0	55708
1970	0	0	708	4900	5410	11800	12600	9110	2940	2020	833	0	50521
1971	0	0	6950	8440	7660	11030	6970	1320	890	2250	0	0	44709
1972	0	0	2570	6530	5060	8250	7880	5640	4660	180	169	1130	42469
1973	0	0	1980	1370	7610	6930	14010	7100	3360	-	-	-	-
MAX	588	916	10860	15470	21940	25170	24690	24360	19080	5260	833	1130	118680
MIN	0	0	0	0	276	4140	3890	1320	890	0	0	0	16676
MEAN	17.3	38.2	1592	5773	10781	14000	14049	12069	6284	1106	56.6	29.0	65795
NO.	39	39	39	39	39	39	39	39	39	39	39	39	37
DISTR													
OF MEAN	.02	.12	2.42	8.82	16.42	21.32	21.42	18.32	9.62	1.72	.12	.02	1002



BRAZOS RIVER BASIN

08113500 Richmond Irrigation Co.'s Canal near Richmond, Texas

LOCATION: Lat 29°34'02", long 95°47'03", Fort Bend County, on the right downstream wingwall of the first bridge downstream from the pumping plant, 1.2 mi (1.9 km) downstream from the pumping plant, and 1.7 mi (2.7 km) southwest of Richmond.

PERIOD OF RECORD: October 1931 to September 1954, October 1955 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 90 ft (27 m) above mean sea level, datum of 1928.

AVERAGE DISCHARGE: 45 years, 32,400 ac-ft/yr (39.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1931-54, 1955-75): Maximum discharge, 267 ft<sup>3</sup>/s (7.56 m<sup>3</sup>/s) Nov. 15, 28, 1957; no flow for several months each year.

REMARKS: Records fair. Water for irrigation is diverted by pumping from the right bank of the Brazos River 6 mi (10 km) upstream from Richmond. The discharge figures represent water pumped from the river.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	459	0	0	-
1932	0	0	0	0	3760	12200	11300	7640	2230	0	0	0	37130
1933	0	0	0	0	3850	9100	6210	6890	1540	0	0	0	27590
1934	0	0	0	0	3360	5400	4110	4280	946	0	0	0	18096
1935	0	0	0	1450	1070	5080	5450	5220	0	0	0	0	18270
1936	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	317	3860	6600	6130	5190	1160	0	0	0	23257
1938	0	0	0	1560	4500	8260	6810	6510	372	0	0	0	28012
1939	0	0	0	2770	4280	4850	5060	6170	1810	0	0	0	24940
1940	0	0	0	2090	4100	4680	4750	6190	2630	0	0	0	24440
1941	0	0	0	0	875	2180	3410	5850	2510	0	0	0	14825
1942	0	0	0	0	5720	6970	6530	6470	4470	0	0	0	30160
1943	0	0	17.0	19.0	6000	6290	6270	6070	4490	6.00	0	0	29162
1944	0	0	0	0	1910	6290	8310	8020	3000	0	0	0	27530
1945	0	0	141	1930	5840	7170	8830	7110	1670	0	0	0	32691
1946	0	0	0	498	4930	4080	7970	8670	1480	0	0	0	27626
1947	0	0	87.0	3620	4740	8840	10580	8120	4610	868	0	0	41465
1948	0	0	4.40	5100	7430	9290	9150	9260	4060	4.20	7.30	0	44306
1949	0	0	0	374	3770	7950	8420	10090	8660	472	0	0	39736
1950	0	0	353	1840	6320	6580	7690	10180	4610	139	200	0	37912
1951	0	0	1430	2830	6530	6750	10040	8190	3010	137	0	0	38917
1952	0	0	210	1400	5250	7380	8510	9070	4150	814	0	0	36784
1953	0	0	1520	4900	4390	9410	9350	4820	972	0	0	0	35362
1954	0	0	1290	5630	5920	8350	8630	7340	2590	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	0	0	0	-
1956	0	0	962	3450	5290	4380	6600	3440	1230	0	0	0	25352
1957	0	0	0	0	3690	4780	5710	7130	3150	518	8560	659	34197
1958	0	0	0	1960	6910	6830	7570	3470	294	0	0	0	27034
1959	0	0	236	2780	3990	5260	7160	4780	1870	0	0	0	26076
1960	0	0	12.0	5230	5560	5880	7690	4030	890	0	0	0	29292
1961	0	0	0	2600	5210	4670	4200	3960	1100	0	0	0	21740
1962	0	0	1330	4130	6630	7250	6110	6700	1010	0	0	0	33160
1963	0	0	6.50	5460	9160	6330	5640	7760	4100	1780	0	0	40237
1964	0	0	0	3410	6710	7120	6250	4970	3710	1280	0	0	33450
1965	0	0	3590	4840	4970	9140	8510	4130	4600	0	0	0	39780
1966	0	0	0	1300	4210	9210	10430	8470	5330	0	0	0	38950
1967	0	2060	3970	8620	10180	9780	5540	7390	4510	0	0	0	52050
1968	0	0	222	6230	6720	6810	11330	7050	2080	2300	0	0	42742
1969	0	0	0	1260	5680	10960	10630	8380	2190	1380	0	2130	42610
1970	0	0	0	5060	4680	11080	9060	3410	2180	1110	0	0	36580
1971	0	0	4210	6640	8380	10510	9000	1640	1350	0	0	0	41730
1972	0	0	1980	5080	8590	9940	7060	5340	3270	994	0	0	42254
1973	0	0	0	0	5730	7010	9870	8810	0	60.0	0	0	31480
1974	0	0	2600	7150	8450	10200	7010	2400	0	2.00	0	28.0	37840
1975	30.0	24.0	456	5160	9130	9800	9480	2630	1650	386	0	0	38746
MAX	30.0	2060	4210	8620	10180	12200	11330	10180	8660	2300	8560	2130	52050
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	.70	48.5	573	2714	5309	7224	7404	6122	2453	289	199	64.0	32400
NO.	43	43	43	43	43	43	43	43	43	44	44	44	42
DISTR OF MEAN	.02	.11	1.81	8.41	16.41	22.31	22.91	18.91	7.61	.91	.61	.21	1001

BRAZOS RIVER BASIN

08114000 Brazos River at Richmond, Texas

LOCATION: Lat 29°34'56", long 95°45'27", Fort Bend County, at the bridge on U.S. Highway 59 in Richmond, and 925 ft (282 m) downstream from the Texas and New Orleans Railroad Co. bridge.

DRAINAGE AREA: 45,007 mi<sup>2</sup> (116,568.1 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: January 1903 to June 1906, October 1922 to December 1975. Published as "at Rosenberg" October 1922 to September 1931.

GAGE: Water-stage recorder. Datum of gage is 40.94 ft (12.479 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1922, various types of nonrecording gages at the railroad bridge 925 ft (282 m) upstream at different datums. Oct. 1, 1922 to Sept. 30, 1931, nonrecording chain gage at Rosenberg 7.6 mi (12.2 km) upstream at datum about 4 ft (1.2 m) higher.

AVERAGE DISCHARGE: 58 years (1903-06, 1922-75): 5,300,222 ac-ft/yr (6,535.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1903-06, 1922-75): Maximum discharge, 123,000 ft<sup>3</sup>/s (3,480 m<sup>3</sup>/s) June 6, 1929 (gage height, 40.6 ft or 12.37 m, from floodmarks), present site and datum; minimum, 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/s) Aug. 23, 1934.

Maximum stage since at least 1852, 48.2 ft (14.69 m) Dec. 10, 1913, present datum, from floodmarks on right bank 1,000 ft (305 m) upstream from the gage.

REMARKS: Records good. Considerable amount of water is diverted above the station for irrigation and municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1903	451500	994700	2194000	415000	268400	228100	296100	718200	77830	397500	82710	88540	6212580
1904	62530	110100	62960	142800	924800	300900	249100	162600	112500	118800	144200	69790	2461080
1905	159500	374400	822700	1052000	3424000	1016000	1149000	325300	188600	163900	148600	274500	9098500
1906	232000	229000	120000	134000	296000	649000	-	-	-	-	-	-	-
1907	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	54600	114000	63500	-
1923	79600	221000	435000	1400000	616000	406000	99100	45500	190000	296000	632000	1670000	6290200
1924	727000	894000	1360000	765000	632000	909000	88800	46100	108000	83800	41000	45100	5719600
1925	44100	34400	30900	27000	514000	52700	31900	42400	290000	991000	1120000	95800	3274200
1926	539000	186000	955000	2190000	1240000	462000	372000	272000	340000	383000	203000	701000	7843000
1927	292000	544000	679000	961000	421000	838000	378000	104000	586000	599000	81500	82400	5038500
1928	85500	318000	298000	214000	295000	815000	161000	264000	105000	37600	40800	231000	2864900
1929	328000	96100	296000	708000	1130000	2360000	322000	57500	393000	86100	555000	97800	6429500
1930	214000	408000	238000	134000	2600000	582000	128000	58000	118000	916000	212000	935000	6543000
1931	713000	783000	867000	378000	416000	218000	96500	59500	45000	175000	152000	180000	4083000
1932	1750000	1470000	972000	165000	928000	425000	550000	124000	1150000	163000	68400	106000	7871400
1933	282000	270000	434000	220000	383000	330000	39700	153000	114000	57200	48400	34100	2365400
1934	330000	514000	787000	1330000	183000	35900	13600	8670	30800	37480	155000	229900	3655350
1935	207600	443500	197300	208800	3309000	1416000	415400	153000	561500	329000	285100	1213000	8739200
1936	201400	144500	118400	79580	1196000	832500	1087000	91160	453900	1443000	466200	784600	6898240
1937	850100	380700	582700	237700	108200	265200	115700	51590	120100	170000	177500	430700	3490190
1938	1140000	1047000	509100	1188000	1158000	605000	346000	355600	76700	48050	38300	40000	6551750
1939	165200	155100	168600	71260	542700	452800	201800	38010	44290	32820	34770	57790	1965140
1940	43750	150100	42590	192200	306300	641900	1307000	244500	107400	66170	1406000	3251000	7758910
1941	1188000	1357000	1567000	1054000	2507000	2089000	1041000	274700	303500	786100	664900	158300	13010500
1942	147100	103000	89300	2081000	1956000	1287000	333700	96710	819800	726300	410300	246500	8296710
1943	351300	167800	266200	317300	223000	226200	151900	107000	61510	89100	56190	91460	2108960
1944	677800	955000	1132000	338200	2804000	1029000	135000	66550	252200	83530	335800	791400	8600480
1945	1327000	927500	1285000	2493000	757800	561600	433900	445600	362600	478900	131900	490600	9695400
1946	695400	875200	1312000	511200	1601000	844900	213500	69690	175300	318100	1045000	565800	8227090
1947	1027000	323700	812400	433400	853900	357700	101800	363900	143800	57940	91760	213900	4781200
1948	120100	257300	350000	165500	282100	123700	184800	34960	68470	39400	34430	37140	1697900
1949	77590	241900	486100	767800	837700	490600	215300	62080	72840	277700	216900	277200	4023710
1950	285500	758000	181400	482300	402400	662700	169300	209900	263200	149100	54070	52900	3670770
1951	56340	66900	61220	74640	73860	248000	59300	51910	78360	48610	35370	37700	891910
1952	33380	54840	79170	334400	355700	212900	56160	36930	36260	12470	24780	23000	1466990

BRAZOS RIVER BASIN

08114000 Brazos River at Richmond, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	275900	121500	245800	75020	1646000	113800	61120	49240	116000	212000	199500	553100	3668980
1954	138500	53020	27390	49330	435000	171800	53270	56940	24650	36700	51550	29510	1127660
1955	35790	239800	58940	268000	266500	349900	104600	74530	53520	670200	66630	48180	2236590
1956	59130	119500	64780	53170	318900	46790	44080	39130	35840	39530	76390	62780	960020
1957	42000	50790	223200	1075000	4747000	3472000	979000	201800	98530	1769000	1047000	504100	14209420
1958	585800	813900	853900	356200	1564000	295900	388800	114500	297200	252000	130200	104300	5756700
1959	86780	322500	133900	864600	525300	331700	253500	139200	77870	1455000	599500	657400	5447250
1960	1016000	706000	389300	212800	477600	416500	329100	110800	69540	468500	1058000	1603000	6857140
1961	2237000	1932000	867400	338800	174000	926400	985200	330500	753400	366500	367800	414800	9693800
1962	245800	217200	147100	112900	188000	304400	180500	272300	446400	300500	146400	380200	2941700
1963	224800	218300	110200	163600	80170	185800	119900	33800	34030	52400	63630	66370	1353000
1964	53810	117100	213900	97930	163200	148800	82900	33840	151200	181500	247900	167200	1659280
1965	482200	1016000	383200	437000	2668000	1187000	323400	227900	109000	128000	417500	481800	7861000
1966	238100	420900	401300	679300	2256000	325400	119500	228200	668200	310300	90010	84870	5822080
1967	71240	47400	33130	125500	174700	172900	84430	80180	76430	63930	274000	177600	1381440
1968	1116000	723200	931000	965000	2233000	1668000	1051000	167300	231900	194300	177000	552200	10009900
1969	159900	517100	788400	1281000	1454000	440100	172400	97220	116700	74810	146300	276800	5524730
1970	335000	290600	1369000	784200	619000	427500	91790	81410	179900	376600	102400	54490	4711890
1971	69620	38980	47600	56390	101800	52630	44130	157200	113200	257700	376800	757200	2073450
1972	482800	224900	135400	67900	473900	145700	106300	86780	59980	79400	308300	199100	2370460
1973	463900	512000	896500	1244000	917700	1421000	377900	165900	134300	1400000	581700	451500	8566400
1974	746500	458200	219100	126700	314000	72250	63400	88790	1181000	504100	1926000	901500	6601540
1975	698800	1302000	572400	611700	1403000	1264000	533100	259800	129100	107000	94590	109100	7084590
MAX	2237000	1932000	2194000	2493000	4747000	3472000	1307000	718200	1181000	1769000	1926000	3251000	14209420
MIN	33380	34400	27390	27000	73860	35900	13600	8670	24650	12470	24780	29510	891910
MEAN	434205	461730	507808	549335	995555	630080	305226	148068	222874	333618	313275	398448	5300222
NO.	57	57	57	57	57	57	56	56	56	57	57	57	56
DISTR													
OF YEAR	8.2%	8.7%	9.6%	10.4%	18.8%	11.9%	5.8%	2.8%	4.2%	6.3%	5.9%	7.5%	100%

BRAZOS RIVER BASIN

08114500 Brazos River near Juliff, Texas

LOCATION: Lat 29°27'20", long 95°31'57", Fort Bend County, at the South Texas Water Co. pumping plant, 3.5 mi (5.6 km) west of Juliff, and 3.8 mi (6.1 km) downstream from the Gulf, Colorado, and Santa Fe Railway Co. bridge.

DRAINAGE AREA: 44,100 mi<sup>2</sup> (114,219 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: June 1949 to September 1969.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 21 years, 4,421,816 ac-ft/yr (5,452.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1949-69): Maximum discharge, 95,200 ft<sup>3</sup>/s (2,696.1 m<sup>3</sup>/s) May 6, 7, 1957 (elevation 59.17 ft or 18.0 m); no flow at times due to pumping.

Maximum elevation since at least 1884, 64.0 ft (19.5 m) December 11, 1913, from floodmark, from information by a local resident.

REMARKS: Records good. Considerable amount of water is diverted above the station for irrigation, industrial, and municipal water supply which materially affects the low flow.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	392800	175200	22710	33880	313300	232600	313400	-
1950	291900	775400	191700	487300	359000	674100	126400	159800	212900	149000	57670	49720	3534890
1951	56160	70230	56300	62710	27990	192200	15520	9620	63080	47120	34010	36920	671860
1952	30890	56860	81090	306900	305000	186800	19400	560	2280	3760	21240	230900	1245176
1953	280200	120700	247600	52190	1674000	76280	16050	27950	108100	185900	227300	513300	3529570
1954	144600	51540	17390	17170	390600	127900	10510	17790	10490	33440	48530	26150	896110
1955	33160	260000	56200	248900	227900	292400	65150	54310	39460	646100	58170	39310	2021060
1956	55260	143300	56520	32120	291400	14670	6710	8460	25530	36020	69600	59410	799000
1957	35440	45900	239200	1063000	4521000	3188000	867500	173000	82870	1762000	1051000	484400	13543310
1958	581400	778100	661400	324100	1617000	226900	335400	80790	286700	234700	121400	95500	5543390
1959	78530	334700	124600	871000	477100	275500	214400	116300	67670	1434000	649100	630700	5273600
1960	996300	741600	396900	190000	452500	482000	302300	91190	62700	484600	1030000	1577000	6807090
1961	2215000	1918000	839500	319000	131800	899400	913900	276200	767500	322500	316900	390800	9310500
1962	241600	220800	139800	86400	150900	240500	138700	216900	410000	283400	141500	442500	2713000
1963	261000	244700	121200	149200	37320	164000	85720	9900	21110	41890	56510	61070	1253620
1964	51200	122300	216700	79770	129700	110500	52950	19350	146700	178500	247300	166200	1523170
1965	465600	1008000	356800	405200	2530000	1126000	290200	194200	88750	121700	409000	529500	7524950
1966	244900	451400	425200	697100	2284000	290400	64800	182700	659000	323000	92130	83110	5797740
1967	68560	46030	19840	84660	128800	127100	61160	60300	66690	63910	278700	169100	1175050
1968	1105000	718200	936000	1001000	2217000	1673000	1050000	152900	215100	173500	155500	535800	9933000
1969	162000	552300	801500	1262000	1451000	368200	126600	64920	89840	-	-	-	-
MAX	2215000	1918000	936000	1262000	4521000	3188000	1050000	276200	767500	1762000	1081000	1577000	13543310
MIN	30890	45900	17390	17170	27990	14670	6710	560	2280	3760	21240	26150	671860
MEAN	369935	433003	309272	386986	970201	529936	235170	92350	164788	341917	266418	321840	4421816
NO.	20	20	20	20	20	21	21	21	21	20	20	20	19
Q15TR													
OF MEAN	6.4%	9.8%	7.0%	8.8%	21.9%	12.0%	5.3%	2.1%	3.7%	7.7%	6.0%	7.3%	100%

**BRAZOS RIVER BASIN**  
**08115000 Big Creek near Needville, Texas**

LOCATION: Lat 29°28'35", long 96°48'45", Fort Bend County, at the bridge on State Highway 36, 1.5 mi (2.4 km) downstream from Coon Creek, 5.5 mi (8.8 km) north of Needville, and 10.5 mi (16.9 km) upstream from Fairchild Creek.

DRAINAGE AREA: 42.8 mi<sup>2</sup> (110.8 km<sup>2</sup>).

PERIOD OF RECORD: June 1947 to June 1950, April 1952 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 59.39 ft (18.102 m) above mean sea level, datum of 1929, adjustment of 1943. Prior to June 30, 1950, and May 29, 1959 to Mar. 29, 1960, nonrecording gage at 10.00 ft (3.048 m) higher datum. March 1952 to May 28, 1959 and Mar. 30, 1960 to Sept. 30, 1967, water-stage recorder at 10.00 ft (3.048 m) higher datum.

AVERAGE DISCHARGE: 28 years (1947-50, 1952-75), 24,762 ac-ft/yr (30.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-50, 1952-75): Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) June 26, 1960 (gage height, 23.81 ft or 7.257 m); maximum gage height, 24.03 ft (7.324 m) Oct. 31, 1959; no flow at times.

Maximum stage since 1913, 24.4 ft (7.44 m) in August 1945 before the channel rectification, from information by a local resident.

REMARKS: Records fair. The channel rectification was completed in April 1955. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	84.0	215	469	1.40	0	1020	3440	-
1948	1100	1820	1370	81.0	1220	1.40	5.00	0	0	0	115	0	5712
1949	54.0	3360	575	5300	83.0	131	1470	3660	173	12440	48.0	6330	35624
1950	2030	3720	11.0	1250	189	2410	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	7420	3670	435	214	65.0	41.0	25.0	1010	1700	-
1953	112	671	51.0	16.0	8980	9.3	30.0	8900	6290	106	1650	5340	32155
1954	808	22.0	0	0	527	3.80	56.0	68.0	12.0	14.0	.80	0	1512
1955	652	4720	0	42.0	1600	63.0	765	217	467	15.0	0	0	8541
1956	1180	724	0	75.0	325	202	1.20	6.70	36.0	0	0	11.0	2561
1957	0	9.1	7980	7520	780	1000	20.0	15.0	1390	10580	5760	43.0	35097
1958	3840	2330	37.0	29.0	99.0	103	82.0	78.0	1890	955	49.0	122	9614
1959	110	12380	144	8520	1580	86.0	529	4980	131	15610	7150	4010	55230
1960	1690	2600	72.0	906	89.0	27780	293	2690	81.0	5060	941	6660	48862
1961	3790	5160	55.0	450	119	13240	10240	77.0	10010	49.0	2430	1020	46640
1962	9.5	2.20	1.60	277	697	698	372	50.0	1580	54.0	273	5600	9614
1963	4020	1130	23.0	21.0	20.0	663	566	50.0	33.0	19.0	82.0	1480	8107
1964	726	2830	3970	78.0	93.0	304	92.0	94.0	1110	885	1020	2580	13782
1965	3410	3420	24.0	65.0	1070	705	194	148	126	1260	6110	3540	20092
1966	2400	5260	233	8170	8330	473	275	539	1830	91.0	6.50	23.0	27631
1967	576	202	53.0	369	1080	119	473	3550	2650	1620	25.0	1890	12007
1968	4360	1050	797	716	6290	11940	889	206	1260	854	570	1190	30122
1969	1240	7960	3570	774	9320	105	48.0	178	231	639	187	1590	25842
1970	712	1680	3320	591	2660	560	121	146	2590	10800	109	8.70	23298
1971	12.0	132	9.3	231	141	127	179	5110	14840	1490	33.0	3060	25364
1972	2130	3650	648	541	8210	1090	420	686	269	627	4510	142	22923
1973	3780	5350	5710	12990	594	17010	1800	564	12680	12220	1010	481	74389
1974	11430	124	2350	508	4110	450	430	944	5550	2060	10720	2560	41236
1975	803	493	43.0	1240	8320	4180	295	733	208	333	966	2720	20334
MAX	11430	12380	7980	12990	9320	27780	10240	8900	14840	15610	10720	8330	74389
MIN	0	2.20	0	0	20.0	1.40	1.20	0	0	0	0	0	1512
MEAN	1961	2723	1194	2155	2600	2999	743	1268	2410	2882	1696	2131	24762
NO.	26	26	26	27	27	28	27	27	27	27	27	27	25
DISTR													
OF MEAN	7.9%	11.0%	4.0%	8.7%	10.5%	12.1%	3.0%	5.1%	9.7%	11.6%	6.8%	8.6%	100%

BRAZOS RIVER BASIN

08115500 Fairchild Creek near Needville, Texas

LOCATION: Lat 29°26'45", long 95°45'40", Fort Bend County, at a county road bridge, 3.0 mi (4.8 km) upstream from the mouth, and 5.5 mi (8.8 km) northeast of Needville.

DRAINAGE AREA: 29.9 mi<sup>2</sup> (64.5 km<sup>2</sup>).

PERIOD OF RECORD: June 1947 to October 1954.

GAGE: Staff gage and crest-stage indicator. Datum of gage is 60.42 ft (18.4 m) above mean sea level, datum of 1929, Houston supplementary adjustment of 1943.

AVERAGE DISCHARGE: 8 years, 10,322 ac-ft/yr (12.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-54): Maximum discharge, 2,560 ft<sup>3</sup>/s (72.5 m<sup>3</sup>/s) May 18, 1953; no flow at times.

Maximum stage since about 1910, 12.5 ft (3.8 m) in August 1945 from floodmark, from information by a local resident.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	20.0	0	16.0	17.0	0	93.0	1000	-
1948	772	1140	637	0	60.0	0	0	0	0	0	197	0	2806
1949	171	2740	803	3950	42.0	14.0	482	2290	163	11940	64.0	5980	28639
1950	1420	3450	10.0	202	98.0	622	0	0	4.60	0	0	0	5807
1951	15.0	4.40	1150	1160	399	164	0	0	2170	652	21.0	4.40	5736
1952	0	2650	31.0	3720	2300	35.0	387	0	0	0	518	551	10192
1953	76.0	523	53.0	0	5710	0	0	6340	2610	448	2500	2130	20390
1954	698	8.70	0	0	47.0	0	0	369	14.0	2.00	-	-	-
MAX	1420	3450	1150	3950	5710	622	482	6340	2610	11940	2500	5980	28639
MIN	0	4.40	0	0	42.0	0	0	0	0	0	0	0	2806
MEAN	450	1502	383	1290	1237	107	109	1127	622	1630	485	1380	10322
NO.	7	7	7	7	7	8	8	8	8	8	7	7	6
DISTR OF MEAN	4.4%	14.6%	3.7%	12.5%	12.0%	1.0%	1.1%	10.9%	6.0%	15.8%	4.7%	13.4%	100%

BRAZOS RIVER BASIN

08116000 Big Creek near Guy, Texas

LOCATION: Lat 29°24'25", long 95°42'35", Fort Bend County, at a county road bridge, 0.2 mi (0.3 km) upstream from the Gulf, Colorado and Santa Fe Railway Co. bridge, 0.3 mi (0.5 km) downstream from Deer Creek, and 6 mi (9.6 km) northeast of Guy.

DRAINAGE AREA: 112 mi<sup>2</sup> (290.1 km<sup>2</sup>).

PERIOD OF RECORD: July 1947 to June 1950.

GAGE: Staff gage. Datum of gage is 46.57 ft (14.2 m) above mean sea level, datum of 1929, Houston supplementary adjustment of 1943.

EXTREMES: Period of record (1947-50): Maximum discharge, 7,860 ft<sup>3</sup>/s (222.6 m<sup>3</sup>/s) October 9, 1949 (gage height, 15.33 ft or 4.7 m); no flow at times.

Highest stage known, flood of August 1945 caused by a tropical storm which reached a stage of 18.5 ft or 5.6 m (adjusted to present site and datum), from information by an observer.

REMARKS: Records good. The low flow is affected by drainage from irrigated lands. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	1710	3360	1170	146	1300	6760	-
1948	3050	5650	3240	772	2550	1190	1750	1800	1520	112	778	32.0	22444
1949	1220	13520	4200	20030	1340	1360	4910	13440	3230	58330	659	33060	155299
1950	7600	16740	152	2620	1310	8070	-	-	-	-	-	-	-
MAX	7600	16740	4200	20030	2550	8070	4910	13440	3230	58330	1300	33060	155299
MIN	1220	5650	152	772	1310	1190	1710	1800	1170	112	659	32.0	22444
MEAN	3957	11970	2531	7807	1733	3540	2790	6200	1973	19529	912	13284	76226
NO.	3	3	3	3	3	3	3	3	3	3	3	3	2
DISTR													
CF MEAN	5.2%	15.7%	3.3%	10.2%	2.3%	4.6%	3.7%	8.1%	2.6%	25.6%	1.2%	17.4%	100%

BRAZOS RIVER BASIN

08116400 Dry Creek near Rosenberg, Texas

LOCATION: Lat 29°30'42", Long 95°44'45", Fort Bend County, 38 ft (12 m) downstream from a county road bridge, 5.0 mi (8.0 km) southeast of Rosenberg, and 8.2 mi (13.2 km) upstream from Smither's Lake (Lake George) spillway.

DRAINAGE AREA: 8.65 mi<sup>2</sup> (22.4 km<sup>2</sup>).

PERIOD OF RECORD: October 1958 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 71.90 ft (21.915 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 18 years, 8,183 ac-ft/yr (10.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 2,410 ft<sup>3</sup>/s (68.3 m<sup>3</sup>/s) Oct. 31, 1959 (gage height, 12.66 ft or 3.859 m); no flow for many days each year.

Highest flood since at least 1832, that of Oct. 31, 1959, from information by local residents.

REMARKS: Records fair. The runoff given herein includes an unknown amount of irrigation return flow originally diverted from the Brazos River through the Richmond Irrigation Co.'s canal (station 08113500).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	-	-	-	-	-	147	12.0	12.0	-
1959	6.70	2110	28.0	1270	265	96.0	111	405	76.0	3100	1840	863	10173
1960	293	826	6.30	3160	264	4790	235	1300	78.0	1650	308	1540	14448
1961	791	1150	2.40	125	79.0	2350	2450	16.0	2010	0	313	81.0	9367
1962	G	0	61.0	272	735	581	137	1510	253	30.0	87.0	966	4632
1963	679	235	.60	484	723	237	192	35.0	89.0	2.40	17.0	314	3008
1964	121	440	337	134	305	240	476	203	281	225	28.0	326	3116
1965	314	870	1950	226	335	164	97.0	157	22.0	269	1350	766	6520
1966	500	1140	144	2020	1890	200	186	173	585	2.10	0	.80	6841
1967	80.0	2050	67.0	709	452	52.0	478	321	320	243	0	565	5357
1968	1020	240	161	1500	1770	2840	1190	544	500	403	173	212	10551
1969	302	1580	831	266	2520	812	89.0	69.0	66.0	12.0	2.70	2050	8602
1970	100	177	630	803	1300	204	358	506	1460	3530	25.0	0	9093
1971	0	47.0	285	1850	1300	378	2670	477	1860	441	0	713	10021
1972	592	646	647	960	2260	341	51.0	51.0	55.0	94.0	948	43.0	6686
1973	916	703	1430	1910	900	2570	1300	107	2560	1930	296	105	14721
1974	2400	3.70	1150	664	1550	239	231	369	1590	622	2600	701	12120
1975	126	157	73.0	1120	1580	738	26.0	364	313	90.0	280	538	5405
MAX	2400	2110	1950	3160	2520	4790	2670	1510	2560	3530	2600	2050	14721
MIN	0	0	.60	125	79.0	52.0	26.0	16.0	22.0	0	0	0	3008
MFAN	484	728	459	1028	1072	990	605	389	713	710	460	545	8183
NO.	17	17	17	17	17	17	17	17	17	18	18	18	17
DISTR OF MEAN	5.9%	8.9%	5.6%	12.6%	13.1%	12.1%	7.4%	4.7%	8.7%	8.7%	5.6%	6.7%	100%



**BRAZOS RIVER BASIN**  
**08116500 Dry Creek near Richmond, Texas**

**LOCATION:** Lat 29°30'19", long 95°42'39", Fort Bend County, at the bridge on a county road, 2.0 mi (3.2 km) upstream from the Farm to Market Road 782 bridge, 2.3 mi (3.7 km) south of the Gulf, Colorado, and Santa Fe Railroad Co. bridge at Crabb, and 6.0 mi (9.6 km) southeast of Richmond.

**DRAINAGE AREA:** 10.3 mi<sup>2</sup> (26.7 km<sup>2</sup>).

**PERIOD OF RECORD:** June 1947 to June 1950, October 1956 to November 1957.

**GAGE:** Water-stage recorder and concrete control. Datum of gage is 65.5 ft (19.7 m) above mean sea level, datum of 1929, Houston supplementary adjustment of 1943.

**AVERAGE DISCHARGE:** 6 years, (1947-50, 1956-57), 8,091 ac-ft/yr (10.0 hm<sup>3</sup>/yr).

**EXTREMES:** Period of record (1947-50, 1956-57): Maximum discharge, 1,790 ft<sup>3</sup>/s (50.7 m<sup>3</sup>/s) October 15, 1957 (gage height, 10.13 ft or 3.1 m); no flow at times.

Highest stage known, flood in August 1945 reached a stage of 16.1 ft (4.6 m), present datum, from information by an observer.

**REMARKS:** Records good. Part of the low flow is drainage from areas irrigated with diversions from the Brazos River. No diversion above station.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	28.0	105	210	11.0	3.00	90.0	5.00	-
1948	379	447	233	.60	246	16.0	65.0	88.0	107	2.80	108	1.20	1694
1949	42.0	1220	232	1710	341	642	870	1030	1090	4560	19.0	2230	13986
1950	668	1040	20.0	208	12.0	479	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	0	0	6.30	-
1957	0	9.5	2040	1710	309	760	204	199	37.0	3090	8640	-	-
MAX	668	1220	2040	1710	341	760	870	1030	1090	4560	8640	2230	13986
MIN	0	9.5	20.0	.60	12.0	16.0	65.0	88.0	11.0	0	0	1.20	1694
MEAN	272	679	631	907	227	385	311	382	311	1531	1771	684	8091
NL	4	4	4	4	4	5	4	4	4	5	5	4	2
DISTR													
CF MEAN	3.4%	8.4%	7.8%	11.2%	2.8%	4.8%	3.8%	4.7%	3.8%	18.9%	21.9%	8.5%	100%

BRAZOS RIVER BASIN

08116650 Brazos River near Rosharon, Texas

LOCATION: Lat 29°20'58", long 95°34'56", Fort Bend-Brazoria County line, at the bridge on Farm Road 1462, 2.0 mi (3.2 km) downstream from Big Creek, 2.1 mi (3.4 km) upstream from Cow Creek, and 7.3 mi (11.7 km) west of Rosharon.

DRAINAGE AREA: 45,339 mi<sup>2</sup> (117,428.0 km<sup>2</sup>), of which 9,566 mi<sup>2</sup> (24,775.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 9 years, 5,670,309 ac-ft/yr (6,991.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge 79,900 ft<sup>3</sup>/s (2,260 m<sup>3</sup>/s) May 14, 1968 (elevation, 50.74 ft or 15.466 m); minimum, 40 ft<sup>3</sup>/s (1.13 m<sup>3</sup>/s) Apr. 7-10, 1967.

Maximum elevation since at least 1884, 56.4 ft (17.19 m) about Dec. 11, 1913, from information by the Texas Highway Department.

REMARKS: Records good. Water is diverted above the station for irrigation, industrial, and municipal water supply materially affects the low flow. The flow is partly regulated by 29 major upstream reservoirs having a combined capacity of 6,892,000 ac-ft (8,497.8 hm<sup>3</sup>), of which 3,643,000 ac-ft (4,491.8 hm<sup>3</sup>) is for flood control.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	86790	131400	129100	64180	57580	65320	56300	267900	167400	-
1968	1154000	776200	955700	1004000	2267000	1808000	1119000	166000	217900	184300	159500	569400	10363000
1969	186400	600200	888700	1334000	1583000	401500	139700	70780	90920	78300	155300	300300	5829100
1970	357500	291600	1545000	799400	617900	398300	80390	68240	191600	496200	123800	55990	5026120
1971	68800	33100	30640	32140	70660	21840	15130	172200	203700	228000	347900	771600	1995710
1972	463100	245700	114100	38150	502200	122400	79550	81610	66680	76700	302100	176100	2268390
1973	477200	540000	951200	1322000	899000	1659000	395000	143900	270700	1491000	554200	437100	9140300
1974	786400	463600	205300	112900	293600	42040	29730	64590	1153000	434800	1998000	927900	6511660
1975	695900	1296000	558700	596500	1378000	1335000	526600	270200	141500	113400	110900	119000	7141700
MAX	1154000	1296000	1545000	1334000	2267000	1808000	1119000	270200	1153000	1491000	1998000	927900	10363000
MIN	68800	33100	30640	32140	70660	21840	15130	57580	65320	56300	110900	55990	1995710
MEAN	523663	530800	656168	591764	860307	657464	272142	121900	266836	351000	446622	391643	5670309
NO.	8	8	8	9	9	9	9	9	9	9	9	9	8
DISTR													
OF MEAN	9.2%	9.4%	11.6%	10.4%	15.2%	11.6%	4.8%	2.1%	4.7%	6.2%	7.9%	6.9%	100%

BRAZOS-COLORADO COASTAL BASIN

08117500 San Bernard River near Boling, Texas

LOCATION: Lat 29° 18' 47", long 95° 53' 36", Wharton-Fort Bend County line, at the bridge on Farm Road 442, 2.5 mi (4.0 km) downstream from Snake Creek, and 4.5 mi (7.2 km) northeast of Boling.

DRAINAGE AREA: 727 mi<sup>2</sup> (1,883 km<sup>2</sup>).

PERIOD OF RECORD: May 1954 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 30.81 ft (9.391 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 22 years, 359,267 ac-ft/yr (443.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1954-75): Maximum discharge, 21,200 ft<sup>3</sup>/s (600 m<sup>3</sup>/s) June 28, 1960 (gage height, 42.41 ft or 12.927 m); minimum, 2.4 ft<sup>3</sup>/s (0.068 m<sup>3</sup>/s) Nov. 27-30, 1956.

Maximum stage since at least 1900, 43.5 ft (13.26 m) in 1913 (probably December).

REMARKS: Records good. Part of the low flow is drainage from areas irrigated with diversions from the Colorado River. There are several diversions above the station for irrigation and other uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	7040	1460	2120	7240	5260	1070	624	3830	-
1955	11190	54590	791	1550	25600	5300	3570	4990	8930	920	311	441	118183
1956	9250	7770	367	2210	1400	616	660	1650	2090	201	470	1750	28234
1957	404	945	131700	57640	69670	23220	1780	4146	8100	204500	74830	11090	588019
1958	76620	51170	9160	1620	18020	2040	3290	3870	40040	16980	5510	6670	234990
1959	7970	119400	10960	133500	39100	9990	8200	38060	10170	26880	87330	29200	520760
1960	35280	33290	7650	4980	21770	172600	70480	15520	8330	47990	45850	65430	529370
1961	88590	147200	10080	5840	6830	137700	87140	14080	182600	3600	40410	10670	734740
1962	2740	6870	2500	5340	9990	17680	19070	6830	11430	3220	1160	20900	107750
1963	29630	14600	2470	906	2300	8200	10320	9700	6000	3570	6850	18030	112576
1964	3550	36720	34120	1080	3060	15940	6760	6830	25430	18170	16250	20710	188620
1965	47050	37470	5570	1480	36980	5710	6720	7210	8910	19320	70840	46550	287810
1966	25700	56850	9440	50500	99810	9360	11880	14290	16090	7440	487	481	302328
1967	3160	846	534	5400	16640	11830	9520	15810	37420	36240	1860	4260	143520
1968	92780	10010	9420	6950	119400	234300	64920	12040	23470	13260	4620	22650	613840
1969	12170	117900	63830	12900	82250	5720	9440	13530	12790	9480	2270	13730	356010
1970	8380	5750	59910	9260	12080	14390	12420	8520	18510	166400	7140	1190	323950
1971	859	2430	744	4210	7890	5950	10020	29190	168100	29870	2710	57400	319373
1972	18800	61210	16680	4120	174600	18820	16550	6030	11940	8940	18490	1480	357660
1973	18770	41690	61940	199300	11040	264000	49260	28680	126500	126500	31000	16640	975320
1974	103900	14860	15980	4760	44170	12290	18370	15210	72950	28020	122400	52360	505270
1975	15100	16900	5210	29490	95290	156800	26170	12960	17190	9890	5550	19570	410120
MAX	103900	147200	131700	199300	174600	264000	87140	38060	182600	204500	122400	65430	975320
MIN	404	846	367	906	1400	616	660	1650	2090	201	311	441	28234
MEAN	29128	39927	21869	25859	41133	51542	20394	12563	37375	35567	24863	19047	359267
NO.	21	21	21	21	22	22	22	22	22	22	22	22	21
LIST													
OF MEAN	8.1%	11.1%	6.1%	7.2%	11.4%	14.3%	5.7%	3.5%	10.4%	9.9%	6.9%	5.3%	100%

**BRAZOS-COLORADO COASTAL BASIN**  
**08117900 Big Boggy Creek near Wadsworth, Texas**

LOCATION: Lat 28°48'26", long 95°57'02", Matagorda County, at the bridge on Farm Road 521, 1.3 mi (2.1 km) upstream from the bridge on State Highway 60, 2.0 mi (3.2 km) southwest of Wadsworth, and 13.1 mi (21.1 km) upstream from the mouth (Big Boggy Cut).

DRAINAGE AREA: 10.3 mi<sup>2</sup> (26.7 km<sup>2</sup>).

PERIOD OF RECORD: July 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 13.36 ft (4.072 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 9,053 ac-ft/yr (11.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 436 ft<sup>3</sup>/s (12.3 m<sup>3</sup>/s) Oct. 11, 1970 (gage height, 10.18 ft or 3.103 m); maximum gage height, 11.90 ft (3.627 m) Sept. 6, 1973; no flow at times.

Maximum stage since 1901, 11.4 ft (3.47 m) May 31, 1970, from information by local residents.

REMARKS: Records fair. No diversion above station. An undetermined amount of water from irrigated ricefields enters the stream upstream at various points.

**DISCHARGE IN ACRE-FEET**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	423	242	2070	2210	15.0	0	-
1971	0	11.0	90.0	197	363	272	282	1070	2960	785	22.0	1990	8048
1972	589	233	30.0	553	3190	511	238	373	1360	548	636	96.0	8357
1973	126	714	107	1930	1150	1920	294	1200	5350	1510	115	25.0	14441
1974	452	59.0	318	264	3460	809	228	858	695	45.0	559	534	8481
1975	97.0	20.0	103	204	670	2010	909	694	824	198	8.10	194	5931
MAX	589	714	318	1930	3460	2010	909	1200	5350	2210	636	1990	14441
MIN	0	11.0	30.0	197	363	272	228	242	824	45.0	8.10	0	5931
MEAN	253	267	130	630	1767	1104	397	740	2243	883	226	473	9053
NO. OF MEAN	5	5	5	5	5	5	6	6	6	6	6	6	5
DISTR OF MEAN	2.8%	2.3%	1.4%	7.0%	19.5%	12.2%	4.4%	8.2%	24.8%	9.7%	2.5%	5.2%	100%

COLORADO RIVER BASIN

08118000 Lake J.B. Thomas near Vincent, Texas

LOCATION: Lat 32°35'09", long 101°12'18", Borden County, at the Big Spring pump station on the south side of the lake, 4.0 mi (6.4 km) upstream from the dam on the Colorado River, 7.3 mi (11.7 km) north of Vincent, and 12.5 mi (20.1 km) west of Ira.

DRAINAGE AREA: 3,524 mi<sup>2</sup> (9,127 km<sup>2</sup>), of which 2,590 mi<sup>2</sup> (6,710 km<sup>2</sup>) is probably noncontributing. Drainage area includes 426 mi<sup>2</sup> (1,103 km<sup>2</sup>) above the Bull Creek diversion dam, of which 32 mi<sup>2</sup> (83 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1953 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Nov. 4, 1953 to Feb. 7, 1955, Colorado River Municipal Water District nonrecording gage located 4.0 mi (6.4 km) downstream at same datum.

EXTREMES: Period of record (1953-75): Maximum contents, 218,600 ac-ft (269.5 hm<sup>3</sup>) Sept. 8, 1962 (elevation, 2,259.85 ft or 688.802 m); minimum contents, since the first appreciable storage, 4,960 ac-ft (6.12 hm<sup>3</sup>) May 28, 1971 (elevation, 2,206.43 ft or 672.520 m).

REMARKS: The lake is formed by a rolled earthfill dam, 14,500 ft (4,420 m) long, with a capacity of 203,000 ac-ft (251.0 hm<sup>3</sup>). Storage began in July 1952 and the dam was completed in September 1952. There was no appreciable storage prior to July 1953. There are two emergency spillways, both cut through natural ground and located as follows: the first is 500 ft (150 m) wide located at the left end of the dam and the second is 1,600 ft (488 m) wide located at the right end of the dam. These spillways are designed to discharge 161,000 ft<sup>3</sup>/s (4,560 m<sup>3</sup>/s) at an elevation of 2,275.0 ft (693.42 m). An uncontrolled rectangular concrete drop inlet, 38 by 53 ft (12 by 16 m) at the crest, discharges into two 10-foot (3-m) concrete conduits. In addition, there is an outlet that can release water through a 24-inch (610-millimeter) gate into a 30-inch (762-millimeter) concrete pipe. The dam was built by the Colorado River Municipal Water District to impound water for municipal and industrial water supply for the Cities of Big Spring, Odessa, and Snyder. A diversion dam on Bull Creek diverts water through a 13,000-foot long (3,960-m) gravity canal into Lake J.B. Thomas. These diversions began in November 1953.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1953	-	-	-	-	-	-	-	-	-	25310	23780	22940
1954	22510	21690	20880	47890	68150	89260	86650	83240	79900	77880	76260	74300
1955	73510	73120	75080	72730	111700	112200	132700	128600	170000	180800	175000	172200
1956	169300	166500	161800	161100	167900	167900	161800	153800	148000	145500	141100	138700
1957	136300	141700	137500	139300	173600	183700	177900	170800	165900	175700	175000	172200
1958	170000	168600	167900	183700	195800	189700	182200	178600	177200	174300	172200	168600
1959	165200	163100	159100	154400	153800	156400	171400	163800	157100	164400	160200	158700
1960	156600	153600	150400	145900	140200	133100	165000	159600	153300	205700	200100	196900
1961	195100	192700	188900	183100	176400	186100	205800	197700	190400	185100	183000	180300
1962	177800	174100	170300	166200	159300	180800	176900	171000	204700	200100	195600	192400
1963	188200	185400	181100	176700	181900	187400	178100	172000	167800	162500	158200	154400
1964	150800	147400	142700	136800	139000	135200	127200	130600	125800	120800	116400	113200
1965	109400	106500	102400	97950	104300	107100	100100	98570	111200	107100	104100	100700
1966	97480	94680	90540	111200	112100	114100	107600	109000	118500	113000	108500	104100
1967	100000	96190	92270	87470	81650	122800	124900	117800	113900	108700	104700	101000
1968	98520	96010	94020	93260	88810	87550	81820	77070	72220	67230	64960	61460
1969	57950	54960	51630	48320	64740	59630	53550	49280	47080	45970	43640	40900
1970	37890	35720	34600	31460	29050	29000	24170	20470	17680	15580	14180	12650
1971	11010	9580	7940	6410	12000	12080	12510	62920	70090	68640	66090	64270
1972	62170	60240	56970	53650	53840	52210	48910	87380	89700	88410	85320	82400
1973	81730	82360	84800	82030	77480	72810	69480	64480	61210	57530	54550	51820
1974	49870	47710	44890	42920	40060	36010	31690	30160	33620	38950	37970	36430
1975	34760	33370	31000	28900	30490	30640	39300	40170	41540	39220	37730	36220
MAX	195100	192700	188900	183700	195800	189700	205800	197700	204700	205700	200100	196900
MIN	11010	9580	7940	6410	12000	12080	12510	20470	17680	15580	14180	12650
MEAN	106641	104784	102160	102336	107376	111168	111804	112138	114402	111670	108634	105947
NO.	22	22	22	22	22	22	22	22	22	23	23	23
DISTR												
OF MEAN	8.2%	8.1%	7.9%	7.9%	8.3%	8.6%	8.6%	8.6%	8.8%	8.6%	8.4%	8.2%

COLORADO RIVER BASIN  
08118500 Bull Creek near Ira, Texas

LOCATION: Lat 32°36'02", long 101°05'40", Scurry County, 800 ft (243.8 m) upstream from the bridge on Farm to Market Road 2085, 1.9 mi (3.0 km) upstream from the Colorado River, 5.5 mi (8.8 km) west of Ira, and 8.3 mi (13.4 km) downstream from the Bull Creek diversion dam.

DRAINAGE AREA: 426 mi<sup>2</sup> (1,103.3 km<sup>2</sup>), of which 32 mi<sup>2</sup> (82.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1947 to December 1953 (before Bull Creek Diversion dam), October 1958 to September 1962.

GAGE: Water-stage recorder. Datum of gage is 2,169.15 ft (661.2 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 12 years (1947-53, 1958-62), 7,465 ac-ft/yr (9.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-53): Maximum discharge, 4,940 ft<sup>3</sup>/s (139.9 m<sup>3</sup>/s) July 6, 1948 and October 4, 1953; maximum gage height, 11.70 ft (3.6 m) July 6, 1948; no flow for many days.

Period of record (1958-62): Maximum discharge, 6,620 ft<sup>3</sup>/s (189.2 m<sup>3</sup>/s) October 18, 1960 (gage height, 13.81 ft or 4.2 m); no flow for many days.

Highest stage since 1913, 24 ft (7.3 m) in June 1939, from information by local residents.

REMARKS: Records good. Since December 1953, all of the flow from the area above the diversion dam, except part of the extreme high floods, is diverted into Lake J.B. Thomas (station 08118000). Prior to this time, there were no diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	-	-	-	27.0	27.0	4.98	-
1948	3.40	3.80	3.60	0	2360	9920	14850	115	147	651	725	0	28779
1949	5.20	5.60	3.00	1890	1800	1660	82.0	1020	1400	107	5.00	4.00	7982
1950	5.80	2.20	5.00	262	2600	2780	1370	7.10	3270	13.0	.60	4.80	10320
1951	5.00	5.80	7.50	7.70	38.0	95.0	342	4860	1.20	0	0	3.60	5366
1952	6.40	4.00	3.00	4.60	6.10	.20	0	.80	200	0	23.0	28.0	276
1953	.80	3.60	9.1	149	86.0	0	0	1530	38.0	9050	18.0	3.40	10888
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	.60	21.0	6.10	-
1959	7.90	2.60	10.0	11.0	36.0	505	29.0	9.7	.20	106	1.60	3.20	722
1960	2.60	4.20	5.80	1.00	0	0	354	6.30	0	4630	5.00	7.50	5016
1961	9.1	8.70	6.70	10.0	6.60	686	1810	1.40	3.40	5.00	65.0	6.20	2618
1962	6.20	5.60	4.60	1.60	6.20	485	430	167	2450	-	-	-	-
MAX	9.1	8.70	10.0	1890	2600	9920	14850	4860	3270	9050	725	4.98	28779
MIN	.80	2.20	3.00	0	0	0	0	.80	0	0	0	0	276
MEAN	5.24	4.61	5.83	234	694	1613	1927	772	751	1326	81.0	51.3	7465
NO.	10	10	10	10	10	10	10	10	10	11	11	11	9
DISTR OF MEAN	.12	.12	.12	3.12	9.32	21.62	25.82	10.32	10.12	17.82	1.12	.72	1002

COLORADO RIVER BASIN  
08119000 Bluff Creek near Ira, Texas

LOCATION: Lat 32°35'29", long 101°03'05", Scurry County, at the bridge on Farm Road 1606, 1.8 mi (2.9 km) upstream from the mouth, and 2.8 mi (4.5 km) west of Ira.

DRAINAGE AREA: 42.6 mi<sup>2</sup> (110.3 km<sup>2</sup>).

PERIOD OF RECORD: October 1947 to September 1965.

GAGE: Water-stage recorder. Datum of gage is 2,177.95 ft (663.8 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 19 years, 1,624 ac-ft/yr (2.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-65): Maximum discharge, 5,200 ft<sup>3</sup>/s (147.3 m<sup>3</sup>/s) July 5, 1948 (gage height, 16.22 ft or 4.9 m, from floodmark); no flow most of the time each year.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	-	-	-	3.20	8.30	72.0	-
1948	0	18.0	0	2.20	2010	153	2050	17.0	0	98.0	1.20	0	4349
1949	3.40	6.30	6.10	158	147	170	0	269	3.20	.80	0	.80	765
1950	4.20	0	0	12.0	1390	81.0	17.0	1.00	3.20	0	2.20	2.40	1513
1951	6.10	12.0	6.70	2.20	3.40	44.0	394	145	.80	0	0	0	614
1952	1.80	0	0	2.80	3.00	0	0	18.0	29.0	0	60.0	0	115
1953	0	0	0	1.20	18.0	0	14.0	150	2.00	72.0	0	1.40	259
1954	3.40	0	0	315	1290	83.0	.60	0	0	0	0	0	1692
1955	0	0	0	0	1950	82.0	0	0	0	925	0	0	2957
1956	0	0	0	2.40	490	317	0	2.00	0	9.5	0	1.60	823
1957	0	1100	9.3	722	3230	480	0	0	0	.40	1.80	0	5543
1958	0	0	1.00	570	57.0	758	0	1.60	1.40	.80	2.60	2.60	1395
1959	5.60	2.60	4.60	2.80	5.80	417	59.0	5.60	0	34.0	0	.80	538
1960	.20	0	0	0	.20	0	916	.80	0	424	0	4.00	1345
1961	5.20	0	0	0	3.00	942	559	0	.40	5.60	35.0	1.80	1552
1962	5.80	0	3.80	16.0	1.20	719	167	42.0	1940	21.0	11.0	8.50	2935
1963	3.40	1.80	1.40	129	945	126	0	.60	0	6.90	6.00	4.40	1224
1964	4.00	6.00	5.40	3.80	81.0	129	0	50.0	34.0	0	.20	0	313
1965	0	0	0	0	988	187	0	36.0	8.10	-	-	-	-
MAX	6.10	1100	9.3	722	3230	942	2050	269	1940	925	60.0	72.0	5543
MIN	0	0	0	0	.20	0	0	0	0	0	0	0	115
MEAN	2.39	63.7	2.13	108	701	260	232	41.0	112	89.0	7.13	5.58	1624
NO.	16	16	16	18	18	18	18	18	18	18	18	18	17
DISTR OF MEAN	.1%	3.9%	.1%	6.6%	43.1%	16.0%	14.3%	2.5%	6.9%	5.5%	.4%	.3%	100%

COLORADO RIVER BASIN

08119500 Colorado River near Ira, Texas

LOCATION: Lat 32°32'18", long 101°03'12", Scurry County, 530 ft (162 m) downstream from the bridge on State Highway 350, 3.8 mi (6.1 km) downstream from Bluff Creek, 4 mi (6 km) upstream from Willow Creek, and 4.5 mi (7.2 km) southwest of Ira.

DRAINAGE AREA: 3,817 mi<sup>2</sup> (9,368 km<sup>2</sup>), of which 2,590 mi<sup>2</sup> (6,710 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1947 to September 1952, October 1958 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 2,134.15 ft (650.489 m) above mean sea level, datum of 1929. Oct. 1-30, 1947, nonrecording gage at site 75 ft (23 m) upstream at same datum.

AVERAGE DISCHARGE: 24 years (1947-52, 1958-75), 14,780 ac-ft/yr (18.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-52, 1958-75): Maximum discharge, 20,600 ft<sup>3</sup>/s (581 m<sup>3</sup>/s) July 6, 1948 (gage height, 21.35 ft or 6.507 m); no flow at times.

Flood of June 16, 1913, gage height, 32 ft (9.8 m), was the greatest since at least that date from information by a local resident.

REMARKS: Records fair. Since July 1952, the flow has largely been regulated by Lake J. B. Thomas (station 08118000) located 11 mi (17.7 km) upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	-	-	-	54.0	157	1480	-
1948	45.0	77.0	19.0	4.40	9470	16680	50520	1040	345	3570	1440	36.0	83246
1949	199	130	38.0	3430	6910	6440	777	3890	3640	268	30.0	11.0	25763
1950	32.0	35.0	7.70	361	13270	4420	4970	271	17400	59.0	30.0	36.0	40892
1951	41.0	32.0	22.0	7.90	128	4000	11330	15410	105	11.0	5.80	24.0	31117
1952	35.0	22.0	13.0	8.90	.80	0	0	137	241	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	44.0	65.0	21.0	-
1959	24.0	23.0	52.0	45.0	138	1060	319	58.0	19.0	364	9.9	78.0	2190
1960	47.0	27.0	23.0	5.40	8.90	8.50	1220	6.70	.40	17310	662	56.0	19375
1961	86.0	37.0	19.0	6.00	28.0	2310	10470	495	0	49.0	289	26.0	13815
1962	29.0	19.0	29.0	152	36.0	1940	903	104	26180	409	49.0	65.0	29915
1963	34.0	32.0	19.0	276	1330	687	.40	78.0	0	156	215	23.0	2850
1964	28.0	27.0	31.0	12.0	384	343	0	1460	313	6.00	50.0	25.0	2679
1965	20.0	30.0	16.0	12.0	2500	2120	.40	214	958	17.0	58.0	24.0	5969
1966	32.0	23.0	38.0	2790	164	206	222	752	361	35.0	19.0	22.0	4664
1967	26.0	24.0	37.0	15.0	10.0	10770	341	1.50	89.0	323	26.0	29.0	11692
1968	49.0	54.0	289	911	149	139	54.0	50.0	8.90	12.0	281	28.0	2025
1969	23.0	42.0	47.0	47.0	4190	296	12.0	143	20.0	172	54.0	67.0	5113
1970	26.0	29.0	58.0	40.0	28.0	163	0	0	68.0	20.0	11.0	19.0	462
1971	19.0	19.0	16.0	14.0	667	112	715	10770	399	735	65.0	37.0	13568
1972	25.0	22.0	9.00	26.0	102	0	54.0	10150	2290	400	157	57.0	13292
1973	122	308	909	140	14.0	669	362	30.0	70.0	1.80	0	4.00	2630
1974	8.00	4.30	2.10	75.0	25.0	674	0	193	400	3710	57.0	32.0	5180
1975	35.0	51.0	12.0	17.0	694	369	1440	4740	371	14.0	136	43.0	7922
MAX	199	308	909	3430	13270	16680	50520	15410	26180	17310	1440	1480	63246
MIN	8.00	4.30	2.10	4.40	.80	0	0	0	0	1.80	0	4.00	462
MEAN	44.8	48.5	77.5	382	1829	2428	3805	2272	2422	1206	168	97.5	14780
NO.	22	22	22	22	22	22	22	22	22	23	23	23	21
DISTR													
OF MEAN	.31	.31	.51	2.61	12.41	16.41	25.71	15.41	16.41	8.21	1.11	.71	1001



COLORADO RIVER BASIN  
08120500 Deep Creek near Dunn, Texas

LOCATION: Lat 32°34'25", long 100°54'27", Scurry County, at the bridge on Farm Road 1606, 1.5 mi (2.4 km) northwest of Dunn, 2.7 mi (4.3 km) upstream from Sulphur Draw, and 8.6 mi (13.8 km) upstream from the mouth.

DRAINAGE AREA: 198 mi<sup>2</sup> (513 km<sup>2</sup>), of which 10 mi<sup>2</sup> (25.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1953 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,172.17 ft (662.077 m) above mean sea level, datum of 1929. Prior to Apr. 21, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 23 years, 8,838 ac-ft/yr (10.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1953-75): Maximum discharge, 20,700 ft<sup>3</sup>/s (586 m<sup>3</sup>/s) Aug. 14, 1972 (gage height, 31.28 ft or 9.534 m, from floodmarks); no flow for many days each year.

Maximum discharge since at least 1881, 36,400 ft<sup>3</sup>/s (1,030 m<sup>3</sup>/s) June 19, 1939 by slope-area measurement at site 8.0 mi (12.9 km) upstream from the gage.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	-	-	-	865	126	0	129	2590	58.0	1340	.20	0	-
1954	2.00	3.00	0	1510	4070	11.0	0	2.00	0	0	0	0	5598
1955	0	370	1210	0	12550	414	185	42.0	1910	5960	0	13.0	22654
1956	12.0	63.0	.20	113	328	62.0	15.0	0	0	.20	0	0	593
1957	0	3240	0	5250	15580	2880	621	25.0	316	26.0	238	43.0	28219
1958	53.0	63.0	70.0	1580	618	203	0	91.0	309	10.0	48.0	37.0	3082
1959	23.0	37.0	18.0	16.0	74.0	4150	4060	1.80	0	216	0	58.0	8654
1960	56.0	39.0	32.0	3.00	1.40	0	1440	112	4.20	1980	2.00	31.0	3701
1961	70.0	42.0	28.0	5.00	892	3230	324	2.60	1050	112	535	53.0	6344
1962	57.0	45.0	18.0	49.0	10.0	4230	245	27.0	4420	174	58.0	78.0	9411
1963	64.0	38.0	6.00	547	4040	204	0	24.0	0	18.0	160	22.0	5123
1964	51.0	19.0	1.00	0	335	270	0	16.0	177	18.0	3.60	13.0	904
1965	50.0	0	0	0	8830	651	25.0	57.0	18.0	452	137	.04	10220
1966	0	0	57.0	1740	170	1730	2.00	2030	172	.90	.30	1.90	5904
1967	4.20	3.90	6.10	54.0	.30	15010	284	152	143	135	31.0	50.0	15873
1968	100	96.0	218	846	468	171	150	0	0	0	134	36.0	2219
1969	8.80	49.0	75.0	54.0	2730	181	0	2.40	369	171	37.0	80.0	3757
1970	64.0	88.0	160	124	49.0	53.0	0	0	0	0	0	0	538
1971	0	0	0	0	2400	688	113	18010	1360	613	143	141	23468
1972	148	137	32.0	81.0	786	63.0	180	19440	3610	712	268	162	25619
1973	189	291	1260	319	260	3850	180	14.0	207	54.0	70.0	75.0	6769
1974	58.0	49.0	29.0	330	15.0	350	0	953	770	1590	204	168	4516
1975	136	173	144	135	186	34.0	2490	527	302	93.0	216	145	4581
MAX	189	3240	1260	5250	15580	15010	4060	19440	4420	5960	535	168	28219
MIN	0	0	0	0	.30	0	0	0	0	0	0	0	538
MEAN	52.1	220	153	592	2370	1671	454	1918	661	595	99.4	52.5	8838
NO.	22	22	22	23	23	23	23	23	23	23	23	23	22
DISTR													
MEAN	.6%	2.5%	1.7%	6.7%	26.8%	18.9%	5.1%	21.7%	7.5%	6.7%	1.1%	.6%	100%

COLORADO RIVER BASIN  
08120700 Colorado River near Cuthbert, Texas

LOCATION: Lat 32°28'41", long 100°56'54", Mitchell County, at the bridge on Farm Road 1808, 4.0 mi (6.4 km) downstream from Deep Creek, 4.8 mi (7.7 km) east of Cuthbert, and 8.0 mi (12.9 km) northwest of Colorado City.

DRAINAGE AREA: 4,028 mi<sup>2</sup> (10,433 km<sup>2</sup>), of which 2,600 mi<sup>2</sup> (6,730 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,073.49 ft (632.000 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 24,560 ac-ft/yr (30.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 11,500 ft<sup>3</sup>/s (326 m<sup>3</sup>/s) Aug. 14, 1972 (gage height, 25.99 ft or 7.922 m); no flow at times.

Floods in 1941 and 1946 reached a stage of 36.1 ft (11.00 m), from the Texas Highway Department bridge plans.

REMARKS: Records good. The flow is partly regulated by Lake J. B. Thomas (station 08118000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	29.0	52.0	248.10	690.0	6.00	205	1800	3290	1160	57.0	-
1966	97.0	77.0	148	9820	1680	4800	277	6430	1020	60.0	45.0	63.0	24517
1967	57.0	47.0	113	96.0	2.70	28680	951	749	494	686	146	127	32149
1968	249	288	700	2150	1160	2030	429	7.30	.70	0	515	107	7636
1969	66.0	141	201	231	17190	1620	2.80	277	777	694	229	210	21639
1970	167	182	369	433	57.0	662	0	0	2.40	18.0	5.50	33.0	1929
1971	42.0	45.0	12.0	23.0	3760	1430	859	47420	3350	1790	466	371	59568
1972	293	244	132	124	1190	132	439	28710	6140	1370	1050	467	40291
1973	633	897	4060	861	311	4020	807	48.0	599	46.0	52.0	100	12434
1974	127	122	108	338	292	1090	3.20	1870	1730	10930	716	448	17774
1975	427	526	299	208	683	339	4530	4070	1090	124	697	342	13335
MAX	633	897	4060	9820	24810	28680	4530	47420	6140	10930	1160	467	59568
MIN	42.0	45.0	12.0	23.0	2.70	132	0	0	.70	0	5.50	33.0	1929
MEAN	216	257	561	1303	4649	4700	755	8162	1546	1728	462	211	24550
NO. OF MEAN	10	10	11	11	11	11	11	11	11	11	11	11	10
DISTR OF MEAN	.9%	1.0%	2.3%	5.3%	18.9%	19.1%	3.1%	33.2%	6.3%	7.0%	1.9%	.9%	100%

COLORADO RIVER BASIN

08121000 Colorado River at Colorado City, Texas

LOCATION: Lat 32°23'33", long 100°52'42", Mitchell County, 3,517 ft (1,072 m) upstream from the bridge on State Highway 377, 4,100 ft (1,250 m) upstream from the Texas and Pacific Railroad Co. bridge, 1.3 mi (2.1 km) downstream from the bridge on Interstate Highway 20, and 1.8 mi (2.6 km) upstream from Lone Wolf Creek.

DRAINAGE AREA: 4,082 mi<sup>2</sup> (10,572 km<sup>2</sup>), of which 2,600 mi<sup>2</sup> (6,730 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1923 to August 1925 (published as "at Colorado"), June 1946 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 2,030.16 ft (618.793 m) above mean sea level, datum of 1929. Nov. 28, 1923 to Aug. 31, 1925, nonrecording gage at site 1.4 mi (2.3 km) downstream at different datum. May 8 to Aug. 5, 1946, nonrecording gage at site 185 ft (56 m) upstream at present datum.

AVERAGE DISCHARGE: 33 years (1923-25, 1946-75), 34,814 ac-ft/yr (42.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-25, 1946-75): Maximum discharge, 24,900 ft<sup>3</sup>/s (705 m<sup>3</sup>/s) July 6, 1948 (gage height, 22.37 ft or 6.81 m, from floodmark); maximum gage height, 24.89 ft (7.586 m) Aug. 14, 1972; no flow at times.

Maximum stage since at least 1910, 35.0 ft (10.94 m) June 20, 1939, present site and datum, based on floodmarks 1,000 ft (305 m) upstream and 3,740 ft (1,140 m) downstream from the gage; discharge, 66,000 ft<sup>3</sup>/s (1,870 m<sup>3</sup>/s) by slope-area measurement of peak flow at site 2.5 mi (4.0 km) upstream from the gage.

REMARKS: Records good. There is some regulation since 1952 by Lake J. B. Thomas (station 08118000). There are numerous diversions from Lake J. B. Thomas for municipal water use and oilfield operations.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	8.39	-
1924	21.2	16.1	21.2	33.0	93.30	33.80	8.88	28.30	23.50	9.49	5.20	17.5	233.34
1925	73.0	63.3	5.40	11.300	134.00	35.70	15.40	24.000	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	24.20	6.30	0	17.620	12.200	1.82	15.40	-
1947	26.0	1.21	2.15	1.64	88.000	16.90	4.35	8.50	14.00	1.220	4.99	26.70	96.683
1948	1.20	49.60	1.98	5.20	11.630	17.350	77.290	2.160	4.76	6.130	14.80	1.11	121.957
1949	36.1	2.19	1.07	8.300	1.2090	8.020	11.60	4.070	3.980	3.88	51.0	83.0	38.829
1950	1.20	1.04	20.0	8.43	2.4720	5.550	6.350	8.79	2.3610	1.72	8.70	91.0	62.468
1951	1.05	1.04	53.0	4.20	2.55	4.850	1.2960	15.910	1.03	15.0	7.30	9.9	34.414
1952	67.0	45.0	11.0	61.0	10.80	27.0	8.70	74.0	9.82	3.40	1.50	1.71	35.41
1953	15.0	23.0	1.29	8.92	1.890	0	3.64	6.670	4.48	15.600	2.28	67.0	26.326
1954	79.0	31.0	.80	16.830	2.0740	6.63	6.66	0	0	13.0	20.0	1.60	39.044
1955	7.50	96.0	10.30	.60	2.7130	1.350	6.05	1.22	6.710	9.850	0	3.20	46.904
1956	62.0	72.0	0	5.41	5.750	1.000	1.20	0	0	3.15	77.0	1.96	80.14
1957	39.0	55.00	1.23	19.750	6.4410	1.2210	5.56	3.86	2.14	3.26	10.20	93.0	104.627
1958	1.85	2.18	2.80	6.980	2.870	2.890	13.0	7.72	14.60	2.21	1.50	68.0	16.107
1959	1.14	1.31	1.17	2.45	5.57	7.160	5.760	10.0	6.40	1.960	1.87	3.64	16.669
1960	2.87	1.35	1.07	13.0	.60	4.20	4.890	5.53	16.0	18.710	1.240	2.94	26.288
1961	3.30	2.21	1.12	25.0	5.600	10.830	1.2130	7.74	1.790	1.21	2.190	1.75	34.298
1962	1.29	76.0	96.0	7.20	16.0	8.530	10.90	1.70	4.8620	15.30	3.65	4.07	61.749
1963	2.60	2.20	1.16	7.73	5.560	1.930	12.0	8.97	90.0	7.77	8.72	1.49	11.656
1964	1.15	1.81	1.36	35.0	10.20	9.34	12.0	13.40	10.10	31.0	48.0	65.0	4.927
1965	98.0	1.22	41.0	3.47	20.690	5.560	12.0	6.06	2.270	30.20	10.90	1.10	33.966
1966	1.69	1.22	3.69	8.900	2.760	4.840	4.77	50.40	14.60	1.92	89.0	1.13	24.531
1967	1.13	99.0	1.61	1.23	21.0	2.8040	1.240	5.79	6.41	5.84	1.60	2.03	31.964
1968	3.19	3.32	7.58	1.880	8.90	1.680	4.18	33.0	.60	0	6.66	1.45	7.122
1969	93.0	1.36	1.31	2.04	15.270	1.370	.20	20.0	18.0	12.0	7.70	26.0	17.288
1970	13.0	24.0	18.0	13.0	.06	1.30	16.0	9.3	27.0	10.0	1.70	5.90	2.68
1971	3.10	3.40	.50	.80	2.250	2.99	7.90	4.2030	34.50	1.160	3.43	22.0	49.641
1972	17.0	17.0	11.0	20.0	1.200	21.0	9.00	2.8590	6.690	1.280	1.360	2.08	39.423

BRAZOS RIVER BASIN

08121000 Colorado River at Colorado City, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	420	755	5430	805	85.0	3830	566	116	679	14.0	12.0	8.90	12721
1974	12.0	13.0	12.0	13.0	21.0	869	0	1350	1710	312	778	315	5405
1975	317	191	372	346	374	213	379	353	535	25.0	386	13.0	3504
MAY	420	5500	5430	19750	88000	28040	77290	42030	48620	18710	2190	2670	121957
MIN	3.10	3.40	0	.60	.06	0	0	0	0	0	0	1.60	268
MEAN	146	463	328	2695	10955	4414	4087	4386	4143	2488	441	268	34814
NG-	31	31	31	31	31	32	32	32	31	31	31	32	30
DISTR OF MEAN	.41	1.31	.91	7.71	31.51	12.71	11.71	12.61	11.91	7.11	1.31	.81	1001

COLORADO RIVER BASIN

08121500 Morgan Creek near Westbrook, Texas

LOCATION: Lat 32°23'42", long 101°01'32", Mitchell County, 1,000 ft (304.8 m) upstream from the bridge on Farm Road 670, 1.1 mi (1.8 km) upstream from Graze Creek, and 2.7 mi (4.3 km) north of Westbrook.

DRAINAGE AREA: 250 mi<sup>2</sup> (647.5 km<sup>2</sup>), of which 32 mi<sup>2</sup> (82.9 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: June 1954 to September 1963.

GAGE: Water-stage recorder. Datum of gage is 2,076.64 ft (633.0 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 12,727 ac-ft/yr (15.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1954-63): Maximum discharge, 18,600 ft<sup>3</sup>/s (526.8 m<sup>3</sup>/s) September 6, 1962 (gage height, 29.0 ft or 8.8 m); no flow at times.

Maximum stage since at least 1882, 30 ft (9.1 m) in April 1922.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	-	3010	535	84.0	0	0	0	0	-
1955	0	0	.40	0	4150	505	1530	714	0	4820	0	0	11719
1956	0	0	0	135	1940	380	782	700	0	60.0	7.10	103	4107
1957	0	.20	31.0	11190	22190	3850	12.0	158	48.0	739	852	0	39070
1958	0	0	0	645	473	316	0	1.80	169	62.0	2.00	0	1669
1959	0	48.0	13.0	14.0	159	878	2130	34.0	0	1920	18.0	65.0	5279
1960	2.80	0	0	8.10	62.0	3.00	3110	0	0	1210	.20	5.00	4401
1961	3.00	0	.40	0	2860	8230	7250	4.20	0	45.0	544	0	18937
1962	3.20	.20	1.60	4.80	0	1520	257	.40	28420	119	12.0	12.0	30350
1963	12.0	9.3	12.0	21.0	1510	66.0	182	1.00	67.0	-	-	-	-
MAX	12.0	48.0	31.0	11190	22190	8230	7250	714	28420	4820	852	103	39070
MIN	0	0	0	0	0	3.00	0	0	0	0	0	0	1669
MEAN	2.33	6.41	6.49	1335	3705	1876	1579	170	2670	997	159	20.6	12727
NO. OF	9	9	9	9	9	10	10	10	10	9	9	9	8
PERCENT	.01	.1%	.1%	10.5%	29.1%	14.7%	12.4%	1.3%	22.6%	7.8%	1.3%	.2%	100%

COLORADO RIVER BASIN

08122000 Graza Creek near Westbrook, Texas

LOCATION: Lat 32°25'03", long 101°01'10", Mitchell County, 1.2 mi (1.9 km) upstream from the mouth, and 4.2 mi (6.8 km) north of Westbrook.

DRAINAGE AREA: 21.2 mi<sup>2</sup> (54.9 km<sup>2</sup>).

PERIOD OF RECORD: June 1954 to September 1959.

GAGE: Water-stage recorder. Datum of gage is 2,092.66 ft (637.8 m) above mean sea level, datum of 1920.

AVERAGE DISCHARGE: 6 years, 1,569 ac-ft/yr (1.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1954-59): Maximum discharge, 1,800 ft<sup>3</sup>/s (50.98 m<sup>3</sup>/s) May 12, 1957 (gage height, 12.77 ft or 3.9 m); no flow at times.

Maximum stage since 1919, 19.0 ft (5.8 m) June 1939, from information by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	-	57.0	.20	0	0	0	0	.20	-
1955	0	0	.60	0	464	16.0	0	22.0	2.00	87.0	0	0	592
1956	0	0	0	184	753	0	0	0	0	33.0	0	5.40	975
1957	0	.40	0	2870	2730	219	0	18.0	0	58.0	63.0	0	5958
1958	0	0	0	2.60	25.0	96.0	0	0	61.0	0	0	0	185
1959	0	0	0	0	27.0	91.0	52.0	0	16.0	-	-	-	-
MAX	0	.40	.60	2870	2730	219	52.0	22.0	61.0	87.0	63.0	5.40	5958
MIN	0	0	0	0	25.0	0	0	0	0	0	0	0	185
MEAN	0	.08	.12	611	800	79.8	8.70	6.67	13.5	35.6	12.6	1.12	1569
NO.	5	5	5	5	5	6	6	6	6	5	5	5	4
DISTR													
OF MEAN	.0%	.0%	.0%	39.0%	51.0%	5.1%	.6%	.4%	.9%	2.3%	.8%	.1%	100%

COLORADO RIVER BASIN  
08122500 Morgan Creek near Colorado City, Texas

LOCATION: Lat 32°23'17", long 100°58'59", Mitchell County, at the bridge on U.S. Highway 80, 1.0 mi (1.6 km) upstream from the Texas and Pacific Railway Co. bridge, 5 mi (8.0 km) west of Colorado City, and 5 mi (8.0 km) east of Westbrook.

DRAINAGE AREA: 236 mi<sup>2</sup> (611.2 km<sup>2</sup>).

PERIOD OF RECORD: May 1947 to April 1949.

GAGE: Water-stage recorder. Datum of gage is 2,046.61 ft (623.8 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1947-49): Maximum discharge, 7,910 ft<sup>3</sup>/s (224.0 m<sup>3</sup>/s) July 6, 1948 (gage height, 20.44 ft or 6.2 m); no flow at times.

Maximum stage since 1932, 24.2 ft (7.4 m) June 19 or 20, 1930, from information by a local resident.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	8810	48.0	335	5.40	270	1430	241	947	-
1948	2.00	1630	6.70	16.0	98.0	211	20000	458	214	146	0	0	22782
1949	5.80	40.0	1.80	8970	-	-	-	-	-	-	-	-	-
MAX	5.80	1630	6.70	8970	8810	211	20000	458	270	1430	241	947	22782
MIN	2.00	40.0	1.80	16.0	98.0	48.0	335	5.40	214	146	0	0	22782
MEAN	3.90	835	4.25	4493	4454	130	10168	232	242	788	121	474	21945
NO.	2	2	2	2	2	2	2	2	2	2	2	2	1
EXISTR OF MEAN	.0%	3.8%	.0%	20.5%	20.3%	.6%	46.3%	1.1%	1.1%	3.6%	.5%	2.2%	100%

COLORADO RIVER BASIN

08123000 Lake Colorado City near Colorado City, Texas

LOCATION: Lat 32°20'41", long 100°55'10", Mitchell County, at the municipal water-intake structure, 1.7 mi (2.7 km) upstream from the Colorado City Dam on Morgan Creek, 2.2 mi (3.5 km) downstream from the Texas and Pacific Railway Co. bridge, 2.5 mi (4.0 km) upstream from the mouth, and 4.0 mi (6.4 km) southwest of Colorado City.

DRAINAGE AREA: 322 mi<sup>2</sup> (834 km<sup>2</sup>), of which 32 mi<sup>2</sup> (83 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1949 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Aug. 23, 1950, nonrecording gages at or near the powerplant 0.7 mi (1.1 km) downstream at same datum.

EXTREMES: Period of record (1949-75): Maximum contents, 40,280 ac-ft (49.7 hm<sup>3</sup>) Sept. 7, 1962 (elevation, 2,075.10 ft or 632.490 m); minimum contents since the first appreciable storage, 5,800 ac-ft (7.15 hm<sup>3</sup>) Apr. 11-13, 1950 (elevation, 2,045.72 ft or 623.536 m).

REMARKS: The lake is formed by a rolled earthfill dam 4,800 ft (1,460 m) long, with a capacity of 31,640 ac-ft (39.0 hm<sup>3</sup>). Storage began in April 1949 and the dam was completed in September 1949. The dam and lake are owned and operated by the Texas Electric Service Co. in the operation of their thermal electric powerplant. The uncontrolled emergency spillway is an excavated cut channel through natural ground 1,200 ft (366 m) wide located 600 ft (180 m) upstream and to the left of the left end of the dam. The spillway is designed to discharge 150,000 ft<sup>3</sup>/s (4,250 m<sup>3</sup>/s) at the maximum design flood elevation. The service spillway is an uncontrolled rectangular drop inlet located 100 ft (30 m) upstream from the dam with two uncontrolled openings of 10 by 12 ft (3.0 by 3.7 m) which is designed for a maximum discharge of 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s). A service outlet is provided for small releases downstream through a 30-inch (762-millimeter) valve-controlled concrete pipe.

END OF MONTH CONTENTS IN ACRE-FEET T

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1949	-	-	-	4 880	6 950	6 600	6 250	6 250	6 720	6 550	6 400	6 300
1950	6 200	6 100	5 900	6 350	1 750	1 814	1 803	1 748	2 264	2 172	2 096	2 048
1951	20 000	19 760	19 160	18 580	18 030	1 759	1 726	1 640	1 560	1 500	1 460	1 424
1952	14 060	13 700	13 250	12 890	12 800	1 190	1 118	1 038	1 500	1 424	1 397	1 379
1953	13 520	13 160	12 800	12 260	11 660	1 078	1 022	9 740	9 820	13 830	13 560	13 200
1954	13 020	12 570	12 060	15 700	2 626	2 754	2 626	2 475	2 325	2 245	2 193	2 144
1955	21 200	20 840	20 240	19 400	2 310	2 258	2 271	2 206	2 132	2 445	2 370	2 325
1956	22 840	22 450	21 800	21 930	2 385	2 297	2 232	2 120	2 012	1 964	1 907	1 885
1957	18 520	18 410	17 970	30 840	3 340	3 120	2 958	2 838	2 770	2 700	2 638	2 787
1958	27 700	27 380	27 220	27 380	2 754	2 658	2 490	2 415	2 340	2 297	2 258	2 260
1959	21 680	21 440	20 840	20 120	1 964	1 988	2 120	2 000	1 907	2 103	2 054	2 052
1960	20 300	19 860	19 450	18 780	1 797	1 675	1 811	1 731	1 629	1 684	1 626	1 688
1961	15 950	15 710	15 180	14 360	1 606	2 275	2 850	2 692	2 566	2 499	2 533	2 486
1962	24 400	23 840	23 240	22 550	2 121	2 155	2 127	2 005	3 120	3 079	3 010	2 965
1963	29 030	28 710	27 910	27 380	2 791	2 699	2 547	2 420	2 325	2 262	2 225	2 186
1964	21 490	21 120	20 620	19 730	1 998	1 896	1 750	1 738	1 685	1 670	1 610	1 569
1965	15 270	14 900	14 350	14 270	1 896	2 163	1 997	1 974	1 942	1 935	1 900	1 858
1966	18 150	17 840	17 270	26 640	3 160	3 174	3 002	2 888	2 916	2 817	2 741	2 661
1967	26 000	25 330	24 570	23 460	2 208	2 166	2 077	1 947	1 891	1 804	1 779	1 739
1968	17 260	16 950	16 800	16 260	1 535	1 465	1 445	1 431	1 441	1 458	1 586	1 656
1969	17 210	17 160	16 640	15 960	2 015	2 182	1 986	1 817	1 723	1 655	1 613	1 586
1970	15 300	14 850	14 660	14 560	1 469	1 485	1 419	1 391	1 393	1 434	1 470	1 457
1971	14 350	14 500	13 860	12 850	1 191	1 197	1 189	1 804	1 778	1 718	1 640	1 595
1972	15 290	14 750	14 590	14 580	1 512	1 457	1 444	1 588	1 679	1 650	1 983	1 925
1973	19 030	19 280	22 030	21 660	2 067	1 927	1 917	1 763	1 751	1 668	1 596	1 526
1974	14 760	14 680	14 630	14 490	1 436	1 401	1 395	1 471	1 761	2 876	2 817	2 771
1975	27 190	26 910	25 960	25 080	2 490	2 346	2 363	2 657	2 675	2 582	2 563	2 523
MAX	29 030	28 710	27 910	30 840	3 340	3 174	3 002	2 888	3 120	3 079	3 010	2 965
MIN	6 200	6 100	5 900	4 880	6 950	6 600	6 250	6 250	6 720	6 550	6 400	6 300
MEAN	18 835	18 546	18 192	18 257	1 976	1 971	1 937	1 902	1 953	1 987	1 972	1 937
NO.	26	26	26	27	27	27	27	27	27	27	27	27
DISTR												
OF MEAN	8.2%	8.1%	7.9%	7.9%	8.6%	8.6%	8.4%	8.3%	8.5%	8.7%	8.6%	8.4%



COLORADO RIVER BASIN  
08123500 Champlin Creek near Colorado City, Texas

LOCATION: Lat 32°18', long 100°49', Mitchell County, 600 ft (182.9 m) downstream from South Fork, 5 mi (8.0 m) southeast of Colorado City, and 5.5 mi (8.8 km) upstream from the mouth.

DRAINAGE AREA: 158 mi<sup>2</sup> (409.2 km<sup>2</sup>).

PERIOD OF RECORD: October 1947 to September 1959.

GAGE: Water-stage recorder. Datum of gage is 2,047.2 ft (623.99 m) above mean sea level, datum of 1929. Prior to July 5, 1940, staff gage at same site and datum.

AVERAGE DISCHARGE: 13 years, 9,310 ac-ft/yr (11.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-59): Maximum discharge, 10,200 ft<sup>3</sup>/s (288.8 m<sup>3</sup>/s) October 25, 1947 (gage height, 10.40 ft or 3.2 m, from floodmark); no flow at times.

Maximum stage since at least 1898, 18.5 ft (5.6 m) July 7 or 8, 1945, from floodmarks.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	-	-	-	-	-	6820	52.0	121	-
1948	90.0	859	375	102	4870	2310	2690	97.0	51.0	755	30.0	38.0	12267
1949	112	172	59.0	1980	4650	71.0	21.0	11.0	456	33.0	31.0	54.0	7650
1950	77.0	61.0	34.0	406	1730	32.0	826	459	889	20.0	32.0	74.0	4640
1951	69.0	79.0	66.0	49.0	6930	2740	1220	16.0	16.0	12.0	10.0	26.0	11233
1952	55.0	69.0	47.0	20.0	610	3.00	29.0	4.00	369	9.1	107	24.0	1346
1953	25.0	31.0	37.0	19.0	232	3.60	925	342	411	1660	7.30	8.90	3702
1954	21.0	16.0	12.0	188	7990	16.0	3.00	6.10	6.00	17.0	3.80	7.50	8286
1955	12.0	101	6.50	6.10	5910	1180	2130	34.0	15.0	441	7.30	7.30	9850
1956	9.3	9.7	10.0	907	3620	1190	9.3	4.0	0	75.0	6.70	65.0	5902
1957	8.10	11.0	82.0	13370	12580	7480	15.0	87.0	2940	462	85.0	21.0	37141
1958	25.0	28.0	31.0	36.0	228	9.7	12.0	788	277	109	12.0	13.0	1569
1959	16.0	18.0	11.0	13.0	25.0	490	400	6.50	150	-	-	-	-
MAX	112	859	375	13370	12580	7480	2690	788	2940	6820	107	121	37141
MIN	8.10	9.7	6.50	6.10	25.0	3.00	3.00	4.0	0	9.1	3.80	7.30	1346
MEAN	43.3	121	64.2	1425	4115	1294	690	154	465	868	32.0	38.3	9310
NO. OF MEAN	12	12	12	12	12	12	12	12	12	12	12	12	11
DISTR OF MEAN	.5%	1.3%	.7%	15.3%	44.2%	13.9%	7.4%	1.7%	5.0%	9.3%	.3%	.4%	100%

COLORADO RIVER BASIN

08123600 Champion Creek Reservoir near Colorado City, Texas

LOCATION: Lat 32°16'53", long 100°51'30", Mitchell County, in the service outlet structure at Champion Creek Dam on Champion Creek, 0.9 mi (1.4 km) upstream from the mouth, 4.8 mi (7.7 km) downstream from the bridge on State Highway 208, and 7.2 mi (11.6 km) south of Colorado City.

DRAINAGE AREA: 203 mi<sup>2</sup> (526 km<sup>2</sup>).

PERIOD OF RECORD: March 1959 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 29, 1959, nonrecording gage at same site and datum.

EXTREMES: Period of record (1959-75): Maximum contents, 27,910 ac-ft (34.4 hm<sup>3</sup>) June 19, 1965 (elevation, 2,071.98 ft or 631.540 m); minimum contents, 1,600 ac-ft (1.97 hm<sup>3</sup>) Oct. 1, 1959 (elevation, 2,025.90 ft or 617.494 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 6,800 ft (2,070 m) long, with a capacity of 42,500 ac-ft (52.4 hm<sup>3</sup>). The dam was completed on Apr. 30, 1959 but storage began in February 1959. The dam and reservoir are owned and operated by the Texas Electric Service Co. Water may be pumped from the reservoir through a 24-inch (610-millimeter) pipeline to Lake Colorado City (station 08123000) for municipal use and for cooling operations of a steam generating powerplant. There are two spillways. The emergency spillway, 450 ft (137 m) wide by 1,800 ft (549 m) long, is located at the right end of the dam. The service spillway (a cut channel 50 ft or 15 m wide, 1,800 ft or 549 m long, and 8 ft or 2 m deep) is cut into the emergency spillway at the extreme right end. There is a controlled drop-inlet structure, 4.0 by 5.0 ft (1.2 by 1.5 m), with a side opening of 1.5 by 3 ft (0.5 by 1.0 m).

END OF MONTH CONTENTS IN ACRE-FEET 1

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1959	-	-	789	798	808	1340	1810	1480	1600	3080	2990	3040
1960	3040	3010	2960	2860	2730	3330	3170	3960	3760	3750	3670	3690
1961	3730	3720	3640	3460	3860	4440	6670	6350	6220	6070	6130	6090
1962	6040	5950	5960	5870	5540	6420	6520	6340	13800	14090	13970	13830
1963	13660	13620	13390	14110	15290	15020	14390	13970	13660	13820	13760	13630
1964	13540	13440	13270	13040	12730	12300	11710	11300	11210	10990	10810	10720
1965	10610	10580	10420	10400	15110	15690	15050	16400	16640	17380	17350	17250
1966	17120	17040	16850	20800	20820	27620	26730	26670	27190	26700	26340	26020
1967	25850	25430	25310	24760	24090	24430	23940	23270	23290	22760	22760	22540
1968	22660	22670	22720	22620	22330	22110	20480	18670	17000	15350	14110	12640
1969	11150	10640	10590	10570	13780	14670	14070	14020	14110	13930	13860	13940
1970	13910	13900	13430	12400	10780	10830	9320	7740	6600	5250	4060	3580
1971	2960	2080	1740	1740	6170	6590	6970	11660	12310	12610	12440	12450
1972	12350	12290	11070	9820	9580	9000	7580	6780	7660	7840	7840	7820
1973	7960	8090	10760	10990	10850	10550	10420	10000	10600	10490	10380	10260
1974	10250	10130	10060	9290	8140	6460	4960	4380	6870	8630	8650	8720
1975	8760	8850	8740	8630	9050	8790	11480	12070	12040	11860	12050	12070
MAX	25850	25430	25310	24760	24090	27620	26730	26670	27190	26700	26340	26020
MIN	2960	2080	789	798	808	1340	1810	1480	1600	3080	2990	3040
MEAN	11474	11340	10688	10715	11274	11741	11486	11474	12033	12036	11828	11664
NO.	16	16	17	17	17	17	17	17	17	17	17	17
DISTR OF MEAN	8.3%	8.2%	7.8%	7.8%	8.2%	8.5%	8.3%	8.3%	8.7%	8.7%	8.6%	8.5%

COLORADO RIVER BASIN

08123650 Beals Creek above Big Spring, Texas

LOCATION: Lat 32°15'01", long 101°29'26", Howard County, at the end of Channing Street in Big Spring, just downstream from One-Mile Lake, 2.9 mi (4.7 km) upstream from Little Sandy Creek, and 7.5 mi (12.1 km) downstream from the confluence of Sulphur Springs Creek and Mustang Draw.

DRAINAGE AREA: 9,409 mi<sup>2</sup> (24,369 km<sup>2</sup>), of which 8,915 mi<sup>2</sup> (23,090 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: January 1850 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 2,400.02 ft (731.526 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 897 ac-ft/yr (1.1 hm<sup>3</sup>/s).

EXTREMES: Period of record (1859-75): Maximum discharge, 255 ft<sup>3</sup>/s (7.22 m<sup>3</sup>/s) Sept. 6, 1962 (gage height, 5.95 ft or 1.814 m); no flow most of the time.

Flood of May 10, 1957 was highest known since 1932, from comparison of floods at a point 4 mi (6 km) downstream, from information by the City Engineering Department.

REMARKS: Records good. The runoff from the contributing drainage area is largely regulated by several natural salt lakes.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	0	0	0	0	0	30.0	39.4	.60	0	0	0	0	425
1960	0	0	0	55.0	210	0	113	0	0	0	0	0	378
1961	0	0	0	0	0	4.00	402	1.80	40.0	3.80	.20	0	452
1962	0	0	0	0	0	0	0	0	1610	35.0	.60	0	1646
1963	0	0	0	0	0	73.0	4.00	0	0	0	0	0	77.0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	493	11.0	0	0	9.5	1.80	0	0	515
1966	0	0	0	369	364	36.0	4.80	24.0	556	70.0	2.40	0	1426
1967	0	210	24.0	2.10	0	0	0	0	72.0	2.90	0	0	311
1968	2.30	6.80	7.70	18.0	1330	2.70	0	0	0	0	0	0	1367
1969	0	0	0	0	399	159	0	0	0	0	0	3.30	561
1970	6.80	1.30	33.0	3.40	.04	8.10	0	0	0	0	0	0	52.6
1971	0	0	0	0	68.0	46.0	.50	135	4.10	3.00	0	0	257
1972	0	0	0	0	0	55.0	7.00	110	447	77.0	81.0	30.0	807
1973	40.0	83.0	146	28.0	22.0	43.0	0	0	5.00	0	0	0	367
1974	0	0	0	0	1.80	0	0	0	0	609	74.0	17.0	702
1975	16.0	32.0	5.00	0	2800	417	1740	670	160	16.0	23.0	13.0	5892
MAX	40.0	210	146	369	2800	417	1740	670	1610	609	81.0	30.0	5892
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	3.83	19.6	12.7	28.0	335	52.0	157	55.4	171	48.1	10.7	3.72	897
NO.	17	17	17	17	17	17	17	17	17	17	17	17	17
DISTR OF MEAN	.4%	2.2%	1.4%	3.1%	37.3%	5.8%	17.5%	6.2%	19.0%	5.4%	1.2%	.4%	100%

COLORADO RIVER BASIN

08123700 Beals Creek at Big Spring, Texas

LOCATION: Lat 32° 15'45", long 101° 20'30", Howard County, at the bridge on U.S. Highway 80, 0.2 mi (0.3 km) downstream from Little Sandy Draw, 0.2 mi (0.3 km) upstream from Big Sandy Draw, and 2.0 mi (3.2 km) east of the Big Spring City Hall.

DRAINAGE AREA: 10,320 mi<sup>2</sup> (26,728.8 km<sup>2</sup>), of which 7,030 mi<sup>2</sup> (18,207.7 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1957 to December 1958.

GAGE: Water-stage recorder. Datum of gage is 2,380.03 ft (725.4 m) above mean sea level, datum of 1929.

EXTREMES: Flood of May 10, 1957 was the highest known since 1932, from comparison of floods at a point 4,000 ft (1,219.2 m) downstream, from information by the Big Spring Engineering Department.

REMARKS: Records poor. No diversion above station. Runoff from contributing drainage area is largely regulated by several natural salt lakes upstream from the City of Big Spring.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1957	-	-	6.70	118	2800	561	10.0	205	41.0	179	232	0	-
1958	13.0	30.0	0	163	23.0	37.0	1.20	956	12.0	47.0	2.20	0	1284
MAX	13.0	30.0	6.70	163	2800	561	10.0	956	41.0	179	232	0	1284
MIN	13.0	30.0	0	118	23.0	37.0	1.20	205	12.0	47.0	2.20	0	1284
MEAN	13.0	30.0	3.35	141	1412	299	5.60	581	26.5	113	117	0	2741
NO. OF MEAN	1	1	2	2	2	2	2	2	2	2	2	2	1
DISTR OF MEAN	.5%	1.1%	.1%	5.1%	51.5%	10.9%	.2%	21.2%	1.0%	4.1%	4.3%	.0%	100%

COLORADO RIVER BASIN

08123800 Beals Creek near Westbrook, Texas

LOCATION: Lat 32°11'57", long 101°00'49", Mitchell County, at the bridge on State Highway 163, 2.1 mi (3.4 km) downstream from Hackberry Creek, 10.8 mi (17.4 km) south of Westbrook, and 15.7 mi (25.3 km) southwest of Colorado City.

DRAINAGE AREA: 9,903 mi<sup>2</sup> (25,648 km<sup>2</sup>), of which 8,930 mi<sup>2</sup> (23,130 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1958 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,048.74 ft (624.458 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 17,948 ac-ft/yr (22.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 8,780 ft<sup>3</sup>/s (249 m<sup>3</sup>/s) May 19, 1961 (gage height, 21.65 ft or 6.509 m); no flow at times.

Maximum stage since 1908, 24.5 ft (7.47 m) in 1922, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	-	-	-	-	-	-	-	-	-	1030	237	9.3	-
1959	6.10	84.0	37.0	15.0	617	3930	5390	15.0	180	16330	225	372	27201
1960	147	59.0	63.0	3320	457	37.0	3180	74.0	170	524	5.60	119	8156
1961	158	66.0	24.0	6.90	10160	3580	15880	95.0	311	373	1690	102	32446
1962	78.0	56.0	305	70.0	8.30	648	241	100	21630	299	95.0	140	23670
1963	90.0	161	85.0	996	3880	1440	39.0	166	272	0	542	116	7787
1964	125	149	381	67.0	1260	741	0	63.0	1140	1.80	51.0	46.0	4025
1965	58.0	211	41.0	1220	12800	7420	356	656	4480	5180	121	88.0	32631
1966	147	102	150	15240	3820	1540	113	879	2580	343	104	135	25153
1967	156	368	313	57.0	56.0	2360	1710	495	2270	50.0	183	175	8193
1968	260	240	703	826	7420	809	426	25.0	92.0	8.10	905	160	11874
1969	137	168	213	1390	9200	1140	4.80	2170	1120	639	247	462	16891
1970	162	175	526	154	54.0	139	1.20	.30	585	150	59.0	101	2106
1971	122	89.0	55.0	444	2560	434	1300	10360	3930	263	128	148	19833
1972	127	119	62.0	507	2290	2280	794	1520	7910	1140	580	263	17592
1973	531	827	4650	2190	400	830	1250	144	3550	158	117	138	14785
1974	216	137	194	127	825	53.0	.20	698	8650	12210	658	372	24140
1975	363	394	243	234	14560	1550	2730	5840	2490	386	937	380	30107
MAX	531	827	4650	15240	14560	7420	15880	10360	21630	16330	1690	462	32631
MIN	6.10	56.0	24.0	6.90	8.30	37.0	0	.30	92.0	0	5.60	9.3	2106
MEAN	170	200	473	1580	4139	1702	1966	1371	3609	2171	382	185	17948
NO.	17	17	17	17	17	17	17	17	17	18	18	18	17
DISTN OF MEAN	.9%	1.1%	2.6%	8.8%	23.1%	9.5%	11.0%	7.6%	20.1%	12.1%	2.1%	1.0%	100%

COLORADO RIVER BASIN

08123850 Colorado River above Silver, Texas

LOCATION: Lat 32°03'37", long 100°45'56", Coke County, 25 ft (7.6 m) downstream from a Pan American Oil Co. bridge, and 4.7 mi (7.6 km) west of Silver.

DRAINAGE AREA: 15,407 mi<sup>2</sup> (39,904 km<sup>2</sup>), of which 11,600 mi<sup>2</sup> (30,044 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: September 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,907.66 ft (581.455 m) above mean sea level, datum of 1929. Prior to Oct. 4, 1972, water-stage recorder at site 0.5 mi (0.8 km) downstream at same datum.

AVERAGE DISCHARGE: 9 years, 50,029 ac-ft/yr (61.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 12,900 ft<sup>3</sup>/s (365 m<sup>3</sup>/s) May 29, 1971 (gage height, 17.68 ft or 5.389 m, at former site); no flow at times.

REMARKS: Records good. There is some regulation by Lake J. B. Thomas, Lake Colorado City, and Champion Creek Reservoir (stations 08118000, 08123000, and 08123600, respectively).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	3520	773	381	502	-
1968	849	749	2210	3230	11720	5000	1430	433	0	0	1530	457	27608
1969	222	334	465	1880	28990	5170	40	1440	1350	602	358	794	41605
1970	330	192	773	178	827	3540	0	228	669	95.0	.02	19.0	6851
1971	72.0	57.0	22.0	506	15790	5770	9900	69000	14450	2180	1240	387	119374
1972	296	242	95.0	1430	5840	1650	707	26880	15720	3330	4010	761	60961
1973	1330	1930	17210	6410	767	4710	4010	699	4960	343	172	216	42757
1974	371	319	290	141	821	889	0	7290	17620	28880	3150	1290	61061
1975	1120	1390	545	290	10880	1110	13290	11970	4090	518	2020	613	47836
MAX	1330	1930	17210	6410	28990	5770	13290	69000	17620	28880	4010	1290	119374
MIN	72.0	57.0	22.0	141	767	889	0	228	0	0	.02	19.0	6851
MEAN	574	652	2701	1758	9454	3480	3667	14743	6931	4060	1429	560	50029
NO. OF MEAN	8	8	8	8	8	8	8	8	9	9	9	9	8
DISTR OF MEAN	1.1x	1.3x	5.4x	3.5x	18.9x	7.0x	7.3x	29.5x	13.9x	8.2x	2.9x	1.1x	100x

COLORADO RIVER BASIN  
08123900 Colorado River near Silver, Texas

LOCATION: Lat 32°01'10", long 100°44'08", Coke County, at the bridge on Farm Road 2059, 4.7 mi (7.6 km) southwest of Silver, and 11 mi (17.7 km) upstream from Pecan Creek.

DRAINAGE AREA: 15,480 mi<sup>2</sup> (40,083.2 km<sup>2</sup>), of which 11,600 mi<sup>2</sup> (30,044 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1956 to September 1970.

GAGE: Water-stage recorder. Datum of gage is 1,875.51 ft (571.5 m) above mean sea level, datum of 1929. Prior to February 7, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 15 years, 76,033 ac-ft/yr (93.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1956-70): Maximum discharge, 23,200 ft<sup>3</sup>/s (657.0 m<sup>3</sup>/s) May 12, 1957 (gage height, 24.19 ft or 7.4 m, from floodmark in gage well); no flow at times each year.

Maximum stage since at least 1891, about 32 ft (9.8 m) April 1922, from information by a local resident.

REMARKS: Records good. There is some regulation by Lake J. B. Thomas, Lake Colorado City, and Champion Creek Reservoir (stations 08118000, 08123000, 08123600, respectively).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	-	-	-	-	-	-	-	-	-	7150	387	2100	-
1957	3.60	5880	3170	60480	192100	69550	2200	4140	11600	15130	4430	313	368997
1958	428	428	437	6310	5620	4310	315	3350	3070	944	382	110	25704
1959	114	121	56.0	93.0	925	11110	11920	24.0	63.0	20690	1210	835	47161
1960	462	236	173	2720	395	565	7350	1820	439	19890	1800	688	36538
1961	627	329	84.0	18.0	31290	14860	41510	1600	2130	513	3850	417	97228
1962	203	87.0	609	570	114	9940	3370	405	117100	3550	831	756	137535
1963	352	336	42.0	1930	10730	3810	20.0	720	242	759	1030	42.0	20013
1964	32.0	216	357	125	2630	3330	25.0	3750	9780	53.0	538	.60	20837
1965	19.0	289	5.40	4360	51210	20730	325	2040	11080	10550	1740	180	102528
1966	271	194	386	28730	20560	15230	208	4210	5530	601	88.0	200	76208
1967	268	426	406	53.0	0	28590	5230	2100	4040	771	355	505	42744
1968	794	726	2220	3180	14360	4550	1260	868	.30	0	1660	476	30094
1969	198	368	404	1790	30110	5560	.70	1500	1160	536	367	777	42771
1970	358	197	708	139	863	3280	1.20	232	691	-	-	-	-
MAX	794	5880	3170	60480	192100	69550	41510	4210	117100	20690	4430	2100	368997
MIN	3.60	87.0	5.40	18.0	0	565	.70	24.0	.30	0	88.0	.60	20013
MEAN	295	702	647	7893	25779	13958	5267	1913	11923	5796	1333	529	76033
NO.	14	14	14	14	14	14	14	14	14	14	14	14	13
DISTR OF MEAN	.4%	.9%	.9%	10.4%	33.9%	18.4%	6.9%	2.5%	15.7%	7.6%	1.8%	.7%	100%

COLORADO RIVER BASIN

08123950 E. V. Spence Reservoir near Robert Lee, Texas

LOCATION: Lat 31°52'46", long 100°31'01", Coke County, in the outlet works of Robert Lee Dam on the Colorado River, and 2.2 mi (3.5 km) west of Robert Lee.

DRAINAGE AREA: 15,740 mi<sup>2</sup> (40,770 km<sup>2</sup>), of which 11,600 mi<sup>2</sup> (30,044 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to June 24, 1960, nonrecording gage at same site and datum.

EXTREMES: Period of record (1968-75): Maximum contents, 181,900 ac-ft (224 hm<sup>3</sup>) Sept. 17, 1975 (elevation, 1,867.93 ft or 569.345 m); minimum contents since the first appreciable storage in June 1969 was not recorded, but was about 330 ac-ft (0.407 hm<sup>3</sup>) May 29, 1971.

REMARKS: The reservoir is formed by a rolled earthfill dam 27,000 ft (8,210 m) long, with a capacity of 488,800 ac-ft (602.7 hm<sup>3</sup>). Closure was made on Dec. 30, 1968 and the dam was completed in June 1969. The dam is the property of the Colorado River Municipal Water District which has a permit to divert 50,000 ac-ft (61.6 hm<sup>3</sup>) annually for municipal, mining, and industrial uses. Inflow to the reservoir is partially regulated by Lake J. B. Thomas, Lake Colorado City, and Champion Creek Reservoir (stations 08118000, 08123000, and 08123600, respectively). There are two spillways. The service spillway is a morning glory-type that is partially controlled by 12 lift gates, 14.48 by 22 ft (4.41 by 7 m), and discharges through a 28-foot diameter (9-m) concrete conduit. The emergency spillway is a 3,200-foot wide (975-m) cut through natural ground near the right end of the dam.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1968	-	-	-	-	-	-	-	-	-	-	-	143
1969	143	119	90.0	1350	29550	32700	30190	30410	31190	30830	30750	30770
1970	30390	29150	28250	26540	25110	26020	22800	18750	16690	14280	11930	9830
1971	7430	4990	2390	1010	17340	32700	36240	92210	105800	103800	101700	99500
1972	96080	93700	88880	85100	88700	87940	84300	109600	122900	124600	126000	123800
1973	124700	125000	138900	142700	138200	138000	136900	131800	134300	131100	127500	124100
1974	122300	119200	116000	112400	108800	104200	97920	102900	133900	167100	168500	167100
1975	166300	166400	163300	159900	170500	167500	174800	180800	180000	176100	176100	172600
MAX	166300	166400	163300	159900	170500	167500	174800	180800	180000	176100	176100	172600
MIN	143	119	90.0	1010	17340	26020	22800	18750	16690	14280	11930	143
MEAN	78192	76937	76830	75571	82600	84151	83307	95210	103540	106830	106069	90980
NO. OF MEAN	7	7	7	7	7	7	7	7	7	7	7	8
DISTR OF MEAN	7.4%	7.3%	7.2%	7.1%	7.8%	7.9%	7.9%	9.0%	9.8%	10.1%	10.0%	8.6%



COLORADO RIVER BASIN  
08124000 Colorado River at Robert Lee, Texas

LOCATION: Lat 31°53'07", long 100°28'49", Coke County, 190 ft (58 m) upstream from the bridge on State Highway 208 in Robert Lee, 0.4 mi (0.6 km) upstream from Mountain Creek, 2.7 mi (4.3 km) downstream from Messbox Creek, and 3.7 mi (6.0 km) downstream from Robert Lee Dam.

DRAINAGE AREA: 15,770 mi<sup>2</sup> (40,840 km<sup>2</sup>), of which 11,600 mi<sup>2</sup> (30,044 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: November 1923 to December 1927, May 1939 to April 1956, October 1968 to December 1975. Prior to December 1927, published as "near Robert Lee".

GAGE: Water-stage recorder. Datum of gage is 1,771.70 ft (540.014 m) above mean sea level, datum of 1929. Prior to Dec. 31, 1927, nonrecording gage at site 9 mi (14 km) downstream at different datum. Apr. 18, 1939 to Sept. 26, 1939, nonrecording gage, and Sept. 27, 1939 to May 9, 1956, water-stage recorder at site 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE: 31 years (1923-27, 1939-56, 1968-75), 112,887 ac-ft/yr (139.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-27, 1939-56, 1968-75): Maximum discharge, 32,500 ft<sup>3</sup>/s (920 m<sup>3</sup>/s) Sept. 6, 1926 (gage height, 20.20 ft or 6.167 m, site and datum then in use); no flow at times.

Maximum stage since at least 1907, 26.7 ft (8.14 m) Oct. 13, 1957, from floodmarks.

REMARKS: Records good. The flow is slightly regulated since April 1949 by Lake Colorado City and since July 1952 by Lake J. B. Thomas. Since December 1968, the flow was completely regulated by E. V. Spence Reservoir (station 08123050). There are many diversions above the station for municipal, cooling, mining, agricultural, and industrial water uses.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	19900	2230	-
1924	433	229	207	11300	26500	6230	60	3660	15300	16900	58.9	241	81059
1925	23.2	28.6	6.10	53000	62600	15900	2590	28700	120000	16200	1050	307	300405
1926	397	135	7230	48500	23600	48000	10500	56600	114000	40000	1410	6790	357162
1927	1020	1000	429	9220	568	7070	16000	5480	24500	5820	91.0	93.6	71292
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	32540	133300	11550	22600	182	1010	535	253	-
1940	229	370	525	1370	5160	58710	5740	14110	6480	1420	1850	831	96795
1941	192	3480	21060	86900	102100	86770	34360	13850	5890	74560	4320	4320	437802
1942	1320	736	463	1830	7680	948	26.0	55250	25140	11330	1240	3170	109133
1943	898	299	1160	689	9030	10630	3200	1.20	4.20	4.40	1.60	6.10	25919
1944	131	2670	2890	14.0	29710	8040	47640	4030	6130	4060	1010	890	107215
1945	1050	289	838	3500	124	7100	146200	15060	5160	23770	801	725	204617
1946	772	358	206	311	8170	943	139	2720	30200	28350	674	5500	78343
1947	758	222	626	8810	150300	5060	2920	1230	5970	15860	1750	5530	199036
1948	545	12320	3590	107	17960	22180	130000	5470	5490	6780	1580	175	206197
1949	657	1090	466	24760	89180	30450	2400	4160	12330	993	231	168	166885
1950	288	217	40.0	12470	45560	9320	11120	6340	26860	612	3.80	27.0	112858
1951	30.0	65.0	83.0	45.0	9870	16080	12950	14720	359	2.60	1.20	0	54206
1952	0	0	0	898	1170	553	0	2940	9.5	4.40	57.0	5628	-
1953	0	0	761	717	16180	452	9300	35560	2450	23730	2920	74.0	92144
1954	34.0	10.0	2.40	42470	94720	4510	3120	0	0	0	0	0	144866
1955	0	503	223	1.40	50830	4840	5480	3990	6110	15880	3.00	0	87860
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	1.30	2.30	1.81	-
1969	3.40	2.60	19.0	50.0	80.0	27.0	300	7.10	77.0	15.0	16.0	32.0	629
1970	14.0	7.70	44.0	42.0	22.0	22.0	0	454	85.0	3.80	4.50	9.6	709
1971	9.9	13.0	5.10	27.0	1.70	2210	3.90	48.0	276	53.0	6.00	18.0	2671
1972	11.0	5.00	3.00	1.00	92.0	70.0	18.0	469	551	112	68.0	48.0	1448

BRAZOS RIVER BASIN

08124000 Colorado River at Robert Lee, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	10.0	43.0	51.0	48.0	11.0	.40	374	439	22.0	8.10	5.30	7.20	1019
1974	19.0	11.0	16.0	7.80	23.0	523	529	78.0	1980	919	165	158	4449
1975	132	122	84.0	78.0	126	29.0	62.0	65.0	15.0	23.0	187	31.0	954
MAX	1320	12320	21060	86900	150300	133300	146200	56600	120000	74560	19900	6790	437802
MIN	0	0	0	0	.70	.40	0	0	0	0	0	0	629
MEAN	321	865	1465	10970	27997	17142	16304	10539	14946	9946	1330	1062	112887
NO.	28	28	28	28	28	28	28	28	28	29	30	30	27
DISTR OF MEAN	.3%	.8%	1.3%	9.7%	24.8%	15.2%	14.4%	9.3%	13.2%	8.8%	1.2%	.9%	100%

COLORADO RIVER BASIN

08125500 Oak Creek Reservoir near Blackwell, Texas

LOCATION: Lat 32°03'25", long 100°17'37", Coke County, at the municipal pump station, 1.9 mi (3.1 km) upstream from the dam on Oak Creek, 2.5 mi (4.0 km) southeast of Blackwell, 14 mi (23 km) north of Bronte, and 20 mi (32 km) upstream from the mouth.

DRAINAGE AREA: 244 mi<sup>2</sup> (632 km<sup>2</sup>).

PERIOD OF RECORD: May 1953 to December 1975.

GAGE: Nonrecording gage. Datum of gage is at mean sea level.

EXTREMES: Period of record (1953-75): Maximum contents, 49,100 ac-ft (60.5 hm<sup>3</sup>) Oct. 13, 1957 (elevation, 2,003.80 ft or 610.758 m); minimum contents, 7,060 ac-ft (8.70 hm<sup>3</sup>) Aug. 1, 1953 (elevation, 1,976.2 ft or 602.36 m).

REMARKS: The reservoir is formed by a rolled earthfill dam 3,800 ft (1,160 m) long, with a capacity of 39,360 ac-ft (48.5 hm<sup>3</sup>). The dam was completed in May 1952 and deliberate impoundment began on May 12, 1953. The emergency spillway is an uncontrolled 800-foot wide (240-m) cut through natural ground 1,200 ft (366 m) from the right end of the dam. The service spillway is an uncontrolled cut channel through natural ground 300 ft (91 m) wide located 2,000 ft (610 m) from the right end of the dam. The reservoir and dam are the property of the City of Sweetwater. The dam was built to impound water for municipal and industrial water use by the Cities of Sweetwater, Blackwell, and Bronte. There is a gated outlet at the service spillway that can release water downstream to Oak Creek through a 24-inch (610-millimeter) concrete pipe.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1953	-	-	-	-	8200	7150	7080	13000	11700	12520	12060	11520
1954	11250	10820	10310	15120	18730	18600	17070	15770	14800	14180	14590	14180
1955	13780	14590	14280	13780	19410	19000	19130	18730	18470	18870	18070	17560
1956	17190	16820	16110	15540	21280	19830	18730	17310	16460	18870	18070	18340
1957	17940	18340	18470	21720	40560	37990	38670	36410	35980	39600	39130	38670
1958	38440	38670	38900	38900	39360	37530	35540	34040	34040	32990	32180	31370
1959	30770	30390	29230	28480	28110	29430	30390	29040	27750	28100	27270	27100
1960	26800	26340	25710	25010	23980	25870	24430	23470	22190	22020	21280	20980
1961	20830	20530	19830	18870	17940	18070	17810	16820	17310	17310	17440	17070
1962	16690	16340	15890	15540	14590	13880	14180	13090	15120	15220	14900	14590
1963	14280	14080	13580	13090	14900	14380	13190	12900	12060	11340	11170	10820
1964	10640	10400	9900	10730	10460	10820	9660	12520	14280	13480	13190	12710
1965	12240	11970	11520	11610	21130	23440	21870	20980	22650	22490	22180	22020
1966	21870	21570	21130	24930	27010	31370	29810	28670	28480	27930	27010	26140
1967	25610	24930	24260	23440	22180	25440	25610	24260	24760	23600	23280	22810
1968	22970	22970	24430	25780	28300	27750	29040	29040	27750	26480	26140	25610
1969	25090	24760	24600	24600	31980	34250	31780	30580	31170	30580	30000	30190
1970	30390	30190	30580	30580	30390	29040	26840	25610	24600	23600	22650	22020
1971	21420	20680	19690	19000	17940	19000	17940	20680	24930	26310	25960	26140
1972	25960	25780	24930	23930	25090	24100	22810	23440	23280	23280	23930	23600
1973	23770	24260	25440	27380	27380	26840	25960	24260	23770	22970	22180	21280
1974	20980	20530	20110	19550	18870	17190	15660	17190	24930	35980	40080	40560
1975	40080	40080	39600	38900	38670	37530	36850	36410	35320	34250	34250	33830
MAX	40080	40080	39600	38900	40560	37990	38670	36410	35980	39600	40080	40560
MIN	10640	10400	9900	10730	8200	7150	7080	12520	11700	11340	11170	10820
MEAN	22227	22047	21750	22113	23757	23848	23046	22792	23122	23564	23348	23005
NO.	22	22	22	22	23	23	23	23	23	23	23	23
DISTR												
OF MEAN	8.1%	8.0%	7.9%	8.1%	8.7%	8.7%	8.4%	8.3%	8.4%	8.6%	8.5%	8.4%

COLORADO RIVER BASIN  
08126500 Colorado River at Ballinger, Texas

LOCATION: Lat 31°43'58", long 99°57'13", Runnels County, at the bridge on U.S. Highway 67 in Ballinger, and 1.3 mi (2.1 km) upstream from Elm Creek. Prior to May 2, 1975, at site 0.8 mi (1.3 km) downstream.

DRAINAGE AREA: 16,840 mi<sup>2</sup> (43,620 km<sup>2</sup>), of which 11,600 mi<sup>2</sup> (30,044 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: June 1907 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,593.74 ft (485.772 m) above mean sea level, datum of 1929. Prior to Nov. 29, 1930, nonrecording gages at several sites near the present site at various datums. Nov. 29, 1930 to Atsly I, 1975, water-stage recorder at site 0.8 mi (1.3 km) downstream at same datum.

AVERAGE DISCHARGE: 69 years, 221,634 ac-ft/yr (273.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1907-75): Maximum discharge, 75,400 ft<sup>3</sup>/s (2,140 m<sup>3</sup>/s) Sept. 18, 1936 (gage height, 28.6 ft or 8.72 m); no flow at times.

Maximum stage since at least 1882, about 36 ft (11.0 m) sometimes in 1884, at former site and datum, from information by local residents.

REMARKS: Records good. There are several diversions above the station for irrigation, municipal water supplies, and oilfield operations. The flow is affected by five major upstream reservoirs (combined capacity, 1,056,000 ac-ft or 1,302.0 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1907	-	-	-	-	-	27700	39200	15400	9340	78700	48700	3790	-
1908	517	10.0	1150	90400	73200	1710	43300	3000	12600	1650	1360	1260	229857
1909	186	139	0	0	23400	21800	2070	6580	11800	13000	19700	37900	136575
1910	1590	1390	410	3910	13600	2430	9720	2030	35600	12600	3090	4640	91010
1911	2810	109400	4860	8510	9780	1890	61500	39700	31400	3750	857	55700	330157
1912	1920	10600	3740	5020	51500	35500	8180	15500	4530	44000	3200	3160	186850
1913	670	1000	2950	34000	113000	57700	109000	10100	92200	119000	129000	170000	838620
1914	1760	269	188	29100	170000	57200	10400	100000	4490	30400	12200	4480	420487
1915	4380	1680	2400	114000	22900	17000	4370	44800	51800	12100	1870	1170	278470
1916	738	575	176	12700	4770	547	12.0	438	19700	17400	803	292	58151
1917	236	247	1380	4420	7990	12000	1970	2060	19000	11.1	73.2	22.1	49409
1918	51.0	21.1	43.0	0	13800	45500	67.6	2640	21100	146000	17600	3840	250663
1919	892	317	67600	38400	44900	195000	122000	60700	60700	116000	11800	3170	721179
1920	3080	2250	1190	395	81800	10900	682	197000	59000	11000	7680	1820	376797
1921	1840	1000	1910	1460	3980	57100	396	0	4550	0	0	61.0	72297
1922	30.0	28.0	1150	259000	232000	59500	7380	555	631	123	4660	644	565701
1923	4300	2740	957	189000	25100	26700	11000	6840	14600	41400	28100	4110	355047
1924	1790	1250	1230	31500	74100	8920	62.3	4360	17300	26500	350	1850	169212
1925	254	308	285	82300	77800	35600	3410	34800	118000	17500	1610	647	372714
1926	817	321	41200	67900	20700	56800	11800	45400	122000	51500	2620	21500	442558
1927	1700	3220	4230	16800	4800	9490	22700	10200	36700	12000	302	284	122426
1928	652	353	279	720	164000	25600	186000	40600	10200	732	4060	947	434143
1929	805	744	10500	3920	110000	5370	13600	249	38600	31200	839	433	216460
1930	213	275	1910	20500	107000	125000	1520	13800	442	62700	2990	31200	367550
1931	1080	11200	1970	2010	3130	1240	3460	1110	2120	82400	25600	2720	138240
1932	2710	10000	2070	37700	148000	85100	28200	34700	245000	11600	4150	15600	624830
1933	6100	2980	4320	1540	14600	1100	2940	22400	8390	14800	5430	1030	85630
1934	978	454	3630	16700	5100	2590	555	3310	3680	225	13340	400	50962
1935	53.0	16150	1120	30990	238100	192000	67670	19290	234100	5530	4400	3220	812623
1936	1160	776	7600	1230	21230	5780	5320	205	405000	21560	5830	4360	480051
1937	3030	2230	2680	1780	15250	28240	3810	26030	6090	1360	1060	1110	92870
1938	9420	30600	9400	33670	15590	71520	94280	5460	502	1380	598	394	272814
1939	14810	686	10720	3800	60290	164900	12780	41420	684	2540	1010	599	314239
1940	444	918	691	13700	12900	73980	13090	26720	9280	3590	3610	1360	160283
1941	524	5270	24750	109900	179500	115500	37860	26370	10120	108500	10050	7660	636004
1942	3180	1920	1620	7650	23040	2400	170	60570	36950	22750	3870	4630	168750
1943	2760	1250	3090	1340	12790	8760	7570	16.0	346	53.0	133	128	38236
1944	337	3630	3940	106	46970	10560	49350	11680	11300	18530	1030	1370	158803
1945	1490	785	1660	10390	515	9170	164800	15920	6120	32790	1080	1010	245730
1946	1390	758	447	516	23420	2960	508	6660	52700	28190	3450	19880	140879
1947	1350	474	718	10320	183400	20290	3080	1200	6510	29610	2460	9500	268912
1948	671	13750	4950	1330	16250	28810	167900	6180	6710	9360	1940	546	258397
1949	532	1370	982	39230	116000	35590	3200	3800	13290	6350	640	656	221940
1950	522	268	78.0	12970	43800	9540	10150	8730	29680	1010	32.0	35.0	116815
1951	26.0	41.0	76.0	68.0	18800	31430	11700	22130	1150	34.0	28.0	21.0	85504
1952	20.0	17.0	8.30	6750	2370	9710	0	0	3910	96.0	587	202	23670
1953	26.0	2.80	2370	232	21220	.40	7840	75240	4480	36350	2760	111	150632
1954	167	48.0	0	85190	122500	16160	3200	.40	0	0	44.0	0	227309
1955	0	1040	276	749	90760	9950	10390	4540	10040	12770	39.0	22.0	140576
1956	38.0	61.0	0	4210	30320	2280	3170	94.0	177	33600	2780	5010	81740

BRAZOS RIVER BASIN  
 08126500 Colorado River at Ballinger, Texas—Continued

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1957	78.0	5640	3660	57820	311600	142300	5140	3770	17010	129000	7080	1800	685098
1958	1900	2320	2450	8130	11490	4710	415	2550	7960	2080	763	383	45151
1959	192	192	56.0	102	2830	16900	21960	145	258	32780	4140	1370	80925
1960	2210	722	496	2150	2320	4670	6200	1210	92.0	41580	2880	1160	65710
1961	3530	1380	330	48.0	28060	25920	40820	2700	23130	3160	4680	1740	135498
1962	869	523	654	413	217	7670	4390	762	103400	4410	1760	1050	126118
1963	662	404	61.0	142	24110	7540	158	1960	226	376	3940	343	39922
1964	245	820	184	1390	7380	8070	.20	8600	12260	539	2480	170	42138
1965	145	501	168	2590	92670	28030	1430	2730	11740	11170	3060	809	155043
1966	750	560	414	24540	40670	22300	262	18410	16140	3020	448	385	127899
1967	376	266	1690	85.0	5930	22320	10190	1070	9370	1100	635	449	53481
1968	2830	1950	5050	9470	40370	7150	3210	1120	387	171	627	609	72944
1969	498	506	853	3930	23180	4630	306	403	3380	2070	1330	2960	44046
1970	1780	1450	3740	1720	2350	1700	119	119	2280	283	224	333	16098
1971	273	167	79.0	1230	66.0	4150	628	19200	11140	4020	1680	1940	44573
1972	1490	1280	593	319	4470	465	320	2470	1970	2450	3100	1460	20407
1973	1980	1830	2380	6020	1640	3630	2050	507	3370	1010	485	493	25395
1974	599	429	343	375	1960	67.0	.30	1260	35940	24830	13290	4530	83623
1975	4980	6520	3740	2210	11330	1540	1570	748	334	733	3970	897	38572
MAX	14810	109400	67600	259000	311600	195000	186000	197000	405000	146000	129000	170000	838620
MIN	0	2.80	0	0	66.0	.40	0	0	0	0	0	0	16098
MEAN	1614	4004	3915	23099	51891	31166	21486	16666	31383	23174	6607	6629	221634
NO.	68	68	68	68	68	69	69	69	69	69	69	69	68
DISTR OF MEAN	.7%	1.8%	1.8%	10.4%	23.4%	14.1%	9.7%	7.5%	14.2%	10.5%	3.0%	3.0%	100%

COLORADO RIVER BASIN

08127000 Elm Creek at Ballinger, Texas

LOCATION: Lat 31°44'57", long 99°56'51", Runnels County, 1,000 ft (305 m) upstream from the storage dam at Ballinger, and 1.2 mi (1.9 km) upstream from the mouth.

DRAINAGE AREA: 471 mi<sup>2</sup> (1,220 km<sup>2</sup>).

PERIOD OF RECORD: April 1932 to December 1975.

GAGE: Water-stage recorder and masonry dam control. Datum of gage is 1,617.72 ft (493.031 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 44 years, 36,662 ac-ft/yr (45.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1932-75): Maximum discharge, 50,000 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s) Oct. 13, 1957 [gage height, 14.20 ft or 4.328 m, from floodmark]; no flow at times.

Flood in August 1906 reached a stage of 14.5 ft (4.42 m) affected by backwater from the Colorado River; highest stage not affected by backwater from the Colorado River since at least 1904 was that of Oct. 13, 1957, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	-	-	-	66.0	30300	21700	38300	799	18900	306	393	1780	-
1933	806	343	311	82.0	11600	151	0	7.10	0	63.0	0	0	13363
1934	0	0	1770	7140	10.0	0	0	81.8	643	0	0	0	10381
1935	0	4670	0	17240	50540	36000	5710	669	74280	686	222	167	190184
1936	32.0	27.0	20.0	156	2360	13.0	2360	0	23650	1920	348	390	31476
1937	276	196	478	69.0	80	5000	552	2700	73.0	0	0	0	9345
1938	126	380	796	7040	8250	229	3900	180	0	0	0	0	20346
1939	0	0	576	0	22110	31140	422	12620	0	0	0	0	66668
1940	0	1370	0	5070	9580	5530	39.0	6700	971	0	1030	20	30290
1941	0	1810	1330	17010	30730	29280	437	1520	390	17690	1680	797	102674
1942	503	284	62.0	13070	12960	816	800	555	977	13150	353	478	44008
1943	134	36.0	677	60.0	749	0	606	0	0	0	0	0	2262
1944	0	1320	174	0	4210	34.0	895	3660	1010	6940	24.0	23.0	18268
1945	13.0	22.0	91.0	4040	635	4140	11220	0	0	8.90	0	0	20170
1946	0	0	0	0	28190	1390	60.0	56.0	4500	0	1030	57.0	35283
1947	11.0	0	9.9	0	2840	2510	0	0	0	9070	87.0	3510	18038
1948	421	17.0	1.20	964	350	973	1280	229	5.20	1100	0	0	5340
1949	0	0	0	1050	8300	1380	487	0	36.0	875	4.20	54.0	12186
1950	2.0	0	0	0	327	60	12.0	22.0	4950	0	0	0	5312
1951	0	0	0	0	17320	8950	0	2280	10.0	0	0	0	28560
1952	0	0	0	1100	2130	1830	0	0	8560	0	29.0	0	14049
1953	0	0	53.0	0	7650	0	1860	8070	183	3270	39.0	0	21125
1954	0	0	0	32000	30570	892	0	0	0	0	0	0	63462
1955	0	0	0	0	27680	2490	629	819	10440	3990	0	0	46048
1956	0	0	0	2410	47950	80	0	0	0	525	449	0	51335
1957	0	0	0	5760	46030	14600	92.0	0	534	48220	1780	432	117448
1958	333	741	804	411	2590	1080	16.0	321	505	74.0	88.0	50.0	7013
1959	108	206	14.0	37.0	176	6650	4100	168	0	3220	605	583	15867
1960	3000	584	726	3490	1270	42.0	231	542	0	122	71.0	146	10224
1961	286	149	101	11.0	101	11900	1320	4.00	10740	443	1370	703	27128
1962	430	187	150	446	70.0	1350	5170	195	650	5000	252	404	14304
1963	182	115	85.0	83.0	6690	1670	0	0	0	0	110	15.0	8950
1964	22.0	444	56.0	1290	46.0	34.0	0	8400	2210	54.0	111	60.0	12727
1965	49.0	59.0	29.0	26.0	30860	4710	112	0	1310	391	988	362	38896
1966	1720	1020	764	6340	14170	2490	6.70	2400	2630	469	1100	1160	34270
1967	1230	738	387	42.0	1060	1520	1020	0	383	42.0	63.0	126	6611
1968	4830	1350	4340	8390	11290	226	4860	421	75.0	34.0	413	770	36999
1969	465	313	616	1980	38810	7000	37.0	653	9610	2420	2160	5110	69174
1970	3200	2060	9020	5070	6180	4460	350	73.0	242	188	202	284	31329
1971	281	234	127	781	2720	12860	250	12980	17240	9890	2600	3480	63443
1972	2080	1600	844	415	2780	946	586	155	555	3510	2250	1280	17001
1973	1990	1860	2170	6090	697	9520	2210	610	1440	1860	779	703	29929
1974	649	494	725	179	384	4.00	0	3660	28240	21800	15080	3720	74935
1975	3170	8250	2540	1560	2420	2150	449	83.0	34.0	162	665	457	21940
MAX	4830	8250	9020	32000	50540	36000	38300	12980	74280	48220	15080	5110	190184
MIN	0	0	0	0	80	0	0	0	0	0	0	0	2262
MEAN	613	709	694	3431	11947	5401	2054	1641	5150	3578	828	616	36662
NO.	43	43	43	44	44	44	44	44	44	44	44	44	43
DISTR OF MEAN	1.71	1.91	1.91	9.41	32.61	14.71	5.61	4.51	14.01	9.81	2.31	1.71	1001

COLORADO RIVER BASIN

08127500 South Concho Irrigation Co.'s Canal at Christoval, Texas

LOCATION: Lat 31°11'17", long 100°29'59", Tom Green County, at Christoval, 85 ft (26 m) downstream from the point of diversion, and 100 ft (30 m) downstream from the bridge on U.S. Highway 277.

PERIOD OF RECORD: December 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,017.02 ft (614.788 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 37 years, 5,020 ac-ft/yr (6.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum daily diversion for irrigation (excluding floodflow), 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/s) June 27, 28, 1941, Sept. 18, 21, 1942; no flow Apr. 26 to July 9, 1957, Mar. 18 to Apr. 10, 1958, and Oct. 19 to Nov. 2, 1966.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	-	-	-	5.43	-
1940	484	454	604	857	811	738	865	974	912	922	839	861	9321
1941	883	444	497	576	778	879	1160	1120	475	408	357	275	7852
1942	510	710	1050	847	827	944	1080	1000	907	640	457	822	9794
1943	789	716	663	864	1150	906	976	1040	1030	1050	996	843	11023
1944	596	531	533	484	700	724	803	966	1040	793	635	566	8371
1945	567	473	484	730	797	698	904	819	706	791	833	861	8663
1946	863	704	686	656	686	633	841	746	774	819	548	338	8294
1947	274	518	439	449	547	642	716	689	608	622	633	575	6712
1948	397	346	469	537	441	519	672	580	526	659	593	599	6338
1949	533	428	508	466	510	572	617	660	606	537	595	605	6637
1950	562	406	461	496	477	492	451	515	441	456	504	540	5801
1951	502	454	415	367	290	437	376	360	427	390	407	414	4839
1952	441	396	343	248	330	325	346	273	266	63.0	40.0	41.0	3112
1953	41.0	26.0	27.0	26.0	20.0	24.0	47.0	71.0	551	471	372	456	2132
1954	441	364	291	221	215	216	209	246	169	177	216	257	3022
1955	324	330	269	290	353	412	499	276	347	423	361	367	4251
1956	326	297	152	177	278	316	259	276	222	214	295	325	3137
1957	344	243	125	194	0	0	182	257	271	304	256	137	2313
1958	68.0	31.0	27.0	359	519	272	420	237	310	359	301	264	3167
1959	210	193	411	300	302	275	186	288	151	519	529	432	3796
1960	336	201	163	267	192	186	322	386	274	343	290	259	3219
1961	284	312	279	174	170	241	341	219	218	455	558	293	3544
1962	598	473	326	293	363	275	302	232	199	208	279	375	3923
1963	413	300	217	179	200	219	159	220	196	190	259	344	2896
1964	330	339	332	235	115	75.0	62.0	39.0	144	487	506	516	3180
1965	540	494	540	452	408	466	243	287	224	289	406	357	4701
1966	360	327	315	264	345	173	145	150	206	105	197	263	2850
1967	314	320	355	275	167	339	168	120	477	633	337	65.0	3570
1968	52.0	89.0	619	269	495	449	488	300	407	421	352	489	4430
1969	424	272	334	390	419	301	183	205	445	440	321	341	4075
1970	419	394	459	484	436	359	391	356	334	360	307	361	4660
1971	374	297	296	39.0	36.0	27.0	30.0	249	885	887	837	770	4727
1972	738	698	591	383	369	376	278	205	200	220	183	364	4605
1973	448	351	186	330	301	281	298	313	248	142	296	355	3549
1974	326	323	348	378	268	328	473	326	252	255	121	170	3568
1975	299	221	375	430	422	529	470	443	407	377	246	342	4561
MAX	883	716	1050	864	1150	944	1160	1120	1040	1050	996	861	11023
MIN	41.0	26.0	27.0	26.0	0	0	30.0	39.0	144	63.0	40.0	41.0	2132
MEAN	428	374	394	389	409	407	443	429	446	456	424	427	5020
NO.	36	36	36	36	36	36	36	36	36	36	36	37	36
DISTR													
OF MEAN	8.5%	7.5%	7.9%	7.7%	8.2%	8.1%	8.8%	8.5%	8.8%	9.1%	8.4%	8.5%	100%

COLORADO RIVER BASIN

08128000 South Concho River at Christoval, Texas

LOCATION: Lat 31°11'15", long 100°30'06", Torn Green County, at the center pier of the Panhandle and Santa Fe Railway Co. bridge at Christoval, and 9.5 mi (15.3 km) upstream from Twin Buttes Dam.

DRAINAGE AREA: 409 mi<sup>2</sup> (1,059 km<sup>2</sup>), of which 65 mi<sup>2</sup> (168 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1930 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 2,010.22 ft (612.716 m) above mean sea level, datum of 1929. Prior to July 17, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 46 years, 23,828 ac-ft/yr (29.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1930-75): Maximum discharge, 100,000 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s) July 23, 1938 (gage height, 21.95 ft or 6.690 m, floodmarks); no flow Feb. 28 and Mar. 1, 1955.

Maximum stage since 1882, about 23 ft (7.0 m) Aug. 6, 1906 (discharge, 115,000 ft<sup>3</sup>/s or 3,260 m<sup>3</sup>/s), from information by local residents.

REMARKS: Records good. The low flow is materially affected by diversion to the South Concho Irrigation Co.'s canal (station 08127500) located 600 ft (180 m) upstream from the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1930	-	-	326	1430	579	9800	449	292	242	52320	3360	2610	-
1931	2440	4270	2590	1730	1430	1020	1220	1380	613	611	594	781	18679
1932	1160	840	984	714	9100	1520	5160	984	3280	2830	2510	2130	26212
1933	1970	1670	1710	1120	1090	672	592	615	476	474	637	484	11510
1934	523	605	762	1860	584	184	143	1830	336	285	352	301	7765
1935	268	537	346	563	7750	5550	527	1330	9330	1920	1370	1210	30701
1936	1190	1090	1110	924	514	293	406	220	140000	3220	1970	2050	152989
1937	2250	1830	1940	1370	5770	956	891	707	942	920	797	4580	22953
1938	1440	1530	1540	958	1230	532	88830	3340	2860	1820	1300	1510	106890
1939	1670	1740	1580	1510	1310	1050	1110	902	642	695	918	1160	14287
1940	1170	1160	1210	1400	938	2800	1610	1250	669	740	740	799	14686
1941	803	1010	1540	1750	4390	2350	1590	1150	1690	3820	2260	2250	24803
1942	1930	1430	1210	1500	1440	891	618	4710	4110	2660	2420	1850	24769
1943	1560	1260	1480	1100	954	891	635	530	501	574	612	763	10887
1944	1070	1120	1190	1070	764	714	566	380	439	725	810	887	9735
1945	845	768	868	768	586	298	6250	692	496	1280	881	710	14442
1946	560	517	580	486	411	2660	630	337	3380	750	1360	1090	12761
1947	1360	897	847	859	690	1810	756	426	272	276	285	277	8755
1948	487	450	332	356	1040	321	777	259	669	572	392	308	5983
1949	406	420	2370	2890	2970	1320	571	356	1020	7160	1510	1060	22053
1950	936	809	742	444	445	385	341	392	371	361	268	262	5756
1951	269	288	390	404	464	218	239	2240	148	240	192	207	5299
1952	197	144	213	374	316	234	67.0	66.0	75.0	239	305	371	2601
1953	406	417	815	422	372	204	1040	1200	929	1190	324	244	7563
1954	137	116	238	171	174	64.0	69.0	75.0	51.0	33.0	31.0	35.0	1194
1955	25.0	20.0	24.0	65.0	853	1590	5830	580	399	200	137	144	9867
1956	91.0	135	174	1930	402	273	99.0	209	53.0	55.0	42.0	35.0	3497
1957	57.0	118	1910	28520	68590	3370	1870	895	673	3320	1020	1010	111353
1958	996	1880	2070	1340	964	11230	1780	1130	3630	1760	1510	1290	29580
1959	1010	881	700	744	733	727	802	544	558	22960	1260	1210	32129
1960	2190	2290	2150	1450	1300	978	1470	1080	633	1480	910	1000	17131
1961	982	869	1130	1010	1040	7630	2060	1610	2500	10730	1540	1560	32681
1962	1210	1020	1360	1360	1160	859	958	797	685	873	709	744	11935
1963	716	738	914	740	935	774	602	493	482	414	412	471	7691
1964	444	404	492	529	453	366	245	381	8680	668	514	735	13911
1965	711	530	690	493	1830	575	290	258	251	222	204	191	6245
1966	185	177	204	241	369	223	178	237	495	518	248	139	3214
1967	124	83.0	94.0	109	1190	91.0	71.0	102	1630	208	398	676	4776
1968	831	927	398	787	383	235	177	139	133	133	313	463	4919
1969	352	262	304	610	515	292	208	322	511	409	536	707	5028
1970	841	570	757	841	576	528	366	418	424	390	354	378	6443
1971	288	205	274	830	4630	730	666	9940	2660	2290	2170	1760	26443
1972	1580	1200	1310	1340	1260	1000	944	994	1180	1310	1380	1130	14628
1973	1040	942	1350	1260	1080	819	722	647	932	9290	2260	1860	22202
1974	1600	1270	1400	1130	1320	1010	662	6410	5790	14320	8690	7780	51382
1975	6160	5080	5110	4170	4430	3260	2910	2680	2490	2600	2840	2670	44400
MAX	6160	5080	5110	28520	68590	11230	88830	9940	140000	52320	8690	7780	152989
MIN	25.0	20.0	24.0	65.0	174	64.0	67.0	66.0	51.0	33.0	31.0	35.0	1194
MEAN	1033	990	1081	1645	2920	1593	3000	1207	4547	3475	1166	1171	23828
NC.	45	45	46	46	46	46	46	46	46	46	46	46	45
DISTR OF MEAN	4.3%	4.2%	4.5%	6.9%	12.3%	6.7%	12.6%	5.1%	19.1%	14.6%	4.9%	4.9%	100%



COLORADO RIVER BASIN  
08128400 Middle Concho River above Tankersley, Texas

LOCATION: Lat 31°25'38", long 100°42'39", Iron County, 0.3 mi (0.5 km) upstream from East Rocky Creek, 0.5 mi (0.8 km) southwest of the Tullos Ranch headquarters, and 6.7 mi (10.8 km) northwest of Tankersley.

DRAINAGE AREA: 2,436 mi<sup>2</sup> (6,309 km<sup>2</sup>), of which 1,055 mi<sup>2</sup> (2,732 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,986.47 ft (605.476 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 13,116 ac-ft/yr (116.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 15,500 ft<sup>3</sup>/s (439 m<sup>3</sup>/s) Sept. 21, 1974 (gage height, 24.98 ft or 7.614 m); no flow at times.

Maximum stage since 1900, 29.5 ft (8.99 m) Sept. 26, 1936.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	0	0	2010	0	0	2940	0	0	0	-
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	238	0	0	0	0	0	0	0	238
1964	0	0	0	0	0	0	0	845	9630	7.50	521	12.0	11216
1965	0	0	0	0	8250	35.0	0	0	0	0	0	0	8285
1966	0	0	0	5980	6580	20	0	1290	4650	3150	14.0	2.90	21867
1967	3.10	0	0	0	0	553	0	11.0	5.50	0	0	0	573
1968	3.80	9.7	11.0	44.0	17.0	26.0	134	0	0	0	0	0	246
1969	0	0	0	0	6350	6.00	0	739	118	2.90	99.0	275	7590
1970	332	303	670	748	501	134	6440	0	0	19.0	80.0	117	2910
1971	118	115	74.0	211	24.0	70	0	1720	2360	557	481	468	6129
1972	401	375	340	175	134	109	308	0	1260	134	272	242	3750
1973	188	224	222	207	120	30.0	161	2.50	0	1.50	30.0	98.0	1284
1974	129	77.0	59.0	24.0	49.0	1470	0	7080	70260	22320	6350	3650	111468
1975	2720	2170	1740	1210	3310	677	341	473	245	382	1380	829	15477
MAX	2720	2170	1740	5980	8250	2010	341	7080	70260	22320	6350	3650	111468
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	276	234	223	573	1705	337	63.4	811	6125	1772	615	380	13116
NO.	14	14	14	15	15	15	15	15	15	15	15	15	14
DISTR OF MEAN	2.1%	1.8%	1.7%	4.4%	13.0%	2.6%	.5%	6.2%	46.7%	13.5%	4.7%	2.9%	100%

COLORADO RIVER BASIN

08128500 Middle Concho River near Tankersley, Texas

LOCATION: Lat 31°22'35", long 100°36'50", Tom Green County, 220 ft (67.0 m) upstream from the bridge on U.S. Highway 67, 3 mi (4.8 km) northeast of Tankersley, and 9.5 mi (15.3 km) upstream from Spring Creek.

DRAINAGE AREA: 2,509 mi<sup>2</sup> (6,498.3 km<sup>2</sup>), of which 1,065 mi<sup>2</sup> (2,768.4 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1930 to March 1961.

GAGE: Water-stage recorder. Datum of gage is 1,919.51 ft (585.1 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 32 years, 29,379 ac-ft/yr (36.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1930-61): Maximum discharge, 27,500 ft<sup>3</sup>/s (778.8 m<sup>3</sup>/s) September 26, 1946 (gage height, 24.30 ft or 7.4 m, from floodmark); no flow at times.

Maximum stage since at least 1800, 27.2 ft (8.3 m) in April 1922, from information by the State Highway Department.

REMARKS: Records fair. The low flow is affected by small diversions for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1930	-	-	0	212	1090	23.0	0	0	0	13200	46.0	272	-
1931	15.0	9.4	0	594	20.0	0	306	0	0	0	0	0	944
1932	0	0	0	797	47000	3140	7130	181	11700	1440	952	1370	73710
1933	1400	1120	1070	720	397	18.0	0	0	0	0	0	0	4725
1934	0	0	0	146	0	154	0	1860	0	0	1880	0	4040
1935	0	5320	0	2530	20940	9300	2260	490	1420	0	0	.40	42260
1936	46.0	22.0	.20	0	10950	336	114	0	103300	3420	1280	1080	120548
1937	793	658	950	506	6060	11200	23.0	451	17.0	0	0	0	20658
1938	999	285	103	7980	174	21.0	2100	20.0	0	0	0	0	11682
1939	0	0	0	986	5430	542	1480	1820	0	0	0	0	10258
1940	0	0	0	0	183	5930	177	432	0	0	0	0	6722
1941	0	409	2670	5230	24580	44240	5010	6010	2040	7540	3500	2600	103829
1942	2270	1700	1630	1540	1230	324	70.0	5640	1150	591	678	934	17757
1943	944	722	861	594	2200	218	0	0	0	0	0	0	5539
1944	0	5.80	0	0	516	1940	0	0	11860	142	0	0	14464
1945	8.10	52.0	93.0	699	67.0	0	7180	453	151	7.90	0	0	8711
1946	0	0	0	13.0	0	0	0	1120	16680	4900	562	4680	27955
1947	206	88.0	99.0	19.0	3460	3070	96.0	96.0	0	0	0	1070	8204
1948	0	1200	87.0	0	3440	1500	25670	0	7530	3.60	0	0	39431
1949	0	0	0	43190	4800	4320	.20	0	57.0	20.0	0	0	52387
1950	0	0	0	0	67.0	1880	116	3110	9510	22.0	0	0	14705
1951	0	0	0	0	0	52.0	0	4330	0	0	0	0	4382
1952	0	0	0	0	2450	19.0	0	0	0	0	0	0	2469
1953	0	0	4690	0	7770	0	396	9250	1620	8510	260	0	32496
1954	0	0	0	21280	13050	4050	353	0	0	0	0	0	38733
1955	0	1050	0	0	988	508	3910	10770	843	682	0	0	18751
1956	0	0	0	2720	4280	0	3060	0	848	13150	13.0	0	24071
1957	0	0	0	26600	54820	6760	1230	0	0	36590	145	28.0	126173
1958	60.0	117	101	664	404	2830	6.50	0	1180	3.60	0	0	5366
1959	0	0	0	0	893	4390	6250	0	12400	28740	487	2.94	53454
1960	392	235	203	134	62.0	0	0	0	0	420	.80	0	1447
1961	0	474	0	-	-	-	-	-	-	-	-	-	-
MAX	2270	5320	4690	43190	54820	44240	25670	10770	103300	36590	3500	4680	126173
MIN	0	0	0	0	0	0	0	0	0	0	0	0	944
MEAN	230	434	392	3779	7010	3444	2159	1485	5881	3851	316	398	29379
NO.	31	31	32	31	31	31	31	31	31	31	31	31	30
DISTR OF MEAN	.8x	1.5x	1.3x	12.9x	23.9x	11.7x	7.3x	5.1x	20.0x	13.1x	1.1x	1.4x	100x

COLORADO RIVER BASIN  
08129300 Spring Creek above Tankersley, Texas

LOCATION: Lat 31°19'48", long 100°38'24", Tom Green County, at the bridge on Farm Road 2335, 1.4 mi (2.3 km) south of Tankersley, and 2.5 mi (4.0 km) upstream from Dove Creek.

DRAINAGE AREA: 424 mi<sup>2</sup> (1,098 km<sup>2</sup>), of which 28 mi<sup>2</sup> (73 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1960 to December 1976.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,064.72 ft (688.847 m) above mean sea level, datum of 1928. Prior to Nov. 10, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 16 years, 10,340 ac-ft/yr (12.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1960-76): Maximum discharge, 30,400 ft<sup>3</sup>/s (861 m<sup>3</sup>/s) Aug. 12, 1971 (gage height, 16.57 ft or 5.051 m); no flow at times most years.

Maximum stages since at least 1853 occurred in 1882 and 1884 (stages unknown) and Oct. 3, 1959 (18.4 ft or 5.61 m).

REMARKS: Records good. There are many small diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	-	22.0	92.0	481	-
1961	800	656	328	84.0	160	2880	719	36.0	591	350	531	577	7712
1962	431	341	382	242	12.0	2.00	2.80	0	11.0	0	0	0	1424
1963	0	0	17.0	14.0	15.0	13.0	4.60	0	0	0	0	0	63.6
1964	0	0	5.80	17.0	11.0	1.40	0	14.0	1460	15.0	15.0	9.5	1549
1965	8.70	151	154	38.0	109	59.0	20.0	4.40	0	0	0	0	544
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	2950	1750	10.0	0	809	39.0	140	346	6044
1968	344	358	397	441	102	51.0	35.0	15.0	1.70	0	0	0	1745
1969	0	0	73.0	224	181	9.4	2.80	2.40	3.10	.50	0	17.0	513
1970	206	113	196	136	86.0	22.0	6.00	0	0	0	0	0	765
1971	0	0	0	5440	2750	270	17.0	51650	2610	1970	1370	1290	67367
1972	914	972	775	346	560	652	78.0	466	709	802	837	789	7900
1973	879	1010	910	652	284	308	55.0	68.0	441	512	434	407	5960
1974	589	502	402	64.0	345	97.0	4.00	11.0	7500	12270	3440	2910	28134
1975	2290	2160	1980	1810	9380	1570	1270	827	1170	1100	1740	1600	26897
MAX	2290	2160	1980	5440	9380	2880	1270	51650	7500	12270	3440	2910	67367
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	431	418	375	634	1130	512	148	3540	1020	1068	537	527	10340
NO.	15	15	15	15	15	15	15	15	15	16	16	16	15
DISTR OF MEAN	4.2%	4.0%	3.6%	6.1%	10.9%	5.0%	1.4%	34.2%	9.9%	10.3%	5.2%	5.1%	100%

COLORADO RIVER BASIN

08130500 Dove Creek at Knickerbocker, Texas

LOCATION: Lat 31°16'24", long 100°37'45", Tom Green County, at the bridge on Farm Road 2335, 0.4 mi (0.6 km) west of Knickerbocker, and 5.4 mi (8.7 km) upstream from the mouth.

DRAINAGE AREA: 229 mi<sup>2</sup> (593 km<sup>2</sup>), of which 31 mi<sup>2</sup> (80.3 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1944 to February 1949 (published as "near Knickerbocker"), October 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,001.45 ft (610.042 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 22 years, 9,187 ac-ft/yr (11.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1944-49, 1960-75): Maximum discharge, 17,500 ft<sup>3</sup>/s (496 m<sup>3</sup>/s) Aug. 12, 1971 (gage height, 20.66 ft or 6.297 m); no flow at times.

Maximum stage since at least 1882, 30.4 ft (9.27 m) in 1906 and Oct. 3, 1959.

REMARKS: Records good. The flow is partly regulated by storage and diversion from two small channel dams upstream and by many small diversions upstream for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1944	-	-	-	-	-	-	-	-	-	-	-	133	-
1945	201	270	153	37.0	11.0	18.0	-	134	101	223	329	173	-
1946	284	257	94.0	57.0	-	5.40	17.0	38.0	-	59.0	44.0	79.0	-
1947	87.0	92.0	119	133	304	63.0	132	231	51.0	119	89.0	1.60	1422
1948	224	221	231	-	-	243	-	231	-	-	260	223	-
1949	248	357	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	327	276	555	-
1961	750	625	370	168	381	6480	964	495	832	1200	851	642	13758
1962	566	342	485	479	255	134	197	150	257	237	303	440	3845
1963	349	362	303	309	434	290	48.0	68.0	217	84.0	121	193	2778
1964	212	180	164	84.0	50.0	37.0	0	0	6.70	32.0	480	92.0	1338
1965	72.0	110	96.0	70.0	1140	139	50.0	60	0	14.0	64.0	65.0	1823
1966	63.0	56.0	81.0	21.0	1060	33.0	11.0	1150	792	332	79.0	78.0	3756
1967	78.0	46.0	46.0	53.0	4460	792	152	56.0	1790	497	417	325	8712
1968	298	280	325	365	276	111	117	36.0	70.0	88.0	125	278	2369
1969	198	112	107	1680	385	72.0	26.0	102	486	2650	402	551	6771
1970	577	501	441	417	283	159	51.0	30.0	20.0	32.0	54.0	85.0	2650
1971	136	85.0	65.0	6340	2030	410	110	22150	1940	1910	1450	1320	37946
1972	1200	724	694	459	673	996	248	318	543	620	942	934	8351
1973	742	661	634	586	455	425	324	363	572	767	1060	849	7438
1974	667	488	443	361	464	231	852	1890	4390	7740	4620	3770	25916
1975	3760	3000	2950	2330	8090	2740	2350	1870	1620	2040	3700	2430	37080
MAX	3760	3000	2950	6340	8090	6480	2350	22150	4390	7740	4620	3770	37946
MIN	63.0	46.0	46.0	21.0	11.0	5.40	0	0	0	14.0	44.0	1.60	1338
MEAN	536	438	411	775	1221	704	332	1543	817	998	783	629	9187
NO.	20	20	19	18	17	19	17	19	17	19	20	21	16
DISTR OF MEAN	5.8%	4.8%	4.5%	8.4%	13.3%	7.7%	3.6%	16.8%	8.9%	10.9%	8.5%	6.9%	100%

COLORADO RIVER BASIN

08131000 Spring Creek near Tankersley, Texas

LOCATION: Lat 31°21'30", long 100°32'05", Tom Green County, 2.8 mi (4.5 km) upstream from the mouth, and 6.5 mi (10.4 km) east of Tankersley.

DRAINAGE AREA: 734 mi<sup>2</sup> (1,901.1 km<sup>2</sup>).

PERIOD OF RECORD: March 1930 to September 1960.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,874.61 ft (571.4 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 31 years, 27,265 ac-ft/yr (33.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1930-60): Maximum discharge, 82,100 ft<sup>3</sup>/s (2,325.1 m<sup>3</sup>/s) October 3, 1959; no flow at times.

Maximum stage known since 1853, about 26 ft (7.9 m) in 1882, from information by local residents.

REMARKS: Records fair. There are many small diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1930	-	-	112	1090	842	260	60	0	0	15200	2050	2050	-
1931	1470	1990	898	1010	879	357	125	36.0	60.0	1.20	140	885	7846
1932	1380	828	726	4460	24400	2420	14800	879	8330	4460	3490	3740	69913
1933	3490	2420	1790	1100	1190	132	19.0	3.10	1.80	279	1430	1040	12895
1934	1380	1460	793	2050	172	217	5.50	0	0	0	169	404	6651
1935	282	944	319	729	9570	9620	2740	526	8000	1570	1860	1420	37580
1936	1020	454	259	56.0	1320	1020	569	13.0	37900	3800	2370	2230	51011
1937	1790	1440	846	252	809	2840	56.0	15.0	2.20	158	293	2430	10931
1938	8390	2250	862	3040	632	755	13130	1030	299	196	471	670	31725
1939	1430	1010	331	1030	9040	810	1010	1640	28.0	22.0	215	1200	17766
1940	936	1170	344	3450	678	3130	956	1330	1520	761	1550	1360	17185
1941	1560	1500	6860	3290	9930	8450	2870	2840	2780	8520	4100	3720	56420
1942	3360	2170	2010	2710	1570	985	120	30900	7030	4190	3620	3490	62155
1943	3280	2000	1340	1180	1510	1060	491	216	957	1660	912	1650	16256
1944	2080	2030	1710	103	1050	1850	180	32.0	4310	1550	586	976	16457
1945	1580	987	649	1090	143	16.0	10110	142	194	1340	515	497	17263
1946	890	660	322	648	249	12.0	0	0	10440	737	71.0	2120	16149
1947	908	430	236	61.0	658	102	5.60	0	0	0	0	0	2401
1948	0	105	103	711	3330	95.0	6370	9.3	4680	1630	101	85.0	17219
1949	156	1250	1010	17210	4910	2370	93.0	59.0	234	4310	791	240	32633
1950	1170	457	82.0	52.0	44.0	435	19.0	91.0	941	169	26.0	31.0	3517
1951	44.0	88.0	70.0	10.0	12.0	26.0	2.20	539	27.0	0	0	0	816
1952	0	0	0	0	1980	22.0	0	0	0	0	0	0	2002
1953	0	0	7400	9.7	963	0	9.7	4200	643	736	86.0	16.0	14063
1954	20.0	19.0	15.0	1460	543	8570	140	0	0	0	0	0	10767
1955	0	0	0	0	1780	191	13780	2250	59.0	1020	2.40	0	19082
1956	0	0	0	5610	742	102	0	0	0	0	0	0	6454
1957	0	0	59.0	27180	83380	8470	171	6.00	0	3400	948	611	124225
1958	773	884	928	449	1050	13060	272	1740	3670	1750	1230	928	26734
1959	406	275	135	277	69.0	74.0	2260	109	8710	81140	2550	2010	98015
1960	2380	2060	1730	901	879	335	93.0	78.0	60	-	-	-	-
MAX	8390	2420	7400	27180	83380	13060	14800	30900	37900	81140	4100	3740	124225
MIN	0	0	0	0	12.0	0	0	0	0	0	0	0	816
MEAN	1339	963	1030	2620	5301	2186	2271	1570	3252	4620	986	1127	27265
NO.	30	30	31	31	31	31	31	31	31	30	30	30	29
ELSTR													
OF MEAN	4.9%	3.5%	3.8%	9.6%	19.4%	8.0%	8.3%	5.8%	11.9%	16.9%	3.6%	4.1%	100%

COLORADO RIVER BASIN

08131200 Twin Buttes Reservoir near San Angelo, Texas

LOCATION: Lat 31°22'59", long 100°32'11", Tom Green County, in the outlet control tower at Twin Buttes Dam on the Middle Concho River, Spring Creek, and South Concho River, 3.8 mi (6.1 km) upstream from Lake Nasworthy Dam, and 8.1 mi (13.0 km) southwest of San Angelo.

DRAINAGE AREA: 3,724 mi<sup>2</sup> (9,645 km<sup>2</sup>), of which 1,178 mi<sup>2</sup> (3,051 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1962 to December 1975.

GAGE: Water-stage recorder on the Middle Concho-Spring Creek pool and nonrecording gage on the South Concho pool. Datum of gage is at mean sea level.

EXTREMES: Period of record (1962-75): Maximum contents, 205,200 ac-ft (253 hm<sup>3</sup>) May 12, 1975 (elevation, 1,942.20 ft or 591.983 m); minimum contents since the first appreciable storage, 2,120 ac-ft (2.61 hm<sup>3</sup>) Apr. 15, 1971.

REMARKS: The reservoir is formed by a rolled earthfill dam 8.1 mi (13.0 km) long, including a 200-foot wide (61-m) uncontrolled off-channel concrete gravity spillway with an ogee weir section. The reservoir has a capacity of 186,200 ac-ft (229.6 hm<sup>3</sup>). The outlet works consist of three 15.5-foot (4.7-m) concrete conduits. Each is controlled by a 12- by 15-foot (4- by 5-m) fixed wheel gate and a 12- by 15-foot (4- by 5-m) radial gate, located in the Middle Concho-Spring Creek pool. The low-flow releases are made through two 2- by 2-foot (0.6- by 0.6-m) gates located in the center of three fixed wheel gates. The South Concho and Middle Concho-Spring Creek pools are connected by a 3.22-mile (5.18-km) equalizing channel. At an elevation of 1,925 ft (586.7 m), the two pools join to form one lake. Deliberate impoundment of water began on Dec. 1, 1962 and the dam was completed on Feb. 13, 1963. The reservoir was built for flood control, irrigation, and municipal uses. The dam is operated by the U.S. Bureau of Reclamation.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	-	-	-	-	-	-	-	-	-	900	1200	1700
1963	2300	3260	3550	3640	4630	4630	3940	3740	3600	3360	3550	3940
1964	4470	4800	4920	5150	4520	3770	3000	3040	18360	8780	8710	8620
1965	8570	8820	8570	8050	13180	10580	7580	7040	6420	6080	5840	5780
1966	5790	5860	5530	8560	11150	8110	5430	7610	12910	14450	13200	11910
1967	10980	10050	8360	5490	12170	8980	5670	4570	10200	10080	9900	10630
1968	11970	12950	13760	13520	12780	12110	9240	7360	6100	4960	5090	4920
1969	4850	4930	4710	6320	9980	7540	5670	4780	5620	5400	4920	5750
1970	6490	7360	9120	9560	9010	6880	3920	3030	1980	3470	3130	3150
1971	3080	2840	2200	11740	16210	13800	8220	87130	92020	95280	96890	99650
1972	100400	101100	95430	89170	88840	88040	80920	79580	81150	82390	82920	83820
1973	85810	88240	89420	90360	86470	80880	73380	68630	69050	76080	76420	76320
1974	77060	75890	71720	66590	66240	60300	51540	63380	144000	194500	189400	187700
1975	188500	187000	185700	186700	187100	183000	182100	175500	174400	174400	179800	182800
MAX	188500	187000	185700	186700	187100	183000	182100	175500	174400	194500	189400	187700
MIN	2300	2840	2200	3640	4520	3770	3000	3030	1980	900	1200	1700
MEAN	39252	39469	38692	38836	40175	37586	33893	39645	48139	48582	48641	49049
NO.	13	13	13	13	13	13	13	13	13	14	14	14
DISTR												
OF MEAN	7.8%	7.9%	7.7%	7.7%	8.0%	7.5%	6.8%	7.9%	9.6%	9.7%	9.7%	9.8%

COLORADO RIVER BASIN

08131400 Pecan Creek near San Angelo, Texas

LOCATION: Lat 31°18'32", long 100°26'44", Tom Green County, 200 ft (61 m) upstream from the bridge on U.S. Highway 277, 3.6 mi (5.8 km) upstream from the mouth, and 10.5 mi (16.9 km) south of San Angelo.

DRAINAGE AREA: 83.2 mi<sup>2</sup> (215.5 km<sup>2</sup>).

PERIOD OF RECORD: July 1961 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,030.72 ft (588.483 m) above mean sea level, datum of 1929. Prior to Apr. 30, 1968, at site 1.2 mi (1.9 km) downstream at datum 20.21 ft (6.160 m) lower.

AVERAGE DISCHARGE: 15 years, 1,081 ac-ft/yr (1.3 km<sup>3</sup>/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 6,780 ft<sup>3</sup>/s (192 m<sup>3</sup>/s) Sept. 24, 1964 (gage height, 11.15 ft or 3.399 m, site and datum then in use); no flow most of the time each year.

Maximum stage since at least 1908, 14.36 ft (4.377 m), former site and datum, Sept. 15, 1936 (discharge, 30,500 ft<sup>3</sup>/s or 864 m<sup>3</sup>/s by slope-area measurement).

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	0	0	110	248	0	0	-
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	69.0	0	0	85.0	23.0	0	0	0	177
1964	0	0	0	0	0	0	0	993	2060	0	0	0	3053
1965	0	0	0	0	150	6.40	0	0	0	0	0	0	156
1966	0	0	0	0	1.80	0	0	0	0	0	0	0	1.80
1967	0	0	0	0	8.20	0	0	188	1590	0	0	0	1786
1968	0	0	0	0	28.0	0	0	0	0	0	0	0	28.0
1969	0	0	0	0	0	0	0	0	0	7.00	0	0	7.00
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	86.0	150	.02	213	155	7.20	125	70.0	35.0	841
1972	4.00	2.00	0	0	154	73.0	0	0	124	0	0	0	357
1973	0	11.0	22.0	12.0	.50	0	0	0	0	327	13.0	62.0	448
1974	61.0	23.0	1.50	0	4.30	0	0	90.0	186	2320	1480	986	5152
1975	776	514	482	354	770	225	156	29.0	29.0	37.0	108	100	3580
MAX	776	514	482	354	770	225	213	993	2060	2320	1480	986	5152
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	50.1	39.3	36.1	32.3	95.4	21.7	24.6	103	275	204	111	78.9	1081
NO.	14	14	14	14	14	14	15	15	15	15	15	15	14
DISTR OF MEAN	5.6%	3.6%	3.3%	3.0%	8.8%	2.0%	2.3%	9.5%	25.5%	18.9%	10.3%	7.3%	100%

COLORADO RIVER BASIN

08131600 Tom Green County Water Control and Improvement  
District No. 1 Canal near San Angelo, Texas

LOCATION: Lat 31°24'58", long 100°23'23", Tom Green County, 1,900 ft (579 m) downstream from the bridge on U.S. Highway 87, 4.3 mi (6.9 km) south of San Angelo, and 7.0 mi (11.3 km) downstream from Lake Nasworthy.

PERIOD OF RECORD: April 1963 to December 1975.

GAGE: Water-stage recorder and Parshall flume. Datum of gage is 1,855.33 ft (565.505 m) above mean sea level.

AVERAGE DISCHARGE: 13 years, 3,530 ac-ft/yr (4.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum daily discharge, 101 ft<sup>3</sup>/s (2.86 m<sup>3</sup>/s) Mar. 28, 1972; no flow for long periods.

REMARKS: Records good. The discharge represents water releases from Lake Nasworthy for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	0	0	0	0	0	0	0	0	0	-
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	16.0	2600	2820	823	1400	2300	942	30.0	40.0	0	0	10971
1973	0	0	0	144	1580	2660	3240	338	128	69.0	0	0	8159
1974	0	418	2720	2260	250	2360	2710	0	0	0	196	76.0	10990
1975	0	188	3880	1450	1380	3560	2380	1490	204	404	14.0	0	14950
MAX	0	418	3880	2820	1580	3560	3240	1490	204	404	196	76.0	14950
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	51.8	767	513	310	768	818	213	27.8	39.5	16.2	5.85	3530
NO.	12	12	12	13	13	13	13	13	13	13	13	13	12
DISTR OF MEAN	.0%	1.5%	21.7%	14.5%	8.8%	21.7%	23.2%	6.0%	.8%	1.1%	.5%	.2%	100%



COLORADO RIVER BASIN

08132000 Lake Nasworthy near San Angelo, Texas

LOCATION: Lat 31°23'19", long 100°28'41", Tom Green County, 250 ft (76 m) upstream from Nasworthy Dam on the South Concho River, 3.8 mi (6.1 km) downstream from Twin Buttes Dam, and 6 mi (10 km) southwest of San Angelo.

DRAINAGE AREA: 3,033 mi<sup>2</sup> (9,027 km<sup>2</sup>), of which 3,724 mi<sup>2</sup> (9,645 km<sup>2</sup>) is above Twin Buttes Reservoir and 1,178 mi<sup>2</sup> (3,051 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1930 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,840.00 ft (560.832 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1930-75): Maximum contents, 26,900 ac-ft (33.2 hm<sup>3</sup>) Sept. 15, 1936 (gage height, 38.36 ft or 11.692 m); minimum contents, 209 ac-ft (0.258 hm<sup>3</sup>) Aug. 22, 1964 (gage height, 13.21 ft or 4.026 m).

REMARKS: The lake is formed by a 6,090-foot (1,860-m) dam with a 5,590-foot (1,700-m) earthen section, two earthen spillways 300 and 600 ft (91 and 180 m) long, a concrete spillway 375 ft (114 m) long with a bank of fifteen 18- by 25-foot (5- by 8-m) tainter gates and a collapsible floodgate. The dam was completed and storage began on Mar. 28, 1930. The capacity of the lake is 12,390 ac-ft (15.3 hm<sup>3</sup>). Since September 1962, the lake has been almost totally controlled by releases or pumping from Twin Buttes Reservoir (station 08131200). Since 1955, figures of contents and capacities have been adjusted for sedimentation. Siltation surveys in December 1938 and May 1953 by the Soil Conservation Service show that 1,191 ac-ft (1.47 hm<sup>3</sup>) of silt was deposited from March 1930 to December 1938 and an additional 1,023 ac-ft (1.26 hm<sup>3</sup>) was deposited from December 1938 to May 1953, totaling 2,214 ac-ft (2.73 hm<sup>3</sup>). Water is used for part of the San Angelo municipal supply and for irrigation east of San Angelo. The dam is operated by the City of San Angelo.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1930	-	-	126	1000	1020	7540	5100	3700	3050	10260	10620	10500
1931	10500	10500	10380	10500	10500	9900	-	-	9300	8420	9190	10620
1932	10740	10740	10380	10980	10380	10740	9540	10140	10140	10260	9900	9780
1933	9780	9900	10140	10380	10260	9190	7320	6550	6220	6220	7760	8530
1934	9780	9780	9780	9420	8310	6990	3500	6110	4940	4240	6440	6000
1935	6550	9300	8660	10140	9190	9780	9540	10380	10020	10020	9190	9660
1936	9780	10380	9300	8090	10380	10260	9540	5910	1160	5730	9540	9300
1937	9190	8420	8860	8860	8310	8750	8860	7760	7870	8640	8750	8090
1938	8640	9080	8860	9190	8970	8530	6110	8750	8640	8750	9190	8530
1939	9300	9190	8640	8860	8310	8420	9080	8090	6990	7210	7870	8860
1940	9300	8530	8200	8530	8310	7980	7430	8750	7980	8640	8420	7870
1941	9190	8970	7210	8640	9080	8200	7980	8970	9080	9300	7760	7870
1942	8970	8750	8860	8970	8420	8970	8090	9080	9540	8750	7100	7980
1943	7870	8970	8310	8530	8640	8420	7760	5280	6110	7430	8530	9300
1944	9540	9080	8690	7870	8640	7870	5820	4700	7650	8640	8420	9080
1945	8750	8970	9190	8860	7430	5820	8310	7540	7320	7650	7650	7870
1946	6550	8310	8310	7210	6990	7980	5730	4620	8200	8200	8200	7980
1947	6990	7100	8310	7870	8750	9420	7100	4940	3550	3100	3050	4060
1948	4380	5910	5190	4940	9900	8750	8750	5640	13080	12440	11380	10740
1949	10980	11660	12920	12760	12920	12280	9900	7650	8530	13240	13240	13240
1950	13240	13240	12440	11660	11380	11100	8860	9900	13080	11520	10620	10260
1951	10020	10020	8970	7430	5550	5460	3600	9080	6220	4540	3940	3860
1952	3880	3400	2950	2700	6660	4240	2900	1760	1340	1300	1300	1300
1953	1280	1300	11240	9300	12120	8750	10620	13400	11800	13720	13240	12600
1954	12120	11100	9900	13720	13720	13400	10500	7320	5020	2880	2060	1240
1955	845	1380	578	525	7090	8570	11750	11750	10470	9910	8930	8210
1956	7750	7090	5600	12390	11910	8210	6670	4250	4170	10790	9290	8330
1957	7640	7200	7860	12230	9290	12710	11750	8210	7200	10630	11910	12550
1958	12710	12390	12710	12550	12550	12710	10790	11110	10790	11430	11910	11750
1959	11910	12390	11430	11110	11110	10470	12550	9910	11430	12250	12420	12420
1960	12390	12390	12410	12290	12450	10570	10360	9580	8800	9880	10090	11320
1961	12420	12440	12290	11560	10470	12390	12450	10920	12200	11970	12120	12020
1962	11990	12260	12310	12370	11430	9950	8980	7460	5890	5100	4260	3640
1963	3190	2920	2400	2030	2230	1970	919	748	574	460	526	629
1964	728	799	783	845	578	387	260	557	2430	7220	7080	6520
1965	6210	6410	6020	4310	9710	10460	9750	8620	7600	7070	6640	6470
1966	6260	6020	5620	7050	10440	10360	9900	10250	10320	10410	10290	10470
1967	10460	10360	10390	10270	9720	10630	10060	8970	11210	9880	10330	10060
1968	10300	10200	9980	10490	10270	10290	10410	8650	8460	8250	8230	8190
1969	7960	7820	7690	8200	10370	10150	8680	8520	9100	10220	10650	10730
1970	10370	10180	10090	10160	10150	10410	10010	8560	8970	9390	8970	8630
1971	8570	8470	8130	9040	9530	9220	11050	11480	10810	10550	10470	10520
1972	10570	10520	10570	10600	10710	10550	10330	10790	11060	10930	10850	10770
1973	11060	11430	11190	10900	10520	10440	10730	10570	10680	10610	10330	10220
1974	10470	10410	10570	10650	10400	10400	10440	10500	11350	7760	10300	10920
1975	10570	10570	10440	10550	10930	10710	10370	10490	10490	10600	10320	10520
MAX	13240	13240	12920	13720	13720	13400	12550	13400	13080	13720	13240	13240
MIN	728	799	126	525	578	387	260	557	574	460	526	629
MEAN	8704	8806	8580	8838	9260	9137	8448	7954	8062	8618	8680	8696
NO.	45	45	46	46	46	46	45	45	46	46	46	46
DISTR												
OF MEAN	8.4%	8.5%	8.3%	8.5%	8.9%	8.8%	8.1%	7.7%	7.8%	8.3%	8.4%	8.4%

COLORADO RIVER BASIN  
08132500 South Concho River at San Angelo, Texas

LOCATION: Lat 31°26'45", long 100°25'30", Tom Green County, at the Lone Wolf Bridge on a county road, 0.5 mi (0.8 km) south of San Angelo, and 1 mi (1.6 km) upstream from its confluence with the North Concho River.

DRAINAGE AREA: 2,687 mi<sup>2</sup> (6,959.3 km<sup>2</sup>), of which 152 mi<sup>2</sup> (393.7 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1931 to September 1953.

GAGE: Water-stage recorder. Datum of gage is 1,802.94 ft (579.5 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 23 years, 81,762 ac-ft/yr (100.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1931-53): Maximum discharge, 111,000 ft<sup>3</sup>/s (3,143.5 m<sup>3</sup>/s) September 17, 1936 (gage height, 23.4 ft or 7.1 m); no flow at times.

Maximum stage known since at least 1854, 29.7 ft (9.0 m) August 6, 1906, from information by local residents.

REMARKS: Records good. There are diversions above the station for irrigation and fish hatcheries. The flow is largely regulated by Lake Nasworthy (station 08132000) since 1930.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	14.0	65.0	2.62	-
1932	2400	2320	1620	4260	78100	7260	29600	916	24400	8420	7200	7380	173676
1933	7440	5450	3970	1850	2660	395	818	1.20	0	270	534	569	23957
1934	922	1660	1800	6960	726	297	1570	334	22.0	0	61.0	11.00	15452
1935	157	4070	274	1740	53250	27840	5590	23.0	24690	3470	4640	2770	128714
1936	2250	716	1670	627	9410	448	707	1460	435800	14800	4690	8070	480648
1937	6020	5090	4330	1960	14090	13760	98.0	317	370	198	1050	9850	57133
1938	11450	4240	2570	18150	2930	1340	116800	2630	1790	1390	1910	3780	168980
1939	2990	2790	2790	2760	16070	1020	1220	5230	567	793	933	1520	38663
1940	1850	3690	1540	5060	3480	15530	2210	2120	2970	559	3340	3710	46059
1941	1800	3360	12940	9100	37290	56950	9700	9060	7240	20360	12450	9520	189770
1942	6590	5680	4630	6740	4450	410	182	52210	12620	8710	8160	5820	116402
1943	6300	3030	4610	1860	4550	950	31.0	477	222	604	469	2430	25533
1944	3710	4580	4080	151	1010	2840	251	241	14010	1200	1120	1600	34793
1945	2750	1990	1700	4440	730	46.0	25410	163	164	3250	1780	1740	44163
1946	3950	115	327	3740	92.0	65.0	17.0	19.0	33480	6400	1770	8270	58245
1947	4310	1320	663	621	3350	2990	148	116	27.0	30.0	0	9.5	13585
1948	.80	54.0	59.0	59.0	572	864	33450	20.0	3600	615	682	491	39867
1949	742	960	3420	69710	15120	6800	209	349	384	8360	1500	1470	109024
1950	1860	1010	124	47.0	137	276	46.0	72.0	6150	290	186	140	10338
1951	30.0	67.0	56.0	5.60	.20	55.0	2.60	40.0	0	.80	0	0	259
1952	0	0	15.0	0	0	0	0	0	0	0	0	0	15.0
1953	0	0	4860	0	5350	0	924	8830	2940	-	-	-	-
MAX	11450	5680	12940	69710	78100	56950	116800	52210	435800	20360	12450	9850	480648
MIN	0	0	15.0	0	0	0	0	0	0	0	0	0	15.0
MEAN	3069	2372	2639	6356	11517	6370	10408	3847	25966	3624	2388	3206	81762
NO.	22	22	22	22	22	22	22	22	22	22	22	22	21
DISTR													
OF MEAN	3.8%	2.9%	3.2%	7.8%	14.1%	7.8%	12.7%	4.7%	31.8%	4.4%	2.9%	3.9%	100%

COLORADO RIVER BASIN  
08133500 North Concho River at Sterling City, Texas

LOCATION: Lat 31°49'48", long 100°59'36", Sterling County, 100 ft (30 m) upstream from the bridge on State Highway 163, 0.3 mi (0.5 km) south of Sterling City, 4.2 mi (6.8 km) upstream from Sterling Creek, and 5.2 mi (8.4 km) downstream from Lacy Creek.

DRAINAGE AREA: 605 mi<sup>2</sup> (1,567 km<sup>2</sup>), of which 66 mi<sup>2</sup> (171 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: September 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,242.36 ft (683.471 m) above mean sea level, datum of 1929. Prior to Dec. 6, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 37 years, 6,848 ac-ft/yr (8.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 16,300 ft<sup>3</sup>/s (462 m<sup>3</sup>/s) July 6, 1948 (gage height, 23.70 ft or 7.224 m); no flow at times each year.

Maximum stage since at least 1891, that of July 6, 1948.

REMARKS: Records good. There are several small diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	0	0	0	0	0
1940	40.0	55.0	62.0	43.0	13.0	2390	76.0	18.0	423	38.0	0	31.0	3189
1941	43.0	65.0	2420	890	415	1740	1850	54.0	223	1290	178	207	9375
1942	196	174	168	374	108	35.0	0	40	35.0	24.0	49.0	89.0	1252
1943	86.0	72.0	108	44.0	115	7.30	205	0	0	0	0	1.40	639
1944	11.0	65.0	44.0	21.0	8.90	1070	3.60	121	0	0	0	0	1344
1945	0	0	0	7.70	0	119	24900	30.0	1.80	11.0	16.0	51.0	25136
1946	90.0	81.0	56.0	36.0	4.80	0	0	0	225	441	0	0	934
1947	3.20	6.10	26.0	1.80	2810	21.0	0	0	0	64.0	0	0	2932
1948	0	68.0	574	60	101	2030	23540	9.7	1020	0	0	0	27343
1949	31.0	36.0	49.0	4770	6890	1980	40.0	1.20	1.40	0	4.40	42.0	13845
1950	75.0	92.0	62.0	4530	448	32.0	0	16.0	1190	80	10.0	139	6595
1951	38.0	83.0	48.0	29.0	46.0	4.80	0	0	0	0	0	0	249
1952	0	0	0	356	543	111	0	0	0	0	20	0	1010
1953	0	0	20	0	12.0	208	29.0	128	0	0	0	0	377
1954	0	0	0	4170	11420	1240	32.0	0	0	0	0	0	16862
1955	0	0	0	0	1360	1.80	505	0	74.0	135	0	0	2076
1956	0	0	0	0	1540	174	1520	1.60	0	554	6.00	50.0	3846
1957	0	0	0	9890	12380	5620	1.20	0	3830	10860	48.0	24.0	42653
1958	57.0	61.0	61.0	521	102	727	60	386	0	0	0	0	1916
1959	0	0	0	0	30.0	308	4310	60	61.0	10440	96.0	81.0	15327
1960	90.0	77.0	77.0	59.0	1.60	0	1260	0	0	1090	0	0	2655
1961	0	7.70	7.90	1.00	10990	105	15520	114	201	18.0	53.0	72.0	27090
1962	76.0	56.0	65.0	69.0	1.80	0	0	1.60	33.0	0	0	0	302
1963	0	0	0	0	578	2.60	0	0	0	0	0	0	581
1964	0	0	0	0	0	0	99.0	383	6060	40	84.0	0	6626
1965	0	0	0	7.50	2510	2000	0	20	19.0	1360	5.80	0	5902
1966	0	0	240	2220	26.0	0	0	0	1.00	0	0	0	2487
1967	0	0	0	0	0	5.10	0	79.0	0	0	0	0	84.1
1968	0	0	0	0	3650	90	0	0	0	0	0	0	3651
1969	0	0	0	1280	0	0	0	0.2	267	0	0	0	1547
1970	0	0	0	0	0	0	0	0	49.0	0	0	0	49.0
1971	0	0	0	0	1210	843	0	544	3110	0	0	0	5707
1972	0	0	0	0	5.00	145	0	133	309	0	0	0	592
1973	0	0	4460	441	15.0	0	0	0	0	0	0	0	4916
1974	0	0	0	0	34.0	22.0	0	1.80	6820	1170	65.0	36.0	8149
1975	40.0	94.0	35.0	8.50	452	3.40	28.0	0	0	0	10	0	661
MAX	196	174	4460	9890	12380	5620	24900	544	6820	10860	178	207	42653
MIN	0	0	0	0	0	0	0	0	0	0	0	0	49.0
MEAN	24.3	30.4	238	827	1606	582	2053	56.2	647	743	16.6	22.3	6846
NO.	36	36	36	36	36	36	36	36	37	37	37	37	36
DISTR OF MEAN	.4%	.4%	3.5%	12.1%	23.5%	8.5%	30.0%	.8%	9.5%	10.9%	.2%	.3%	100%

COLORADO RIVER BASIN

08134000 North Concho River near Carlsbad, Texas

LOCATION: Lat 31°35'33", long 100°38'12", Tom Green County, at the bridge on a county road, 0.6 mi (1.0 km) southeast of Carlsbad, 1.5 mi (2.4 km) upstream from Mule Creek, 2.5 mi (4.0 km) upstream from Grape Creek, and 16.2 mi (26.1 km) upstream from O. C. Fisher Dam.

DRAINAGE AREA: 1,249 mi<sup>2</sup> (3,235 km<sup>2</sup>), of which 105 mi<sup>2</sup> (272 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,988.02 ft (599.852 m) above mean sea level, datum of 1929. Prior to Feb. 4, 1925, and Sept. 27, 1936 to Feb. 7, 1937, nonrecording gage; Feb. 4, 1925 to Sept. 26, 1936, and Feb. 8, 1937 to Nov. 6, 1955, water-stage recorder, all at site 2.5 mi (4.0 km) upstream at datum 32.76 ft (9.985 m) higher.

AVERAGE DISCHARGE: 52 years, 27,028 ac-ft/yr (33.3 km<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge, 94,600 ft<sup>3</sup>/s (2,680 m<sup>3</sup>/s) Sept. 26, 1936 (gage height, 16.0 ft or 4.88 m at former site, 29.1 ft or 8.87 m at present site, from floodmarks); no flow at times.

Maximum stage since 1853, that of Sept. 26, 1936.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	736.0	692	89.8	0	168.0	214	307	298	307	-
1925	467	314	92.2	3752.0	8332.0	2930	376	667.0	677	371	106.0	716	134513
1926	922	610	1890.0	4520	1310	1120	284	235	338.0	651	726	796	33454
1927	662	670	477	4140	1530	370	235.0	3.40	688	283	108	248	11529
1928	296	340	442	547	2950	774	2170.0	470	298	119	339	435	28710
1929	398	454	2560	762	3630	140	43.0	0	261.0	726.0	470	240	18567
1930	251	219	221	258	8920	1440.0	33.0	0	0	928	117	1240	26587
1931	313	566	339	331	1110	198	4.90	0	0	266.0	284	227	6033
1932	284	547	375	2380	3920.0	7800	959	281	5950	594	732	1110	60212
1933	861	661	738	568	378	74.0	0	181	5.40	0	0	60.0	3526
1934	154	211	248	414	182	0	0	953.0	643	0	3680	78.6	15340
1935	89.0	4720	254	2470	6195.0	2020	2280	518	1770	261	281	355	76968
1936	396	382	638	339	1580	205	6.30	6.10	23920.0	2650	1230	1210	247842
1937	984	847	1370	728	575	15000	381	81.0	8.90	35.0	98.0	231	20339
1938	481	717	734	12470	677	5670	6070	332	108	224	335	367	28185
1939	432	334	381	387	1360	82.0	8.90	945	5.00	0	13.0	165	4113
1940	183	223	154	185	344	3020	362	2370	3320	6.10	55.0	225	10447
1941	154	403	2220	11230	10270	12930	2620	1260	545	2330	673	789	45424
1942	756	674	716	781	601	233	26.0	1330	775	332	297	374	6895
1943	436	374	512	383	907	144	819	12.0	9.7	6.10	39.0	291	3933
1944	284	230	235	178	196	1940	6.10	245	284	82.0	104	211	3995
1945	240	208	241	1290	115	35.0	4954.0	233	66.0	357	275	284	52884
1946	312	287	300	182	69.0	12.0	4.80	0	115	204	42.0	767	2295
1947	114	186	249	198	18930	204	245	21.0	6.00	0	0	459	20612
1948	278	428	573	298	25.0	3170	7346.0	64.0	1140	78.0	102	148	79764
1949	233	205	214	20830	12600	3180	197	69.0	22.0	32.0	95.0	229	37906
1950	260	259	251	3470	3030	142	6.10	1030	5670	226	205	242	14791
1951	258	241	244	233	2460	34.0	6.10	512	2.60	0	0	20.0	4011
1952	84.0	86.0	101	266	41.0	609	3.00	0	0	0	0	0	1190
1953	0	0	0	4.00	11780	6.00	972	15670	8.90	2020	27.0	54.0	30542
1954	96.0	70.0	64.0	5470	12470	2850	151	0	0	0	0	0	21171
1955	0	0	147	2140	2130	5.60	2020	255	387	168	0	0	5134
1956	0	0	0	1580	6820	2.00	1620	0	28.0	2470	64.0	639	13223
1957	6.30	.80	360	20370	25400	11270	5.40	0	9560	89960	167	109	157208
1958	104	120	157	951	294	1750	36.0	882	337	4.40	6.10	52.0	4693
1959	70.0	93.0	79.0	69.0	37.0	2020	4250	7.10	1780	13830	168	134	22537
1960	158	140	129	454	119	21.0	531	.20	0	1140	0	0	2692
1961	0	2370	59.0	8.30	15410	1160	10970	77.0	574	88.0	72.0	86.0	30874
1962	78.0	61.0	72.0	61.0	3.00	0	0	0	0	0	0	0	275
1963	0	0	0	0	1900	1050	0	155	0	2.60	267	0	3375
1964	0	0	0	0	784	1.80	0	155	8020	7.30	375	.80	9344
1965	0	0	0	0	5530	2170	0	139	92.0	2180	6.90	0	10118
1966	0	0	101	4930	791	3.00	0	1130	341	334	4.30	2.70	7637
1967	2.70	1.00	.80	0	0	0	0	563	0	0	0	0	567
1968	0	0	0	0	2570	0	0	0	0	0	0	0	2570
1969	0	0	0	0	996	0	0	589	593	0	0	0	2178
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	1150	524	0	963	4430	53.0	1.00	0	7121
1972	0	0	0	0	190	114	0	0	1910	.60	0	0	2215
1973	0	0	3410	332	27.0	.40	61.0	0	0	0	0	0	3830

COLORADO RIVER BASIN  
08134000 North Concho River near Carlsbad, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	0	0	0	0	0	0	0	123	47320	4240	733	442	52858
1975	301	276	194	173	1610	82.0	5.70	32.0	0	0	116	147	2937
MAX	984	4720	18900	37520	83320	15000	73460	15670	239200	89960	3880	1240	247842
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	223	363	756	2868	6711	1915	3508	939	6594	2625	267	259	27028
NO.	51	51	51	52	52	52	52	52	52	52	52	52	51
DISTR OF MEAN	.8%	1.3%	2.8%	10.6%	24.8%	7.1%	13.0%	3.5%	24.4%	9.7%	1.0%	1.0%	100%

COLORADO RIVER BASIN

08134500 O. C. Fisher Lake at San Angelo, Texas

LOCATION: Lat 31°29'04", long 100°28'53", Tom Green County, in the intake structure of the San Angelo Dam on the North Concho River, and 3.1 mi (5.0 km) northwest of San Angelo.

DRAINAGE AREA: 1,488 mi<sup>2</sup> (3,854 km<sup>2</sup>), of which 105 mi<sup>2</sup> (272 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: February 1952 to December 1975. Published as "San Angelo Reservoir" prior to October 1970, and as "San Angelo Lake" October 1970 to September 1974.

GAGE: Water-stage recorder. Datum of gage is at mean sea level. Prior to May 12, 1953, nonrecording gage at same site and datum.

EXTREMES: Period of record (1952-75): Maximum contents, 174,100 ac-ft (215 hm<sup>3</sup>) Oct. 14, 1957 (elevation, 1,916.47 ft or 584.140 m); minimum contents since the first appreciable storage, lake was dry July 16, 1970 to Apr. 15, 1971.

REMARKS: The lake is formed by a rolled earthfill dam 40,885 ft (12,462 m) long, including spillway, with a capacity of 119,200 ac-ft (147.0 hm<sup>3</sup>). Closure was completed on Mar. 7, 1951 and the dam was completed on May 3, 1951. Deliberate impoundment began on Feb. 1, 1952. The lake is operated for flood control and recreation with part as municipal supply for the City of San Angelo. The emergency spillway is an uncontrolled off-channel concrete gravity dam with an ogee weir section 1,150 ft (351 m) wide located to the right and upstream from the right end of the dam. The spillway is designed to discharge 356,000 ft<sup>3</sup>/s (10,100 m<sup>3</sup>/s) at maximum design flood level. The service control outlet works consist of six gate-controlled outlets, 7.5 by 14.5 ft (2.3 by 4.4 m), opening into two 18.0-foot diameter (5.5-m) concrete conduits and two 2.5-foot (0.8-m) gate-controlled outlets for water-supply outlets. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1952	-	10.0	11.0	12.0	533	668	662	367	273	198	178	156
1953	137	122	866	734	12250	10830	13310	32960	32580	36020	34820	33790
1954	33320	32350	31300	41350	52310	58140	55160	52680	50560	48690	47360	46230
1955	45530	44990	43480	41300	41020	38590	38470	37840	36580	35310	34090	33290
1956	32930	32290	31190	31580	40060	37470	35870	34180	31820	35660	34640	34480
1957	33700	33340	32350	54330	81700	90440	85460	80740	85990	118100	113300	109200
1958	107400	108600	107500	106900	105600	103000	97660	94340	93630	91640	89480	87490
1959	86270	85660	83680	82350	81010	84110	87040	83400	82620	94870	93590	92890
1960	92890	90440	89900	89520	87490	83360	79910	76970	74020	74190	72740	72390
1961	72640	75010	73770	71450	83210	83130	90530	86960	86960	84860	83480	82160
1962	81160	80210	78740	77820	74980	71110	67440	62780	60910	59540	58290	57500
1963	56560	56140	54240	51560	51530	51470	46530	43840	41220	39040	38760	37930
1964	37060	36440	35240	33880	33110	29850	25880	23480	29550	28030	27610	26460
1965	25490	25170	24030	23060	31000	30930	26100	23780	21870	22450	21320	20520
1966	19890	19160	18050	22130	23340	20790	17480	19770	20320	19380	18370	17640
1967	17010	16330	15890	15100	13480	12830	11840	10540	11680	11160	11140	11050
1968	11290	11280	11260	11310	13880	12960	12190	11300	10820	9770	9430	9060
1969	8480	8070	7800	7580	7970	6330	3830	3050	3470	3390	3320	3420
1970	3400	3410	3430	3010	2700	914	0	0	0	0	0	0
1971	0	0	0	284	1510	1690	1540	6270	11050	10570	10110	9910
1972	9610	9380	8880	8340	8100	8020	7390	7340	8830	8700	8430	8240
1973	8220	7220	9680	9620	9100	8770	8650	8010	7910	7620	7380	7120
1974	6990	6730	6490	6160	5970	5430	4950	4810	43660	47950	47720	47530
1975	47100	46810	45560	44090	47150	44770	42290	39080	37050	36020	35530	35000
MAX	107400	108600	107500	106900	105600	103000	97660	94340	93630	118100	113300	109200
MIN	0	0	0	12.0	533	668	0	0	0	0	0	0
MEAN	36395	34548	33889	34728	37875	37317	35841	35187	36816	38465	37545	36811
NO.	23	24	24	24	24	24	24	24	24	24	24	24
DISTR OF MEAN	8.4%	7.9%	7.8%	8.0%	8.7%	8.6%	8.2%	8.1%	8.5%	8.8%	8.6%	8.5%

COLORADO RIVER BASIN

08135000 North Concho River at San Angelo, Texas

LOCATION: Lat 31°27'57", long 100°26'51", Tom Green County, at the Sixth Street Bridge in San Angelo, 3.2 mi (5.1 km) upstream from its confluence with the South Concho River, and 3.4 mi (5.5 km) downstream from O. C. Fisher Dam.

DRAINAGE AREA: 1,507 mi<sup>2</sup> (3,903 km<sup>2</sup>), of which 105 mi<sup>2</sup> (272 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: November 1915 to May 1928, March 1929 to September 1931, August 1947 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,813.42 ft (562.730 m) above mean sea level, datum of 1929. Prior to Sept. 1, 1920, nonrecording gage, and Sept. 1, 1920 to Feb. 11, 1929, water-stage recorder at site 1.8 mi (2.6 km) downstream at datum 11.02 ft (3.350 m) lower. Feb. 12, 1929 to Sept. 30, 1931, water-stage recorder at site 1.6 mi (2.6 km) downstream at datum 13.02 ft (3.968 m) lower.

AVERAGE DISCHARGE: 46 years (1915-31, 1947-75), 19,485 ac-ft/yr (24.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-31, 1947-75): Maximum discharge, 47,000 ft<sup>3</sup>/s (1,330 m<sup>3</sup>/s) June 13, 1930 (gage height, 22.52 ft or 6.864 m, site and datum then in use); no flow at times.

Flood of Sept. 17, 1936 reached a stage of 34.6 ft (10.55 m) from floodmarks (discharge, 184,000 ft<sup>3</sup>/s or 5,210 m<sup>3</sup>/s by slope-area measurement).

REMARKS: Records good. Since October 1951, the flow is regulated by O. C. Fisher Lake (station 08134500).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	-	381	408	-
1916	489	754	812	2990	682	64.0	0	0	0	652	26.0	0	6469
1917	0.	64.0	83.0	5050	421	1420	78.0	0	1200	0	0	0	8316
1918	0	0	0	0	5760	2290	751	0	168	33700	2920	123	45712
1919	226	211	13900	9230	902	23200	7750	2630	4150	40300	1170	1350	105019
1920	1140	622	842	419	167	399	39.0	3180	225	419	547	488	8487
1921	472	415	600	465	158	655	.60	0	0	0	0	0	2766
1922	0	0	0	58000	20400	1570	14100	2.40	3.80	0	1.80	1.60	94080
1923	97.8	27.2	67.2	1960	370	5.20	0	74.3	248	2020	164	155	5189
1924	188	271	447	9330	1140	52.2	.80	1310	2340	2270	313	686	18348
1925	411	359	180	21100	62800	5800	780	4560	4200	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	361	261	876	-
1927	538	1090	919	2950	1470	258	1510	9.5	5020	9220	78.0	175	23238
1928	264	305	288	418	4850	-	-	-	-	-	-	-	-
1929	-	-	3030	904	4830	148	52.0	0	3020	9100	57.0	128	-
1930	191	163	162	952	12100	26900	49.0	0	0	3360	146	1270	45293
1931	152	694	338	797	1030	271	511	0	0	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	7.70	0	117	0	117	-
1948	0	881	412	85.0	1840	4610	72390	176	2650	56.0	5.00	64.0	83169
1949	214	205	236	30700	16770	3460	49.0	11.0	8.30	268	.60	3.00	51925
1950	126	172	101	3470	3920	158	3.40	820	9180	445	55.0	254	18704
1951	168	290	233	116	2210	168	.40	3410	0	0	0	.20	6596
1952	.60	0	0	.20	14.0	0	0	66.0	0	0	0	0	80.8
1953	0	0	135	0	283	0	157	627	316	265	7.50	0	1791
1954	1.00	0	0	95.0	19.0	195	0	0	0	0	0	0	310
1955	14.0	23.0	300	847	777	427	542	196	41.0	39.0	56.0	107	3369
1956	76.0	61.0	76.0	116	125	141	815	1630	1200	558	112	114	5024
1957	258	224	300	928	982	837	809	744	879	53160	3690	2900	65711
1958	1490	330	285	306	268	702	751	1060	625	471	577	577	7442
1959	255	159	175	221	244	846	841	913	1200	737	274	310	6175
1960	359	1250	255	273	192	726	1630	1170	771	976	149	179	7930
1961	245	176	187	558	498	594	151	309	301	178	181	198	3576
1962	171	150	180	298	461	1640	1450	2520	442	701	331	102	8446
1963	111	171	798	1530	1480	861	2830	1450	986	807	476	336	11836
1964	491	280	592	763	1700	1500	1350	1300	1030	330	157	65.0	9558

COLORADO RIVER BASIN

08135000 North Concho River at San Angelo, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	43.0	84.0	41.0	127	912	511	1590	979	1130	659	614	468	7156
1966	341	507	751	934	788	1470	2260	1450	799	912	631	397	11240
1967	352	344	312	99.0	1010	146	165	1170	349	57.0	78.0	46.0	4128
1968	81.0	58.0	92.0	132	382	620	102	25.0	59.0	470	495	220	2736
1969	409	329	183	310	335	1050	1920	800	117	320	125	124	6022
1970	45.0	46.0	122	466	476	1300	331	12.0	151	55.0	13.0	25.0	3042
1971	19.0	16.0	1.60	191	8.80	27.0	47.0	400	145	78.0	15.0	83.0	1029
1972	56.0	19.0	8.00	13.0	104	160	8.00	317	162	210	42.0	26.0	1125
1973	81.0	71.0	64.0	75.0	21.0	110	133	13.0	236	39.0	4.70	74.0	922
1974	40.0	24.0	18.0	115	211	16.0	.70	135	375	367	169	150	1641
1975	108	159	64.0	77.0	619	25.0	40.0	5.90	59.0	76.0	192	64.0	1489
MAX	1490	1250	13900	58000	62800	26900	72390	4560	9180	53160	3690	2900	105019
MIN	0	0	0	0	8.80	0	0	0	0	0	0	0	80.8
MEAN	232	262	642	3661	3575	2032	2762	779	1018	3899	338	295	19495
NO.	42	42	43	43	43	42	42	43	43	42	43	43	39
DISTR OF MEAN	1.2x	1.3x	3.3x	18.8x	18.3x	10.4x	14.2x	4.0x	5.2x	20.0x	1.7x	1.5x	100x



CÓLÓRADO RIVER BASIN  
08136000 Concho River at San Angelo, Texas

LOCATION: Lat 31°27'16", long 100°24'37". Tom Green County, 0.4 mi (0.6 km) downstream from the confluence of the North and South Concho Rivers, and 1.8 mi (2.9 km) southeast of the Tom Green County Courthouse.

DRAINAGE AREA: 5,380 mi<sup>2</sup> (13,934 km<sup>2</sup>), of which 1,283 mi<sup>2</sup> (3,323 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1915 to December 1975. Prior to October 1969, published as "near San Angelo".

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,776.79 ft (541.566 m) above mean sea level, datum of 1929. Prior to Aug. 11, 1917, nonrecording gage at same site and datum. Aug. 11, 1917 to May 15, 1983, water-stage recorder at same datum.

AVERAGE DISCHARGE: 61 years, 92,350 ac-ft/yr (113.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-75): Maximum discharge, 230,000 ft<sup>3</sup>/s (6,510 m<sup>3</sup>/s) Sept. 17, 1936 (gage height, 46.6 ft or 14.20 m, from floodmarks); no flow at times in 1921, 1952-53, 1965, and 1971.

Maximum stage since 1853, 47.6 ft (14.48 m) Aug. 6, 1906 (discharge, 246,000 ft<sup>3</sup>/s or 6,970 m<sup>3</sup>/s), from information by a local resident.

REMARKS: Records good. There are many diversions upstream for irrigation, industrial, and municipal water supply. The flow is regulated by Twin Buttes Reservoir (station 08131200) since 1963, Lake Nasworthy (station 08132000) since 1930 on the South Concho River, and by O. C. Fisher Lake (station 08134500) since 1951 on the North Concho River.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	6500	4340	5260	-
1916	5450	3870	2470	7220	2560	418	274	255	8260	2700	1750	2210	37437
1917	2770	2170	2200	6960	941	1750	224	131	3300	166	195	117	20924
1918	388	512	365	180	21300	10000	942	33.2	275	44800	4120	1740	84655
1919	2700	1540	21000	9860	11500	67600	38600	7500	10300	60800	5940	5050	242390
1920	5550	5150	3040	1460	941	7080	299	9410	4520	2820	3360	2790	46420
1921	2600	1280	2450	1120	836	4850	189	1730	702	107	81.3	70.0	16015
1922	127	188	110	235000	85500	8170	30200	127	108	85.9	601	1330	361547
1923	2120	4100	4200	7160	2420	259	942	4080	15700	14100	9840	5930	70851
1924	5080	4380	5510	31100	27800	6270	235	1430	5730	4750	2370	4140	98795
1925	3040	2230	1080	31800	102900	13200	2820	9290	8970	4580	3790	3700	187400
1926	4300	2900	33000	54380	12800	5170	1120	4270	2890	4980	2270	8650	136730
1927	4170	4680	4580	4320	2410	852	1960	169	5590	28200	1290	2370	60591
1928	2640	1570	1250	1070	7870	10700	20400	5100	1520	2100	2830	2980	60030
1929	2380	1770	5860	9100	9280	702	142	108	4710	18400	1680	1470	55602
1930	1720	1160	646	1970	13000	25240	183	114	91.0	77450	6190	6950	134714
1931	3860	7940	3070	4180	3030	1140	2710	904	589	2910	827	510	31670
1932	2720	3160	1660	7020	134200	16000	27400	2610	38900	9410	8150	8980	260410
1933	7870	5940	4690	2300	2910	444	972	102	46.0	317	519	487	26797
1934	824	1680	1990	7740	904	655	1590	11300	601	71.0	6380	1300	35035
1935	178	9700	482	4520	100400	29920	13050	650	28490	4270	5380	3700	200740
1936	3050	1260	2580	1070	10880	893	1450	1920	785100	19450	6700	10060	844413
1937	7730	6810	6170	4220	15930	30950	840	489	772	431	1210	10460	86012
1938	12580	5160	5050	36470	3600	7420	131400	2970	2150	1700	2050	3970	214520
1939	3810	3210	2960	2880	17150	1040	1260	7050	689	906	1090	1710	43755
1940	2220	3720	1620	5210	5710	34660	3310	5450	6070	1770	3580	3720	77040
1941	1810	3870	14910	21790	50410	67350	12350	11740	8400	24900	14090	11070	242690
1942	7690	6590	5840	8030	5870	880	371	55330	14320	9620	8500	6320	129361
1943	7030	3610	5100	2300	5560	1200	871	569	295	744	672	2460	30411
1944	3890	4530	4070	319	2120	4610	316	446	15080	1680	1090	1700	39851
1945	3220	2320	1920	6100	875	204	67200	367	1110	4200	2070	1910	91496
1946	4240	436	705	4180	260	168	105	92.0	33720	7120	2250	12080	65356
1947	4590	1560	1060	781	22030	3620	319	196	84.0	431	121	247	35039
1948	136	1160	655	362	2990	6130	103800	338	6600	876	826	734	124607
1949	1220	1430	4240	95430	31620	10220	355	564	618	9140	1730	1780	158347
1950	2310	1300	394	3990	4880	682	369	1080	18590	737	313	479	35124
1951	402	563	404	288	2780	705	149	4930	64.0	86.0	97.0	102	10570
1952	148	83.0	121	114	226	45.0	94.0	45.0	18.0	4.80	14.0	47.0	960
1953	44.0	38.0	7620	43.0	8150	9.5	2460	12740	5120	13060	161	82.0	49528
1954	109	81.0	87.0	19340	15620	11710	63.0	34.0	32.0	382	117	45.0	47620
1955	14.0	28.0	123	18.0	746	688	21310	12790	244	216	157	159	36493
1956	208	139	145	1870	4010	73.0	1070	1640	189	5380	124	141	14989
1957	256	283	177	93310	245000	20450	1540	946	1190	93290	4250	3000	463692
1958	2730	3920	3040	2200	2990	30550	716	291	9010	3300	2680	3090	64517
1959	1450	214	280	652	961	5390	11260	661	22850	163500	5830	5180	218228
1960	7080	6280	4440	2580	955	572	506	611	248	1580	283	649	25784
1961	2400	2540	919	365	632	16980	2220	421	5450	11380	2930	3340	49577
1962	2250	927	1520	1390	247	457	679	850	775	458	124	305	9982
1963	52.0	108	89.0	681	1180	691	814	197	174	13.0	198	7.50	4205
1964	81.0	71.0	144	114	580	6.40	6.60	229	71.0	7.30	235	423	1968

COLORADO RIVER BASIN  
08136000 Concho River at San Angelo, Texas—Continued

DISCHARGE IN ACRE-FOOT

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	189	450	276	153	518	156	725	62.0	67.0	56.0	47.0	177	2876
1966	56.0	17.0	47.0	71.0	273	9.3	14.0	1230	789	394	164	19.0	3083
1967	9.9	4.90	53.0	5.50	227	137	66.0	49.0	1340	8.60	150	56.0	2107
1968	224	52.0	284	415	403	170	81.0	40.0	51.0	22.0	239	19.0	2000
1969	14.0	11.0	90.0	477	696	6.00	4.30	36.0	333	967	107	424	3165
1970	42.0	27.0	259	71.0	188	10.0	6.30	10.0	212	118	6.30	6.60	956
1971	4.10	3.40	3.10	461	5.10	5.40	408	2110	392	424	194	43.0	4053
1972	7.00	5.00	6.00	4.00	478	673	61.0	830	506	726	232	2.18	3746
1973	190	360	255	158	8.60	201	390	63.0	1070	310	404	5.90	3415
1974	5.40	5.50	7.90	212	1090	70.0	791	867	1550	12930	25810	16840	60177
1975	11980	11810	3600	3190	27330	2190	2560	2000	2280	1740	1980	1230	71890
MAX	12580	11810	33000	235000	245000	67600	131400	55330	785100	163500	25810	16840	844413
MIN	3.40	3.40	3.10	4.00	5.10	5.40	4.30	10.0	18.0	4.80	6.30	5.90	956
MEAN	2599	2348	3022	12496	17311	7873	8609	3193	18149	11206	2700	2853	92359
NO.	60	60	60	60	60	60	60	60	60	61	61	61	60
DISTR OF MEAN	2.6x	2.5x	3.3x	13.5x	18.7x	8.5x	9.3x	3.5x	19.7x	12.1x	2.9x	3.1x	100x

COLORADO RIVER BASIN  
08136500 Concho River at Paint Rock, Texas

LOCATION: Lat 31°30'57", long 99°55'09", Concho County, at the bridge on U.S. Highway 83, 0.5 mi (0.8 km) north of the Concho County Courthouse in Paint Rock, and 2.7 mi (4.3 km) downstream from Kickapoo Creek.

DRAINAGE AREA: 6,415 mi<sup>2</sup> (16,615 km<sup>2</sup>), of which 1,283 mi<sup>2</sup> (3,323 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1915 to December 1975. Prior to October 1970, published as "near Paint Rock".

GAGE: Water-stage recorder with masonry dam control. Datum of gage is 1,574.36 ft (479.865 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 61 years, 127,144 ac-ft/yr (156.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-75): Maximum discharge, 301,000 ft<sup>3</sup>/s (8,520 m<sup>3</sup>/s) Sept. 17, 1936 (gage height, 43.4 ft or 13.23 m, from floodmarks); no flow at times.

Maximum stage since at least 1853, that of Sept. 17, 1936.

REMARKS: Records good. There are many diversions above the station for irrigation and municipal water supply. Regulation is the same as that for the Concho River at San Angelo (station 08136000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	7440	4900	5940	-
1916	5120	3780	1730	6960	2030	311	2,000	0	10500	3730	1320	1730	37213
1917	2160	1470	1040	15600	2980	3110	4,000	1380	6960	18.4	6.55	3.07	34732
1918	1.23	1.67	32.0	18.4	22800	17400	217	15.4	407	62100	22700	1910	127603
1919	4850	2220	31700	28900	46500	113000	37700	7560	14200	94800	8270	6090	395790
1920	6270	5360	3280	904	750	8810	658	12700	4690	2900	3580	2900	52802
1921	2640	1670	2590	1500	904	6960	235	124	3110	13.1	19.0	49.0	19814
1922	88.9	401	54.0	231000	104000	8170	34000	40.5	29.4	16.1	2980	1670	382450
1923	1800	4080	3960	9670	3140	341	321	2660	16600	12600	9460	6110	70742
1924	5590	4630	5440	27300	31600	7290	56.5	785	7840	10100	2350	6760	109742
1925	2990	2160	523	66400	131000	20300	2980	10100	12000	4920	3990	3760	261123
1926	4470	2910	39000	69000	14900	7330	1010	3830	4620	8720	2090	10400	168280
1927	4250	5340	6380	4750	6050	1950	957	71.6	6370	43700	1580	2470	83869
1928	2960	1770	1620	893	15700	29300	26000	5390	4610	2360	3170	3260	97033
1929	2400	1960	6330	15500	13700	1010	31.0	0	9040	20200	1580	1300	73071
1930	1710	1110	621	2960	27900	52400	149	41.0	1280	234000	7860	7750	337781
1931	4650	10500	4570	4580	3210	1860	3640	1460	364	2950	934	670	39388
1932	2890	3200	2280	7620	164000	18700	32100	1490	67200	9590	8270	9650	326990
1933	8610	6160	5870	2650	7690	555	52.0	111	7.70	122	536	571	32935
1934	941	2250	2480	27100	1780	381	0	9840	541	0	9000	1520	55833
1935	318	12580	682	18290	149200	40220	17460	944	66610	4530	4450	5030	320314
1936	3480	1660	2810	691	12950	1830	4420	445	1025000	32170	11030	12750	1109236
1937	11270	9040	8320	5000	15290	41530	2620	1330	1460	3580	2150	10360	110350
1938	10770	5810	5930	39960	5220	6030	216400	5330	2880	3000	3000	4340	309570
1939	5320	3630	3570	2270	22070	864	1450	14380	460	1130	1290	2070	58524
1940	2270	5270	1660	16360	10370	40820	5600	5000	7210	2180	3800	4320	104860
1941	2320	4810	15700	23110	60210	73000	12810	13490	9720	27420	14550	12660	269800
1942	8080	7530	7310	9940	14220	1320	458	60260	17110	10270	8660	7120	152278
1943	7390	4610	5890	3530	5480	1540	709	78.0	427	582	859	2980	34075
1944	4950	5250	4620	634	7080	4640	61.0	2290	20410	7740	1760	2280	61715
1945	3540	2870	2260	7990	1220	162	87570	813	951	4840	2220	2400	116836
1946	4500	1320	1010	3110	2910	438	57.0	7.70	38660	8490	3280	13510	77293
1947	5110	2350	1730	3090	42410	4800	497	51.0	14.0	2130	218	861	63261
1948	392	1130	973	1010	6240	6820	121700	315	5150	1100	1010	1030	146870
1949	1780	1800	12670	126800	59640	10530	392	182	1420	14290	1900	1830	233234
1950	2750	1850	572	3520	7060	1160	412	789	23890	1270	608	742	44623
1951	669	847	376	174	3280	715	50.0	5900	32.0	3.60	0	0	12047
1952	14.0	62.0	13.0	948	4800	2930	1.60	0	1110	14.0	6.50	7.30	9906
1953	12.0	11.0	12860	30.0	8650	12.0	2080	15580	5240	15700	394	128	60697
1954	219	109	15.0	23750	36290	12640	662	1.00	0	0	0	0	73686
1955	0	0	0	0	22110	11000	31440	10770	6.10	238	18.0	12.0	75594
1956	190	193	6.70	37.0	13040	97.0	49.0	850	346	10470	1670	210	27159
1957	220	167	1120	100900	292400	34270	1450	103	3810	99940	5520	4000	543900
1958	3840	5640	3910	2710	4240	36060	436	15.0	8310	2810	2780	2300	73051
1959	1320	67.0	7.30	352	1730	11180	20260	182	16150	202700	8080	6050	268078
1960	9120	7810	6070	13670	2110	1560	498	648	581	7890	1410	1660	53027
1961	4530	3370	1950	607	2440	18470	3570	600	7150	15820	4080	3920	66507
1962	3580	2030	2210	1440	443	1020	1300	489	739	780	625	891	15547
1963	758	473	99.0	54.0	6960	1540	28.0	1380	146	17.0	298	520	12273
1964	345	404	248	219	851	839	6.10	3490	2930	155	596	595	10678

COLORADO RIVER BASIN  
08136500 Concho River at Paint Rock, Texas—Continued

DISCHARGE IN ACRE-FEET													
YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	430	699	221	58.0	13330	4010	6.20	6.20	0	0	0	0	18760
1966	0	231	2060	2650	6080	15.0	0	2390	6020	896	360	207	20909
1967	173	35.0	65.0	46.0	483	0	970	30.0	9120	277	468	578	12245
1968	1450	904	1470	3160	5120	1430	320	50.0	240	397	688	769	15998
1969	545	384	628	5860	7370	1300	259	236	3610	3180	2300	3560	29232
1970	2750	2390	3680	2340	3340	1450	231	274	1140	1530	1110	1060	21295
1971	846	685	390	1460	1030	299	541	17640	6470	4040	3140	3180	39721
1972	2750	2460	1150	674	1730	1850	572	3050	2290	2730	2720	2210	24186
1973	2500	2450	2430	1660	966	993	348	1240	2870	2450	1770	1100	20777
1974	1220	539	262	117	2790	289	0	1610	3390	13530	36590	22560	82897
1975	16850	16820	7490	4650	50630	4690	5400	2970	3800	3810	5690	3730	126530
MAX	16850	16820	39000	231000	292400	113000	216400	60260	1025000	234000	36590	22560	1109236
MIN	0	0	0	0	443	0	0	0	0	0	0	0	9906
MEAN	3216	3021	4066	15943	25240	11408	11387	3880	24621	16924	3864	3574	127144
NO.	60	60	60	60	60	60	60	60	60	61	61	61	60
DISTR													
OF MEAN	2.5%	2.4%	3.2%	12.5%	19.9%	9.0%	9.0%	3.1%	19.4%	13.3%	3.0%	2.8%	100%

COLORADO RIVER BASIN  
08136700 Colorado River near Stacy, Texas

LOCATION: Lat 31°29'37", long 99°34'26", Coleman-McCulloch County line, at the bridge on Farm Road 503, 1.2 mi (1.9 km) upstream from Bois d'Arc Creek, 1.8 mi (2.9 km) northeast of Stacy, and 24 mi (39 km) downstream from the Concho River.

DRAINAGE AREA: 24,040 mi<sup>2</sup> (62,200 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1968 to December 1975. Prior to October 1970, published as "at Stacy".

GAGE: Water-stage recorder. Datum of gage is 1,394.66 ft (425.092 m) above mean sea level.

AVERAGE DISCHARGE: 8 years, 170,518 ac-ft/yr (210.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 22,200 ft<sup>3</sup>/s (629 m<sup>3</sup>/s) Sept. 19, 1974 (gage height, 16.68 ft or 5.084 m); no flow June 22 to Aug. 3, 1974.

Maximum discharge since at least 1882, 358,000 ft<sup>3</sup>/s (10,100 m<sup>3</sup>/s) Sept. 18, 1936 (gage height, 64.59 ft or 19.687 m).

REMARKS: Records good. There are many diversions above the station for municipal, irrigation, and oilfield operations. The flow is partly regulated by eight major reservoirs with a combined capacity of 2,120,000 ac-ft (2,613.96 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	25390	72200	14200	8240	2120	991	895	1840	3260	-
1969	2060	1770	3040	12660	74820	16760	867	1000	32120	9290	9370	22360	186117
1970	18100	10810	39340	12620	28620	13110	1210	521	4070	2950	2390	2470	136211
1971	2680	1800	971	3580	1920	17830	16150	64700	40970	35700	10080	10120	206501
1972	8170	6890	4400	2410	9650	4790	1850	6770	3230	7870	9370	6910	72310
1973	7680	8480	8580	18100	8320	18560	8460	4650	8650	7840	3090	2640	105050
1974	3420	1570	1860	465	7230	475	0	8520	75170	62770	79950	34560	275990
1975	28900	36960	16190	11830	68460	15680	10660	5190	5540	5660	11060	6160	222290
MAX	28900	36960	39340	25390	74820	18560	16150	64700	75170	62770	79950	34560	275990
MIN	2060	1570	971	465	1920	475	0	521	991	895	1840	2470	72310
MEAN	10144	9754	10626	10882	33903	12676	5930	11684	21343	16622	15894	11060	170518
NO.	7	7	7	8	8	8	8	8	8	8	8	8	7
DISTR													
OF MEAN	5.9%	5.7%	6.2%	6.4%	19.9%	7.4%	3.5%	6.9%	12.5%	9.7%	9.3%	6.5%	100%

COLORADO RIVER BASIN

08136900 Mukewater Creek Subwatershed No. 10A near Trickham, Texas

LOCATION: Lat 31°29'01", long 99°13'30", Coleman County, near the center of the dam on Mukewater Creek, 1.8 mi (2.9 km) upstream from East Fork, and 4.3 mi (6.9 km) north of Trickham.

DRAINAGE AREA: 21.8 mi<sup>2</sup> (56.5 km<sup>2</sup>), of which 6.5 mi<sup>2</sup> (16.8 km<sup>2</sup>) is above sites 5, 5-A, and 6.

PERIOD OF RECORD: May 1965 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 1,462.00 ft (445.62 m) above mean sea level, datum of 1929.

AVERAGE INFLOW: 9 years, 2,736 ac-ft/yr (3.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-73): Maximum inflow, 1,540 ft<sup>3</sup>/s (43.6 m<sup>3</sup>/s), average for 5-minute interval, Mar. 20, 1968, computed from the change in pool contents and adjusted for outflow and rainfall on the pool surface during the times of peak inflow; no inflow most of the time each year.

REMARKS: Records fair. The dam was completed in March 1965 and storage began in April 1965. The pool is formed by a rolled-fill earthen dam 3,190 ft (972 m) long, including a 400-foot (122-m) wide emergency spillway. The outlet structure is a 3.5- by 11.0-foot (1.1- by 3.4-m) concrete drop inlet connected to a 42-inch (1,066-millimeter) concrete outlet pipe. The top of the structure is open and at 12.68 ft (3.88 m) gage height. There are four 5.25-foot (1.60-m) rectangular notches in the drop inlet, two on each side divided by a 6-inch (152-millimeter) concrete web, with crests at 8.68 ft (2.65 m) gage height. In addition, there are six portholes in the drop inlet, 2 ft (0.6 m) wide by 1 ft (0.3 m) high, the bottoms being at 5.02 ft (1.53 m) gage height. A 12-inch (305-millimeter) controlled water-supply outlet pipe, invert at gage height, 1.18 ft (0.36 m), is connected to the drop inlet. The pool capacity is 3,022 ac-ft (3.73 hm<sup>3</sup>) at the emergency spillway crest; 548 ac-ft (0.676 hm<sup>3</sup>) at the crest of the drop inlet; 290 ac-ft (0.284 hm<sup>3</sup>) at the bottom of the portholes; and 78.1 ac-ft (0.098 hm<sup>3</sup>) at the invert of an 8-inch (203-millimeter) controlled outlet pipe.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	-	-	4150	26.8	0	.10	0	.60	60.3	4.30	-
1966	2.90	5.60	3.30	107	164	87.7	2.80	43.3	612	9.1	2.50	1.40	1042
1967	1.00	.70	1.80	4.10	592	91.6	192	39.5	1595	1.40	30.4	4.90	2554
1968	3340	79.0	1870	621	637	926	47.1	67.6	.80	0	4.40	16.6	7609
1969	.20	.80	10.4	4.10	84.3	125	3.60	3.70	858	74.1	5.20	208	1377
1970	49.6	86.5	108	15.5	106	261	.30	89.4	56.2	2.60	0	1.00	776
1971	.10	2.30	0	5.00	12.2	1.90	2.50	814	2590	1440	.70	21.2	4890
1972	6.00	4.40	0	172	50.7	6.30	.20	.10	.30	28.6	.60	.30	269
1973	3.00	19.6	10.7	628	35.4	10.8	.80	.10	4.00	-	-	-	-
MAX	3340	86.5	1870	628	4150	926	192	814	2590	1440	60.3	208	7609
MIN	.10	.70	0	4.10	12.2	1.90	0	.10	0	0	0	.30	269
MEAN	425	24.9	251	195	648	171	27.7	118	635	195	13.0	32.2	2736
NO.	8	8	8	8	9	9	9	9	9	8	8	8	7
DISTR													
OF MEAN	15.5%	.9%	9.2%	7.1%	23.7%	6.2%	1.0%	4.3%	23.2%	7.1%	.5%	1.2%	100%

COLORADO RIVER BASIN

08137000 Mukewater Creek Subwatershed No. 9 near Trickham, Texas

LOCATION: Lat 31°41'36", Long 99°12'12", Coleman County, near center of the dam on a tributary to East Fork Mukewater Creek, 1.5 mi (2.4 km) upstream from the mouth, 4.5 mi (7.2 km) southwest of Bangs, and 7.1 mi (11.4 km) north of Trickham.

DRAINAGE AREA: 4.02 mi<sup>2</sup> (10.41 km<sup>2</sup>).

PERIOD OF RECORD: January 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,500.01 ft (457.203 m) above mean sea level, datum of 1929.

AVERAGE INFLOW: 15 years, 609 ac-ft/yr (0.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1961-75): Maximum inflow, 1,630 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s), average for 5-minute interval, June 3, 1961, computed from change in pool contents and adjusted for outflow and rainfall on the pool surface during time of peak inflow; no inflow most of the time each year.

REMARKS: Records good. The pool is formed by a rolled earthfill dam 2,070 ft (631 m) long, with a 160-foot wide (48-m) earthen spillway at the right end of the dam. The crest of the emergency spillway is at gage height 27.1 ft (8.26 m). The dam was completed in November 1960. The outlet structure consists of a 2-by 4-foot (0.6-by 1-m) uncontrolled concrete drop-inlet structure that is connected to a 10-inch (483-millimeter) concrete outlet pipe. There are four openings in the top of the drop inlet; the dimensions are 1 by 2 ft (0.3 by 0.6 m) at the upstream and downstream sides, and 1 by 4 ft (0.3 by 1 m) on the right and left sides; the crest of these openings is at gage height 18.2 ft (5.55 m). There is also a sluice gate at the end of an 8-inch (203-millimeter) pipe that is connected to the upstream side of the drop-inlet structure. The gage height at the invert of an 8-inch (203-millimeter) pipe is 10.7 ft (3.28 m).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	27.2	71.1	.30	.40	15.6	51.3	31.2	0	2.70	13.6	.70	.80	677
1962	0	0	.80	3.60	.30	34.0	2.30	.60	15.1	64.8	.20	.40	122
1963	0	.60	.70	1.70	130	97.3	.20	1.10	1.00	8.20	61.7	.80	303
1964	32.5	19.6	8.40	350	.40	.80	.20	.50	113	2.60	330	2.90	861
1965	3.50	40.6	2.30	2.40	861	32.9	0	.70	.40	2.70	83.0	5.80	1035
1966	3.40	5.20	3.90	35.5	49.2	26.6	0	5.10	83.1	0	.10	.10	212
1967	0	.90	1.30	1.00	189	44.4	47.5	4.60	406	1.10	7.90	3.90	708
1968	566	9.9	423	11.9	25.7	87.5	2.30	4.00	3.30	0	1.30	7.60	1142
1969	0	.40	10.7	4.00	25.8	121	.90	25.7	252	23.8	4.40	52.5	521
1970	.10	23.4	17.0	0	21.7	80.1	0	11.5	10.4	2.90	0	.60	168
1971	0	1.00	0	1.10	4.90	1.30	1.30	137	528	201	3.10	16.1	895
1972	3.10	2.40	0	60.1	34.5	1.70	2.70	18.4	6.50	21.9	.80	1.60	154
1973	4.80	12.6	6.40	178	.10	1.90	2.10	0	11.3	291	.20	0	508
1974	0	.80	.10	1.60	23.4	0	.30	10.8	410	435	19.1	5.10	906
1975	3.70	29.7	1.80	11.9	616	42.2	204	1.80	1.30	1.20	2.80	2.00	918
MAX	566	71.1	423	350	861	513	204	137	528	435	330	52.5	1142
MIN	0	0	0	0	.10	0	0	0	.40	0	0	0	122
MEAN	43.0	14.5	31.8	44.2	133	72.3	19.7	14.8	123	71.3	34.4	6.68	609
NO.	15	15	15	15	15	15	15	15	15	15	15	15	15
DISTR OF MEAN	7.1%	2.4%	5.2%	7.3%	21.9%	11.9%	3.2%	2.4%	20.2%	11.7%	5.6%	1.1%	100%

COLORADO RIVER BASIN  
08137500 Mukewater Creek at Trickham, Texas

LOCATION: Lat 31°35'24", long 99°13'36", Coleman County, at Trickham, 750 ft (229 m) upstream from the bridge on Farm Road 1176, 2.9 mi (4.7 km) upstream from Hay Creek, 6.9 mi (11.1 km) upstream from the mouth, and 11.8 mi (19.0 km) southeast of Santa Anna.

DRAINAGE AREA: 70.0 mi<sup>2</sup> (181 km<sup>2</sup>).

PERIOD OF RECORD: September 1951 to September 1973.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,394.64 ft (425.06 m) above mean sea level.

AVERAGE DISCHARGE: 23 years, 7,401 ac-ft/yr (9.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1951-73): Maximum discharge, 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) May 1, 1956, gage height, 15.83 ft (4.82 m); no flow at times.

Maximum stage since at least 1919, 18 ft (5 m) in 1927, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	-	-	-	-	-	-	-	-	0	0	0	0	-
1952	0	0	0	689	2160	10.0	0	0	541	0	357	145	3902
1953	5.40	0	740	225	1300	38.0	47.0	197	0	1860	0	0	4412
1954	0	0	628	973	694	13.0	3.20	7.50	0	18.0	183	0	2520
1955	0	121	114	0	7630	3580	3430	217	1870	.80	0	0	16963
1956	0	0	0	383	8090	0	0	10.0	26.0	261	181	0	8951
1957	0	0	323	7620	10020	754	29.0	0	32.0	453	148	5.60	19385
1958	18.0	627	444	146	420	243	0	384	0	0	0	0	2282
1959	0	0	0	17.0	49.0	8400	7510	8.30	0	2030	1.80	30.0	18046
1960	1400	250	22.0	708	34.0	.20	0	35.0	0	0	0	0	2449
1961	686	1030	12.0	0	28.0	4580	363	0	0	215	0	0	6914
1962	0	0	0	0	0	57.0	46.0	0	92.0	589	0	0	784
1963	0	0	0	0	2540	1690	0	0	0	0	520	0	4750
1964	182	143	15.0	4110	80.0	28.0	0	0	942	80.0	2960	96.0	8636
1965	45.0	368	37.0	0	10440	335	0	0	0	0	267	0	11492
1966	0	0	0	56.0	464	5.20	0	129	1790	493	0	0	2937
1967	0	0	0	0	2990	108	305	.30	4250	272	194	52.0	8171
1968	8700	688	6710	600	1570	2040	79.0	69.0	0	0	0	0	20456
1969	0	0	26.0	0	783	277	0	0	1750	333	151	4.62	3782
1970	270	262	702	85.0	318	990	0	0	31.0	0	0	0	2658
1971	0	0	0	0	65.0	.04	0	1320	6130	2760	166	163	10604
1972	48.0	14.0	0	620	192	1.00	0	0	0	0	0	0	875
1973	0	29.0	9.1	2530	37.0	1.80	0	0	0	-	-	-	-
MAX	8700	1030	6710	7620	10440	8400	7510	1320	6130	2760	2960	462	20456
MIN	0	0	0	0	0	0	0	0	0	0	0	0	784
MEAN	516	161	445	853	2268	1052	537	108	759	426	233	43.3	7401
NO. OF MEAN	22	22	22	22	22	22	22	22	23	22	22	22	21
DISTR													
OF MEAN	7.0%	2.2%	6.0%	11.5%	30.6%	14.2%	7.3%	1.5%	10.3%	5.8%	3.1%	.6%	100%



COLORADO RIVER BASIN

08138000 Colorado River at Winchell, Texas

LOCATION: Lat 31°28'04", long 99°09'43", McCulloch-Brown County line, at the bridge on U.S. Highway 377, 0.3 mi (0.5 km) south of Winchell, and 5.9 mi (9.5 km) downstream from Home Creek.

DRAINAGE AREA: 24,580 mi<sup>2</sup> (63,660 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1923 to September 1934 (published as "near Milburn"), February 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,264.86 ft (385.529 m) above mean sea level, datum of 1929. November 1923 to September 1934, nonrecording gage at site 4.2 mi (6.8 km) downstream at datum 10.14 ft (3.091 m) lower. Jan. 13, 1939 to Mar. 24, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 40 years (1923-34, 1939-75), 416,744 ac-ft/yr (513.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-34, 1939-75): Maximum discharge, 76,100 ft<sup>3</sup>/s (2,160 m<sup>3</sup>/s) Oct. 15, 1930 (gage height, 51.8 ft or 15.79 m, present site and datum); no flow at times.

Highest stage since 1882, 62.2 ft (18.96 m), Sept. 19, 1938 at a railway bridge 1,000 ft (305 m) upstream and converted to present site and datum, from information by the Gulf, Colorado, and Santa Fe Railway Co.

REMARKS: Records good. There are many diversions above the station for irrigation, municipal water supply, and oilfield operation. The flow is partly regulated by eight major reservoirs with a combined capacity of 2,120,000 ac-ft (2,613.96 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	293 00	-
1924	11100	8240	15400	66100	150000	26200	534	771	27900	36200	2680	11100	356225
1925	3630	2410	1120	130000	160000	132000	9280	49700	138000	35600	5860	4610	672210
1926	14000	3280	79300	147000	45000	99400	22700	49100	147000	98500	5360	63900	774540
1927	7260	12300	22900	46200	19000	23700	58200	9340	39500	117000	2080	2590	360070
1928	4190	3920	2320	10400	213000	97000	198000	80600	37200	3620	7800	4670	662720
1929	3690	4450	15600	39700	210000	6660	26600	345	53600	60100	10300	3760	434805
1930	2500	2450	4640	9160	265000	202000	4520	18500	6010	608000	13400	51900	1168080
1931	16500	33300	16700	12100	10500	26600	4680	2510	2890	118000	31700	6400	281880
1932	14800	19700	6150	35800	395000	120000	183000	28300	358000	28500	15800	27000	1232050
1933	21600	11300	12000	5810	81200	4840	2080	21500	13400	13500	5950	2590	195770
1934	3280	3640	10500	109000	25000	2330	2580	10500	3950	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	5630	16350	14260	117300	177500	19840	60680	1230	3660	3370	3630	-
1940	3330	12810	1950	67630	57980	172000	54190	48560	26900	5680	10240	7250	468520
1941	2800	17480	52750	175100	353900	316200	69370	47210	27970	149200	31080	21430	1264490
1942	12680	9460	9480	65130	106800	7440	5100	136900	61490	57340	13800	13370	498990
1943	10350	7060	8200	5880	27740	12550	9020	131	1930	1990	604	2970	88425
1944	9270	10640	14880	1990	85190	18580	45700	15810	54610	45780	3480	4680	310610
1945	6740	6820	8180	30830	5410	20210	291800	17560	3010	43710	4190	3840	442300
1946	6180	4350	2790	1120	77210	11100	1030	6650	101400	40900	15420	32280	300430
1947	8320	3580	4070	14270	248700	29210	4870	176	6460	37420	4690	19860	381626
1948	1630	10880	10700	5650	32180	39420	281900	16360	19230	11830	2690	1190	433660
1949	3400	6010	47220	272300	237000	60330	4270	14040	17370	35850	3380	2890	704060
1950	4100	7760	815	21880	64540	16030	13950	9140	70950	3940	459	675	214239
1951	786	785	579	388	78180	72870	12230	31490	4570	322	65.0	0	202265
1952	0	0	0	28590	79100	21410	2.20	0	90240	896	4890	1940	227068
1953	472	72.0	41820	636	48520	238	14730	113900	12100	73360	6330	688	312866
1954	399	371	1200	145400	227500	33790	10660	1590	0	199	701	32.0	421842
1955	7.10	3660	728	114	304200	151500	114600	22840	61650	25910	171	50.0	685430
1956	256	1420	96.0	5280	189300	2000	3140	4100	1010	61470	11540	4820	284432
1957	678	5730	22640	248000	855100	240400	8530	4490	35550	279100	26940	10130	1737288
1958	10430	18370	18360	13710	40460	44160	3070	3500	19110	6150	5520	3840	186680
1959	2880	833	309	17.0	9420	109600	68590	1640	3270	303700	20230	14350	534839
1960	44890	18770	10890	21800	12630	7330	7450	4210	797	66800	7600	5200	208367
1961	18030	19520	4250	1150	40500	96040	49380	5420	39000	33870	10760	8300	326220
1962	5890	3380	3230	3430	952	11260	11970	2480	94530	36060	4870	2560	180612
1963	1880	1290	613	375	68750	34230	690	2120	1170	4.60	4440	1490	117053
1964	913	3500	1760	37610	5830	10530	39.0	14520	59760	2930	15390	1830	154612
1965	1600	6260	2170	769	200700	40500	2560	1400	13660	11670	4960	1580	287629
1966	1500	1640	1730	28640	68400	22340	720	13870	51460	3780	512	756	195348
1967	893	419	2540	2670	25510	14350	26270	4550	67490	5350	3160	2660	155862
1968	105600	17510	56080	46550	114300	30190	9270	1740	1270	836	1580	3880	388806
1969	2220	2040	2900	13050	93730	21890	1630	1140	31930	10090	10200	23260	214080
1970	19150	11320	35980	11340	30780	13470	777	45.0	2730	2330	1600	1770	131292
1971	1980	1220	716	2740	1960	14830	23410	71590	89330	58010	13580	13900	293266
1972	8810	6440	3110	2080	9250	3430	1090	6030	3620	7280	8550	5060	64750

COLORADO RIVER BASIN  
08138000 Colorado River at Winchell, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1973	6440	7030	7600	31440	7150	19790	4780	2630	10540	34200	3150	2460	137210
1974	2740	1500	969	89.0	10610	564	0	16730	97310	88270	90120	33770	342672
1975	31210	42550	15690	15150	81100	20610	13830	3700	3770	4080	10470	5570	247730
MAX	105600	42550	79300	272300	855100	316200	291800	136900	358000	608000	90120	63900	1737288
MIN	0	0	0	17.0	952	238	0	0	0	4.60	65.0	0	64750
MEAN	9381	7981	12499	40590	116491	55388	35472	20419	41997	56872	9823	9829	416744
NO.	47	48	48	48	48	48	48	48	48	47	47	48	46
DISTR OF MEAN	2.3%	1.9%	3.0%	9.7%	28.0%	13.3%	8.5%	4.9%	10.1%	13.6%	2.4%	2.4%	100%

COLORADO RIVER BASIN

08139000 Deep Creek Subwatershed No. 3 near Placid, Texas

LOCATION: Lat 31° 17' 25", long 99° 09' 22", McCulloch County, near the right end of the dam on a tributary to Deep Creek, and 2.8 mi (4.5 km) southeast of Placid.

DRAINAGE AREA: 3.42 mi<sup>2</sup> (8.86 km<sup>2</sup>).

PERIOD OF RECORD: October 1953 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,500.00 ft (457.200 m) above mean sea level, datum of 1929. Prior to Dec. 1, 1953, nonrecording gage at same site and datum.

AVERAGE INFLOW: 23 years, 393 ac-ft/yr (0.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1953-75): Maximum inflow, 3,060 ft<sup>3</sup>/s (86.7 m<sup>3</sup>/s), average for 5-minute interval, July 26, 1971, computed from the change in the pool contents and adjusted for outflow and rainfall on the pool surface during the times of peak inflow; no inflow most of the time each year.

REMARKS: Records good. The pool is formed by an earthfill dam comprised of two sections; the main section is 2,600 ft (792 m) long and the second section is 2,400 ft (732 m) long. An emergency spillway, 250 ft (76 m) wide, is located at the left end of the main section of the dam; the crest of the emergency spillway is at gage height 22.0 ft (6.71 m). The dam was completed and storage began in October 1953. The outlet works consist of an uncontrolled 2.5-foot (0.8-m) square concrete drop-inlet structure, gage height at crest 13.0 ft (3.96 m), connected to a 17-inch (432-millimeter) concrete outlet pipe. Invert at the bottom of the outlet pipe is at gage height 5.5 ft (1.68 m). There is also an 8-inch (203-millimeter) controlled water-supply outlet pipe connected to the drop inlet at a gage height of 5.5 ft (1.68 m). The pool capacity is 886 ac-ft (1.09 hm<sup>3</sup>) at the crest of the emergency spillway, 126 ac-ft (1.54 hm<sup>3</sup>) at the crest of the drop inlet, and 7.1 ac-ft (0.009 hm<sup>3</sup>) at the controlled outlet pipe.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	-	-	-	-	-	-	-	-	-	380	0	0	-
1954	0	0	1.00	35.0	15.0	0	0	0	.90	51.7	20.9	0	124
1955	.10	43.5	0	12.6	746	172	49.0	0	215	1.20	0	1.10	1240
1956	0	12.1	0	0	10.1	0	0	36.3	0	29.5	0	11.1	99.1
1957	0	.90	96.0	326	516	2.30	.10	0	48.7	208	19.3	0	1217
1958	26.3	62.7	92.9	.10	73.8	6.10	10.4	0	6.00	.90	4.10	.10	283
1959	0	0	0	.70	7.10	245	14.2	0	5.50	172	0	14.0	458
1960	43.9	5.40	0	12.1	11.3	0	11.3	19.2	8.70	17.6	0	38.4	168
1961	62.4	33.4	.60	0	2.70	74.2	17.7	0	.80	15.8	2.90	.40	211
1962	0	.40	.30	4.60	.40	23.1	0	0	4.00	10.8	1.20	.10	44.9
1963	.10	.10	9.2	1.80	58.6	4.90	.30	17.6	3.00	0	18.1	.40	114
1964	11.6	11.0	48.0	17.6	76.9	23.8	.10	10.8	251	7.50	18.5	0	477
1965	11.5	93.0	5.70	2.30	116	1.90	1.40	.30	1.40	16.3	4.60	4.40	259
1966	2.70	28.0	18.1	14.4	5.80	0	.10	12.3	99.1	.20	0	0	181
1967	0	.10	.10	3.40	27.3	2.40	18.2	24.4	61.6	22.6	38.7	7.80	207
1968	294	7.10	32.4	38.2	46.0	36.4	1.40	4.00	22.6	.10	5.40	.60	488
1969	.80	.70	3.30	43.2	147	6.00	.90	46.3	54.4	64.4	10.1	44.5	422
1970	15.6	12.8	68.3	14.4	17.6	.60	0	3.00	3.40	0	0	0	136
1971	0	1.10	0	.50	2.50	7.00	466	557	137	142	4.70	13.0	1331
1972	2.70	3.70	0	1.60	10.4	.10	.10	1.40	2.30	4.10	1.10	0	27.5
1973	2.00	1.60	.70	32.9	.40	15.0	5.90	0	47.0	72.3	1.10	0	179
1974	0	1.80	.60	1.20	17.1	1.60	3.80	118	117	16.0	11.3	6.50	295
1975	4.70	30.3	5.80	102	201	4.90	12.4	1.50	.70	1.70	4.00	1.10	370
MAX	294	93.0	96.0	326	746	245	466	557	251	380	38.7	44.5	1331
MIN	0	0	0	0	.40	0	0	0	0	0	0	0	27.5
MEAN	21.7	15.9	17.4	30.2	95.9	28.5	27.9	38.7	49.5	53.7	7.22	6.24	393
NO.	22	22	22	22	22	22	22	22	22	23	23	23	22
DISTR													
OF MEAN	5.5%	4.0%	4.4%	7.7%	24.4%	7.3%	7.1%	9.9%	12.6%	13.7%	1.8%	1.6%	100%

COLORADO RIVER BASIN

08139200 Deep Creek Subwatershed No. 5 near Placid, Texas

LOCATION: Lat 31°20'08", long 99°07'17", McCulloch County, near the center of the dam on a tributary to Deep Creek, 0.6 mi (0.96 km) upstream from the mouth, and 3.9 mi (6.3 km) northeast of Placid.

DRAINAGE AREA: 5.27 mi<sup>2</sup> (13.6 km<sup>2</sup>).

PERIOD OF RECORD: October 1960 to September 1962.

GAGE: Water-stage recorder. Datum of gage is 1,441.56 ft (439.4 m) above mean sea level, datum of 1929.

REMARKS: Records poor. The reservoir is formed by an earthfill dam 3,042 ft (927.2 m) long, with an emergency spillway 300 ft (91.4 m) wide excavated from natural ground at the right end of the dam. Storage began in October 1953. Gage height of the emergency spillway is 25.7 ft (7.8 m). The outlet structure is a 2.5 ft (0.8 m) square concrete drop outlet (gage height of the crest, 10.0 ft or 3.0 m) connected to a 17-inch concrete outlet pipe at gage height 0.0 ft. There is also an 8-inch controlled water-supply outlet pipe connected to the drop outlet at gage height 0.0 ft. The reservoir capacity is 1,321 ac-ft (1.8 hm<sup>3</sup>) at the spillway crest, 163 ac-ft (0.2 hm<sup>3</sup>) at the top of the outlet structure.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	-	-	-	-	-	-	-	1.80	0	18.5	-
1961	37.5	77.8	2.90	0	0	21.9	0	0	2.90	18.2	.50	.40	162
1962	1.60	1.40	.40	.80	2.20	6.60	.10	.70	1.00	-	-	-	-
MAX	37.5	77.8	2.90	.80	2.20	21.9	.10	.70	2.90	18.2	.50	18.5	162
MIN	1.60	1.40	.40	0	0	6.60	0	0	1.00	1.80	0	.40	162
MEAN	19.5	39.6	1.65	.40	1.10	14.2	.05	.35	1.95	10.0	.25	9.4	98.9
NO.	2	2	2	2	2	2	2	2	2	2	2	2	1
DISTR													
OF MEAN	19.9%	40.2%	1.7%	.4%	1.1%	14.5%	.1%	.4%	2.0%	10.2%	.3%	9.6%	100%

COLORADO RIVER BASIN  
08139500 Deep Creek near Mercury, Texas

LOCATION: Lat 31°24'08", long 99°07'17", McCulloch County, at the bridge on Farm Road 502, 1.5 mi (2.4 km) upstream from Dry Prong Deep Creek, and 2.3 mi (3.7 km) southeast of Mercury.

DRAINAGE AREA: 43.9 mi<sup>2</sup> (114 km<sup>2</sup>).

PERIOD OF RECORD: October 1953 to September 1973.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,325.64 ft (404.06 m) above mean sea level, datum of 1929. Prior to Nov. 25, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 21 years, 4,410 ac-ft/yr (5.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1953-73): Maximum discharge, 5,500 ft<sup>3</sup>/s (156 m<sup>3</sup>/s) Oct. 4, 1953, gage height, 18.27 ft (5.57 m), from floodmarks; no flow most of the time.

Maximum stage since at least 1890, 21.3 ft (6.5 m) July 23, 1938, discharge, 33,800 ft<sup>3</sup>/s (952 m<sup>3</sup>/s), by slope-area measurement of the peak flow.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	-	-	-	-	-	-	-	-	-	4680	0	0	-
1954	0	0	0	626	291	0	0	0	32.0	377	105	0	1431
1955	0	264	0	20.0	10230	1850	836	201	2420	8.90	0	0	15830
1956	0	99.0	0	0	314	0	0	722	3.00	81.0	.80	63.0	1283
1957	0	0	666	2760	7630	81.0	0	0	0	1880	979	.40	13996
1958	290	773	1050	0	1010	2.00	0	15.0	0	0	.40	0	3140
1959	0	0	0	0	70.0	1950	244	3.20	1.80	2500	0	70.0	4839
1960	439	17.0	0	.40	22.0	0	38.0	126	66.0	93.0	1.60	4.35	1240
1961	496	255	0	0	5.00	525	115	0	0	183	.60	0	1580
1962	0	0	0	16.0	0	11.0	0	0	26.0	226	0	0	279
1963	0	0	0	60.0	1470	17.0	0	1.40	171	0	155	0	1874
1964	72.0	113	437	247	988	243	0	31.0	4150	84.0	122	0	6487
1965	42.0	627	0	0	1390	61.0	0	0	0	39.0	0	0	2159
1966	0	135	55.0	51.0	2.40	0	0	145	1060	0	0	0	1448
1967	0	0	0	2.20	254	0	21.0	266	1290	138	190	0	2161
1968	3720	45.0	615	667	606	269	0	0	35.0	0	0	0	5957
1969	0	0	0	224	1390	0	3.60	531	926	439	29.0	2.37	3780
1970	23.0	34.0	7.90	119	151	49.0	0	3.50	0	0	0	0	387
1971	0	0	0	0	9.1	1.20	4100	7370	805	1340	145	2.25	13995
1972	62.0	31.0	6.00	0	29.0	9.00	0	0	0	0	0	0	137
1973	0	0	0	307	0	178	335	.60	698	-	-	-	-
MAX	3720	773	1050	2760	10230	1950	4100	7370	4150	4680	979	4.35	15830
MIN	0	0	0	0	0	0	0	0	0	0	0	0	137
MEAN	257	120	142	255	1293	262	285	471	584	603	86.4	51.5	4410
NO.	20	20	20	20	20	20	20	20	20	20	20	20	19
Q15TR													
OF MEAN	5.8x	2.7x	3.2x	5.8x	29.3x	5.9x	6.5x	10.7x	13.2x	13.7x	2.0x	1.2x	100x

COLORADO RIVER BASIN

08140000 Deep Creek Subwatershed No. 8 (Dry Prong Deep Creek) near Mercury, Texas

LOCATION: Lat 31°23'58", long 99°08'14", McCulloch County, near center of the dam on Dry Prong Deep Creek, 1.9 mi (3.0 km) southeast of Mercury, and 3.5 mi (5.6 km) upstream from the mouth.

DRAINAGE AREA: 5.41 mi<sup>2</sup> (14.0 km<sup>2</sup>).

PERIOD OF RECORD: May 1952 to September 1971.

GAGE: Water-stage recorder. Datum of gage is 1,377.13 ft (419.7 m) above mean sea level.

AVERAGE INFLOW: 20 years, 682 ac-ft/yr (0.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1952-71): Maximum inflow, 5,860 ft<sup>3</sup>/s (160.3 m<sup>3</sup>/s) September 21, 1964; no inflow most of the time each year.

REMARKS: Records fair. The pool is formed by an earthfill dam 4,300 ft (1,310.6 m) long, with a grass-sodded emergency spillway 200 ft (60.96 m) wide at the right end of the dam. The dam was completed in December 1951, but no appreciable storage began before April 18, 1952. The first outflow occurred on May 24, 1952. The outlet structure consists of a 3-foot (0.9 m) square concrete uncontrolled drop-inlet structure connected to a 21-inch (0.5 m) concrete outlet pipe. The invert at the bottom of the outlet pipe is at gage height -1.0 ft (-0.3 m). The crest of the emergency spillway is at gage height 24.0 ft (7.3 m) and the crest of the drop inlet is at gage height 9.0 ft (2.7 m). The pool capacity is 1,370 ac-ft (1.69 hm<sup>3</sup>) at the spillway crest, 186 ac-ft (0.23 hm<sup>3</sup>) at the crest of the drop inlet, and 3.1 ac-ft (0.004 hm<sup>3</sup>) at the controlled outlet pipe.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	124	25.3	0	0	246	0	196	45.5	-
1953	7.70	.40	82.3	5.80	121	0	0	2.90	0	673	1.10	1.00	895
1954	.70	0	0	54.1	65.5	0	9.8	0	9.1	95.6	19.5	0	254
1955	.10	56.8	0	2.50	1150	158	39.2	14.3	400	.60	.10	0	1822
1956	0	19.4	0	1.00	61.4	0	0	131	0	13.6	0	10.7	237
1957	0	2.90	111	270	839	33.1	1.60	0	2.00	76.4	242	1.60	1580
1958	44.5	118	151	1.00	49.5	4.00	.40	13.1	.50	3.30	3.30	.70	389
1959	0	0	0	.60	9.1	224	117	.10	3.90	457	0	46.6	858
1960	119	9.5	0	3.70	3.00	.80	8.70	5.50	16.2	11.7	0	44.9	223
1961	70.3	133	0	0	7.60	88.6	14.8	0	1.90	88.9	6.30	.20	412
1962	0	0	0	21.0	6.20	1.10	0	.20	25.6	117	2.80	.50	174
1963	.40	.40	.40	38.2	178	7.30	0	3.00	18.3	0	21.6	2.50	270
1964	15.4	29.6	66.2	165	133	22.1	1.80	10.9	995	13.1	75.6	.90	1529
1965	7.30	172	1.90	1.30	186	0	0	3.20	0	7.40	3.50	5.10	388
1966	1.40	12.3	7.30	15.9	10.6	.10	0	16.6	99.4	.40	.10	.20	164
1967	.30	.10	1.10	10.9	76.0	0	21.6	51.4	357	24.3	40.2	15.1	598
1968	669	39.0	183	153	46.2	31.7	3.70	1.90	6.50	.20	5.20	1.70	1141
1969	1.00	.70	3.30	39.5	176	.40	2.60	86.9	40.0	50.8	14.0	42.5	458
1970	7.70	15.1	92.5	2.70	5.00	1.60	0	4.10	3.00	1.90	0	0	134
1971	0	1.20	0	.20	2.00	6.10	218	868	86.5	-	-	-	-
MAX	669	172	183	270	1150	224	218	868	995	673	242	46.6	1822
MIN	0	0	0	0	2.00	0	0	0	0	0	0	0	134
MEAN	49.7	32.1	36.8	41.4	162	30.2	22.0	60.7	116	86.1	33.2	11.6	682
NO.	19	19	19	19	20	20	20	20	20	19	19	19	18
DISTR													
OF MEAN	7.3%	4.7%	5.4%	6.1%	23.8%	4.4%	3.2%	8.9%	16.9%	12.6%	4.9%	1.7%	100%

COLORADO RIVER BASIN  
08140500 Dry Prong Deep Creek near Mercury, Texas

LOCATION: Lat 31°24'09", long 99°08'13", McCulloch County, at the bridge on Farm Road 502, 1.3 mi (2.1 km) southeast of Mercury, 1.7 mi (2.7 km) downstream from the floodwater-retarding reservoir, and 1.8 mi (2.9 km) upstream from the mouth.

DRAINAGE AREA: 8.31 mi<sup>2</sup> (21.5 km<sup>2</sup>).

PERIOD OF RECORD: July 1951 to September 1971.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,339.02 ft (408.1 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 21 years, 826 ac-ft/yr (1.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1951-71): Maximum discharge, 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) May 17, 1955; maximum gage height, 9.0 ft (2.7 m) May 17, 1955 and September 21, 1964; no flow for many days each year.

Maximum stage since at least 1924, that of May 17, 1955 and September 21, 1964.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1951	-	-	-	-	-	-	0	0	0	0	0	0	-
1952	0	0	0	36.0	11.0	0	0	0	41.0	0	9.1	0	97.1
1953	0	0	16.0	5.40	97.0	0	0	20.0	0	98.0	0	0	1118
1954	0	0	0	31.0	122	.20	0	0	.80	44.0	17.0	0	215
1955	0	36.0	0	0	1860	321	78.0	25.0	721	0	0	0	3041
1956	0	6.70	0	0	212	0	0	92.0	0	23.0	.20	11.0	345
1957	0	0	111	322	1100	86.0	0	0	0	57.0	311	0	1987
1958	95.0	123	145.	0	61.0	0	1.60	3.80	0	2.60	0	2.60	435
1959	0	2.40	0	2.60	8.30	214	161	1.20	1.80	693	0	45.0	1129
1960	204	15.0	0	19.0	.20	2.80	9.7	15.0	29.0	5.80	0	35.0	335
1961	37.0	240	0	2.20	16.0	82.0	153	41.0	.40	43.0	.80	0	615
1962	0	0	.20	8.50	0	1.00	0	0	.20	66.0	0	0	75.9
1963	0	0	0	15.0	207	5.60	0	6.20	40.0	0	19.0	0	293
1964	8.70	23.0	58.0	153	148	48.0	0	8.30	1500	58.0	117	0	2122
1965	1.60	264	.40	0	245	0	0	0	0	6.10	0	0	517
1966	0	5.80	7.50	20.0	9.2	0	0	25.0	117	0	0	0	184
1967	0	0	0	1.70	81.0	0	4.60	22.0	409	25.0	51.0	.20	594
1968	768	41.0	227	194	54.0	31.0	.40	0	4.00	0	0	0	1319
1969	0	0	0	26.0	249	0	0	381	79.0	65.0	8.60	52.0	861
1970	11.0	8.70	123	.40	0	0	0	2.20	0	1.30	0	0	147
1971	0	0	0	0	1.20	0	155	1100	96.0	-	-	-	-
MAX	768	264	227	322	1860	321	161	1100	1500	980	311	52.0	3041
MIN	0	0	0	0	0	0	0	0	0	0	0	0	75.9
MEAN	56.3	38.3	34.4	41.8	224	39.6	26.8	83.0	145	103	26.7	7.29	826
NC.	20	20	20	20	20	20	21	21	21	20	20	20	19
DISTR OF MEAN	6.8%	4.6%	4.2%	5.1%	27.1%	4.8%	3.2%	10.0%	17.5%	12.5%	3.2%	.9%	100%

COLORADO RIVER BASIN  
08140600 Lake Clyde near Clyde, Texas

LOCATION: Lat 32°19'05", long 99°28'43", Callahan County, at the Clyde pump station, 0.6 mi (1.0 km) west of the dam on North Prong Pecan Bayou, 2.1 mi (3.4 km) downstream from the bridge on Farm Road 604, and 7.0 mi (11.3 km) southeast of Clyde.

DRAINAGE AREA: 37.9 mi<sup>2</sup> (98.2 km<sup>2</sup>).

PERIOD OF RECORD: January 1970 to December 1975.

GAGE: Nonrecording gage. Datum of gage is at mean sea level.

EXTREMES: Period of record (1970-75): Maximum contents, 6,370 ac-ft (7.85 hm<sup>3</sup>) May 28, 1975 (elevation, 1,873.4 ft or 571.01 m); minimum contents, 2,370 ac-ft (2.92 hm<sup>3</sup>) Sept. 15-17, 1974 (elevation, 1,862.7 ft or 567.75 m).

REMARKS: The lake is formed by a rolled-fill earthen dam 4,000 ft (1,200 m) long. The first appreciable storage began in April 1970 and the dam was completed in May 1970. The emergency spillways are two 200-foot wide (61-m) cut channels through natural ground located at the left end of the dam. The service spillway is an uncontrolled 3.5- by 10.5-foot (1.1- by 3.2-m) reinforced concrete drop inlet that is connected to a 42-inch (1,067-millimeter) concrete outlet pipe. A 14-inch (356-millimeter) controlled drain pipe is connected to the drop inlet. There are four 4.83- by 3.50-foot (1.47- by 1.07-m) rectangular slots, two on each side, divided by a 10-inch (254-millimeter) concrete web. The dam is operated by the City of Clyde.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1970	541	254	788	3650	4200	3970	3680	3540	3470	3400	3240	3170
1971	3080	2980	2830	2740	2830	2770	2620	2860	3440	3560	3510	3650
1972	3650	3580	3440	3300	3200	3040	2860	2800	2710	2800	2830	2770
1973	2980	3140	3200	3200	3040	2920	2800	2590	3300	3200	3110	2950
1974	2920	2830	2740	3200	3010	2740	2450	2480	5860	6040	5720	5720
1975	5680	5680	5590	5590	5950	5540	5320	5150	4950	4740	4700	4580
MAX	5680	5680	5590	5590	5950	5540	5320	5150	5860	6040	5720	5720
MIN	541	254	788	2740	2830	2740	2450	2480	2710	2800	2830	2770
MEAN	3142	3077	3098	3613	3705	3497	3288	3237	3955	3960	3852	3807
NO.	6	6	6	6	6	6	6	6	6	6	6	6
DISTR OF MEAN	7.4%	7.3%	7.3%	8.6%	8.8%	8.3%	7.8%	7.7%	9.4%	9.4%	9.1%	9.0%



COLORADO RIVER BASIN  
08140700 Pecan Bayou near Cross Cut, Texas

LOCATION: Lat 31°58'21", Long 99°07'48", Brown County, at the bridge on State Highway 279, 1.2 mi (1.9 km) downstream from Turkey Creek, and 4.2 mi (6.8 km) south of Cross Cut.

DRAINAGE AREA: 532 mi<sup>2</sup> (1,378 km<sup>2</sup>).

PERIOD OF RECORD: May 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,453.35 ft (442.981 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 8 years, 29,874 ac-ft/yr (36.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1968-76): Maximum discharge, 7,330 ft<sup>3</sup>/s (208 m<sup>3</sup>/s) Oct. 19, 1971 (gage height, 10.68 ft or 5.998 m); no flow at times.

Flood in 1908 reached a stage of 26.5 ft (8.08 m), from information by a local resident.

REMARKS: Records good. There are several small diversions above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	15500	2840	582	83.0	.50	0	31.0	50.0	-
1969	36.0	71.0	3230	4080	23490	2400	56.0	320	7210	1870	496	8310	51569
1970	4010	2140	10100	3010	4270	4190	18.0	180	56.0	21.0	1.20	17.0	28015
1971	19.0	1.70	.30	0	343	270	0	10250	4170	8900	298	747	24999
1972	370	155	46.0	7.00	19.0	585	724	36.0	79.0	22.0	.20	0	2043
1973	110	283	443	6640	286	699	372	111	2.10	1560	30.0	.50	10537
1974	1.60	3.00	2.90	0	413	426	0	475	24600	31460	13800	1820	73201
1975	2040	12200	1450	1760	3560	761	314	2.70	0	0	0	.20	22088
MAX	4010	12200	10100	6640	23490	4190	724	10250	24800	31460	13800	8310	73201
MIN	1.60	1.70	.30	0	19.0	270	0	2.70	0	0	0	0	2043
MEAN	941	2122	2182	2214	5985	1521	258	1432	4540	5479	1832	1368	29874
NO.	7	7	7	7	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	3.1%	7.1%	7.3%	7.4%	20.0%	5.1%	.9%	4.8%	15.2%	18.3%	6.1%	4.6%	100%

COLORADO RIVER BASIN  
08140800 Jim Ned Creek near Coleman, Texas

LOCATION: Lat 31°58'59", long 99°24'52", Coleman County, 77 ft (23 m) downstream from the centerline of the bridge on U.S. Highway 283, 1.4 mi (2.3 km) downstream from Turtle Bayou, 7.4 mi (11.9 km) downstream from Lake Coleman, and 10.8 mi (17.4 km) north of Coleman.

DRAINAGE AREA: 333 mi<sup>2</sup> (862 km<sup>2</sup>), of which 299 mi<sup>2</sup> (774 km<sup>2</sup>) is above Lake Coleman.

PERIOD OF RECORD: March 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,592.31 ft (485.336 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 20,769 ac-ft/yr (25.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 5,020 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) May 6, 1969 (gage height, 9.08 ft or 2.768 m); no flow at times each year.

REMARKS: Records good. Since March 1966, when deliberate impoundment began, the flow has been largely controlled by Lake Coleman, capacity, 40,000 ac-ft (49.3 hm<sup>3</sup>) at the service spillway.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	-	-	38.0	5.60	24120	1010	9.5	0	374	133	.20	0	-
1966	0	0	0	15.1	1230	560	0	0	2400	20.0	0	0	4225
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	4170	638	4590	4230	9460	804	57.0	0	0	0	0	0	23949
1969	0	0	44.0	122	31130	1340	2.30	27.0	2190	1410	737	4490	41492
1970	5630	1190	9310	2240	12120	10310	5.60	0	0	0	0	0	40806
1971	0	0	0	0	0	0	0	2000	14230	6440	586	994	24250
1972	432	196	91.0	33.0	112	0	0	0	0	0	0	0	864
1973	0	1.20	23.0	723	23.0	0	286	1.10	0	725	.20	0	1782
1974	.30	.10	0	0	1.60	0	0	0	11630	18130	18790	1950	50502
1975	1900	8940	1090	310	234	88.0	24.0	0	0	0	0	0	12586
MAX	5630	8940	9310	4230	31130	10310	286	2000	14230	18130	18790	4490	50502
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1213	1097	1381	698	7130	1283	34.9	184	2802	2442	1828	676	20769
NO.	10	10	11	11	11	11	11	11	11	11	11	11	10
DISTR OF MEAN	5.6%	5.3%	6.6%	3.4%	34.3%	6.2%	.2%	.9%	13.5%	11.8%	8.8%	3.3%	100%

COLORADO RIVER BASIN

08141000 Hords Creek Lake near Valera, Texas

LOCATION: Lat 31°48'58", long 99°33'38", Coleman County, at the outlet works structure near the right end of the dam on Hords Creek, 5.6 mi (9.0 km) north of Valera, and 8.8 mi (14.2 km) west of Coleman.

DRAINAGE AREA: 48 mi<sup>2</sup> (124 km<sup>2</sup>).

PERIOD OF RECORD: April 1948 to December 1975. Prior to October 1970, published as "Hords Creek Reservoir".

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1948-75): Maximum contents, 12,790 ac-ft (15.8 hm<sup>3</sup>) May 1, 1956 (elevation, 1,906.86 ft or 581.211 m); minimum contents since the first appreciable storage in June 1951, 2,910 ac-ft (3.59 hm<sup>3</sup>) Sept. 19, 1964 (elevation, 1,883.26 ft or 574.018 m).

REMARKS: The lake is formed by a rolled earthfill dam 6,800 ft (2,070 m) long, including the spillway, with a capacity of 8,640 ac-ft (10.6 hm<sup>3</sup>). The deliberate impoundment of water began on Apr. 7, 1948 and the dam was completed in June 1948. The emergency spillway is an excavated channel through natural ground, 500 ft (150 m) wide, located about 600 ft (180 m) from the right end of the dam. The service spillway consists of three concrete conduits, two are controlled by slide gates 6.0 by 6.0 ft (1.5 by 1.8 m), and the third is an uncontrolled ogee spillway 4.0 ft (1.2 m) wide and 19.5 ft (5.9 m) high. The lake is operated for flood control and municipal water supply for the City of Coleman. The dam is operated by the U.S. Army Corps of Engineers.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1948	-	-	-	190	167	170	1470	1340	1250	1340	1280	1250
1949	1290	1320	1380	2120	3870	3840	3630	3950	3790	3890	3760	3710
1950	3630	3560	3410	3290	3270	3090	2980	3000	3050	2750	2610	2530
1951	2440	2360	2260	2160	5700	6820	6380	6070	5770	5710	5552	5406
1952	5298	5138	4976	5082	5032	4706	4365	3986	4418	4180	4120	4040
1953	3930	3820	3970	3780	3660	4800	5980	5930	5640	5610	5480	5330
1954	5260	5110	4930	6690	7410	7260	6740	6260	5900	5690	5590	5440
1955	5370	5320	5120	4900	5810	6250	6440	6150	6360	6050	5840	5700
1956	5640	5570	5350	10900	8380	7840	7320	6840	6440	6340	6240	6130
1957	6030	5980	5850	7860	8710	8410	8040	7520	7210	7110	7130	7020
1958	6980	7010	7020	6950	6910	6910	7050	6690	6820	6640	6520	6390
1959	6260	6170	5920	5800	5920	5850	6700	6290	6000	6360	6470	6550
1960	7110	7040	6930	6750	6470	6040	5810	5680	5390	5330	5130	5060
1961	5290	5290	5180	4920	4720	6020	6060	5700	5640	5570	5500	5390
1962	5240	5090	4910	4850	4570	4530	4330	3990	3960	4010	3900	3800
1963	3680	3570	3410	3230	4420	4680	4270	4010	3680	3660	3600	3490
1964	3430	3380	3370	4050	3850	3600	3270	3020	4010	3840	3890	3780
1965	3720	3740	3660	3490	8820	6440	7880	7460	7300	7160	7030	6960
1966	6820	6720	6580	6700	6690	7150	6670	6380	7050	6810	6590	6400
1967	6230	6060	5930	5670	5380	5210	4680	4520	4710	4490	4450	4400
1968	6540	6780	7230	7900	8810	8540	8150	7750	7470	7150	7080	6950
1969	6800	6700	6720	6790	8650	8480	7920	7540	7690	7750	7630	7980
1970	8150	8300	8850	8740	9370	8570	7970	7510	7440	7210	6960	6790
1971	6610	6440	6150	5910	6070	5740	5430	6310	7780	8980	8650	8660
1972	8540	8470	8170	7930	7930	7740	7320	7000	6700	6660	6460	6300
1973	6260	6240	6150	7250	7090	7300	7100	6670	6800	7770	7570	7330
1974	7200	7000	6780	6540	6270	5880	5530	5080	7340	9210	8170	8290
1975	8220	8210	8070	8100	8120	7780	7430	6990	6660	6420	6280	6150
MAX	8540	8470	8850	10900	9370	8570	8150	7750	7780	9210	8650	8660
MIN	1290	1320	1380	190	167	170	1470	1340	1250	1340	1280	1250
MEAN	5628	5571	5492	5662	6145	6130	5968	5701	5802	5846	5696	5615
NO.	27	27	27	28	28	28	28	28	28	28	28	28
DISTR OF MEAN	8.1%	8.0%	7.9%	8.2%	8.9%	8.9%	8.6%	8.2%	8.4%	8.4%	8.2%	8.1%

COLORADO RIVER BASIN  
08141500 Hords Creek near Valera, Texas

LOCATION: Lat 31°50'03", long 99°32'04", Coleman County, 2,500 ft (762 m) downstream from the bridge on Farm Road 503, 1.6 mi (2.6 km) downstream from Hords Creek Dam, 5.7 mi (9.2 km) north of Valera, and 7.0 mi (11.3 km) west of Coleman.

DRAINAGE AREA: 53 mi<sup>2</sup> (137 km<sup>2</sup>), of which 48 mi<sup>2</sup> (124 km<sup>2</sup>) is above Hords Creek Dam.

PERIOD OF RECORD: May 1947 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,819.88 ft (554.699 m) above mean sea level.

AVERAGE DISCHARGE: 29 years, 1,347 ac-ft/yr (1.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1947-75): Maximum discharge, 3,860 ft<sup>3</sup>/s (109 m<sup>3</sup>/s) Apr. 30, 1956 (gage height, 14.73 ft or 4.490 m); no flow at times each year.

Maximum stage since 1900, 23.0 ft (7.01 m) July 3, 1932, from information by local residents. A flood in July or September 1900 reached a stage 3.7 ft (1.13 m) higher than that of July 1932, 12 miles (19 km) downstream from the station, from information by local residents.

REMARKS: Records good. The flow is regulated by Hords Creek Lake (station 08141000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1947	-	-	-	-	2.20	111	11.0	12.0	12.0	266	79.0	44.0	-
1948	6.10	6.00	.80	40.0	1.00	1.00	404	3.80	0	37.0	2.60	3.40	506
1949	4.80	12.0	17.0	129	246	9.5	0	183	2.80	55.0	5.80	3.20	668
1950	6.10	2.80	2.80	3.60	13.0	3.20	9.5	0	8.90	125	1.00	0	176
1951	1.00	2.0	0	0	401	237	4.0	0	0	11.0	4.60	6.10	661
1952	4.00	0	1.20	43.0	63.0	1.20	0	0	51.0	0	4.00	1.60	169
1953	0	0	47.0	.80	2.40	54.0	129	52.0	0	30.0	3.40	0	319
1954	0	0	0	232	89.0	11.0	0	0	0	0	8.70	0	341
1955	0	2.20	0	0	70.0	98.0	137	21.0	87.0	0	0	0	415
1956	0	0	0	827	4650	0	0	0	0	8.30	28.0	2.20	5515
1957	3.40	1.00	9.9	237	3100	1630	2.20	0	0	4.40	22.0	9.7	5014
1958	6.5	34.0	40.0	12.0	32.0	78.0	15.0	0	25.0	6.10	14.0	1.40	267
1959	0	0	0	2.00	51.0	113	464	12.0	1.20	78.0	108	84.0	913
1960	234	42.0	23.0	8.10	0	0	0	51.0	0	15.0	30.0	17.0	420
1961	145	61.0	26.0	5.80	2.00	189	31.0	0	30.0	53.0	33.0	22.0	598
1962	14.0	11.0	7.10	31.0	4.00	1.80	1.80	0	9.1	1.60	5.60	7.10	94.1
1963	5.80	4.60	2.00	5.80	159	45.0	2.20	0	0	0	0	0	222
1964	0	13.0	28.0	101	12.0	2.00	0	0	251	3.00	34.0	18.0	462
1965	11.0	36.0	24.0	15.0	3290	339	0	0	0	2.0	2.0	0	3715
1966	0	6.0	15.0	68.0	48.0	78.0	0	0	120	14.0	4.20	1.40	349
1967	3.30	6.70	20.0	6.60	.08	1.40	2.20	0	52.0	5.50	12.0	21.0	129
1968	527	126	230	208	618	216	2.10	0	0	0	2.00	2.00	1931
1969	5.40	11.0	43.0	54.0	427	1280	6.40	.08	.70	8.40	10.0	63.0	1915
1970	58.0	66.0	5.11	314	3050	985	10.0	0	.08	0	0	6.60	5001
1971	8.10	9.6	5.90	5.20	4.60	0	0	36.0	162	1380	655	2.33	2499
1972	76.0	31.0	10.0	8.00	16.0	1.00	1.00	0	3.00	23.0	10.0	4.00	183
1973	11.0	31.0	21.0	55.0	12.0	8.70	8.80	.30	32.0	157	41.0	43.0	421
1974	44.0	15.0	13.0	4.50	4.70	0	0	13.0	96.0	849	1840	2.78	3157
1975	372	659	168	115	763	35.0	31.0	11.0	18.0	16.0	17.0	14.0	2219
MAX	527	659	511	827	4650	1630	464	183	251	1380	1840	2.78	5515
MIN	0	0	0	0	0	0	0	0	0	0	0	0	94.1
MEAN	55.3	42.2	45.2	90.4	591	191	43.5	13.6	33.2	108	103	30.5	1347
NO.	26	28	28	28	29	29	29	29	29	29	29	29	28
DISTR													
OF MEAN	4.1%	3.1%	3.4%	6.7%	43.9%	14.2%	3.2%	1.0%	2.5%	8.0%	7.6%	2.3%	100%

COLORADO RIVER BASIN  
08142000 Hords Creek at Coleman, Texas

LOCATION: Lat 31°50'50", long 99°25'25", Coleman County, in city park, 1,250 ft (381.0 m) downstream from the bridge on U.S. Highways 84 and 283 and State Highway 206, 1 mi (1.6 km) north of the courthouse in Coleman, 3.9 mi (6.3 km) downstream from Bachelor Creek, and 12 mi (19.3 km) downstream from Hords Creek Dam (station 08141000).

DRAINAGE AREA: 107 mi<sup>2</sup> (277.1 km<sup>2</sup>), of which 40 mi<sup>2</sup> (124.3 km<sup>2</sup>) is above Hords Creek Dam.

PERIOD OF RECORD: October 1940 to September 1970.

GAGE: Water-stage recorder. Datum of gage is 1,676.83 ft (511.1 m) above mean sea level, datum of 1929. Prior to May 23, 1946, nonrecording gage at site 2,450 ft (746.8 m) downstream at datum 6.38 ft (1.9 m) lower. May 23, 1946 to September 30, 1966, water-stage recorder at site 1,250 ft (381.0 m) upstream at same datum.

AVERAGE DISCHARGE: 31 years, 6,286 ac-ft/yr (7.8 km<sup>3</sup>/yr).

EXTREMES: Period of record (1940-70): Maximum discharge, 25,100 ft<sup>3</sup>/s (710.8 m<sup>3</sup>/s) April 30, 1956 (gage height, 21.5 ft or 6.6 m); no flow at times.

Maximum stage since at least 1876 occurred in September 1900 and reached a stage about 6.3 ft (1.9 m) higher than that of April 30, 1956 at a point near the municipal light and power plant, about 4,750 ft (1,447.8 m) downstream from present gage, from information by local residents.

REMARKS: Records fair. Since 1948, the flow is largely regulated by Hords Creek Reservoir, from which the City of Coleman obtains part of its municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	-	-	-	-	0	0	0	-
1941	0	187	1060	3010	9940	8870	276	155	448	1930	193	53.0	26122
1942	16.0	11.0	6.70	5820	4130	268	.60	0	0	2650	93.0	12.0	13007
1943	11.0	.80	41.0	4.20	197	0	0	0	505	61.0	0	0	820
1944	130	111	41.0	0	557	6.90	0	0	64.0	2150	0	0	3060
1945	0	0	151	150	606	3120	8520	12.0	6.00	6.10	6.00	0	12577
1946	0	0	0	49.0	1230	3.40	0	0	419	0	932	203	2836
1947	9.9	5.00	2.20	0	0	207	0	0	0	696	80.0	0	1000
1948	0	.40	0	360	0	0	1230	112	0	28.0	0	0	1730
1949	.60	1.00	15.0	1080	2500	.60	0	1240	0	410	0	5.80	5253
1950	5.00	.20	0	0	0	0	0	0	94.0	0	0	0	99.2
1951	0	0	0	0	4640	4620	.60	0	0	52.0	0	0	9313
1952	0	0	0	56.0	932	4.00	0	0	26.0	0	0	0	1020
1953	0	0	83.0	198	348	75.0	411	385	0	136	0	0	1636
1954	0	0	0	2230	943	1.20	0	0	0	0	126	0	3300
1955	0	0	0	0	1460	845	786	62.0	538	0	0	0	3691
1956	0	0	0	7550	9700	0	0	0	0	0	13.0	0	17263
1957	0	0	0	3030	10040	3520	1.20	0	2.00	1.40	7.10	8.90	16611
1958	7.30	8.30	6.10	6.10	272	431	179	0	166	0	.60	0	1076
1959	3.40	5.40	1.20	0	364	296	3660	.60	6.70	757	370	224	5688
1960	1160	304	158	102	27.0	1.60	0	226	6.50	25.0	3.60	9.7	2023
1961	550	175	90.0	23.0	460	1940	299	5.80	141	1130	173	95.0	5082
1962	54.0	50.0	74.0	186	259	620	278	1.60	.20	13.0	4.80	9.5	1550
1963	6.00	4.20	8.90	4.80	1690	461	.20	0	0	0	1.80	0	2177
1964	5.20	2.20	5.60	2490	22.0	2.60	0	1.80	3110	16.0	283	29.0	5967
1965	29.0	158	70.0	20.0	15060	480	8.90	0	0	1.40	10.0	2.60	15840
1966	1.20	1.90	1.90	23.0	531	1410	0	395	3760	20.0	12.0	6.90	6163
1967	7.20	9.5	48.0	8.00	3.00	61.0	103	.20	659	2.80	13.0	7.20	922
1968	2540	764	944	1470	3210	675	9.7	4.90	14.0	4.30	56.0	71.0	9763
1969	46.0	5.50	119	235	1470	2000	5.40	1.80	36.0	27.0	169	567	4682
1970	527	432	1480	761	3620	1470	9.2	5.20	3.50	-	-	-	-
MAX	2540	764	1480	7550	15060	8870	8520	1240	3760	2650	932	567	26122
MIN	0	0	0	0	0	0	0	0	0	0	0	0	99.2
MEAN	170	74.5	147	962	2474	1046	526	87.0	334	337	84.9	43.5	6286
NO.	30	30	30	30	30	30	30	30	30	30	30	30	29
DISYR OF MEAN	2.7x	1.2x	2.3x	15.3x	39.4x	16.6x	8.4x	1.4x	5.3x	5.4x	1.4x	.7x	100x

COLORADO RIVER BASIN

08142500 Brown County Water Improvement District No. 1 Canal near Brownwood, Texas

LOCATION: Lat 31°49'43", long 98°59'53", Brown County, 100 ft (30 m) upstream from the bridge on Farm Road 2125, 6,000 ft (1,830 m) downstream from Brownwood Dam, and 7 mi (11 km) north of Brownwood.

PERIOD OF RECORD: April 1950 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,403.96 ft (427.927 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 26 years, 19,122 ac-ft/yr (23.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1950-75): Maximum daily discharge, 77 ft<sup>3</sup>/s (2.18 m<sup>3</sup>/s) July 17, 1957; minimum daily, 0.40 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Feb. 10, 1955 and Apr. 2, 1970.

REMARKS: Records good. Water is released into the canal from Lake Brownwood (station 08143000) at the dam on Pecan Bayou. The diversions of water began on Apr. 9, 1929.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	-	-	-	1680	886	1340	1370	2880	1590	2190	1420	1230	-
1951	1090	956	1590	1950	1280	1390	2560	2910	2280	2020	1320	1220	20566
1952	1320	1480	1750	1620	1610	2810	3520	3530	1560	1610	1140	478	22428
1953	780	1410	1160	2140	914	3180	3010	2620	2190	1350	958	1230	20942
1954	1510	1950	2100	1830	1510	3300	3830	3780	2640	2160	1100	1610	27520
1955	649	596	1990	2460	1570	1550	2670	2850	1960	1470	1700	1410	20875
1956	959	616	2090	2390	1120	2880	3280	3210	2020	1640	1080	1500	22785
1957	795	776	987	1320	1720	1430	2740	2940	2010	1750	1260	1050	18778
1958	922	728	657	622	887	1680	2600	2860	1680	1400	1230	1090	16356
1959	1200	1250	1980	1730	1500	1350	1430	1960	1690	1030	1000	1030	17150
1960	1050	978	978	1870	1240	2370	2630	2260	1930	1220	873	1050	18449
1961	737	754	1060	2210	1320	1250	1540	2700	1540	1160	1000	976	16247
1962	1060	1220	1380	1170	2070	1320	1680	2360	1390	1130	1030	930	16740
1963	899	1120	1990	2340	1810	1330	3250	3170	2230	2400	1060	730	22329
1964	1180	918	790	1630	1830	2810	4050	3370	2420	958	783	978	21717
1965	904	746	939	1550	1500	1760	3600	3090	2430	1120	1120	956	19715
1966	1000	902	1150	1620	1630	2420	3520	2770	1060	1290	1740	1240	20342
1967	1450	1420	1510	2910	1840	2580	2250	3410	1690	767	594	638	21259
1968	750	714	749	975	1020	1370	1850	2320	1480	1570	1180	889	14867
1969	1130	1080	1230	1130	1340	1900	3160	2170	967	1130	958	790	16985
1970	696	738	758	909	1160	1550	3010	2660	946	942	741	824	14934
1971	891	1010	1470	1820	2630	1990	2970	869	1370	1070	991	706	17787
1972	721	1000	1730	2240	1030	2300	2590	1730	1210	1370	739	712	17372
1973	710	530	574	719	1580	1960	2660	2540	1550	717	724	1040	15304
1974	1150	1100	1430	2420	1690	2790	2980	1510	953	751	914	1200	18888
1975	1160	1010	955	1000	1450	2010	2360	2480	2360	1760	901	1450	18896
MAX	1510	1950	2100	2910	2630	3300	4050	3780	2640	2400	1740	1610	27520
MIN	649	530	574	622	886	1250	1370	869	946	717	594	478	14867
MEAN	989	1000	1320	1702	1467	2024	2735	2652	1752	1384	1060	1037	19122
NO. OF STR	25	25	25	26	26	26	26	26	26	26	26	26	25
OF YEAR	5.21	5.21	6.91	8.91	7.71	10.61	14.31	13.91	9.21	7.21	5.51	5.41	1001

COLORADO RIVER BASIN

08143000 Lake Brownwood near Brownwood, Texas

LOCATION: Lat 31°50'13", long 89°00'13", Brown County, at the outlet structure for an irrigation canal just upstream from the right end of the dam on Pecan Bayou, 0.2 mi (0.4 km) downstream from Jim Ned Creek, and 8 mi (13 km) north of Brownwood.

DRAINAGE AREA: 1,535 mi<sup>2</sup> (3,976 km<sup>2</sup>).

PERIOD OF RECORD: July 1933 to June 1934, March 1935 to May 1941, November 1944 to December 1975. Prior to October 1970, published as "Brownwood Reservoir".

GAGE: Nonrecording gage. Datum of gage is 0.50 ft (0.152 m) below mean sea level, datum of 1929. Prior to November 1944, nonrecording gages or water-stage recorder at various sites at the dam at the same datum.

EXTREMES: Period of record (1933-41, 1944-75): Maximum contents, 192,300 ac-ft (237.1 hm<sup>3</sup>) May 2, 1956 (gage height, 1,431.4 ft or 436.29 m); minimum contents, 11,900 ac-ft (14.7 hm<sup>3</sup>) July 15, 1934 (gage height, 1,389.5 ft or 423.52 m).

REMARKS: The lake is formed by a rolled earthfill dam, 1,580 ft (482 m) long, with a capacity of 143,400 ac-ft (176.8 hm<sup>3</sup>). The dam was completed in 1933 and deliberate impoundment began in July 1933. The emergency spillway is an uncontrolled broad-crested weir 479 ft (146 m) long located 800 ft (240 m) to the left of the dam. The service spillway consists of two 12-foot (4-m) horseshoe-shaped, concrete conduits. Water is released into the Brown County canal through a 5-foot (2-m) circular conduit that is controlled by a slide gate in a service structure located near the right end of the dam. Water is used for irrigation and for municipal and industrial water supply for the City of Brownwood. The dam is operated by the Brown County Water Improvement District No. 1.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1933	-	-	-	-	-	-	51000	49300	47600	45400	44400	44100
1934	44100	43500	49600	66600	76400	64600	-	-	-	-	-	-
1935	-	-	15500	45700	126300	147300	130300	114600	142200	129600	110700	105300
1936	104200	103700	101600	109100	121800	125700	135800	125000	165000	145900	128300	115800
1937	107400	105300	105300	104200	101600	120600	120100	114300	112400	113500	111800	114100
1938	115200	114100	114600	114600	103700	111800	150300	134400	118800	120600	118800	117600
1939	125000	123800	121600	121600	121800	154900	148100	133000	133700	114600	111300	109600
1940	106900	106900	106200	129200	140800	149000	143800	141000	126500	-	-	-
1941	-	152900	-	168400	155600	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	133000	129600
1945	146600	146000	147000	143300	133000	135800	142500	135900	130500	128300	125000	121800
1946	122500	123100	127600	128300	129600	130100	126200	125000	136000	143300	146300	138200
1947	143700	134000	129200	127300	132700	126200	115200	105900	101300	96300	94000	121600
1948	116400	115800	113200	113200	111400	112600	114500	108900	109500	108300	104000	101700
1949	102300	106400	111400	124900	135900	133800	120300	119000	115100	127600	119000	118400
1950	117000	116400	112000	109500	119600	117000	116400	112000	112000	106400	101700	99360
1951	96520	95400	92600	88360	124900	133800	124200	116400	111400	107700	104000	101100
1952	98780	95960	92600	98200	113200	119600	110700	101700	98200	93160	93160	94840
1953	93160	90480	93720	98780	131000	125600	134500	133800	130300	133100	130300	127600
1954	124900	122200	119000	138100	138100	127600	119000	110100	104000	99940	101100	97640
1955	96520	97080	94280	94840	127600	136600	134500	128900	139600	128900	123600	121000
1956	119000	118400	113900	114500	129600	122200	112600	104600	98200	94840	94280	93160
1957	91540	91010	89420	147100	141000	129600	123600	115800	112600	131000	121600	114500
1958	114500	119000	113900	115100	124200	124900	110700	104000	110100	107000	104600	102300
1959	99940	98200	94280	92600	93720	110100	135900	126200	121600	135700	135700	136400
1960	137800	134300	133600	140600	125200	118100	111500	107900	103700	107900	105500	104300
1961	125200	133600	127300	122400	121100	140600	130100	121100	125900	129400	130100	128700
1962	126600	124500	121100	123100	118700	138500	144100	124500	130100	132900	130800	129400
1963	127300	125200	121100	117500	157400	136400	121700	114500	109700	105500	106100	103700
1964	103700	104300	103100	144100	132200	125900	116900	111500	137100	134300	140600	134300
1965	133600	135700	132900	130800	143400	132200	127400	115700	113300	112700	116300	114500
1966	113300	111500	109700	119900	137800	136400	128000	128700	139900	132200	128700	125200
1967	122400	119900	118100	116300	117500	115700	113300	106700	121100	118100	117500	116300
1968	147800	144800	144800	144800	142700	139200	131500	124500	120500	115700	115700	113300
1969	111500	110300	113900	121100	143400	142700	132900	130100	142700	143400	142000	151000
1970	144100	145500	144100	134300	147000	132900	123800	118100	115100	112700	109100	106700
1971	103700	101900	97300	94050	88790	87230	80830	134300	148600	145500	143400	144100
1972	143400	139900	133600	131500	130800	124500	119900	116300	112700	109700	106700	104900
1973	105500	105500	104900	115100	111500	109700	107300	100100	97300	115100	113900	110300
1974	107900	105500	101900	96210	95670	91390	84230	86230	146200	163800	144100	144800
1975	144100	144800	142700	143400	147800	140600	137800	131500	126600	121700	119900	116900
MAX	147800	152900	147000	168400	157400	149000	150300	141000	165000	163800	146300	151000
MIN	44100	43500	15500	45700	76400	64600	51000	49300	47600	45400	44400	44100
MEAN	115785	115969	110758	117714	126353	125385	121352	116632	119684	119147	116456	115079
NO.	37	38	38	39	39	38	38	38	38	37	38	38
DISTR												
OF MEAN	8.2%	8.2%	7.8%	8.3%	8.9%	8.8%	8.5%	8.2%	8.4%	8.4%	8.2%	8.1%

COLORADO RIVER BASIN

08143500 Pecan Bayou at Brownwood, Texas

LOCATION: Lat 31°43'54", long 98°58'25", Brown County, 502 ft (153 m) upstream from the city dam, 6.3 mi (10.1 km) downstream from Salt Creek, and 10 mi (16 km) downstream from Lake Brownwood.

DRAINAGE AREA: 1,614 mi<sup>2</sup> (4,180 km<sup>2</sup>).

PERIOD OF RECORD: June 1917 to April 1918, November 1923 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,318.88 ft (401.903 m) above mean sea level, datum of 1920.

AVERAGE DISCHARGE: 55 years (1917-18, 1923-75), 105,351 ac-ft/yr (129.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1917-18, 1923-75): Maximum discharge, 31,600 ft<sup>3</sup>/s (895 m<sup>3</sup>/s) Oct. 14, 1930 (gage height, 16.92 ft or 5.157 m); no flow at times.

Maximum stage, 21.7 ft (8.61 m) in September 1900 from information by the Gulf, Colorado, and Santa Fe Railway Co. The flood of July 3, 1932, probably the greatest, reached a discharge of about 235,000 ft<sup>3</sup>/s (8,650 m<sup>3</sup>/s) as it entered Lake Brownwood (computed from the rate of change of contents in the lake). Data furnished by engineers of the Brown County Water Improvement District No. 1.

REMARKS: Records good. The flow is regulated by Lake Brownwood (station 08143000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1917	-	-	-	-	-	1110	0	459	7620	0	0	0	-
1918	0	0	0	0	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	17400	25500	-
1924	1660	1430	21900	6300	41600	6290	0	0	2470	239	0	0	81889
1925	0	0	0	6730	32300	592	5500	4980	5890	10900	4650	0	71542
1926	3920	0	2950	34300	2330	18500	7880	359	14900	3420	125	5930	94614
1927	362	3660	3280	20600	4790	4510	8180	170	6600	24370	0	0	76522
1928	0	462	108	5020	76630	12170	15750	33840	1080	0	-	-	-
1929	-	-	-	-	-	-	0	0	2590	7810	508	0	-
1930	0	0	812	289	93200	19600	2740	0	10800	171000	3860	8060	310361
1931	3260	8550	1920	994	4300	22400	4050	0	0	100000	1820	5390	152704
1932	17200	6500	1800	496	47600	54600	223000	3730	59600	1900	690	14900	432016
1933	4990	11.0	12.0	5070	9780	33.0	4210	65.0	136	262	564	203	25336
1934	17.0	1260	577	637	46.0	10400	61100	453	192	0	5.00	12.0	74699
1935	197	841	775	522	10960	27300	20530	16320	71210	21300	19250	5530	194735
1936	263	474	484	161	1170	3040	14780	6320	144200	35660	17600	15880	240052
1937	7690	2340	978	540	1640	3500	1190	1060	241	1070	246	665	21160
1938	4400	262	205	2350	14580	183	29960	15540	4830	31.0	728	180	73249
1939	224	88.0	119	601	38080	68140	12600	6700	10470	139	211	586	137958
1940	328	376	320	1690	9620	28130	10010	41970	12810	418	1210	739	107621
1941	842	16280	19620	57860	154800	46600	17400	1930	16340	18300	9020	9020	370012
1942	2290	472	549	62060	78620	42310	6570	608	33550	55960	11940	1750	296679
1943	2340	4900	446	217	1280	302	29.0	7.50	1510	122	111	26.0	11291
1944	527	1770	178	137	4070	607	4410	4620	5190	7800	3290	6950	39549
1945	212	1890	3930	18550	13130	1360	71310	4860	30.0	216	110	158	115756
1946	343	1350	192	430	966	9530	1800	0	1170	20.0	836	61.0	16698
1947	2560	6570	687	1330	187	54.0	0	77.0	0	0	0	875	12340
1948	67.0	183	70.0	824	275	2160	554	926	449	0	2.60	3.40	5514
1949	313	390	1070	1900	29220	5110	6950	4.20	60	1500	7460	97.0	54015
1950	167	50.0	811	207	1660	381	205	783	15.0	5.20	194	22.0	4500
1951	6.10	21.0	16.0	263	5180	108200	1630	223	398	14.0	32.0	9.9	115995
1952	11.0	23.0	25.0	126	3080	22.0	80.0	141	36.0	9.7	250	364	4168
1953	52.0	57.0	343	3330	3410	25.0	5350	1840	16.0	19560	22.0	1.23	34128
1954	77.0	32.0	157	18420	15240	3010	17.0	339	6.70	6.10	422	16.0	37743
1955	26.0	264	110	2940	1950	35400	13500	410	17370	11640	53.0	841	84504
1956	501	121	20.0	313	122000	54.0	13.0	226	228	560	221	367	124644
1957	12.0	20.0	231	37420	248200	61500	308	35.0	12.0	36280	16200	7560	407778
1958	174	2760	13730	4010	13390	1400	7010	8.90	6.00	6.10	8.90	19.0	42523
1959	16.0	20.0	23.0	204	2780	3830	77910	3560	1170	23770	246	285	113814
1960	21960	6120	478	1070	13610	56.0	435	4.00	0	260	32.0	206	44231
1961	1910	7050	5040	307	384	67760	17680	1200	1720	801	732	118	104702
1962	103	55.0	92.0	92.0	33.0	1230	22010	11250	18100	14230	135	207	67537
1963	137	107	39.0	113	14510	31800	5080	13.0	6.60	8.70	649	62.0	52525
1964	212	260	149	14430	7490	118	11.0	12.0	7820	1110	20050	4110	55772
1965	435	959	283	356	130300	8490	29.0	30.0	11.0	467	853	152	142165
1966	153	275	169	1620	17360	3270	72.0	138	19510	3220	149	139	46075



COLORADO RIVER BASIN  
08143500 Pecan Bayou at Brownwood, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP1	OCT	NOV	DEC	ANNUAL
1967	148	118	152	1020	1930	235	667	10.0	5080	166	330	318	10174
1968	109200	10620	40390	23920	76190	15770	2970	317	718	73.0	122	253	280043
1969	223	219	259	357	37000	9030	684	272	1980	4840	2350	11170	68384
1970	15300	5790	39410	13770	13700	32580	133	13.0	141	144	157	205	121343
1971	152	130	76.0	108	50.0	61.0	1.30	1500	23550	60500	3390	3300	92918
1972	1420	2960	3320	763	405	54.0	50.0	29.0	176	225	207	265	9874
1973	345	285	163	658	191	131	154	34.0	84.0	3410	224	213	5892
1974	228	138	187	47.0	172	215	0	477	7650	69980	58180	4620	141894
1975	6160	30610	2700	4430	9670	4060	99.0	185	177	164	316	203	58774
MAX	109200	30610	40390	62060	248200	108200	223000	41970	144200	171000	58180	25500	432016
MIN	0	0	0	0	33.0	22.0	0	0	0	0	0	0	4168
MEAN	4099	2522	3295	6917	27668	14946	12955	3173	9799	13470	3909	2598	105351
NO.	52	52	52	52	51	52	53	53	53	53	53	53	50
DISTR													
OF MEAN	3.9%	2.4%	3.1%	6.6%	26.3%	14.2%	12.3%	3.0%	9.3%	12.8%	3.7%	2.5%	100%

COLORADO RIVER BASIN

08143600 Pecan Bayou near Mullin, Texas

LOCATION: Lat 31°31'02", long 98°44'25", Mills County, 44 ft (13 m) downstream from the bridge on Farm Road 673, 0.6 mi (1.0 km) downstream from Blanket Creek, 5.5 mi (8.8 km) southwest of Mullin, and 10 mi (16 km) upstream from the Colorado River.

DRAINAGE AREA: 2,034 mi<sup>2</sup> (5,268 km<sup>2</sup>).

PERIOD OF RECORD: October 1967 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,202.93 ft (368.653 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 9 years, 126,427 ac-ft/yr (155.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 13,700 ft<sup>3</sup>/s (388 m<sup>3</sup>/s) Jan. 23, 1968 (gage height, 29.26 ft or 8.918 m); no flow June 29 to Aug. 5, 1974.

REMARKS: Records good. The flow is regulated by Lake Brownwood located 47 mi (76 km) upstream (station 08143000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	949	1600	1260	-
1968	120800	17360	57980	32140	98850	19620	4950	943	976	622	1250	1460	356951
1969	1190	992	1270	2100	40200	10370	1300	1830	3200	9040	4490	13670	89652
1970	19010	9810	56410	19420	17960	38980	858	734	1520	1210	780	946	167638
1971	860	753	617	790	2250	535	835	12000	22070	59300	4680	6090	110780
1972	3240	3820	4210	2240	2550	739	709	484	752	1430	988	992	22154
1973	1540	1940	1080	4000	778	1160	1640	565	985	17140	1230	931	32989
1974	1030	946	1240	592	2240	580	0	3030	15410	60700	73020	5790	164578
1975	7030	36600	5230	13050	16870	7490	2450	1060	858	613	930	902	93083
MAX	120800	36600	57980	32140	98850	38980	4950	12000	22070	60700	73020	13670	356951
MIN	860	753	617	592	778	535	0	484	752	613	780	902	22154
MEAN	19338	9028	16005	9292	22712	9934	1593	2581	5721	16778	9885	3560	126427
NO.	8	8	8	8	8	8	8	8	8	9	9	9	8
DISTR OF MEAN	15.3%	7.1%	12.7%	7.3%	18.0%	7.9%	1.3%	2.0%	4.5%	13.3%	7.8%	2.8%	100%

COLORADO RIVER BASIN  
08144000 Noyes Canal at Menard, Texas

LOCATION: Lat 30°54'57", long 99°47'02", Menard County, at the intersection of Canal and Gay Streets in Menard, and 4.7 mi (7.6 km) downstream from the headgates.

PERIOD OF RECORD: April 1924 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,878.06 ft (572.433 m) above mean sea level, datum of 1929. Prior to July 23, 1940, nonrecording gage at site 2,000 ft (610 m) upstream at datum 4.99 ft (1.521 m) higher.

AVERAGE DISCHARGE: 52 years, 9,653 ac-ft/yr (11.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-75): Maximum discharge (exclusive of the times the canal was submerged by floodwaters from the San Saba River or when the flow was affected by local runoff between the point of diversion and the station), 43 ft<sup>3</sup>/s (1.22 m<sup>3</sup>/s) Apr. 29, 30, 1928; no flow at times.

REMARKS: Records good. The discharge represents the flow diverted from the San Saba River; local runoff between the diversion point and the gage is excluded. The canal diverts water from the right bank of the San Saba River, 4.7 mi (7.6 km) upstream from Menard, for irrigation near Menard. The first diversion was made about 1890.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	1130	779	809	1970	1880	381	641	1640	1600	-
1925	118	932	1600	1120	1490	1260	1420	1460	843	598	0	1620	12461
1926	499	0	1620	0	1410	1260	1400	1520	1330	1020	972	1700	12731
1927	1520	73.4	1400	1490	1630	387	1430	1320	1280	446	1290	604	12870
1928	381	85.1	1130	1590	1250	873	1110	1160	138	544	1110	503	10640
1929	413	128	781	1240	830	803	928	984	1070	478	813	778	9246
1930	639	1210	1010	964	1140	1210	1090	1030	881	904	547	417	11042
1931	812	672	662	1020	1220	1170	1210	1290	1200	1080	678	419	11433
1932	0	581	1130	928	990	1300	1130	1280	517	470	562	621	9509
1933	621	303	168	982	885	970	892	898	696	996	1270	1280	9961
1934	196	0	546	365	1270	1090	965	1110	940	994	1160	749	9385
1935	1320	606	706	1460	649	24.0	1270	990	496	448	406	336	8711
1936	79.0	273	1290	876	510	916	1020	705	615	0	0	0	6284
1937	0	268	1490	1330	858	810	1960	1310	864	1320	897	1060	12167
1938	11.0	0	1110	1170	924	1320	910	0	0	641	1370	1750	9206
1939	1530	1550	1400	935	1510	1510	1190	1450	1320	698	1510	637	15240
1940	0	863	1320	1260	1130	529	998	1340	865	1430	453	1160	11348
1941	1180	0	0	757	724	1500	1170	847	902	267	0	1100	8447
1942	1710	1470	1620	859	1470	1200	1490	793	786	900	0	1000	13298
1943	1330	1200	1260	830	1480	1320	964	851	394	200	1300	1420	12549
1944	1310	790	0	922	997	1160	809	1250	286	0	928	1450	9902
1945	1370	119	861	1330	1180	372	982	460	986	1220	1220	1290	11390
1946	452	251	1250	1100	866	895	946	696	644	0	427	1310	8817
1947	1250	1070	653	958	1090	1010	976	717	778	781	992	1140	11415
1948	1150	569	408	974	749	552	309	562	351	1090	1190	1230	9134
1949	899	197	276	756	36.0	481	1370	947	1290	1340	430	1310	9332
1950	425	0	1170	893	957	755	1010	1140	936	1170	1290	1440	11186
1951	1240	1050	874	499	814	755	447	359	638	821	1070	1250	9817
1952	25.0	515	1110	948	192	275	510	441	468	659	904	626	6673
1953	0	478	1040	802	901	441	545	913	970	701	1130	1260	9181
1954	1160	958	1010	780	527	729	512	390	476	701	450	811	8504
1955	583	922	294	432	829	629	826	1040	780	804	972	1270	9381
1956	185	1070	922	662	0	38.0	540	391	305	311	524	602	5550
1957	783	551	852	630	0	73.0	1340	984	797	651	0	0	6661
1958	306	0	0	754	1110	939	1120	817	436	1080	1390	1530	9482
1959	1460	551	1260	1090	865	592	1090	1060	904	3.00	190	950	10015
1960	165	1390	1560	1150	1120	1020	728	1260	1060	692	615	298	11058
1961	0	543	1480	1370	1250	171	1030	1390	788	480	228	775	9505
1962	1490	216	1250	1460	634	1270	1190	1010	1000	1030	661	1410	12621
1963	1500	551	1300	534	524	883	738	726	998	1060	331	885	10030
1964	1500	1240	0	889	852	651	557	792	690	189	1150	1340	9850
1965	922	322	0	883	820	656	830	956	825	938	305	478	7935
1966	869	192	756	1150	512	668	542	298	0	471	914	1040	7412
1967	553	1040	1020	956	602	260	433	633	578	0	0	668	6743
1968	526	0	0	0	453	252	444	824	1030	1150	1080	788	6547
1969	421	1130	764	415	161	571	456	608	595	149	5.30	0	5275
1970	0	0	25.0	1010	1050	518	737	753	751	908	1170	1090	8012
1971	875	739	174	1100	844	615	496	0	853	968	901	960	8525
1972	732	1110	1160	1100	567	769	1110	721	1110	1200	115	818	10512
1973	685	71.0	4.50	780	1330	467	1030	934	492	0	70.0	1030	6894

COLORADO RIVER BASIN  
08144000 Noyes Canal at Menard, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	1040	832	1190	1140	251	1190	921	0	0	0	0	0	6564
1975	0	0	0	0	157	1000	1090	1060	1190	1320	1360	1400	8577
MAX	1710	1550	1620	1590	1630	1510	1970	1880	1330	1430	1640	1750	15240
MIN	0	0	0	0	0	24.0	309	0	0	0	0	0	5275
MEAN	710	577	841	919	853	787	965	891	741	692	731	946	9653
NO.	51	51	51	52	52	52	52	52	52	52	52	52	51
OF MEAN	7.4%	6.0%	8.7%	9.5%	8.8%	8.2%	10.0%	9.2%	7.7%	7.2%	7.6%	9.8%	100%

COLORADO RIVER BASIN

08144500 San Saba River at Menard, Texas

LOCATION: Lat 30°55'08", long 99°47'07", Menard County, at the bridge on U.S. Highway 83 in Menard, 1.1 mi (1.8 km) downstream from Las Moras Creek, and 1.9 mi (3.1 km) upstream from Volkmann Draw.

DRAINAGE AREA: 1,151 mi<sup>2</sup> (2,981 km<sup>2</sup>).

PERIOD OF RECORD: October 1915 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,863.05 ft (567.858 m) above mean sea level, datum of 1929. Sept. 14, 1915 to Mar. 12, 1924, nonrecording gage at site 635 ft (194 m) downstream at datum 2.20 ft (0.67 m) lower. Mar. 13, 1924 to Feb. 21, 1939, nonrecording gage at site 1,000 ft (305 m) upstream at datum 2.00 ft (0.610 m) higher. Feb. 22, 1939 to Jan. 25, 1940, nonrecording gage at present site and datum. Jan. 26, 1940 to Sept. 10, 1957, water-stage recorder at site 240 ft (73 m) to right at present datum. Feb. 8, 1962 to Jan. 22, 1963, nonrecording gage at site 600 ft (180 m) downstream at present datum.

AVERAGE DISCHARGE: 61 years, 46,500 ac-ft/yr (57.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-75): Maximum discharge, 130,000 ft<sup>3</sup>/s (3,680 m<sup>3</sup>/s) July 23, 1938 (gage height, 22.2 ft or 6.77 m), present site and datum, from floodmark; no flow at times as the result of upstream diversions to Noyes Canal (station 08144000).

REMARKS: Records good. Since about 1890, the low flow during the irrigation season is regulated by diversions to Noyes Canal located 4.5 mi (7.2 km) upstream and diversions by pumping at several locations upstream.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	4300	2440	2230	-
1916	2210	2080	2760	3660	3580	1010	855	892	1520	972	655	1500	21694
1917	1450	1750	1840	1960	2100	2180	181	166	1200	116	584	1460	14987
1918	1670	1660	1630	13300	1430	13200	133	319	2610	2250	13500	2330	52232
1919	2270	2200	1790	1620	6270	12600	4480	2630	22300	2500	3060	2960	64680
1920	2570	2470	1880	2010	1810	2270	1990	9880	1950	2310	2730	2250	34120
1921	1520	1530	2710	1140	965	543	445	561	1310	2170	217	663	13774
1922	351	239	15400	71800	15900	3190	1140	422	663	2600	1900	1900	114292
1923	1030	3230	3400	13700	1810	757	107	2020	20600	2340	22800	5560	77554
1924	4560	3160	4420	3150	8510	4340	1690	1870	2840	2320	1400	1650	39930
1925	2790	1680	1380	3620	11300	1670	712	1220	1550	2480	3050	1860	33312
1926	3510	2970	1810	3160	1140	3770	1800	365	596	1360	1190	778	22449
1927	928	3520	1450	924	4240	10100	583	333	1310	6550	952	1880	32770
1928	2020	1470	1120	768	756	2020	1290	408	2220	1780	976	1960	16788
1929	1660	1640	1700	576	1380	514	472	143	2080	16000	910	1440	28537
1930	1490	389	775	574	972	8250	36.0	31.0	6020	40200	2020	2130	62887
1931	1820	4940	2210	1730	1170	1180	2100	574	4370	682	1230	1910	23916
1932	2290	1600	1000	1140	14900	1300	21300	775	27200	2640	2370	2490	79005
1933	2690	2380	2810	1640	1650	774	550	486	762	476	462	812	15492
1934	2200	1920	1530	16100	1850	375	2700	258	290	324	296	1160	29003
1935	801	5620	1600	530	21990	35160	932	1150	30600	2980	2910	2870	107143
1936	2620	2080	763	1160	3070	1120	11580	1090	170800	7420	4940	4890	211533
1937	4120	2960	2210	1880	2000	2110	713	455	896	878	1680	5900	25802
1938	4040	3180	2090	2220	2600	673	316100	6460	5090	3030	2100	2050	349633
1939	2530	1760	2380	2330	4570	932	2960	970	601	1710	1170	2140	24053
1940	2700	2130	1340	1560	1240	5690	2050	1030	1010	560	2000	1370	22680
1941	1300	2340	5620	5490	9320	2380	2110	1730	11330	56190	4950	3520	106280
1942	2660	2220	2260	2950	1790	1750	916	2540	14380	30540	3880	2760	68646
1943	2390	2020	2340	2270	1410	1240	1010	942	2530	2580	1440	1990	22162
1944	2550	2610	3400	2980	9610	1910	1410	996	2430	8520	2240	1800	40456
1945	1950	3170	2180	1960	1650	1820	1030	1160	625	1050	1140	1280	19015
1946	2380	2030	1090	1080	1380	664	327	263	28150	2480	1590	1050	42484
1947	1340	978	1660	936	5300	964	353	471	431	456	425	636	13950
1948	627	1210	1190	426	371	305	543	397	2660	227	271	528	8755
1949	967	1760	1730	8630	3970	1580	277	549	898	3740	1940	978	27019
1950	2100	2330	636	1580	870	698	2040	217	383	210	170	221	11455
1951	425	472	774	1030	329	361	86.0	2940	44.0	48.0	152	171	6832
1952	1450	464	171	179	1100	392	0	0	321	85.0	49.0	732	4943
1953	1320	245	101	74.0	244	0	69.0	1870	197	10100	137	87.0	14444
1954	48.0	75.0	125	2170	1610	115	0	0	0	80	139	0	4283
1955	375	46.0	417	53.0	5530	2760	3800	6240	947	319	40	60.0	20547
1956	1120	126	61.0	13180	34430	1130	631	0	0	0	0	147	50825
1957	2.20	589	551	50660	100300	5530	644	106	184	55960	3300	2970	220796
1958	2560	14510	3990	2260	1830	39670	1510	1080	2080	1220	883	996	72589
1959	928	1670	681	841	1080	1030	501	230	1080	15540	2250	1280	27111
1960	2470	899	799	777	599	180	733	234	93.0	894	897	2080	10655
1961	2510	1450	474	291	175	23890	1780	639	1180	22760	2770	2010	59929
1962	1050	2370	1170	1160	1390	367	263	151	451	626	1880	511	11389
1963	458	1230	464	952	1470	330	31.0	20	37.0	141	1210	705	7028
1964	218	395	1980	436	75.0	63.0	6.90	1800	5020	1560	429	570	12553

COLORADO RIVER BASIN  
08144500 San Saba River at Menard, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	1010	1750	2210	465	2590	1040	8.30	6.20	6.00	7.90	916	1090	11099
1966	749	1310	541	638	1310	361	4.40	1840	3070	596	348	347	11114
1967	739	111	186	517	380	235	4190	110	592	1210	1480	788	10538
1968	1330	1540	1750	1830	4710	1640	1210	81.0	209	146	285	733	15464
1969	1170	471	873	1300	1250	299	185	1270	3050	2600	2220	2360	17048
1970	2150	1940	2420	821	4880	1450	329	128	563	575	561	1010	16827
1971	895	918	1590	315	299	19.0	4920	4660	1010	2040	1270	1470	19406
1972	1610	984	727	621	2930	1160	157	1140	1520	873	2130	1350	15202
1973	1800	2120	2120	1450	460	1980	541	410	1070	45160	3050	1430	61591
1974	1740	1690	1640	1650	10030	495	345	53440	69380	7930	6380	5950	160670
1975	4890	4810	5210	5680	5850	5220	3320	2830	2770	2890	3250	3180	49900
MAX	4890	14510	15400	71800	100300	39670	316100	53440	170800	56190	22800	5950	349633
MIN	2.20	46.0	61.0	53.0	75.0	0	0	0	0	0	0	0	4283
MEAN	1786	2024	1919	4465	5629	3646	6869	2083	7825	6366	2168	1720	46500
NO. OF MEAN	60	60	60	60	60	60	60	60	60	61	61	61	60
DISTR													
OF MEAN	3.8%	4.4%	4.1%	9.6%	12.1%	7.8%	14.8%	4.5%	16.8%	13.7%	4.7%	3.7%	100%

COLORADO RIVER BASIN  
08144800 Brady Creek near Eden, Texas

LOCATION: Lat 31°11'05" N, Long 99°50'29" W, Concho County, at the bridge on U.S. Highway 83, 0.8 mi (1.3 km) downstream from Fitzgerald Creek, 2.2 mi (3.5 km) south of Eden, and 2.4 mi (3.9 km) upstream from Hardin Branch.

DRAINAGE AREA: 97 mi<sup>2</sup> (251 km<sup>2</sup>).

PERIOD OF RECORD: May 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,000.99 ft (600.902 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 725 ac-ft/yr (0.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 5,110 ft<sup>3</sup>/s (145 m<sup>3</sup>/s) Apr. 28, 1966 (gage height, 7.08 ft or 2.158 m); no flow for many days most years.

Maximum stage since at least 1884, 16.8 ft (4.82 m) in July 1938, from information by a local resident.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	7.70	1.20	0	0	13.0	6.70	6.60	6.10	-
1963	8.50	12.0	9.5	6.40	4.80	0	0	0	0	0	0	0	41.2
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	59.0	0	0	0	0	0	0	0	59.0
1966	0	0	0	933	19.0	0	0	0	0	0	0	0	952
1967	0	0	0	0	0	0	5.40	1040	34.0	0	0	5.70	1085
1968	45.0	36.0	60.0	65.0	40.0	11.0	1.40	0	0	0	1.50	8.00	268
1969	8.00	13.0	12.0	9.7	9.4	.20	0	1.60	364	16.0	34.0	41.0	509
1970	49.0	25.0	25.0	14.0	54.0	17.0	3.90	1.10	.90	0	.70	4.30	195
1971	10.0	5.50	26.0	6.70	484	67.0	267	126	63.0	68.0	88.0	86.0	1311
1972	90.0	58.0	37.0	42.0	59.0	271	9.00	6.00	51.0	29.0	47.0	32.0	731
1973	34.0	35.0	26.0	35.0	21.0	212	13.0	4.50	12.0	1600	137	1.45	2275
1974	110	81.0	61.0	39.0	50.0	30.0	8.20	53.0	330	122	175	124	1183
1975	74.0	124	155	111	410	110	82.0	67.0	43.0	24.0	54.0	47.0	1301
MAX	110	124	155	933	484	271	267	1040	364	1600	175	145	2275
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	33.0	30.0	31.2	97.1	87.0	51.4	27.8	92.8	65.1	135	38.8	35.8	725
NO.	13	13	13	13	14	14	14	14	14	14	14	14	13
DISTR													
OF MEAN	4.5%	4.1%	4.3%	13.4%	12.0%	7.1%	3.8%	12.8%	9.0%	18.6%	5.4%	4.9%	100%

COLORADO RIVER BASIN

08144900 Brady Creek Reservoir near Brady, Texas

LOCATION: Lat 31°08'17", long 99°23'07", McCulloch County, at the mouth of Bear Creek, 280 ft (85 m) upstream from the Farm Road 3022 over Brady Creek Dam on Brady Creek, and 3.0 mi (4.8 km) west of Brady.

DRAINAGE AREA: 513 mi<sup>2</sup> (1,329 km<sup>2</sup>).

PERIOD OF RECORD: May 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES: Period of record (1963-75): Maximum contents, 40,880 ac-ft (50.4 hm<sup>3</sup>) Sept. 24, 1971 (elevation, 1,747.70 ft or 532.699 m); minimum contents since first appreciable storage, 1,030 ac-ft (1.27 hm<sup>3</sup>) Sept. 18, 1964 (elevation, 1,710.4 ft or 521.33 m).

REMARKS: The reservoir is formed by a compacted earthfill dam 8,400 ft (2,560 m) long, with a capacity of 30,430 ac-ft (37.5 hm<sup>3</sup>). The dam was completed and storage began in May 1963. The dam was built by the City of Brady in cooperation with the Soil Conservation Service and the Farmers Home Administration for flood control and for municipal and industrial water supply. The uncontrolled emergency spillway is a cut channel through natural ground 1,000 ft (305 m) wide located at the right end of the dam. The service spillway is an uncontrolled concrete drop-inlet structure that discharges through a 7- by 7-foot (2- by 2-m) concrete box conduit. The service spillway is designed to discharge 4,000 ft<sup>3</sup>/s (113 m<sup>3</sup>/s) at a 19.4-foot (5.9-m) head. The service outlet is a 36-inch (914-millimeter) pipe that extends through the embankment and is equipped with three sluice gates for controlled releases downstream.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1963	-	-	-	-	680	1450	1130	1540	1540	1500	1450	1390
1964	1410	1450	1900	1820	1660	1450	1240	1100	5820	5820	5900	5700
1965	5590	5860	5690	5430	7860	7630	7050	6550	6190	5950	5810	5780
1966	5660	5630	5490	6760	7040	6490	5940	6150	6250	5930	5690	5480
1967	5340	5180	4970	4740	5960	5440	5060	5160	6860	6600	6660	6590
1968	9960	9970	13560	14210	16800	16920	16230	15320	15010	14430	14370	14100
1969	13880	13750	13490	13460	14470	15470	14560	14130	15140	15110	15080	15340
1970	15380	15600	15950	15880	17800	17110	16050	15550	15230	14750	14250	13940
1971	13610	13370	12820	12560	14320	14030	34360	30740	32860	30950	30470	30550
1972	30470	30330	29600	28850	30210	29380	28050	27600	27010	26550	25930	25590
1973	25860	26130	25840	25930	25080	26010	25230	23950	23710	30620	30150	29720
1974	29780	29360	29000	28630	28610	27230	25930	27080	31480	31520	30760	31050
1975	30780	30740	30430	30700	30900	30510	30170	29080	28200	27480	27270	27060
MAX	30780	30740	30430	30700	30900	30510	34360	30740	32860	31520	30760	31050
MIN	1410	1450	1900	1820	680	1450	1130	1100	1540	1500	1450	1390
MEAN	15643	15614	15724	15748	15492	15317	16231	15688	16562	16708	16445	16330
NO.	12	12	12	12	13	13	13	13	13	13	13	13
OF MEAN	8.2%	8.2%	8.2%	8.2%	8.1%	8.0%	8.5%	8.2%	8.6%	8.7%	8.6%	8.5%



COLORADO RIVER BASIN  
08145000 Brady Creek at Brady, Texas

LOCATION: Lat 31°08'17", long 99°20'05", McCulloch County, at the bridge on U.S. Highway 377 on North Bridge Street in Brady, and 0.4 mi (0.6 km) downstream from Live Oak Creek.

DRAINAGE AREA: 575 mi<sup>2</sup> (1,489 km<sup>2</sup>).

PERIOD OF RECORD: June 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,646.50 ft (501.853 m) above mean sea level, datum of 1929. Prior to July 9, 1940, nonrecording gage at site 3,600 ft (1,100 m) upstream at datum 8.24 ft (2.512 m) higher.

AVERAGE DISCHARGE: 37 years, 15,097 ac-ft/yr (18.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 39,100 ft<sup>3</sup>/s (1,110 m<sup>3</sup>/s) Sept. 10, 1952 (gage height, 24.80 ft or 7,559 m); no flow at times most years.

Maximum stage since at least 1882, 29.1 ft (8.87 m) July 23, 1938, present site and datum, discharge at site 5 mi (8 km) downstream, 86,000 ft<sup>3</sup>/s (2,440 m<sup>3</sup>/s) by slope-area measurement.

REMARKS: Records good. The flow is largely controlled since May 22, 1963 by Brady Creek Reservoir (station 08144900).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	133	0	2.40	0	0	0	0	-
1940	0	0	0	1820	4790	7590	741	395	2.60	19.0	26.0	101	15485
1941	38.0	197	1500	13020	4070	5590	387	25.0	904	6780	333	403	33247
1942	329	231	238	1790	177	31.0	0	802	422	1670	13.0	19.0	5722
1943	15.0	9.7	35.0	136	159	1480	12.0	0	152	54.0	6.30	24.0	2083
1944	161	102	78.0	10.0	4300	106	.40	4.60	4380	3240	51.0	102	12535
1945	154	390	487	1300	24.0	676	231	1.60	0	1.80	0	5.60	3270
1946	22.0	7.50	0	611	2200	1320	19.0	1.60	40.0	.80	2.80	3.40	4228
1947	14.0	4.00	13.0	4.40	1960	28.0	761	.60	.40	0	0	6.94	3479
1948	4.60	3.00	6.90	3.60	2570	37.0	74.0	68.0	57.0	99.0	7.10	16.0	2946
1949	43.0	257	908	16040	1510	651	4.20	9.5	0	5.40	0	.80	19429
1950	5.00	3.40	0	684	274	58.0	49.0	0	520	.20	1.60	5.40	1601
1951	6.30	9.3	8.30	378	5180	181	.40	0	.20	0	0	0	5763
1952	0	0	2.20	52.0	8090	1050	0	0	56060	3.60	306	272	65836
1953	39.0	14.0	21.0	2.60	5.60	0	150	1610	4.20	188	0	0	2034
1954	0	0	0	426	2570	.20	0	0	0	136	105	0	3237
1955	0	509	0	9.3	61340	7600	7860	808	694	2.60	0	1.40	78824
1956	0	454	0	2.60	8420	5.00	0	1230	8.30	0	0	0	10120
1957	1.40	9.7	1910	28670	52460	2900	21.0	0	5590	18200	786	449	110997
1958	707	812	1700	226	546	69.0	4.40	27.0	14.0	7.30	22.0	29.0	4164
1959	15.0	26.0	21.0	22.0	27.0	2960	870	.20	2520	9240	197	343	16241
1960	1080	362	255	78.0	39.0	0	3.60	1.40	0	4790	27.0	443	7079
1961	437	506	92.0	20.0	27.0	2080	629	20.0	9.3	8400	24.0	63.0	12307
1962	45.0	29.0	12.0	11.0	2.20	1.40	0	0	0	.80	2.80	1.40	106
1963	0	.40	0	1.40	16.0	1.20	0	0	0	.60	30.0	.40	50.0
1964	4.80	4.40	836	19.0	8.70	2.20	0	.40	1090	19.0	101	8.50	2094
1965	30.0	248	47.0	26.0	1310	88.0	4.20	.60	1.80	2.80	3.00	7.50	1769
1966	1.50	6.60	4.90	16.0	9.4	5.30	0	16.0	119	.30	1.00	1.70	182
1967	2.60	2.30	3.40	5.90	622	2.80	13.0	3.50	144	5.70	31.0	22.0	858
1968	3100	316	1390	989	845	493	25.0	.30	4.90	0	14.0	12.0	7189
1969	10.0	14.0	22.0	73.0	125	1520	3.30	2.20	14.0	89.0	64.0	88.0	2024
1970	51.0	56.0	157	106	432	27.0	.10	1.00	7.30	.60	0	0	838
1971	0	2.00	0	9.1	2.10	19.0	23870	18430	21640	8150	1440	1030	74592
1972	496	243	90.0	38.0	283	29.0	10.0	24.0	7.00	9.4	3.60	8.90	1242
1973	41.0	62.0	62.0	46.0	16.0	188	44.0	7.70	37.0	8240	204	80.0	9028
1974	40.0	46.0	28.0	17.0	117	7.70	12.0	510	3860	3490	3620	1600	13348
1975	1890	2390	939	4890	5890	545	296	36.0	5.00	3.80	32.0	37.0	16954
HAX	3100	2390	1910	28670	61340	7600	23870	18430	56060	18200	3620	1600	110997
MIN	0	0	0	1.40	2.10	0	0	0	0	0	0	0	50.0
MEAN	244	204	302	1988	4734	1013	976	650	2657	1969	201	159	15097
NO.	36	36	36	36	36	37	37	37	37	37	37	37	36
DISTR OF MEAN	1.6%	1.3%	2.0%	13.2%	31.4%	6.7%	6.5%	4.3%	17.6%	13.0%	1.3%	1.1%	100%

COLORADO RIVER BASIN

08146000 San Saba River at San Saba, Texas

LOCATION: Lat 31°12'47", long 98°43'09", San Saba County, at the bridge on State Highway 16, 1.2 mi (1.9 km) north of San Saba, 2.7 mi (4.3 km) upstream from Mill Creek, and 4.8 mi (7.7 km) downstream from China Creek.

DRAINAGE AREA: 3,042 mi<sup>2</sup> (7,879 km<sup>2</sup>).

PERIOD OF RECORD: October 1915 to December 1975. Published as "near San Saba" December 1904 to December 1906, September 1915 to August 1930.

GAGE: Water-stage recorder. Datum of gage is 1,162.16 ft (354.226 m) above mean sea level, datum of 1929. Since Oct. 1, 1956, supplementary water-stage recorder 2,780 ft (847 m) to the right of the main-channel gage used for floodflows.

AVERAGE DISCHARGE: 61 years, 176,050 ac-ft/yr (217.1 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-75): Maximum discharge, 203,000 ft<sup>3</sup>/s (5,750 m<sup>3</sup>/s) July 23, 1938 (gage height, 39.3 ft or 11.98 m, present site and datum); no flow at times in 1918, 1930, 1954-56, and 1963-64.

Maximum stage since at least 1899, that of July 23, 1938.

REMARKS: Records good. There are many diversions above the station for irrigation and municipal water use affect the low flow. The flow is partly regulated by Brady Creek Reservoir (station 08144900), capacity 90,300 ac-ft (111.3 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	10500	7020	9960	-
1916	7190	6270	5010	8870	16400	3000	2320	2510	3400	2960	3060	4000	64990
1917	4220	3200	3240	2610	8550	13100	879	2160	7620	1680	2400	2660	52319
1918	3090	2300	2320	22600	5730	24800	370	476	857	32400	44500	20200	159643
1919	18100	9220	12300	5180	27600	75000	37000	23800	72000	44200	40200	22700	367300
1920	34600	18200	13200	9580	13200	8630	6460	18100	8390	5960	8690	7320	152330
1921	6000	5400	8420	4990	3900	5860	1820	1830	2490	3650	2190	2910	49460
1922	3080	2900	24600	307000	168000	17600	8420	4510	3650	4150	5810	4970	555090
1923	4720	8910	9590	38600	11200	5870	8450	2990	48000	15600	47100	23300	224330
1924	14200	12200	16300	16800	33900	28200	4510	3730	11600	6270	5570	6360	159640
1925	6770	5220	4500	6100	24600	5900	1090	11000	7730	35300	12000	6620	126830
1926	9360	8720	9610	12000	8460	9260	7150	2880	2970	6930	5670	6490	89560
1927	5530	19900	7830	5160	9750	33800	4320	3730	5770	24000	5610	4850	130250
1928	4480	5020	4240	3870	3090	22600	7810	3970	16600	6150	4430	4830	67290
1929	4080	3490	9350	4090	28800	8270	2150	2030	20900	16100	2830	3440	105530
1930	3640	3160	2470	2640	13300	10900	649	883	6660	132000	8390	6950	191642
1931	12800	23300	12400	7620	6700	7380	6820	3060	3970	3440	4040	5930	97460
1932	11800	26300	15000	12000	87300	12000	80600	7380	40000	8550	7620	7620	316170
1933	8120	6440	8240	5520	23700	3860	2040	2370	2630	2130	2820	3550	71420
1934	5240	7280	15200	88100	7440	2900	5340	2290	1550	1640	3670	3040	143690
1935	3770	18300	6210	3750	124800	111500	10040	6600	98830	8650	10180	7710	410340
1936	6850	5770	4320	3760	28980	7530	13880	2190	247800	40800	24630	19210	405720
1937	12790	9820	10260	7340	10000	29070	4500	3410	4510	5850	5770	25340	128660
1938	43460	19140	11950	12460	10070	17270	741000	41790	22250	13580	11050	12640	954660
1939	21200	9480	8840	9000	17610	7690	5450	9150	3370	5020	5590	6030	108430
1940	5800	6380	5230	13810	17640	32870	12620	8997	3690	5130	12980	15930	141070
1941	10670	13820	23890	62950	61510	51880	20670	14020	26160	76890	13980	12290	388730
1942	10320	8320	8230	18270	12770	8730	4980	14150	23050	38410	11170	8550	166950
1943	8470	6590	7260	7410	5560	42080	4300	2200	5140	7970	5230	7250	109460
1944	14840	14230	11300	7950	48010	13730	5740	3870	10680	17310	6550	8130	162340
1945	12060	16470	23340	28420	10910	10310	6810	5330	4300	6000	5280	6090	135320
1946	7770	7410	5910	4900	16440	6810	2250	2130	22660	6300	4240	4180	91060
1947	8620	4920	9220	4920	12330	3240	2760	1790	1890	1740	2480	5950	59660
1948	3500	4520	3600	3720	13780	6180	4710	5220	9510	2240	2380	2790	62350
1949	4040	6840	8580	44300	15360	7410	3910	3810	4560	5960	3910	3960	112640
1950	5670	5930	3150	5280	9850	4660	4760	1980	4600	1890	1890	2500	52160
1951	2640	2790	2480	3240	18570	4930	731	2510	936	783	1050	1490	42150
1952	2140	1650	1410	3600	41080	6460	636	176	96700	3420	4230	8620	170124
1953	6900	3240	3470	2270	6030	1150	3760	3890	1570	21500	2350	2350	58480
1954	2660	1620	1520	4770	14000	893	2840	1540	321	1110	2750	1120	30607
1955	1140	3600	911	2100	119500	40190	22310	7950	11670	2610	1310	1510	214801
1956	2040	3730	1220	25190	79440	1590	778	816	1100	733	689	991	118317
1957	916	1180	5750	106100	186400	19590	2600	1020	7930	121600	16050	10070	479206
1958	14240	33620	23490	13560	15630	40010	5350	5180	6770	5710	5420	5220	174200
1959	4790	4380	3860	3680	3640	16020	4040	1670	2740	71320	8560	9970	134690
1960	24900	16080	13360	8960	7050	3250	3610	3220	3010	13060	5630	15850	117920
1961	21490	14520	14070	7570	5670	50650	16650	6310	6040	31190	8730	8410	191300
1962	6980	6050	5980	6830	4030	4400	2070	1070	2370	4000	3620	4090	51490
1963	4000	3780	3570	2670	6860	3150	314	718	1360	1080	2290	2940	32732
1964	2840	4980	9120	3470	2990	2120	1940	1130	97410	12360	10370	6460	153269

COLORADO RIVER BASIN  
08146000 San Saba River at San Saba, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	10330	20040	11690	10510	73500	13410	4440	3620	3540	4880	5260	6190	167410
1966	5260	5640	5400	8470	6560	2190	836	4850	12970	3630	2850	3430	62086
1967	3620	2860	2690	4150	10480	2100	10140	1810	3600	3010	6320	4410	55390
1968	55100	14650	23570	32210	30320	19960	7900	4260	4930	4470	4710	6450	208530
1969	5330	4550	5460	10990	15440	9160	2200	3930	7950	66430	15240	15080	161760
1970	14370	14160	32990	14790	16800	9300	4510	3430	4700	5200	4210	4570	129030
1971	4630	4580	4250	3520	5470	2550	73870	108700	70610	69030	24900	24240	396350
1972	15450	11620	9720	6970	13880	6950	5700	6080	8270	6020	6670	6480	103810
1973	7510	9040	9840	9800	6080	11110	5070	3390	4080	105500	13850	9020	194290
1974	8260	6270	6370	4390	18180	3870	1490	52020	127600	24830	22890	16710	292880
1975	17590	21500	14690	24010	32170	14790	12420	8440	6910	7120	8600	8100	176340
MAX	55100	33620	32990	307000	186400	111500	741000	108700	247800	132000	47100	25340	954660
MIN	916	1180	911	2100	2990	893	19.0	15.0	321	733	689	991	30807
MEAN	9833	9192	9207	18757	27617	15828	20468	7709	20925	19637	8844	8033	176050
NO.	60	60	60	60	60	60	60	60	60	61	61	61	60
DISTR													
OF MEAN	5.6%	5.2%	5.2%	10.7%	15.7%	9.0%	11.6%	4.4%	11.9%	11.2%	5.0%	4.6%	100%

COLORADO RIVER BASIN

08147000 Colorado River near San Saba, Texas

LOCATION: Lat 31°13'04", long 98°33'51", San Saba-Lampasas County line, at the bridge on U.S. Highway 180, 5.2 mi (8.4 km) downstream from the San Saba River, and 9.2 mi (14.8 km) east of San Saba.

DRAINAGE AREA 30,600 mi<sup>2</sup> (79,250 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: November 1916 to October 1922 (published as "near Chartwick"), October 1923 to August 1930 (published as "near Tow"), September 1930 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,096.22 ft (334.128 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 61 years, 911,804 ac-ft/yr (1,124.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-75): Maximum discharge, 224,000 ft<sup>3</sup>/s (6,340 m<sup>3</sup>/s) July 23, 1938 (gage height, 63.2 ft or 19.26 m, present site, based on floodmarks at site then in use); no flow Aug. 27-31, 1954, Aug. 3-13, 1963, July 20 to Aug. 8, and Aug. 11-14, 1964.

Maximum stage during period 1878 to July 22, 1938, 58.4 ft (17.80 m) Sept. 25, 1900 (discharge, 184,000 ft<sup>3</sup>/s or 5,210 m<sup>3</sup>/s), present site, from floodmarks at former site.

REMARKS: Records good. There are many diversions above the station for irrigation, municipal use, and oilfield operations. The flow is partly regulated by night reservoirs in the Colorado and Concho Rivers and Oak Creek basins above Winchell and by four reservoirs in the San Saba River and Pecan Bayou basins; combined capacity, 2,438,000 ac-ft (3,006.0 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	-	14300	23800	-
1916	22300	12100	7560	65500	82400	10900	2630	2450	30600	55400	10100	7320	309460
1917	6580	6220	15000	11700	56500	40500	5960	6270	92200	2550	3340	4050	250870
1918	3220	2140	1780	85100	65200	120000	1910	2120	54600	313000	414000	87900	1150970
1919	134000	40200	168000	97000	196000	497000	341000	176000	325000	-	-	-	-
1920	76200	37300	-	19400	267000	40800	18300	193000	201000	24800	42500	19400	-
1921	14000	13400	23400	11900	12900	183000	5450	3010	9460	5400	3110	4080	289110
1922	4300	3900	29100	109000	119000	125000	73100	8430	6380	6730	-	-	-
1923	-	-	-	-	-	-	-	-	-	79300	147000	98800	-
1924	35000	28300	68700	93700	239000	81800	6980	5330	52100	37400	8380	15400	672090
1925	9070	6970	5590	111000	214000	150000	17200	65900	157000	127000	55800	16000	935530
1926	40900	16200	88600	246000	114000	130000	61200	46800	159000	122000	12600	57200	1094500
1927	18400	56400	60400	97000	52400	86200	64100	17000	47000	189000	15400	13800	717100
1928	11400	15900	12000	21100	246000	159000	173000	133000	70200	19100	16400	16900	896000
1929	15200	10100	35600	61300	322000	66000	22500	4720	111000	94100	10900	8550	761970
1930	7500	6280	9780	5630	406000	233000	7500	13600	24000	941000	31100	75000	1760390
1931	36900	74400	35400	18600	34100	90400	17000	8550	11300	205000	38300	23400	593350
1932	67000	95500	37500	44100	522000	188000	482000	50100	471000	50300	28900	45000	2081400
1933	46200	19400	22500	22800	172000	14000	8300	21100	24800	18900	9880	7130	387010
1934	12600	13800	36500	257000	36500	14300	74400	15100	8270	2700	32370	6500	510040
1935	14000	73800	12030	103800	777100	651200	145100	58690	687000	86370	40740	32700	2682530
1936	18070	11550	19180	9650	115800	41780	66850	8710	1748000	523800	90760	85520	2739670
1937	56440	41660	40980	27660	44500	216500	21150	30790	17340	30300	13480	60230	601030
1938	154200	84200	33430	119700	70950	121800	1981000	103100	36950	21000	18590	18980	2763900
1939	72410	18470	24900	23790	199800	248100	62920	93390	17080	10640	11460	11710	794670
1940	11190	21190	9110	94120	90560	237100	119400	108800	48410	13770	63560	44350	861560
1941	17700	76290	117200	338100	652300	463400	125900	62800	77610	238600	54960	43070	2267930
1942	29190	20140	21030	179400	277700	94880	23950	177100	125900	168100	44020	30200	1191610
1943	23550	22450	19690	22980	38290	57480	13970	3290	31070	25060	7340	13100	278270
1944	40830	43910	39910	20840	196600	48250	55630	24980	76340	73160	17000	25480	662930
1945	29760	42260	58890	114800	43690	49450	373200	32530	10150	53070	11400	12380	831580
1946	18160	28150	13580	8670	97510	30340	7600	5210	130200	52710	23540	36920	452610
1947	23380	17670	24530	23260	256800	34640	12280	2930	8880	36770	10480	38210	488930
1948	7630	15550	25340	15250	64680	49300	273900	34380	32670	15530	6230	5950	546410
1949	13220	19790	86590	345000	307800	89000	17380	17980	22930	48970	16790	8140	993590
1950	11160	24000	5290	35410	81090	25920	25280	14280	71100	8090	3110	3590	308320
1951	3900	4640	4140	6670	118200	219500	14800	30290	6530	1810	2340	2510	415330
1952	2880	2330	1500	40230	149400	30090	785	165	238400	6560	23930	20160	516430
1953	12010	4560	62790	16740	85620	2660	21550	108200	14930	149200	11590	4450	494300
1954	4370	2690	3990	155500	273400	35880	12630	1350	711	7430	17450	1950	517351
1955	2550	12140	2360	8330	497800	266800	173000	35230	176200	49260	3360	3330	1230360
1956	3660	8360	2280	13480	452300	6220	3060	12090	2650	64640	14630	10510	593880
1957	3300	7410	41190	411000	1452000	347600	19800	9240	46490	481900	84540	34440	2938910
1958	31890	80220	84460	34940	101700	97700	21720	11660	23290	16280	12100	10380	526340
1959	9400	6840	5680	5380	16860	155400	171600	11440	7710	519500	33830	33760	977400
1960	127400	54910	26750	35140	38670	11280	10420	9100	8170	76150	15660	29680	443330
1961	60640	76160	29250	14480	45750	256900	110600	17610	41680	78940	23580	19960	777550
1962	14190	11320	10660	13450	6110	20280	34690	19820	115100	86950	12150	8170	352890
1963	7540	6710	5560	3600	71370	107900	7630	2080	3220	1980	12860	6120	236590
1964	5270	13680	21690	64510	18150	18330	127	7880	261300	34690	56430	17240	519297

COLORADO RIVER BASIN  
08147000 Colorado River near San Saba, Texas—Continued

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	22010	45860	17800	12550	501200	71740	8960	4890	18760	23370	23970	9660	760770
1966	8610	8940	10160	42870	94990	26340	1690	37480	116400	15800	4760	5420	373460
1967	5630	4030	5940	13270	47980	14660	45810	8340	93070	12230	14140	8860	273960
1968	313900	59670	156700	116700	253000	76170	27260	6970	8240	6360	7350	13460	1045780
1969	8880	7620	9760	29480	148900	41610	4680	9110	45640	140100	39670	55450	540900
1970	65410	43170	156600	56010	72050	79780	7090	6020	14710	10910	7100	7270	526120
1971	7700	6530	6000	5940	16490	19490	121800	240700	173100	211500	48680	49380	907310
1972	28100	23840	18170	12900	33720	10780	6780	13330	15080	15740	17320	13150	208910
1973	17190	19790	20420	49410	15990	33480	14190	10480	16300	186200	20570	13790	417810
1974	13380	9170	10620	5530	36050	5090	1590	67830	297900	168900	205000	58770	879830
1975	60060	107200	42460	71560	160300	49400	32090	15570	12640	11530	20650	13970	597450
MAX	313900	107200	168000	1090000	1452000	651200	1981000	240700	1748000	941000	414000	98800	2938910
MIN	2550	2140	1500	3600	6110	2660	127	165	711	1810	2340	1950	208910
MEAN	32908	27922	33897	86117	207681	113494	94617	38107	114491	103009	34941	24620	911804
NO.	59	59	58	59	59	59	59	59	59	59	59	59	56
DISTR OF MEAN	3.6%	3.1%	3.7%	9.4%	22.8%	12.4%	10.4%	4.2%	12.6%	11.3%	3.8%	2.7%	100%

COLORADO RIVER BASIN

08148000 Lake Buchanan near Burnet, Texas

LOCATION: Lat 30°45'04", Long 98°25'08", Burnet County, in the powerhouse at Buchanan Dam on the Colorado River, 1.3 mi (2.1 km) upstream from the bridge on State Highway 29, and 11 mi (18 km) west of Burnet.

DRAINAGE AREA: 31,250 mi<sup>2</sup> (80,940 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: May 1937 to December 1975. Prior to October 1, 1966, published as "Buchanan Reservoir".

GAGE: Nonrecording gage. Datum of gage is 0.48 ft (0.146 m) above mean sea level. Prior to July 1938, temporary staff and float gages at same site and datum.

EXTREMES: Period of record (1937-75): Maximum contents, 1,010,000 ac-ft (1,245.3 hm<sup>3</sup>) Jan. 24, 1968 (gage height, 1,020.8 ft or 311.14 m); minimum contents after initial filling of the lake in July 1938, 340,800 ac-ft (420 hm<sup>3</sup>) Sept 8-10, 1952 (gage height, 983.4 or 299.74 m).

REMARKS: The lake is formed by two reinforced concrete multiple-arch sections, three banks of tainter gates, a 1,100-foot (335-m) uncontrolled concrete spillway section, and natural ground. The capacity of the lake is 992,000 ac-ft (1,223.1 hm<sup>3</sup>). The dam was completed and storage began on May 20, 1937. Water is used for power development and for irrigation below Columbus. The power generating features consist of three generating units, each with a 12,677 kilowatt capacity. A pump-back unit (capacity, 840 ft<sup>3</sup>/s or 23.8 m<sup>3</sup>/s) returns water from Inks Lake to Lake Buchanan during off-peak power demand periods. Inflow is largely regulated by twelve major reservoirs with a combined capacity of 2,438,000 ac-ft (3,006.0 hm<sup>3</sup>), of which 1,091,000 ac-ft (1,345.2 hm<sup>3</sup>) is for flood control. The dam is operated by the Lower Colorado River Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1937	-	-	-	-	1700	191200	180000	180800	175200	202800	214500	290000
1938	474000	568300	603200	717900	785000	828600	902000	816000	775000	773000	765000	763000
1939	826500	803400	789000	763000	851700	932800	864600	904200	862400	813900	777000	735000
1940	693200	662800	601400	670400	714100	919600	950600	985100	904200	850000	909000	960000
1941	937000	980000	976000	969000	971000	980000	960000	931000	933000	992000	931000	920000
1942	895000	848000	835000	985000	992000	967000	933000	974000	948000	978000	931000	895000
1943	880000	833000	767000	720000	710000	701000	676000	643000	663000	655000	619000	578000
1944	609000	645000	627000	584000	783000	741000	731000	667000	665000	697000	662800	681800
1945	704600	747000	791000	915200	921800	939400	969000	932800	910800	926200	902000	860200
1946	828600	787000	717900	648200	741000	729300	642800	576800	679900	681800	633800	619400
1947	653600	662800	657200	659000	893200	884400	828600	773000	716000	674200	619400	610400
1948	575100	543400	521000	490600	537000	533800	749000	721700	693200	693200	655400	621200
1949	597800	597800	693200	998900	994300	966700	895000	845400	789000	795000	761000	763000
1950	773000	803400	769000	777000	830700	803400	787000	743000	777000	765000	731200	719800
1951	714100	689400	685600	662800	704600	795000	691300	561500	477000	442500	429000	429000
1952	424800	409400	410800	463500	619400	594200	477000	350600	623000	610400	615800	653600
1953	659000	644600	706500	704600	847500	797100	795000	871200	828600	928400	915200	891000
1954	862400	851700	837000	964400	982800	913000	834900	791000	761000	745000	763000	759000
1955	747000	763000	755000	745000	969700	957500	966700	884400	989700	919600	860200	828600
1956	797100	803400	795000	779000	937200	856000	813900	789000	747000	781000	783000	777000
1957	757000	741000	777000	975900	996600	969000	913000	791000	789000	978200	982800	950600
1958	891000	943800	959600	926200	962100	969000	873400	845400	843300	849600	87000	793000
1959	763000	771000	765000	761000	763000	975900	975900	875600	841200	969000	937200	910800
1960	955200	928400	906400	871200	851700	757000	706500	672300	648200	729300	745000	777000
1961	843300	950600	924000	875600	862400	978200	973600	888800	849600	834900	795000	743000
1962	681800	670400	672300	685600	674200	674200	639200	568300	571700	501800	500200	506600
1963	505000	492200	497000	495400	556400	664700	650000	624800	610400	608600	623000	608600
1964	615800	626600	639200	678000	615800	549800	444000	402400	655400	687500	749000	765000
1965	789000	877800	902000	915200	980500	959800	941600	675600	871200	897600	918600	928400
1966	939400	948300	959800	980500	969000	952900	897600	913000	959800	921800	919600	908600
1967	906400	888800	862400	875600	915200	869000	828600	767000	799200	791000	801300	799200
1968	992000	987400	982800	973600	959800	946000	946000	902000	897600	888800	895400	906400
1969	913000	913000	913000	962100	978200	950600	871200	824400	843300	969000	943800	971300
1970	955200	975900	955200	964400	978200	937200	886600	830700	828600	837000	837000	843300
1971	847500	849600	851700	807600	765000	697000	708400	913000	998900	989700	941600	971300
1972	946000	946000	957500	952900	941600	899800	855900	841200	816000	791000	791000	777000
1973	729300	739000	761000	791000	751000	753000	695100	650000	621200	809700	824400	822300
1974	816000	818100	824400	828600	851700	837000	809700	899800	992000	998900	966700	987400
1975	978200	964400	952900	950600	966700	932800	950600	926200	921600	904200	915200	921800
MAX	992000	987400	962600	998900	996600	980000	975900	985100	998900	998900	982800	987400
MIN	424800	409400	410800	463500	1700	191200	180000	180800	175200	202800	214500	290000
MEAN	775682	780939	778979	802329	824277	828356	820367	766026	776318	791446	779541	775554
NO.	38	38	38	38	39	39	39	39	39	39	39	39
DISTR												
OF MEAN	8.2%	8.2%	8.2%	8.5%	8.7%	8.7%	8.4%	8.1%	8.2%	8.3%	8.2%	8.2%

COLORADO RIVER BASIN

08148500 North Llano River near Junction, Texas

LOCATION: Lat 30°31'06", long 99°48'38", Kimble County, 1,000 ft (305 m) upstream from the remains of the old Wilson Dam, 2.1 mi (3.4 km) northwest of Junction, and 4 mi (6 km) upstream from its confluence with the South Llano River.

DRAINAGE AREA: 914 mi<sup>2</sup> (2,367 km<sup>2</sup>).

PERIOD OF RECORD: October 1915 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,609.92 ft (518.136 m) above mean sea level, datum of 1929. Prior to Aug. 1, 1925, nonrecording gage at site 550 ft (168 m) downstream at same datum. Aug. 1, 1925 to Sept. 16, 1936, water-stage recorder 520 ft (158 m) downstream at same datum. Sept. 16, 1936 to June 22, 1940, nonrecording gages at various sites at same datum.

AVERAGE DISCHARGE: 81 years, 49,895 ac-ft/yr (61.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1916-75): Maximum discharge, 94,800 ft<sup>3</sup>/s (2,680 m<sup>3</sup>/s) Sept. 16, 1936 (gage height, 29.2 ft or 8.90 m, present site, based on gage-height relation curve); no flow at times most years.

Maximum stage since at least 1875, that of September 16, 1936.

REMARKS: Records good. Diversions of water for irrigation of about 600 acres (202 hm<sup>2</sup>) will materially affect the low flow.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	4080	2270	1920	-
1916	1930	1690	1520	1980	1280	493	549	468	217	243	450	769	11589
1917	873	800	892	738	2240	352	26.0	0	51.0	1.00	0	1.12	6085
1918	391	362	424	52700	793	4700	48.0	0	607	646	7020	1230	68921
1919	1860	1590	1600	1700	3330	9630	3870	15700	51200	12700	6070	3680	113130
1920	3860	3220	2850	2180	3580	1480	1070	7350	3120	2040	1890	1810	34470
1921	1660	1380	1650	1240	842	579	168	41.2	155	206	401	928	9470
1922	1030	770	4270	17300	10700	3900	973	556	205	285	727	665	41381
1923	676	1350	1920	27100	9230	2280	1150	224	4430	26200	39400	12500	126460
1924	7620	5020	6330	4630	8600	6560	1740	1030	1320	1480	1550	1660	47540
1925	1970	1490	1550	2310	93700	4490	1040	922	1280	7980	2100	1940	120772
1926	2010	1530	2050	1550	2710	710	573	101	69.8	956	1020	1110	14390
1927	912	865	619	671	287	63.5	668	108	12.3	26200	2140	1480	34226
1928	1110	834	1210	756	775	36700	1210	468	714	1240	1050	1200	47267
1929	898	716	793	940	1670	285	61.0	25.0	377	403	427	713	7308
1930	713	426	471	1710	861	1430	60.0	15.0	231	58000	1920	1800	67637
1931	1430	2120	2420	4340	3220	1320	1180	446	102	50.0	275	898	17801
1932	898	909	1240	696	6130	857	4530	77.0	162000	3920	2590	2260	186107
1933	2430	1850	1680	1340	32300	2870	916	331	294	290	430	707	45438
1934	1240	789	1250	3820	1410	158	4.30	0	0	0	0	60.0	8731
1935	367	967	681	1180	4780	115300	4590	2230	65930	4250	5880	2700	208855
1936	2140	1700	2230	1290	5490	2310	1020	324	126700	6070	2900	4320	156494
1937	3500	2660	3030	2390	1480	3010	631	250	683	860	1200	6700	26394
1938	4020	2630	2050	1570	1880	4110	179800	8060	3230	2280	1650	1780	213060
1939	3090	1950	1470	1220	965	452	30570	7270	910	5610	1610	1740	56857
1940	1560	1540	1160	3680	2190	1840	2180	5040	1260	950	1210	1420	24030
1941	1300	1200	8240	5610	4420	2090	2340	2380	1940	2150	1730	1590	34990
1942	1400	1010	859	1160	900	368	196	17580	15230	9610	2910	2060	53283
1943	1820	1380	1450	1420	1520	5720	1050	260	408	1550	930	1200	18708
1944	2760	1970	1970	4070	11280	1660	586	272	891	4480	1210	1310	32459
1945	1480	1400	1600	1470	729	354	214	105	35.0	69.0	219	492	8167
1946	760	655	680	1080	876	345	81.0	21.0	845	951	781	744	7819
1947	1440	1330	1210	825	6760	3210	1240	282	244	325	664	1080	18610
1948	950	750	750	716	1800	44430	8840	1330	3450	1290	1100	1370	66776
1949	1430	3040	3010	2280	3280	4360	1480	1050	1330	1630	1570	1570	26030
1950	1600	1350	1150	1930	1170	739	1710	544	491	373	403	610	12070
1951	672	593	579	489	390	1340	64.0	2490	130	59.0	49.0	38.0	6893
1952	125	276	337	945	3490	341	22.0	0	0	0	0	20.0	5556
1953	.40	5.00	146	85.0	3120	27.0	0	0	0	4.60	0	.80	3389
1954	34.0	47.0	42.0	72.0	343	36.0	0	0	0	0	0	0	574
1955	0	0	27.0	21.0	849	731	1120	3050	3290	1410	538	524	11560
1956	542	742	440	309	1360	115	4.40	0	0	30.0	0	0	3542
1957	0	0	11.0	2150	51820	9250	1360	1680	398	38390	3380	2470	110909
1958	2130	25020	6500	3270	2310	13710	2500	1520	11040	3540	2760	2250	76550
1959	2000	1660	1460	1420	1180	19250	4630	2150	1150	2390	1680	1820	40790
1960	2300	2420	2110	1560	974	317	3370	5640	1530	1220	1210	1900	24551
1961	2690	2600	2160	1680	1710	54110	6670	3100	2020	2570	2230	2240	83780
1962	1900	1550	1550	1820	833	1220	219	79.0	90.0	399	597	754	11011
1963	621	760	702	504	1010	403	105	43.0	47.0	40.0	163	483	5081
1964	642	1290	764	848	835	294	49.0	6450	25440	4660	2550	2080	45902

COLORADO RIVER BASIN

08148500 North Llano River near Junction, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	1630	2000	2050	1380	18560	5790	1780	950	640	670	879	1220	37749
1966	1300	1170	1110	1950	5710	1140	306	1560	5290	2200	1560	1510	24806
1967	1330	1100	998	932	315	60.0	549	120	323	337	802	922	7788
1968	5070	3030	2710	6320	4710	2220	1770	756	601	619	823	1280	29909
1969	1140	1070	1090	1050	1490	380	58.0	609	1770	16980	6480	4420	36537
1970	4060	2950	3280	2500	23630	8970	3030	1720	2080	2110	1650	1690	57670
1971	1670	1280	1170	1080	673	387	15130	24350	5450	4200	3030	2690	61110
1972	2210	2040	1760	1270	1720	1020	441	2880	5880	2340	1890	1710	25161
1973	1650	1930	2380	1900	1520	847	2740	2570	683	22440	2840	2050	43550
1974	1920	1510	1750	1320	10580	970	234	89540	50930	13930	14500	8230	195414
1975	5760	5810	5680	8070	9140	10290	6130	4690	3750	4020	4700	3710	71750
MAX	7620	25020	8240	52700	93700	115300	179800	89540	162000	58000	39400	12500	213060
MIN	0	0	11.0	21.0	287	27.0	0	0	0	0	0	0	574
MEAN	1749	1902	1795	3376	6358	6706	5144	3847	9542	5146	2492	1838	49895
NO.	60	60	60	60	60	60	60	60	60	61	61	61	60
DISTR OF MEAN	3.5%	3.8%	3.6%	6.8%	12.7%	13.4%	10.3%	7.7%	19.1%	10.3%	5.0%	3.7%	100%



COLORADO RIVER BASIN

08150000 Llano River near Junction, Texas

LOCATION: Lat 30°28'45", long 99°43'19", Kimble County, 600 ft (180 m) north of Farm Road 2169, 3 mi (5 km) east of Junction, and 3.8 mi (6.1 km) downstream from the confluence of the North Llano and South Llano Rivers.

DRAINAGE AREA: 1,874 mi<sup>2</sup> (4,854 km<sup>2</sup>).

PERIOD OF RECORD: October 1915 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,830.32 ft (496.922 m) above mean sea level, datum of 1929. Prior to Aug. 14, 1925, nonrecording gage, and Aug. 14, 1925 to May 17, 1940, water-stage recorder at present site and datum. May 18, 1940 to Aug. 17, 1944, water-stage recorder at site 5,330 ft (1,620 m) upstream at datum 8.0 ft (1.83 m) higher. Since Aug. 18, 1944, gage at site 5,330 ft (1,620 m) upstream has been used as an auxiliary gage for stages above 5 ft (1.5 m).

AVERAGE DISCHARGE: 61 years, 140,235 ac-ft/yr (172.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1915-76): Maximum discharge, 319,000 ft<sup>3</sup>/s (9,030 m<sup>3</sup>/s) June 14, 1935 (gage height, 41.4 ft or 12.62 m at auxiliary gage, from floodmarks); minimum, 3.1 ft<sup>3</sup>/s (0.088 m<sup>3</sup>/s) Aug. 16, 17, 1956.

Maximum stage since at least 1876, that of June 14, 1935.

REMARKS: Records good. There are several small diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1915	-	-	-	-	-	-	-	-	-	12800	9700	8730	-
1916	7560	6670	6140	6490	18100	5020	4290	4350	3720	4430	3640	4060	74470
1917	4270	3690	3650	3340	3250	2020	1610	1570	2830	2340	2450	2570	33590
1918	2580	2350	2690	64600	6820	5890	1460	1230	2980	3430	14500	5720	114250
1919	7010	5660	5210	4150	35400	22800	7130	57700	167000	22700	18300	13300	366360
1920	11800	10800	11200	9280	38700	7740	7320	10500	10900	9280	8930	8790	145240
1921	8730	7830	9960	6430	5340	6660	5310	5200	4170	3740	3380	3760	70510
1922	3790	3500	8720	60700	24600	7320	9520	3980	3670	3870	4210	4230	138110
1923	4340	7740	7110	37500	31600	8260	4520	3650	35500	167000	93500	21100	421820
1924	16000	15200	15000	11700	24900	13800	6100	4760	6260	6190	6020	6780	132710
1925	6790	5510	5370	6880	147000	13600	5520	5960	6490	11000	9950	8270	232340
1926	6340	5510	8870	8580	11300	6150	4580	3870	3290	4950	5700	6140	75280
1927	5010	5360	6210	4420	3800	3230	3780	3250	3190	36900	5770	5320	86240
1928	4970	4430	4770	4110	4330	43900	4510	3540	3730	4440	4400	4740	91870
1929	4610	3610	4050	4050	5280	3120	3000	2260	3370	3410	3240	4280	44280
1930	4300	3140	2930	3610	4260	5370	2880	3170	2460	65800	6490	5580	109990
1931	5020	5940	6140	18100	13300	5370	4910	3550	2640	2720	2820	3520	74030
1932	3710	3630	3860	3020	10300	3500	48300	4050	256000	14600	9820	7990	368780
1933	7930	6500	6210	5250	48300	8270	4840	3470	3420	3150	3460	3760	104560
1934	4060	4000	4510	6550	4030	2420	2180	1810	1800	1870	2440	2760	38450
1935	2750	2800	3170	3650	25480	344900	15450	8460	98970	11500	11260	8190	536580
1936	7230	5780	6950	5600	10320	7230	5420	3520	209300	22800	15170	11820	311140
1937	9080	7150	7660	6460	5530	5850	3600	3200	3410	3280	4290	44670	104180
1938	15210	10400	7490	8310	7870	6150	260500	16540	8620	7250	5970	6150	360460
1939	7210	5560	5160	3990	4720	4120	71630	13060	5050	22120	7170	6600	156390
1940	6280	5250	5140	9130	9570	8930	6880	8090	4710	4320	4990	5500	78790
1941	4820	4310	11290	11730	14400	6500	7390	6240	6260	7520	6250	5610	92320
1942	5270	4210	4050	5490	7340	3610	3170	26880	27960	20910	9000	7360	125250
1943	6650	5160	5600	5560	6520	25170	9250	4510	5250	6520	5110	5330	90630
1944	7860	7190	7220	6170	14390	5160	3470	3200	4550	7390	4700	4830	76130
1945	4920	4510	6090	5810	3590	2800	2640	2280	1960	3140	2670	2890	43300
1946	3640	3190	3450	3900	4060	3120	2170	1560	2680	6480	3430	3590	41270
1947	6060	4860	4670	3870	8570	5790	3200	2500	2250	2300	3030	3560	50660
1948	3490	3430	3260	2670	5470	184500	56870	7380	9430	6260	4810	4800	292370
1949	4840	28180	11150	8810	8570	8840	5270	8640	5610	7470	6840	6380	110600
1950	6310	5290	4890	5350	4290	3420	5100	3470	4100	4300	3740	3850	54110
1951	3730	3280	3560	3290	3170	4950	1740	3850	1810	1900	2330	2380	35990
1952	2370	2160	2390	2910	5250	1690	1190	930	1100	1360	1930	2280	25560
1953	2200	1770	2100	1550	4220	737	833	1220	1340	1470	1810	2040	21290
1954	2050	1550	1660	1710	1860	4330	2630	902	924	1340	1660	1920	22536
1955	1990	1720	1770	1270	2170	2390	5870	5230	35080	6050	3080	2980	69600
1956	2850	2740	2320	1840	2640	954	648	699	778	970	1280	1560	19279
1957	1610	1580	1940	56070	103500	29290	6570	6340	4680	102200	13030	11140	337950
1958	8550	45290	17130	10110	8800	36730	10060	8490	36170	14320	11930	10780	218360
1959	9460	7630	7570	7840	7090	26940	12530	8020	5710	7490	5950	6570	112800
1960	7390	8210	7880	6770	5400	3860	8710	66390	9870	11530	9910	14490	160410
1961	13360	12380	11620	8970	8500	95520	18840	12320	8940	9190	8510	8730	216880
1962	7740	6560	6970	7380	5460	6450	4080	3520	4030	4280	4380	4810	65660
1963	5120	4750	5130	4080	7800	4730	3040	4720	3830	3610	3990	4430	55230
1964	4220	5140	4740	4980	4320	2960	2000	9100	48780	12760	7830	7320	114150

COLORADO RIVER BASIN  
08150000 Llano River near Junction, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	6670	6950	6760	5440	28560	13290	5860	4460	3430	3880	4100	4770	94170
1966	4670	4270	4490	10110	24400	4380	3160	7360	25580	8300	6000	5710	108430
1967	5770	4690	4990	4230	3600	2640	4160	3020	3110	2740	3960	4470	47380
1968	39390	10560	10700	18600	12830	7560	6490	4330	4530	4710	4760	5540	130000
1969	5540	4720	4620	4560	5100	4650	2940	4280	6110	38730	15140	12900	109290
1970	11810	10090	14690	9530	34630	13300	7940	6290	6580	7330	6450	6650	135290
1971	6770	5680	5810	5430	4660	3540	17220	55790	14260	21540	10470	9650	160820
1972	8780	7560	7200	6010	10180	6670	5170	18120	13190	8630	7570	7500	106580
1973	7410	6890	7610	7190	6330	5590	8760	10940	5440	110600	11230	9200	197390
1974	8540	6790	7570	6100	14940	4690	3820	141300	71260	25230	21050	16460	327750
1975	13490	12880	12210	14290	20470	24880	16460	12640	111800	11600	11970	11310	274000
MAX	39390	45290	17130	64600	147000	344900	260500	141300	256000	167000	93500	44670	536580
MIN	1610	1550	1660	1270	1860	737	648	699	778	970	1280	1560	19279
MEAN	6865	6736	6391	9592	15286	18554	12575	10794	22531	15573	8155	7183	140235
NO.	60	60	60	60	60	60	60	60	60	61	61	61	60
DISTR													
OF MEAN	4.9%	4.8%	4.6%	6.8%	10.9%	13.2%	9.0%	7.7%	16.1%	11.1%	5.8%	5.1%	100%

COLORADO RIVER BASIN  
08150700 Llano River near Mason, Texas

LOCATION: Lat 30°39'35", long 99°06'29", Mason County, 98 ft (30 m) downstream from the bridge on U.S. Highway 87, 1.0 mi (1.6 km) upstream from Beaver Creek, 9.1 mi (14.6 km) southeast of Mason, and 10.2 mi (16.4 km) downstream from the James River.

DRAINAGE AREA: 3,280 mi<sup>2</sup> (8,500 km<sup>2</sup>).

PERIOD OF RECORD: April 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,230.36 ft (375.014 m) above mean sea level, datum of 1929. Prior to Jan. 19, 1971, at site 190 ft (58 m) upstream at same datum.

AVERAGE DISCHARGE: 8 years, 262,204 ac-ft/yr (323.3 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 161,000 ft<sup>3</sup>/s (4,280 m<sup>3</sup>/s) Oct. 13, 1973 (gage height, 26.30 ft or 8.016 m); minimum, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) July 23, 1971.

Maximum flood since at least 1876 occurred on June 14, 1935 (discharge, 388,000 ft<sup>3</sup>/s or 11,000 m<sup>3</sup>/s) based on slope-area measurement of the peak flow at a site 17.0 mi (27.4 km) downstream.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	41310	45930	13090	8460	5270	5780	5470	6230	8290	-
1969	7360	6490	6300	7850	7880	7130	5160	6270	13200	94290	27270	20300	209500
1970	18780	17040	37600	18310	54590	19860	10110	7490	8140	8680	7810	7800	216210
1971	7450	6990	6900	6610	5630	3560	24980	98610	19420	59980	16070	17680	273880
1972	12690	10160	9010	6800	17900	7810	4990	22320	20130	10710	10410	9900	142830
1973	10840	13480	13560	11030	8310	14650	13870	20960	6840	198100	18190	13970	343800
1974	12480	9040	8920	7450	29490	6000	4210	204800	92020	26720	40160	27440	468730
1975	20350	22930	17730	21610	54270	35650	17230	16410	14060	14950	14630	13590	263410
MAX	20350	22930	37600	41310	54590	35650	24980	204800	92020	198100	40160	27440	468730
MIN	7360	6490	6300	6610	5630	3560	4210	5270	5780	5470	6230	7800	142830
MEAN	12850	12304	14289	15121	28000	13469	11126	47766	22449	52363	17596	14871	262204
NO.	7	7	7	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	4.9%	4.7%	5.4%	5.8%	10.7%	5.1%	4.2%	18.2%	8.6%	20.0%	6.7%	5.7%	100%

COLORADO RIVER BASIN

08150800 Beaver Creek near Mason, Texas

LOCATION: Lat 30°38'36", long 99°05'44", Mason County, at the bridge on U.S. Highway 87, 1.4 mi (2.3 km) upstream from the Llano River, 6.4 mi (10.3 km) downstream from Spring Creek, and 11.1 mi (17.9 km) southeast of Mason.

DRAINAGE AREA: 218 mi<sup>2</sup> (565 km<sup>2</sup>).

PERIOD OF RECORD: August 1963 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,253.24 ft (381.988 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 13,759 ac-ft/yr (17.0 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 23,200 ft<sup>3</sup>/s (657 m<sup>3</sup>/s) May 16, 1965 (gage height, 13.58 ft or 4.139 m); no flow at times most years.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	40	526	691	364	135	-
1964	203	479	643	164	96.0	31.0	20	1650	9910	317	238	171	13902
1965	147	1360	405	301	8050	262	97.0	22.0	979	149	142	198	12112
1966	168	156	122	5390	763	125	66.0	288	1520	96.0	68.0	90.0	8852
1967	113	101	80.0	51.0	441	25.0	14.0	5.50	346	197	593	202	2169
1968	11230	1170	4900	3880	5910	793	156	41.0	180	70.0	333	369	29032
1969	137	186	195	862	959	382	170	398	972	17930	1920	2350	26461
1970	1090	1370	6460	1610	1470	528	90.0	30.0	313	289	140	156	13546
1971	113	130	97.0	135	96.0	13.0	345	4230	421	9150	1030	676	16436
1972	637	500	329	179	1570	124	11.0	372	144	96.0	153	124	4239
1973	234	824	317	241	139	247	625	775	121	5570	472	293	9858
1974	289	178	169	120	170	20.0	7.80	3270	273	2180	1400	478	8555
1975	565	1940	627	3550	12090	2090	797	597	307	1060	339	277	24239
MAX	11230	1940	6460	5390	12090	2090	797	4230	9910	17930	1920	2350	29032
MIN	113	101	80.0	51.0	96.0	13.0	20	40	121	70.0	68.0	90.0	2169
MEAN	1244	700	1195	1374	2646	387	198	898	1232	2907	553	425	13759
NC.	12	12	12	12	12	12	12	13	13	13	13	13	12
DISTR OF MEAN	9.0%	5.1%	8.7%	10.0%	19.2%	2.8%	1.4%	6.5%	9.0%	21.1%	4.0%	3.1%	100%

COLORADO RIVER BASIN

08151000 Llano River near Castell, Texas

LOCATION: Lat 30°43', long 98°53', Llano County, 4 mi (6.4 km) upstream from Hickory Creek, and 4.5 mi (7.2 km) east of Castell.

DRAINAGE AREA: 3,747 mi<sup>2</sup> (9,704.7 km<sup>2</sup>).

PERIOD OF RECORD: December 1923 to September 1939.

GAGE: Staff gage. Datum of gage is 1,121.77 ft (341.9 m) above mean sea level, datum of 1929. September 30, 1930 to June 14, 1935, water-stage recorder at same site and datum.

AVERAGE DISCHARGE: 17 years, 297,194 ac-ft/yr (368.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-39): Maximum discharge, 388,000 ft<sup>3</sup>/s (10,968.2 m<sup>3</sup>/s) June 14, 1935 (gage height, 37.0 ft or 11.3 m, from floodmarks); minimum, 6.4 ft<sup>3</sup>/s (0.2 m<sup>3</sup>/s) August 26, 1934 (gage height, 0.05 ft or 0.015 m).

REMARKS: Records good. There are several small diversions above the station which slightly reduce the low-water flow.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	556 00	-
1924	28 200	22 800	26 600	21 400	24 900	29 000	7 140	4 830	7 260	6 900	6 980	82 40	194 250
1925	8 490	6 810	6 360	10 900	7 6000	18 000	4 290	13 500	12 400	52 400	56 300	110 00	276 450
1926	15 900	9 540	32 400	30 600	20 700	27 400	6 650	3 680	3 200	15 200	9 510	93 20	184 100
1927	8 310	28 300	12 400	11 000	6 740	28 600	7 620	3 680	3 940	78 700	10 600	69 50	206 840
1928	6 900	6 440	5 770	5 130	7 260	5 7800	5 820	4 340	4 790	4 840	5 150	57 80	119 520
1929	5 180	4 510	5 450	5 000	2 9300	7 260	3 730	1 490	2 7700	4 160	3 680	51 20	102 580
1930	4 830	3 790	3 820	4 880	10 300	3 8300	1 990	1 910	9 280	1 72000	12 000	143 00	277 400
1931	20 800	27 300	15 500	21 400	2 3500	8 390	10 100	4 160	2 540	2 800	3 710	64 60	146 660
1932	7 750	10 700	13 600	5 790	2 4000	6 190	13 1000	4 510	29 4000	19 700	13 200	123 00	542 740
1933	12 400	9 940	11 000	8 090	7 8700	11 100	4 570	3 410	3 660	3 640	4 060	46 20	155 390
1934	5 900	6 500	6 210	29 900	9 960	2 400	1 380	7 50	1 970	1 560	2 530	32 00	72 260
1935	3 420	7 390	4 410	4 430	16 0000	69 1900	2 5070	11 530	12 5700	15 930	14 740	130 30	1077 550
1936	10 450	9 130	10 070	6 480	2 2790	8 740	6 810	3 350	40 3900	50 540	33 640	202 60	586 180
1937	14 780	10 730	12 500	8 980	8 760	8 730	3 540	2 520	5 370	5 720	8 050	69 5 80	159 260
1938	50 930	26 260	14 180	13 920	13 640	16 040	23 6500	22 250	9 620	9 830	7 020	77 30	427 920
1939	12 340	7 060	7 270	6 830	8 190	6 930	5 6350	17 940	5 140	-	-	-	-
MAX	50 930	28 300	32 400	30 600	16 0000	69 1900	23 6500	22 250	40 3900	17 2000	56 300	69 5 80	1077 550
MIN	3 420	3 790	3 820	4 430	6 740	2 400	1 380	7 50	1 970	1 560	2 530	32 00	72 260
MEAN	13 505	12 325	11 721	12 171	32 796	60 424	32 036	6 491	5 7542	29 595	12 745	158 43	297 194
NO.	16	16	16	16	16	16	16	16	16	15	15	16	15
DISTR OF MEAN	4.5%	4.1%	3.9%	4.1%	11.0%	20.3%	10.8%	2.2%	19.4%	10.0%	4.3%	5.3%	100%

COLORADO RIVER BASIN  
08151500 Llano River at Llano, Texas

LOCATION: Lat 30°45'04", long 98°40'10", Llano County, 0.4 mi (0.6 km) downstream from the bridge on State Highway 16, and 7 mi (11 km) upstream from the Little Llano River.

DRAINAGE AREA: 4,233 mi<sup>2</sup> (10,963 km<sup>2</sup>).

PERIOD OF RECORD: October 1939 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 970.01 ft (295.659 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 37 years, 255,864 ac-ft/yr (1315.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 232,000 ft<sup>3</sup>/s (6,570 m<sup>3</sup>/s) Sept. 10, 1952 (gage height, 32.6 ft or 9.94 m); no flow at times in 1952-56 and 1964.

Maximum stage since at least 1879, 41.5 ft (12.65 m) June 14, 1935, discharge, 380,000 ft<sup>3</sup>/s (10,800 m<sup>3</sup>/s), from information by a local resident.

REMARKS: Records good. There are many small diversions above the station. Part of the low flow of the Llano River disappears into various formations, many of which are faulted, between stations near Junction and Llano.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	-	23870	10510	8460	-
1940	7680	11360	6500	25790	20540	62960	27030	7550	4490	8790	22140	46560	251390
1941	13040	26690	37720	70020	65570	25560	15990	15090	17160	47660	13270	10850	358570
1942	9020	7240	6520	40520	25060	11930	3770	32550	33440	36620	30270	12300	249240
1943	10220	7300	8560	8200	7500	80850	19540	3520	10190	9880	7270	10060	183490
1944	21260	20920	19450	10440	53010	20070	3950	6060	13700	9120	7400	11710	197090
1945	28080	28110	21160	29520	8700	5140	2710	2670	2580	8310	4100	5010	146110
1946	8580	10580	5920	32660	45050	8440	1570	469	12050	12300	6260	5490	149369
1947	41730	10260	18830	10270	14560	14360	3640	2170	1680	1820	3380	4670	127370
1948	4530	7140	4870	6310	13280	162000	76980	6870	13680	5920	5280	5610	334470
1949	7280	36280	18530	40000	21550	15740	9940	9810	11660	10390	8910	9160	199250
1950	9720	10080	6620	13040	16680	5510	7090	3470	13110	4600	3900	4360	98380
1951	4210	4430	4330	3870	12380	5330	528	2580	3630	1110	2180	2670	47248
1952	2650	2210	2640	21770	14880	3200	424	5440	231500	2120	3710	26550	311659
1953	12050	6610	5490	3060	37360	477	1770	4000	4300	5930	2010	2190	85242
1954	2830	2090	1450	2310	9260	2120	5920	3040	3340	2440	2240	1690	32413
1955	4610	2830	3340	1250	92810	13090	16670	25040	55910	10470	3890	3530	233440
1956	3360	4200	2360	1570	8380	572	0	803	197	2900	1230	1940	27532
1957	1950	2860	7190	132900	206000	81030	7590	9550	4710	219300	46910	22270	742260
1958	28470	93290	52310	22700	37830	55450	13670	11150	38920	20130	16840	14720	405480
1959	12220	11460	9040	12460	8840	73260	23890	10280	5570	103700	10740	15220	296700
1960	27480	26740	15560	17620	6740	4180	14500	119300	12970	19540	17000	32760	318610
1961	37840	48050	23900	13450	10160	192200	33930	15470	10450	12570	11690	12360	422070
1962	11140	8760	8810	11280	6040	11670	3630	2360	4390	5480	5690	6830	86080
1963	5930	5840	6130	4890	10830	4620	1880	3360	6030	3850	8950	5800	68110
1964	6050	9290	11080	6720	6960	1810	161	14760	177100	27440	23680	11640	296691
1965	11110	43700	13960	9780	85750	20550	6310	3930	5790	6060	5750	7960	220670
1966	6970	6210	5680	35350	31980	5440	3260	13150	46170	11060	7200	7120	179790
1967	6840	5740	5600	4870	21350	1990	18200	2070	4780	4170	11020	6740	93620
1968	152700	26760	63020	72630	75190	24480	11250	6020	7890	5520	6610	10030	464100
1969	7430	7500	7170	20080	19930	10350	5740	9800	18170	196500	45800	31040	379510
1970	25120	29670	94650	32720	63660	24010	9490	5820	7980	8670	8830	8890	319510
1971	7570	7470	8250	6880	6530	3310	20290	124300	26960	100700	23500	25710	361470
1972	19700	14630	10000	7020	34440	8300	4810	21780	19970	10760	10110	10030	171550
1973	11160	17090	15070	14650	9090	14440	10320	31290	6640	227500	20690	17890	395830
1974	15090	10290	9000	6670	57150	6480	2890	221700	101400	39010	59790	33240	563260
1975	25490	54690	21210	28980	125100	51500	23830	18190	15920	15910	15040	14400	410260
MAX	152700	93290	94650	132900	206000	192200	76980	221700	231500	227500	59790	46560	742260
MIN	1950	2090	1450	1250	6040	472	0	5440	3340	1110	1230	1690	27532
MEAN	16976	17566	15632	21735	35898	29234	11477	21360	26434	33571	13344	12637	255864
NO.	36	36	36	36	36	36	36	36	36	37	37	37	36
DISTR													
OF MEAN	6.6%	6.9%	6.1%	8.5%	14.0%	11.4%	4.5%	8.3%	10.3%	13.1%	5.2%	4.9%	100%

**COLORADO RIVER BASIN**  
**08152000 Sandy Creek near Kingsland, Texas**

LOCATION: Lat 30°33'30", long 98°28'19", Llano County, at the bridge on State Highway 71, 3.9 mi (6.3 km) upstream from Lake Lyndon B. Johnson, and 7.3 mi (11.7 km) south of Kingsland.

DRAINAGE AREA: 327 mi<sup>2</sup> (847 km<sup>2</sup>).

PERIOD OF RECORD: October 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 862.31 ft (262.832 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 48,223 ac-ft/yr (59.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 14,100 ft<sup>3</sup>/s (399 m<sup>3</sup>/s) Oct. 31, 1974 (gage height, 13.58 ft or 4.139 m); no flow at times most years.

The flood of Sept. 11, 1952, which was the highest since at least 1881, reached a stage of 34.2 ft or 10.42 m (discharge, 163,000 ft<sup>3</sup>/s or 4,620 m<sup>3</sup>/s), from slope-area measurement at the gage site.

REMARKS: Records good.

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	-	-	-	-	234	74.1	125	-
1967	320	233	115	101	6690	34.7	6.60	22.6	2050	2800	3400	938	16711
1968	31410	5940	14930	6020	17260	3890	856	198	1180	487	858	1680	84709
1969	570	755	1110	12030	3160	3340	40.0	102	2120	13670	8440	8040	53377
1970	2380	2230	14870	2930	24610	4310	453	18.0	834	832	493	345	54305
1971	419	811	356	667	179	3.30	23.0	3900	820	18840	1710	1950	29678
1972	1070	799	505	4240	13760	8280	636	717	620	1480	1120	819	34046
1973	1960	4830	4970	1860	3150	1300	4430	1680	427	2530	976	576	28689
1974	616	445	520	466	6850	227	8.70	22030	4210	8910	11600	3030	58913
1975	4360	23210	3820	2410	31370	9930	2820	1230	1650	570	659	947	82976
MAX	31410	23210	14930	12030	31370	9930	4430	22030	4210	18840	11600	8040	84709
MIN	320	233	115	101	179	3.30	6.60	18.0	427	234	74.1	125	16711
MEAN	4789	4361	4577	3414	11892	3479	1030	3322	1546	5035	2933	1845	48223
NO.	9	9	9	9	9	9	9	9	9	10	10	10	9
DISTR OF MEAN	9.9%	9.0%	9.5%	7.1%	24.7%	7.2%	2.1%	6.9%	3.2%	10.4%	6.1%	3.8%	100%

COLORADO RIVER BASIN  
08153000 Pedernales River at Stonewall, Texas

LOCATION: Lat 30°15', long 98°40', Gillespie County, at Stonewall, and 2 mi (3.2 km) below the mouth of South Grape Creek.

DRAINAGE AREA: 647 mi<sup>2</sup> (1,675.7 km<sup>2</sup>).

PERIOD OF RECORD: August 1924 to September 1934.

GAGE: Staff gage. Datum of gage is 1,420.12 ft (432.8 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 43,470 ac-ft/yr (53.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-34): Maximum discharge, 28,300 ft<sup>3</sup>/s (801.4 m<sup>3</sup>/s) May 28, 1929 (gage height, 14.25 ft or 4.3 m, from floodmark); minimum, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) at times during the period July to September 1934.

Maximum stage known, about 24.0 ft (7.3 m) in 1900.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	364	577	446	457	670	-
1925	718	559	546	919	4130	235	496	1250	5080	18900	6360	837	40030
1926	1100	710	5260	5450	4220	2300	7130	416	256	3740	2190	2290	35062
1927	805	22500	6950	6690	2990	7520	4290	1690	833	6950	678	848	62744
1928	750	1060	879	774	3400	3720	600	277	539	215	280	556	13050
1929	1600	320	512	3050	46200	2710	8360	255	213	283	358	429	64290
1930	267	251	540	461	24900	4930	224	159	851	17200	1010	984	51277
1931	3290	8160	5690	10400	7130	4810	4430	682	290	290	5870	1570	52612
1932	3700	4120	9840	3670	5900	1080	25200	3350	10200	2140	1660	3860	74720
1933	6520	3080	3970	2980	6760	875	640	283	268	213	299	349	26237
1934	4070	1430	2470	3670	2530	227	124	113	76.0	-	-	-	-
MAX	6520	22500	9840	10400	46200	7520	25200	3350	10200	18900	6360	3860	74720
MIN	267	251	512	461	2530	227	124	113	76.0	213	280	349	13050
MEAN	2282	4219	3666	3806	10816	2791	5149	804	1744	5038	1916	1239	43470
NO. OF MEAN	10	10	10	10	10	10	10	11	11	10	10	10	9
DISTR	5.2%	9.7%	8.4%	8.8%	29.9%	6.4%	11.8%	1.8%	4.0%	11.6%	4.4%	2.9%	100%



COLORADO RIVER BASIN

08153500 Pedernales River near Johnson City, Texas

LOCATION: Lat 30°17'27", long 98°24'01", Blanco County, at the bridge on U.S. Highway 281, 0.2 mi (0.3 km) downstream from Towhead Creek, 1.1 mi (1.8 km) northeast of Johnson City, and 3.4 mi (5.5 km) downstream from Buffalo Creek.

DRAINAGE AREA: 947 mi<sup>2</sup> (2,453 km<sup>2</sup>).

PERIOD OF RECORD: June 1939 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 1,096.70 ft (334.274 m) above mean sea level, datum of 1929. May 4 to Sept. 13, 1939, nonrecording gage, and Sept. 14, 1939 to Sept. 10, 1952, water-stage recorder at the upstream side of bridge at same datum. Sept. 11, 1952 to June 29, 1953, nonrecording gage, and June 30, 1953 to Oct. 7, 1954, water-stage recorder at site 360 ft (110 m) downstream at same datum.

AVERAGE DISCHARGE: 37 years, 121,859 ac-ft/yr (150.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 441,000 ft<sup>3</sup>/s (12,500 m<sup>3</sup>/s) Sept. 11, 1952 (gage height, 42.5 ft or 12.95 m, from floodmark); no flow at times in 1951-52, 1954, 1956-57, 1963-64, 1967-68, and 1971.

Maximum stage since at least 1850, 42.5 ft (12.95 m) Sept. 11, 1952.

REMARKS: Records good. There are some diversions above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	1930	5620	1400	174	30530	1790	1110	-
1940	1070	7330	8290	18050	9140	35080	9590	1390	753	6860	11470	39370	148393
1941	9880	31400	37910	58150	53730	16730	8120	2120	3650	14960	3420	3340	243410
1942	2790	2420	2290	9170	4880	2950	2900	16990	5640	40410	4280	3270	97990
1943	2690	2080	4410	3260	2140	8480	7090	334	1410	778	671	1130	34473
1944	2490	2990	6400	2550	67100	7760	1580	60480	13730	5430	4360	18710	193580
1945	20780	18630	40160	36270	11670	5520	3120	2810	19540	11680	3900	5170	179250
1946	7850	7510	6000	15860	22470	8040	1790	719	3150	8100	17040	15070	113599
1947	32460	11830	11960	10900	8660	7690	1550	2650	566	612	1050	2300	92228
1948	1390	1960	1930	10140	5050	1910	3710	650	925	1130	576	872	30243
1949	1130	4280	3320	12000	4090	6570	1140	861	1690	1080	540	1450	38151
1950	1130	1740	916	1400	3320	3390	345	1620	1360	186	225	513	16145
1951	507	649	1940	986	2620	8360	36.0	1.40	1420	27.0	150	3.34	17030
1952	285	330	736	6620	18050	7060	4020	6.00	376800	2280	3080	22320	441587
1953	5900	3480	4680	5430	3270	492	276	2970	4010	4000	1150	1200	36858
1954	1040	564	473	3400	1810	217	21.0	0	620	3440	569	150	12304
1955	2130	3460	378	132	17380	2980	5430	5810	9130	834	224	421	48309
1956	391	647	127	3.60	126	74.0	.20	139	6.10	2.130	1080	357	5081
1957	104	268	6610	94890	35350	32640	1620	480	10640	25900	14900	8440	231842
1958	10950	27120	20590	10250	25040	61530	6670	4540	24170	19950	13880	8560	233250
1959	6520	7580	5690	22850	8560	31020	3880	2520	3520	125500	9110	18380	245130
1960	17760	26790	16110	9340	5550	2290	4540	5800	1400	28770	8200	21130	147680
1961	15850	40760	13870	7350	4380	23240	5020	2230	3730	2750	4170	3120	126470
1962	2540	2040	2020	4270	7900	15400	1000	638	1680	3300	1260	1580	43628
1963	1160	1110	713	849	3180	828	227	17.0	1940	804	7460	1420	19708
1964	2980	3950	10850	2760	1000	271	8.90	5.00	7450	1150	2950	998	34373
1965	887	18640	2740	6210	49840	24850	2280	613	21660	5380	3240	14610	150950
1966	5220	5120	4600	7660	6160	2090	1160	1460	3320	1180	972	902	39844
1967	958	1040	721	945	2070	130	2.90	.70	10260	15510	7080	4050	42768
1968	72170	10360	21430	15750	23390	7010	10540	1450	2840	2040	2070	4100	173150
1969	2000	2810	4890	12920	15410	9310	3670	4980	4120	55570	11980	16090	143750
1970	8200	10320	32910	12330	72340	14350	3820	1440	2490	1980	1630	1670	163480
1971	1540	1310	1040	758	451	31.0	.06	19200	2470	47070	6940	8030	88840
1972	5980	5040	3760	4500	34490	17470	3280	4330	2050	2430	2860	2260	88450
1973	3940	7520	10610	7520	12990	29570	38260	10860	5370	15890	7070	4670	154270
1974	4480	3100	3140	2150	33630	2790	607	50340	22760	63310	35710	13590	235607
1975	15300	63860	16650	13400	102900	43230	17230	7440	5450	4210	3870	4150	297890
MAX	72170	63860	40160	94890	102900	61530	38260	60480	376800	125500	35710	39370	441587
MIN	104	268	127	3.60	126	31.0	.06	0	6.10	27.0	150	150	5081
MEAN	7568	9446	8641	11973	18893	11981	4328	5927	15727	15058	5430	6887	121859
NO.	36	36	36	36	36	37	37	37	37	37	37	37	36
DISTR													
OF MEAN	6.2%	7.8%	7.1%	9.8%	15.5%	9.8%	3.6%	4.9%	12.9%	12.4%	4.5%	5.7%	100%

COLORADO RIVER BASIN  
08154000 Pedernales River near Spicewood, Texas

LOCATION: Lat 30°25'15", long 98°04'50", Travis County, 5.4 mi (8.7 km) upstream from the mouth, and 8 mi (12.9 km) southeast of Spicewood, Burnet County.

DRAINAGE AREA: 1,294 mi<sup>2</sup> (3,351.5 km<sup>2</sup>).

PERIOD OF RECORD: December 1923 to July 1939.

GAGE: Staff gage. Datum of gage is 624.88 ft (190.5 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 17 years, 187,835 ac-ft/yr (206.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1923-39): Maximum discharge, 155,000 ft<sup>3</sup>/s (4,389.6 m<sup>3</sup>/s) May 28, 1929 (gage height, 40.4 or 12.3 m, from floodmarks); no flow at times.

A flood in 1889 reached about the same stage as that of May 28, 1929, from information furnished by local residents.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1923	-	-	-	-	-	-	-	-	-	-	-	43900	-
1924	13400	20200	32900	25800	29400	34700	2240	631	6910	892	1140	1600	169813
1925	1550	1030	926	634	3750	418	0	964	3810	37800	22200	2050	75132
1926	7450	3420	14600	57600	20000	5150	37300	1440	398	6950	4900	3550	162758
1927	2250	31200	19900	30100	6820	21000	4500	913	584	16500	1540	1850	137157
1928	1740	2720	2930	1520	2880	4900	574	358	1410	604	678	1600	21914
1929	1830	778	1300	3370	234000	11800	15600	465	96.0	167	1960	1880	273266
1930	1140	916	1050	666	68200	4800	413	36.0	631	22800	2960	3140	106752
1931	11700	35100	23300	22500	18300	5080	14800	1960	289	137	6130	3200	142496
1932	6270	7250	30900	6130	7810	2070	23900	2100	18300	2660	2280	4350	114020
1933	8300	3980	5050	3300	7500	904	799	1320	424	97.0	61.0	407	32142
1934	11700	7610	7990	19800	3330	360	1940	181	0	0	3840	416	57167
1935	650	3960	396	532	72330	194200	8270	3260	74360	6820	3780	22600	391158
1936	7390	4720	7540	2790	76750	21090	79540	4200	259900	31890	23580	25040	544430
1937	20410	14260	35420	14210	7470	21660	8590	1090	3400	18580	4180	21730	171000
1938	52280	20930	14450	31610	21920	12070	17760	1340	1280	679	1100	1310	176729
1939	4560	2200	1930	2320	4030	4530	4690	-	-	-	-	-	-
MAX	52280	35100	35420	57600	234000	194200	79540	4200	259900	37800	23580	43900	544430
MIN	650	778	396	532	2880	360	0	36.0	0	0	61.0	407	21914
MEAN	9539	10017	12536	13930	36531	21546	13807	1352	24786	9772	5355	8664	167835
NO. OF MEAN	16	16	16	16	16	16	16	15	15	15	15	16	15
DISTR													
OF MEAN	5.7%	6.0%	7.5%	8.3%	21.8%	12.8%	8.2%	.8%	14.8%	5.8%	3.2%	5.2%	100%

COLORADO RIVER BASIN  
08154500 Lake Travis near Austin, Texas

LOCATION: Lat 30°23'29", long 97°54'24". Travis County, in the powerhouse at Mansfield Dam on the Colorado River, 7.3 mi (11.7 km) downstream from Sandy Creek, and 12 mi (19 km) northwest of Austin.

DRAINAGE AREA: 38,130 mi<sup>2</sup> (98,760 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: September 1940 to December 1975. Prior to October 1948, published as "Marshall Ford Reservoir near Austin".

GAGE: Nonrecording gage. Datum of gage is 0.12 ft (0.037 m) above mean sea level. Prior to Dec. 26, 1940, staff gages on the left bank near the dam, datum at mean sea level, unadjusted. Dec. 26, 1940 to February 1942, mercury manometer in the powerhouse, datum at mean sea level, unadjusted.

EXTREMES: Period of record (1940-75): Maximum contents, 1,770,000 ac-ft (2,182.4 hm<sup>3</sup>) May 18, 1957 (gage height, 707.4 ft or 216.62 m); minimum contents, 332,600 ac-ft (410 hm<sup>3</sup>) Aug. 13, 14, 1951 (gage height, 614.2 ft or 187.21 m).

REMARKS: The lake is formed by a 7,098-foot long (2,163-m) concrete gravity, earth, and rockfill dam, with a capacity of 1,172,000 ac-ft (1,445.1 hm<sup>3</sup>). Storage began on Sept. 9, 1940 and the dam was completed in early 1942. The capacity between gage heights 681.0 and 714.0 ft (207.57 and 217.63 m) is 778,000 ac-ft (959 hm<sup>3</sup>) and is reserved for flood control. Water is used for power development and for irrigation below Columbus. The dam is operated by the Lower Colorado River Authority.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1940	-	-	-	-	-	-	-	-	52300	47800	211000	339000
1941	331000	338000	331000	335000	323000	331000	316000	342000	337000	484000	583000	587000
1942	582000	595000	571000	693000	972000	1030000	987000	1055000	1218000	1354100	1280000	1222000
1943	1121000	1069000	1064000	1003000	954000	968000	913000	823000	794000	757000	732000	719000
1944	730000	743000	852000	871000	1107000	1138000	1006000	1016000	1021000	933500	932000	922600
1945	976900	1018000	1076000	1160000	1118000	1091000	1188000	1058000	1034000	993000	924200	892200
1946	889200	956800	1001000	1080000	1100000	1053000	1020000	913400	836700	776100	838200	854700
1947	918000	866700	859200	857700	808600	738900	663600	605700	564000	559700	559700	559700
1948	545300	547400	549400	566200	552500	656500	669500	615200	606900	584500	558700	565100
1949	568300	605700	581000	663600	950600	966000	933500	883200	872700	845700	820300	780200
1950	742800	719400	709300	727200	699400	654100	581000	528800	520600	496900	479400	446400
1951	396800	399400	408800	397700	352600	339800	346200	359800	398500	407100	407100	400200
1952	400200	391600	383000	380500	376200	337400	359800	384800	1100000	1076000	1082000	1164000
1953	1180000	1170000	1162000	1136000	1141000	1064000	959800	922600	958300	1020000	1030000	1032000
1954	1062000	1064000	1030000	993000	1138000	1102000	1028000	950600	935000	927300	908600	887700
1955	884700	886200	859200	807100	1112000	1170000	1162000	1162000	1194000	1160000	1118000	1109000
1956	1129000	1118000	1069000	1021000	1172000	1107000	986600	913400	905800	895200	911900	922600
1957	925800	939700	964500	1566000	1677000	1320000	1116000	1060000	1018000	1354000	1264000	1141000
1958	1132000	1298000	1204000	1114000	1162000	1210000	1085000	967600	994600	1003000	1044000	1109000
1959	1136000	1112000	1109000	1107000	1028000	1102000	1164000	1087000	981700	1308000	1145000	1118000
1960	1152000	1200000	1123000	1082000	998000	944400	881700	913400	871200	898200	921100	1055000
1961	1168000	1172000	1112000	1020000	953600	1192000	1150000	1051000	1016000	1076000	993000	918000
1962	925000	947000	941000	952000	895000	848000	777000	741000	797000	936000	930000	910000
1963	899000	907000	881000	838000	746000	632000	522000	419000	350000	340000	365000	386000
1964	399000	432000	479000	456000	448000	422000	398000	369000	542000	562000	611000	623000
1965	642000	801000	833000	827000	1380000	1210000	1127000	1093000	1152000	1170000	1130000	1160000
1966	1160000	1184000	1212000	1246000	1162000	1091000	1034000	989800	1089000	1105000	1075000	1082000
1967	1089000	1138000	1111000	1003000	942800	860700	845700	781500	808600	854700	886200	905800
1968	1395000	1252000	1310000	1268000	1352000	1228000	1138000	1073000	1037000	1037000	1048000	1069000
1969	1084000	1105000	1125000	1148000	1141000	1112000	1080000	1048000	1025000	1175000	1130000	1137000
1970	1148000	1193000	1336000	1172000	1282000	1218000	1095000	1037000	1107000	1112000	1111000	1114000
1971	1103000	1106000	1053000	967300	847600	767800	767800	870100	924400	1200000	1148000	1066000
1972	1120000	1114000	1089000	1028000	1109000	1096000	1062000	1008000	976900	1010000	1040000	1073000
1973	1134000	1182000	1172000	1164000	1134000	1148000	1182000	1143000	1139000	1354000	1358000	1276000
1974	1200000	1200000	1170000	1109000	1136000	1044000	956800	1208000	1302000	1324000	1242000	1206000
1975	1182000	1243000	1174000	1189000	1318000	1242000	1144000	1108000	1058000	1070000	1084000	1081000
MAX	1395000	1298000	1336000	1566000	1677000	1320000	1188000	1208000	1302000	1354100	1358000	1276000
MIN	331000	338000	331000	335000	323000	331000	316000	342000	52300	47800	211000	339000
MEAN	927171	943254	940126	941380	988254	955274	904171	871454	876061	922411	913933	912033
NO.	35	35	35	35	35	35	35	35	36	36	36	36
DISTR												
OF MEAN	8.4%	8.5%	8.5%	8.5%	8.9%	8.6%	8.1%	7.9%	7.9%	8.3%	8.2%	8.2%

COLORADO RIVER BASIN

08154510 Colorado River below Mansfield Dam near Austin, Texas

LOCATION: Lat 30°23'30", long 97°54'28", Travis County, at the downstream side of Mansfield Dam, and 12.9 mi (20.8 km) northwest of the State Capitol at Austin.

DRAINAGE AREA: 38,130 mi<sup>2</sup> (98,760 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: October 1974 to December 1975.

GAGE: None. The daily discharge record is based on daily releases from Lake Travis.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	-	-	-	-	266300	467100	129500	-
1975	164200	285900	174000	125600	411500	339300	183200	91820	70550	22790	296	21980	1891136
MAX	164200	285900	174000	125600	411500	339300	183200	91820	70550	266300	467100	129500	1891136
MIN	164200	285900	174000	125600	411500	339300	183200	91820	70550	22790	296	21980	1891136
MEAN	164200	285900	174000	125600	411500	339300	183200	91820	70550	144545	233698	75740	2300053
NO.	1	1	1	1	1	1	1	1	1	2	2	2	1
DISTR													
OF MEAN	7.1%	12.4%	7.6%	5.5%	17.9%	14.8%	8.0%	4.0%	3.1%	6.3%	10.2%	3.3%	100%

COLORADO RIVER BASIN  
08156500 Barton Creek at Austin, Texas

LOCATION: Lat 30°16', long 97°46", Travis County, 200 ft (60.96 m) below Barton Springs in Austin, Texas, and 0.6 mi (1.0 km) above its confluence with the Colorado River.

PERIOD OF RECORD: May 1917 to September 1918.

GAGE: Staff gage. Datum of gage not published. The elevation of the surface of the spring pool is 431.82 ft (131.6 m) above mean sea level.

EXTREMES: Period of record (1917-18): Maximum discharge, 24 ft<sup>3</sup>/s (0.68 m<sup>3</sup>/s) April 21, 1918; minimum, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) February 25, 1918.

REMARKS: Records good. The normal flow of the creek comes from Barton Springs which emerges from the Edwards Limestone in the Balcones Fault Zone and responds to rainfall on the Edwards Plateau. The water is used for recreational purposes.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1917	-	-	-	-	941	1070	947	836	994	916	893	849	-
1918	805	755	836	1230	1140	910	922	867	791	-	-	-	-
MAX	805	755	836	1230	1140	1070	947	867	994	916	893	849	-
MIN	805	755	836	1230	941	910	922	836	791	916	893	849	-
MEAN	805	755	836	1230	1041	990	935	852	893	916	893	849	10995
NO.	1	1	1	1	2	2	2	2	2	1	1	1	0
DISTR OF MEAN	7.3%	6.9%	7.6%	11.2%	9.5%	9.0%	8.5%	7.7%	8.1%	8.3%	8.1%	7.7%	100%

COLORADO RIVER BASIN

08156700 Shoal Creek at Northwest Park at Austin, Texas

LOCATION: Lat 30°20'50", long 97°44'41", Travis County, at Northwest Park in Austin, 400 ft (122 m) upstream from the Shoal Creek Boulevard bridge, 0.5 mi (0.8 km) west of the intersection of Burnet Road and Justin Lane, and 5.0 mi (8.0 km) north of the State Capitol Building in Austin.

DRAINAGE AREA: 7.03 mi<sup>2</sup> (18.21 km<sup>2</sup>).

PERIOD OF RECORD: April to December 1975.

GAGE: Water-stage recorder. Datum of gage is 661.84 ft (201.729 m) above mean sea level, datum of 1929.

REMARKS: Records good. The City of Austin diverts water into the channel above the gage during the summer months from a swimming pool at Northwest Park. There is some diversion into and out of the drainage area by storm sewers. This station is part of a hydrologic project to study the rainfall-runoff relationship for the Austin urban area.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	297	410	418	181	82.0	13.0	91.0	8.10	60.0	-
MAX	-	-	-	297	410	418	181	82.0	13.0	91.0	8.10	60.0	-
MIN	-	-	-	297	410	418	181	82.0	13.0	91.0	8.10	60.0	-
MEAN	-	-	-	297	410	418	181	82.0	13.0	91.0	8.10	60.0	1560
NO.	0	0	0	1	1	1	1	1	1	1	1	1	0
1 ST													
10 ST	0.1	0.2	0.3	15.03	26.21	26.82	11.41	5.22	0.13	5.82	0.51	3.82	1002

COLORADO RIVER BASIN  
08157000 Waller Creek at 38th Street at Austin, Texas

LOCATION: Lat 30°17'49", long 97°43'38", Travis County, 200 ft (61 m) upstream from the bridge at East 38th Street in Austin, 1.1 mi (1.8 km) upstream from West Branch of Waller Creek, and 3.3 mi (5.3 km) upstream from the Colorado River.

DRAINAGE AREA: 2.31 mi<sup>2</sup> (5.98 km<sup>2</sup>).

PERIOD OF RECORD: April 1955 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 555.44 ft (169.298 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 21 years, 1,204 ac-ft/yr (1.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1955-75): Maximum discharge, 1,970 ft<sup>3</sup>/s (55.8 m<sup>3</sup>/s) Oct. 29, 1960 (gage height, 7.77 ft or 2.368 m); no flow for many days in 1955-57 and 1964.

REMARKS: Records good. The flow is slightly regulated at times by a small reservoir at Holy Cross High School (formerly St. Mary's Academy) on East 41st Street and a small swimming pool at the school which is drained into the creek every week or two during the summer. Water from other swimming pools also drain into the creek. This station is part of a hydrologic research project to study the rainfall-runoff relationship for small urban areas.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	-	-	-	9.1	48.0	22.0	19.0	17.0	2.20	0	2.40	15.0	-
1956	13.0	17.0	3.20	2.00	38.0	14.0	12.0	17.0	2.40	3.00	23.0	24.0	169
1957	6.50	47.0	56.0	349	259	313	47.0	42.0	116	586	101	70.0	1993
1958	112	439	118	168	177	165	111	65.0	156	161	91.0	88.0	1851
1959	64.0	92.0	61.0	162	57.0	84.0	127	101	104	221	68.0	69.0	1210
1960	53.0	67.0	57.0	43.0	33.0	108	78.0	93.0	40.0	616	84.0	176	1448
1961	98.0	221	50.0	28.0	37.0	493	373	60.0	129	48.0	71.0	63.0	1671
1962	49.0	46.0	55.0	117	50.0	346	43.0	141	120	86.0	35.0	81.0	1169
1963	41.0	106	36.0	100	40.0	91.0	52.0	51.0	33.0	13.0	20.0	27.0	610
1964	61.0	47.0	64.0	35.0	39.0	189	34.0	38.0	252	127	77.0	42.0	1005
1965	163	270	62.0	73.0	375	83.0	52.0	55.0	180	121	111	191	1736
1966	55.0	96.0	46.0	123	100	53.0	36.0	197	79.0	28.0	13.0	18.0	844
1967	13.0	32.0	21.0	102	81.0	27.0	34.0	144	183	164	205	129	1135
1968	621	85.0	130	93.0	273	109	111	41.0	62.0	22.0	130	35.0	1712
1969	23.0	144	98.0	155	102	79.0	34.0	141	33.0	62.0	18.0	133	1022
1970	61.0	250	135	43.0	278	37.0	33.0	47.0	94.0	150	15.0	14.0	1157
1971	14.0	27.0	23.0	30.0	32.0	60.0	46.0	226	56.0	57.0	132	152	855
1972	48.0	19.0	13.0	58.0	264	228	67.0	83.0	37.0	133	64.0	26.0	1040
1973	138	93.0	96.0	109	48.0	146	163	28.0	223	574	28.0	27.0	1673
1974	76.0	24.0	72.0	70.0	180	39.0	41.0	300	48.0	84.0	399	75.0	1408
1975	50.0	116	30.0	142	266	214	118	79.0	46.0	64.0	17.0	53.0	1195
MAX	621	439	135	349	375	493	373	300	252	616	399	191	1993
MIN	6.50	17.0	3.20	2.00	32.0	14.0	12.0	17.0	2.20	0	2.40	14.0	169
MEAN	88.0	112	61.3	95.8	132	138	77.7	93.6	95.0	158	81.2	71.8	1204
NO.	20	20	20	21	21	21	21	21	21	21	21	21	20
LISTR													
OF MEAN	7.3%	9.3%	5.1%	8.0%	11.0%	11.5%	6.4%	7.8%	7.9%	13.1%	6.7%	6.0%	100%

COLORADO RIVER BASIN

08157500 Waller Creek at 23rd Street at Austin, Texas

LOCATION: Lat 30°17'08", long 97°44'01", Travis County, on San Jacinto Boulevard, 50 ft (15 m) upstream from the bridge on East 23rd Street in Austin, and 2.1 mi (3.4 km) upstream from the Colorado River.

DRAINAGE AREA: 4.13 mi<sup>2</sup> (10.70 km<sup>2</sup>).

PERIOD OF RECORD: January 1955 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 509.95 ft (155.433 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 21 years, 2,568 ac-ft/yr (3.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1955-75): Maximum discharge, 4,020 ft<sup>3</sup>/s (114 m<sup>3</sup>/s) Oct. 11, 1973 (gage height, 9.00 ft or 2.743 m); minimum, 0.2 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) at times in 1955-57.

Maximum flood since 1885 occurred Apr. 22, 1915, stage unknown.

REMARKS: Records good. There is some regulation by a small dam upstream. There is some diversion of city water into the channel during the summer months from municipal and private swimming pools. There are some diversions into and out of the drainage area by storm sewers. This station is part of a hydrologic research project to study the rainfall runoff relationship for small urban areas.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	80.0	218	74.0	51.0	228	107	64.0	50.0	33.0	34.0	43.0	51.0	1033
1956	46.0	70.0	34.0	35.0	156	45.0	49.0	66.0	36.0	60.0	85.0	80.0	762
1957	32.0	130	219	755	555	668	112	87.0	261	1110	216	154	4299
1958	251	818	272	415	397	327	265	146	364	345	149	125	3874
1959	97.0	166	103	383	140	188	316	214	255	549	165	162	2740
1960	140	184	155	126	101	245	166	194	108	1340	190	335	3284
1961	228	489	133	87.0	120	1320	913	132	250	100	170	143	3885
1962	102	104	124	256	117	641	82.0	320	278	251	79.0	175	2529
1963	76.0	216	87.0	258	117	228	105	167	105	68.0	73.0	70.0	1510
1964	141	107	145	95.0	103	396	93.0	110	568	322	177	98.0	2355
1965	309	491	143	151	906	173	111	113	381	212	208	320	3518
1966	102	174	101	207	191	99.0	87.0	425	162	70.0	38.0	51.0	1707
1967	40.0	76.0	62.0	238	187	63.0	77.0	302	322	308	344	237	2256
1968	904	167	222	173	526	196	233	99.0	127	62.0	241	72.0	3022
1969	58.0	253	168	258	236	157	80.0	269	96.0	151	75.0	226	2027
1970	131	432	251	100	476	94.0	87.0	121	205	300	56.0	53.0	2306
1971	64.0	91.0	91.0	95.0	104	178	149	420	155	143	275	298	2063
1972	115	69.0	62.0	151	527	364	140	216	117	286	146	76.0	2289
1973	281	198	212	241	119	318	313	64.0	473	1190	68.0	59.0	3536
1974	150	49.0	118	133	344	72.0	118	581	97.0	165	759	139	2725
1975	98.0	206	66.0	259	526	284	250	160	122	133	43.0	163	2232
MAX	904	818	272	755	906	1120	913	581	568	1340	759	335	4299
MIN	32.0	49.0	34.0	35.0	101	45.0	49.0	50.0	33.0	34.0	38.0	51.0	762
MEAN	164	224	135	212	294	285	181	200	215	343	171	144	2568
NC.	21	21	21	21	21	21	21	21	21	21	21	21	21
DISTR OF MEAN	6.4%	8.7%	5.3%	8.2%	11.5%	11.1%	7.1%	7.8%	8.4%	13.3%	6.7%	5.6%	100%



COLORADO RIVER BASIN  
08158000 Colorado River at Austin, Texas

LOCATION: Lat 30°14'40", Long 97°41'39", Travis County, 1,000 ft (305 m) upstream from the upstream bridge on U.S. Highway 183 in Austin, and 1.4 mi (2.3 km) downstream from Town Lake Dam.

DRAINAGE AREA: 38,400 mi<sup>2</sup> (99,500 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1898 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 402.27 ft (122.612 m) above mean sea level, datum of 1929. Prior to June 19, 1939, all records collected at or near the Congress Avenue Bridge 3.9 mi (6.3 km) upstream at datum 19.6 ft (5.97 m) higher; prior to June 18, 1915, nonrecording gages, recording gages thereafter; June 20, 1939 to Oct. 16, 1963, at site 1,000 ft (305 m) downstream from the present site at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE: 78 years, 1,720,670 ac-ft/yr (2,121.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1898-75): Maximum discharge, 481,000 ft<sup>3</sup>/s (13,600 m<sup>3</sup>/s) June 15, 1935 (gage height, 50 ft or 15.2 m, present site and datum, from floodmark); minimum, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Dec. 17, 1972.

Maximum stage since at least 1833, 51 ft (15.5 hm) July 7, 1869, present site and datum (adjusted to present site on the basis of record for the flood of June 15, 1935), determined from information concerning stage at former site furnished by Dean T. U. Taylor.

REMARKS: Records good. Since 1937, at least 10 percent of the drainage area regulated by reservoirs. The flow is largely regulated by Lake Travis (station 08154500). There are 16 major reservoirs above the station with a combined capacity of 4,642,000 ac-ft (5,723.6 hm<sup>3</sup>).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1898	-	-	22600	94600	130000	437000	61200	39100	70800	25900	19600	20400	-
1899	20400	17300	15600	40200	217000	821000	132000	33900	19000	31500	129000	180000	1656900
1900	92800	47100	76900	1300000	621000	193000	299000	214000	869000	365000	262000	133000	4472800
1901	107000	80000	58400	50200	90400	53000	170000	31500	174000	26500	61900	27900	930800
1902	26000	24700	49000	110000	197000	54600	451000	179000	97000	67000	350000	86700	1693000
1903	64000	272000	292000	118000	145000	143000	86700	47200	42500	279000	25200	21200	1535800
1904	21600	35300	22600	39600	196000	383000	155000	64600	172100	87900	32100	24400	1234200
1905	20700	20300	95900	397000	514000	80300	121000	45900	24300	33600	22700	13600	1389300
1906	10900	10600	12500	41200	65200	195000	354000	756000	525000	20600	15900	42900	2049800
1907	13300	12500	12500	8630	209000	184000	288000	16400	9280	214000	233000	58400	1259010
1908	31700	50900	37030	690000	711000	123000	125000	97200	95800	73200	21800	34800	2091430
1909	21500	13900	11600	20800	196000	269000	206000	78100	69000	160000	45700	130000	1221600
1910	18300	23200	16200	228200	129000	14200	27300	7990	105000	30000	11600	14900	625890
1911	17400	211000	46800	245000	130000	23400	135000	104000	324000	33800	14600	98400	1383400
1912	36500	40300	61400	61900	91600	92800	21100	48800	35200	84200	23700	38700	636200
1913	34900	32000	29500	48300	333000	174000	131000	41600	127000	435000	562000	146000	3408300
1914	125000	64400	71300	182000	1130000	672000	106000	515000	127000	118000	116000	106000	3332700
1915	85500	52400	100000	613000	334000	40300	60600	59400	490000	87300	36700	71300	2030500
1916	47200	38000	21500	209000	245000	34000	43100	25600	15700	62700	17900	16800	778500
1917	16800	16800	19900	16500	72600	72000	24000	4320	84500	9100	9460	12900	358880
1918	34700	10700	8790	192000	87300	176000	32000	8060	46100	386000	660000	32000	1961650
1919	335000	167000	305000	186000	449000	780000	595000	293000	558000	873000	420000	210000	5171000
1920	336000	192000	130000	70800	397000	95200	49600	413000	313000	58000	76200	52000	2182800
1921	42100	33800	60900	111000	59300	303000	23800	5480	203000	25600	12700	16500	897180
1922	15600	14500	22000	1160000	1890000	201000	106000	23400	16300	14000	109000	22000	3593800
1923	21000	55200	72800	586000	289000	99900	65700	21200	239000	228000	495000	324000	2496800
1924	126000	126000	179000	190000	333000	240000	27300	14000	87200	56000	23400	31900	1433800
1925	27100	22300	17200	49700	378000	212000	51400	56000	164000	288000	213000	38400	1517100
1926	87900	40100	190000	484000	255000	168000	110000	60900	161000	161000	50300	86200	1854400
1927	41900	237000	106000	240000	96500	187000	84900	25300	21500	398000	55200	27600	1520900
1928	25100	39200	30300	33500	301000	268000	127000	243000	70800	45500	23900	29300	1236600
1929	29800	17200	51000	79700	646000	201000	62100	9220	151000	108000	28500	16800	1400320
1930	18400	18000	20000	13000	580000	307000	16400	12100	48600	1240000	71400	140000	2484900
1931	140000	262000	170000	83300	140000	121000	57900	23000	16100	203000	67800	52600	1336700
1932	109000	156000	151000	53000	615000	216000	707000	75000	809000	109000	50500	64000	3116500
1933	103000	42300	60500	45300	285000	52900	15700	20500	40800	24600	15700	15900	722200
1934	45600	48600	74400	378000	62100	15400	75600	11400	14300	3540	38920	16540	764400
1935	20350	93720	22410	106900	1250000	1901000	212100	94430	1129000	153400	82810	125600	5191720
1936	51540	36500	44750	21190	424500	119800	301800	45760	2537000	910900	232700	228000	4954440
1937	163900	113400	189200	87510	59600	72580	67790	31070	16970	49680	32790	151100	1035590
1938	281300	105600	59680	107300	105200	87980	2221000	360500	47440	32420	30630	35410	3474460
1939	55570	64540	50300	67760	106200	200500	210100	77400	55800	123300	67490	64340	1143300
1940	54440	75950	86590	109000	91510	202900	288400	81770	88430	84100	97530	238600	1499220
1941	143600	235400	381000	619900	1006000	593700	275800	86820	106800	133300	50880	74340	3707540
1942	83010	71750	75390	59130	68880	109200	85450	89700	85410	223800	234900	159200	1345820
1943	167000	139000	136700	164500	133000	139400	123200	107200	59670	84930	77340	82280	1414420
1944	75880	82920	76520	73310	118100	161300	194700	188900	176200	138800	90970	130700	1508300
1945	122400	113900	134200	155000	145100	137000	241000	203500	138200	118400	121400	129800	1759900
1946	133700	99730	114800	114000	167400	124500	118100	169600	143500	150000	162700	146100	1644130
1947	175500	123300	113600	86780	104900	124500	124800	119000	91930	69830	68460	58240	1260840

COLORADO RIVER BASIN  
08158000 Colorado River at Austin, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1948	56380	59030	61920	62830	80190	114100	130600	125200	70960	57740	45730	44990	909670
1949	43160	40010	69190	63610	72170	121500	117600	111000	92030	74700	77320	75300	957590
1950	54380	52590	44280	50910	101000	112300	115500	100600	55630	35410	41490	45120	809210
1951	50790	35710	14470	44890	107600	98330	120900	121900	47950	24200	14520	12180	693440
1952	11380	11640	11580	26680	62910	103100	110700	105000	53620	17470	25480	18520	558060
1953	48020	54580	16700	57730	84460	118100	116440	80370	29170	20570	16110	31050	673300
1954	29930	12380	24890	56770	120000	116800	131500	93880	30480	17710	18390	16670	669400
1955	17630	29410	28090	57100	111400	250100	172500	137400	100500	137900	103100	31140	1176270
1956	20150	31460	29850	57470	141400	135200	146500	97320	34600	19090	10830	10750	734620
1957	10590	10500	14110	128900	1677000	1059000	301200	163900	142100	352300	373000	295100	4527700
1958	229200	242100	353400	241800	263400	284300	258400	164600	93920	90810	53910	27570	2303410
1959	58590	54740	49210	101800	144000	105800	137800	205600	150900	610000	285600	210600	2114640
1960	192800	201000	202400	178900	166200	159400	152200	120900	72050	98930	35560	39670	1623010
1961	53770	247700	226500	205300	150000	142200	246900	223500	141600	52170	172200	181900	2043740
1962	99240	13400	10780	23140	85660	112000	116800	104700	51410	17380	24660	38310	697480
1963	35200	42600	14980	66160	100300	118800	111700	107100	66980	9670	2470	2700	698660
1964	3800	2860	3380	66080	98300	110100	96440	72080	61690	8090	6620	5020	534460
1965	16770	43670	16350	52370	256100	385400	114000	87090	76030	45000	97340	109400	1299520
1966	49060	21110	22250	133200	317800	137000	115900	79860	60810	30890	34320	4020	1006220
1967	2840	10940	41940	98820	122300	124300	84640	121600	66830	28110	44820	23740	770880
1968	222900	348900	349800	348700	445800	335900	168600	120900	73070	18590	6280	20900	2460340
1969	4730	8840	16180	100800	259500	125600	107900	104700	72240	130100	174300	106400	1211290
1970	131900	109000	300200	293100	197600	253500	169700	106700	79740	18400	8650	6920	1675410
1971	19850	4530	58500	92650	111200	129000	100900	87760	52280	119900	161800	170100	1108470
1972	52720	32530	38260	95450	91420	112300	80310	96490	76210	27770	12120	12230	727810
1973	59200	46040	69450	90750	164700	107900	119000	119300	67910	172800	59110	138200	1214360
1974	137000	33810	57610	89600	152700	130900	112300	105400	274100	288100	523700	146100	2051320
1975	179900	343400	189100	143800	462700	371400	202700	106000	62670	30790	23030	12100	2147590
MAX	336000	348900	381000	1300000	1890000	1901000	2221000	756000	2537000	1240000	660000	1460000	5191720
MIN	2840	2860	3360	8630	59300	14200	15700	4320	9280	3540	2470	2700	358880
MEAN	74932	78530	83680	170154	289079	219881	174760	110906	171922	144782	105454	96390	1720670
NG.	77	77	78	78	78	78	78	78	78	78	78	78	77
DIS TR													
CF MEAN	4.4%	4.6%	4.9%	9.9%	16.8%	12.8%	10.2%	6.4%	10.0%	8.4%	6.1%	5.6%	100%

COLORADO RIVER BASIN

08158600 Walnut Creek at Webberville Road at Austin, Texas

LOCATION: Lat 30°16'59", long 97°39'17", Travis County, 190 ft (58 m) downstream from the bridge on Farm Road 969, 0.8 mi (1.3 km) downstream from Little Walnut Creek, 2.8 mi (4.5 km) upstream from the Colorado River, and 5.2 mi (8.4 km) east of the Capitol at Austin.

DRAINAGE AREA: 51.3 mi<sup>2</sup> (132.9 km<sup>2</sup>).

PERIOD OF RECORD: June 1966 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 425.96 ft (129.833 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 10 years, 16,676 ac-ft/yr (20.6 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1966-75): Maximum discharge, 10,500 ft<sup>3</sup>/s (297 m<sup>3</sup>/s) Nov. 23, 1974 (gage height, 26.16 ft or 7.94 m); no flow at times in 1967 and 1971.

Maximum stage since at least 1891, that of Nov. 23, 1974.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	-	-	-	-	-	388	55.0	962	285	85.0	61.0	75.0	-
1967	66.0	104	65.0	225	241	14.0	12.0	107	329	1040	2710	2170	7083
1968	14580	2920	2770	2040	3580	1200	821	121	313	194	546	421	29506
1969	246	1490	1960	2770	1250	446	82.0	748	84.0	131	80.0	693	9980
1970	697	4410	4090	963	6170	977	141	56.0	242	2400	323	240	20709
1971	173	156	151	106	35.0	15.0	3.20	674	114	169	1010	1890	4496
1972	573	496	315	243	1930	2500	804	364	84.0	1860	768	602	10559
1973	1980	2140	2270	1970	1180	842	2050	178	3080	10740	1290	647	28367
1974	971	529	621	455	2540	193	54.0	2390	981	814	9570	2300	21418
1975	1720	3010	785	2250	4880	7120	2050	645	344	345	116	327	23592
MAX	14580	4410	4090	2770	6170	7120	2050	2390	3060	10740	9570	2300	29506
MIN	66.0	104	65.0	106	35.0	14.0	3.20	56.0	84.0	85.0	61.0	75.0	4496
MEAN	2334	1695	1447	1225	2423	1370	607	627	586	1778	1647	937	16676
NO.	9	9	9	9	9	10	10	10	10	10	10	10	9
LISTR													
OF MEAN	14.0%	10.2%	8.7%	7.3%	14.5%	8.2%	3.6%	3.8%	3.5%	10.7%	9.9%	5.6%	100%

COLORADO RIVER BASIN

08158970 Williamson Creek at Jimmy Clay Road at Austin, Texas

LOCATION: Lat 30°11'21", long 97°43'56", Travis County, at Jimmy Clay Road, 0.5 mi (0.8 km) southeast of the intersection of Jimmy Clay and Nuckles Crossing Roads, and 5.9 mi (9.5 km) south of the State Capitol in Austin.

DRAINAGE AREA: 27.6 mi<sup>2</sup> (71.5 km<sup>2</sup>).

PERIOD OF RECORD: September to December 1975.

GAGE: Water-stage recorder. Datum of gage is 497.18 ft (151.54 m) above mean sea level, datum of 1929.

REMARKS: Records good. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	-	-	-	-	-	-	-	-	-	235	97.0	178	-
MAX	-	-	-	-	-	-	-	-	-	235	97.0	178	-
MIN	-	-	-	-	-	-	-	-	-	235	97.0	178	-
MEAN	-	-	-	-	-	-	-	-	-	235	97.0	178	510
NO. OF MEAN	0	0	0	0	0	0	0	0	0	1	1	1	0
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	46.1%	19.0%	34.9%	100%

COLORADO RIVER BASIN

08159000 Onion Creek at U.S. Highway 183 near Austin, Texas

LOCATION: Lat 30°10'40", long 97°41'18", Travis County, at the bridge on U.S. Highway 183, 2.4 mi (3.9 km) downstream from Williamson Creek, and 3.2 mi (5.1 km) southwest of Del Valle.

DRAINAGE AREA: 321 mi<sup>2</sup> (831 km<sup>2</sup>).

PERIOD OF RECORD: June 1924 to February 1930.

GAGE: Nonrecording gage. Datum of gage is 420.0 ft (128.0 m) above mean sea level.

AVERAGE DISCHARGE: 7 years, 59,913 ac-ft/yr (73.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1924-30): Maximum discharge, 76,000 ft<sup>3</sup>/s (2,150 m<sup>3</sup>/s) May 28, 1929 (gage height, 30.6 ft or 9.30 m).

Maximum stages since 1869 occurred July 3, 1869, stage 38 ft (11.6 m) from newspaper accounts and Sept. 9, 1921, stage 38.0 ft (11.58 m), from floodmark, present site and datum.

REMARKS: Records good. There are many small diversions on and off channel. The dashes are shown for the missing record for the period March 1930 through December 1975 because the station is to be reestablished beginning April 1976.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	15200	1400	178	286	147	122	121	-
1925	110	91.6	112	128	115	460	0	0	134	17300	7350	817	26158
1926	2400	1980	10300	50400	21600	2340	4490	303	123	605	478	1400	96419
1927	926	3470	3930	4250	8180	2290	488	21.0	166	2830	487	1060	28098
1928	229	4110	633	399	366	377	140	0	3.00	0	36.0	89.0	6382
1929	341	115	232	928	109000	21000	7990	855	291	164	373	885	142174
1930	290	394	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	-	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	-	-	-	-	-

COLORADO RIVER BASIN

08159000 Onion Creek at U.S. Highway 183 near Austin, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX	2400	4110	10300	50400	109000	21000	7990	855	291	17300	7350	1400	142174
MIN	110	91.6	112	128	115	.60	0	0	3.00	0	36.0	89.0	6382
MEAN	716	1693	3041	11221	27852	6868	2418	226	167	3508	1474	729	59913
NUM.	6	6	5	5	5	6	6	6	6	6	6	6	5
DISTR OF MEAN	1.2%	2.8%	5.1%	18.7%	46.5%	11.5%	4.0%	.4%	.3%	5.9%	2.5%	1.2%	100%

COLORADO RIVER BASIN

08159150 Wilbarger Creek near Pflugerville, Texas

LOCATION: Lat 30°27'16", long 97°36'02", Travis County, at a county road bridge (Pfluger Lane), 800 ft (240 m) downstream from the bridge on Farm Road 685, 1.6 mi (2.6 km) northeast of Pflugerville, and 1.9 mi (3.1 km) downstream from the Missouri-Kansas-Texas Railroad Co. bridge.

DRAINAGE AREA: 4.61 mi<sup>2</sup> (11.9 km<sup>2</sup>).

PERIOD OF RECORD: August 1963 to December 1975.

GAGE: Water-stage recorder and concrete control. Datum of gage is 670.61 ft (204.402 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 1,421 ac-ft/yr (1.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1963-75): Maximum discharge, 1,760 ft<sup>3</sup>/s (49.8 m<sup>3</sup>/s) June 16, 1964 (gage height, 6.92 ft or 2.109 m); no flow at times most years.

Maximum stage since at least 1894 occurred in September 1921, stage unknown, from information by local residents.

REMARKS: Records good. This station is part of a hydrologic research project to study the rainfall-runoff relationship for small urban-rural areas.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1963	-	-	-	-	-	-	-	0	0	0	0	0	-
1964	0	0	1.80	100	260	621	4.00	0	120	27.0	96.0	44.0	1274
1965	397	856	124	45.0	204	34.0	3.00	4.80	43.0	7.90	89.0	452	2260
1966	116	207	124	351	219	11.0	1.60	11.0	47.0	16.0	6.00	7.60	1117
1967	5.60	8.20	2.60	18.0	115	2.50	0	.02	1.60	60.0	359	350	923
1968	1030	218	284	188	528	135	73.0	4.80	5.10	1.20	9.4	28.0	2504
1969	14.0	208	334	421	55.0	9.00	.70	1.20	.70	.40	.20	31.0	1075
1970	77.0	529	702	63.0	550	82.0	3.60	.10	.80	141	15.0	9.2	2173
1971	5.80	3.80	3.70	1.70	0	0	0	.10	0	0	106	209	330
1972	77.0	47.0	13.0	3.00	202	32.0	4.00	1.00	0	174	38.0	53.0	644
1973	254	295	277	179	178	11.0	4.40	.06	120	976	73.0	26.0	2393
1974	46.0	29.0	12.0	5.20	9.2	1.40	0	1.20	63.0	33.0	568	217	985
1975	166	309	43.0	40.0	673	453	22.0	19.0	6.00	1.40	1.40	2.40	1736
MAX	1030	856	702	421	673	621	73.0	19.0	120	976	568	452	2504
MIN	0	0	1.80	1.70	0	0	0	0	0	0	0	0	330
MEAN	182	226	160	118	249	116	9.7	3.33	31.3	111	105	110	1421
NO.	12	12	12	12	12	12	12	13	13	13	13	13	12
DISTR OF MEAN	12.8%	15.9%	11.3%	8.3%	17.5%	8.2%	.7%	.2%	2.2%	7.8%	7.4%	7.7%	100%

COLORADO RIVER BASIN  
08159200 Colorado River at Bastrop, Texas

LOCATION: Lat 30°06'20", long 97°19'08", Bastrop County, in city park at Bastrop, 400 ft (122 m) upstream from the bridge on State Highway 71, 0.3 mi (0.5 km) upstream from Gill's Creek, and 1.1 mi (1.8 km) downstream from Piney Creek.

DRAINAGE AREA: 39,400 mi<sup>2</sup> (102,000 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: March 1960 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 307.38 ft (93.689 m) above mean sea level, datum of 1929. Prior to May 10, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 16 years, 1,810,814 ac-ft/yr (1,986.1 km<sup>3</sup>/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 79,600 ft<sup>3</sup>/s (2,250 m<sup>3</sup>/s) Oct. 29, 1960 (gage height, 34.45 ft or 10.500 m); minimum, 75 ft<sup>3</sup>/s (2.12 m<sup>3</sup>/s) Apr. 1, 1964.

Maximum stage since at least 1845, 60.3 ft (18.38 m) July 7 or 8, 1869.

REMARKS: Records good. There are many diversions above the station for irrigation and municipal water supply. Regulation is the same as that for the Colorado River at Austin (station 08158000).

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	-	-	211500	191300	165200	181600	166400	128600	74100	261000	77420	104100	-
1961	113400	328000	245800	216600	163300	293400	338500	227800	181500	56750	182400	193300	2540750
1962	115600	20360	22330	33600	90480	132800	116000	109600	70860	36300	31540	62870	842340
1963	40310	72730	17070	83400	106800	125200	119100	116700	96590	18340	5630	6830	808700
1964	6700	7960	8040	61380	104800	131500	100300	72660	77300	17880	16030	9280	613830
1965	87110	133400	30810	60350	352400	411800	125100	95820	99840	52900	119500	165900	1734930
1966	65930	44570	34400	146500	353400	134100	110600	85080	69570	35050	40640	9470	1129310
1967	7450	8980	43660	96070	131300	125100	80050	124700	83420	37700	65500	28050	832180
1968	392400	383900	394500	387000	551400	388700	205000	123600	97050	30720	17140	43430	3014840
1969	19240	41060	52650	162800	301800	137100	111600	110100	79960	136800	206900	135800	1495810
1970	151900	162300	378200	336400	313100	291800	193400	115600	91550	35390	15020	13130	2097790
1971	26400	9300	56410	94300	119300	133700	103800	96570	62380	122000	192900	221200	1238260
1972	72390	45000	43860	103700	124700	127000	89780	105000	86550	39490	19930	19010	876410
1973	77050	73880	92960	109700	173900	131800	145600	129300	94620	392300	85050	142500	1648660
1974	169800	43590	57730	84090	180800	133100	112100	115800	293400	329500	674100	211600	2405610
1975	225700	413500	229500	172800	640800	478500	226600	122200	94450	48810	32380	23150	2708390
MAX	392400	413500	394500	387000	640800	478500	338500	227800	293400	392300	674100	221200	3014840
MIN	6700	7960	8040	33600	90480	125100	80050	72660	62380	17880	5630	6830	613830
MEAN	104759	119235	119976	146249	242093	209825	146496	117446	103321	103183	111380	86851	1610814
NO.	15	15	16	16	16	16	16	16	16	16	16	16	15
DISTR OF MEAN	6.5%	7.4%	7.4%	9.1%	15.0%	13.0%	9.1%	7.3%	6.4%	6.4%	6.9%	5.4%	100%



COLORADO RIVER BASIN  
08159500 Colorado River at Smithville, Texas

LOCATION: Lat 30°00'43", long 97°09'43", Bastrop County, 28 ft (8 m) downstream from the bridge on State Highway 71 in Smithville, 500 ft (160 m) downstream from Gazley Creek, and 3.8 mi (6.3 km) downstream from Alum Creek.

DRAINAGE AREA: 39,880 mi<sup>2</sup> (103,280 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: August 1930 to September 1975.

GAGE: Water-stage recorder. Datum of gage is 270.14 ft (82.339 m) above mean sea level, datum of 1929. Prior to Apr. 8, 1931, nonrecording gage at same site and datum. Apr. 9, 1931 to Sept. 2, 1971, water-stage recorder at site 360 ft (110 m) downstream at same datum.

AVERAGE DISCHARGE: 46 years, 1,974,769 ac-ft/yr (2,434.9 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1930-75): Maximum discharge, 305,000 ft<sup>3</sup>/s (8,640 m<sup>3</sup>/s) June 16, 1935 (gage height, 42.6 ft or 12.95 m, from floodmarks); minimum, 76 ft<sup>3</sup>/s (2.15 m<sup>3</sup>/s) Nov. 2, 1934.

Maximum stage since at least 1860 occurred July 8, 1869 and was several feet higher than the flood of Dec. 4, 1913 which reached a stage of 47.4 ft (14.45 m), from information by local residents.

REMARKS: Records good. There are many diversions above the station for irrigation and municipal water supply. Since 1837, at least 10 percent of the drainage area is regulated by reservoirs. Regulation is the same as that for the Colorado River at Austin (station 08158000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1930	-	-	-	-	-	-	-	14800	44400	1250000	94000	176000	-
1931	207000	337000	239000	123000	193000	130000	75000	32900	23000	172000	75600	55300	1662800
1932	190000	183000	191000	64300	596000	222000	719000	84200	857000	130000	65500	66400	3368400
1933	139000	60500	86700	56200	250000	70800	52400	35000	44600	27400	20400	18400	861400
1934	106000	85300	107000	430000	83000	23300	77500	20400	20100	7180	44880	44260	1048920
1935	30490	119500	28320	92980	1254000	1875000	244400	120600	1047000	172900	98920	133500	5217610
1936	64360	46330	57070	30050	495000	146200	462300	45160	2267000	1071000	267200	242800	5158970
1937	190200	123700	224200	102300	69540	133400	68660	37950	21730	50810	34900	124200	1181590
1938	385600	148400	85140	234100	193400	106500	1925000	449000	74020	45150	42580	38060	3726950
1939	59030	67550	64530	86650	116600	187000	218300	84020	58510	124700	72130	67300	1206320
1940	59550	90820	82560	129200	112700	263300	386700	85650	100200	88740	172400	352800	1924620
1941	175900	258300	437100	672200	1198000	864500	338300	102800	107300	155300	54800	82600	4447100
1942	81920	78140	70060	94290	66880	99870	106000	77850	141000	242900	241400	167300	1467610
1943	167100	137800	136200	164300	141500	128900	117900	104800	65370	77890	76210	81100	1399070
1944	116300	113700	120300	76470	165800	181000	199900	196000	180000	155000	110300	191600	1806370
1945	184700	168100	173000	207000	146100	165900	232200	217200	138700	132800	122100	136700	2024500
1946	159000	126200	166900	167900	234600	159800	125900	178200	180800	150000	290100	183900	2123300
1947	254900	149100	161500	118500	121400	130100	135200	142300	100300	72740	74300	60810	1521150
1948	69240	73910	60640	60400	82210	109800	130300	128300	75970	58760	51690	49040	950260
1949	53360	58160	79250	188400	80660	127300	125000	110300	101600	135900	77820	74610	1212360
1950	54400	79900	48090	101500	110100	162300	126100	102400	67670	36160	42040	45050	975710
1951	48920	49650	24660	36150	104500	132400	117900	108700	54550	30500	19190	15620	742740
1952	14760	13500	14070	28020	74910	99000	110200	103200	53340	20720	48640	34000	614360
1953	47330	69890	30180	130000	81610	101500	103900	81040	41700	83880	24740	94840	890610
1954	34980	15580	25030	54710	110900	106600	125600	98820	34840	21760	19590	19210	667620
1955	24760	48900	31380	56940	154200	246900	177100	135100	96990	156700	102800	41240	1273010
1956	23590	39900	32560	55710	149600	126900	132000	94380	36610	18640	12260	13060	735210
1957	11700	13550	43080	352000	1720000	1310000	327700	173000	209100	547400	440300	333700	5481530
1958	295500	473000	448400	312900	358200	308500	299500	189400	179600	124300	82840	36760	3108900
1959	58950	83920	56970	152500	156100	121800	138700	208200	163500	657000	313500	221600	2332740
1960	211500	226900	226800	233600	176700	256600	177800	136100	74450	362800	113100	134000	2330350
1961	147700	353600	242500	221700	162400	357400	388400	246700	215200	60870	189600	212800	2798870
1962	134600	23590	26930	35640	106700	150200	134800	130700	87010	39580	30800	63380	963930
1963	38370	77590	18680	80550	101400	121600	116400	120400	109200	19980	7930	7920	820020
1964	8180	8310	10820	55840	98980	143600	112200	73590	100500	22760	18870	12150	665800
1965	122800	184600	32790	56590	429500	436100	127700	87390	94180	54970	140100	206200	1972920
1966	71740	57150	39550	152200	383300	143200	121100	93150	78510	40240	42930	11590	1234660
1967	9990	9940	44600	97830	145600	144100	96600	133600	128300	53600	91300	32780	988240
1968	481000	408100	418700	427500	583800	448700	209500	117600	105300	31390	25340	64210	3321140
1969	24780	66520	78610	166600	296200	127300	107100	108200	83640	130900	210900	148700	1549450
1970	165900	174300	387400	338900	346800	285000	183500	113500	97350	49300	19930	15330	2177210
1971	26120	10090	65040	94710	121600	139400	103700	106300	75440	125400	198400	223300	1289500
1972	75260	42590	47920	119500	142600	133400	91560	106900	92670	41170	19810	19510	932890
1973	83200	88260	111500	120100	186100	158500	146900	131400	102300	450500	91360	141800	1811920
1974	186400	47460	62680	87270	196500	135500	113600	124400	315000	355900	802000	237600	2664310
1975	239200	472800	256900	183400	729400	565000	258700	129200	101500	-	-	-	-
MAX	481000	473000	448400	672200	1720000	1875000	1925000	449000	2267000	1250000	802000	352800	5481530
MIN	8180	8310	10820	28020	66880	23300	52400	14800	20100	7180	7930	7920	614360
MEAN	118562	123669	119918	152236	284280	257470	219738	120017	183632	174613	115456	105178	1974769
NO.	45	45	45	45	45	45	45	46	46	45	45	45	44
DISTR													
OF MEAN	6.0%	6.3%	6.1%	7.7%	14.4%	13.0%	11.1%	6.1%	9.3%	8.8%	5.8%	5.3%	100%

COLORADO RIVER BASIN

08160000 Dry Creek at Buescher Lake near Smithville, Texas

LOCATION: Lat 30°02'35", long 97°09'20", Bastrop County, 225 ft (68.6 m) upstream from the dam in Bastrop-Buescher State Park, 1.9 mi (3.06 km) upstream from mouth, and 2.2 mi (3.5 km) north of Smithville.

DRAINAGE AREA: 1.48 mi<sup>2</sup> (3.8 km<sup>2</sup>).

PERIOD OF RECORD: October 1939 to September 1966.

GAGE: Water-stage recorder. Datum of gage is 327.86 ft (99.9 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 28 years, 296 ac-ft/yr (0.4 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1939-66): Maximum inflow, 1,870 ft<sup>3</sup>/s (52.96 m<sup>3</sup>/s) June 30, 1940, (gage height, 24.96 ft or 7.6 m<sup>3</sup>/s); no inflow most of time each year.

REMARKS: Records fair. The records represent the flow into Buescher Lake. The capacity of the lake is 248 ac-ft (0.3 hm<sup>3</sup>). No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	-	0	0	0	-
1940	0	0	0	0	17.0	102.0	35.0	0	0	4.00	83.0	155	1314
1941	59.0	26.0	74.0	151	92.0	207	131	0	0	83.0	0	1.60	825
1942	0	0	1.20	4.40	1.20	1.60	25.0	0	3.20	.40	5.00	1.40	83.0
1943	1.40	1.80	1.80	0	3.00	.40	0	0	0	0	0	.20	8.60
1944	4.40	2.20	4.00	2.00	18.0	0	0	3.00	0	0	42.0	33.0	109
1945	75.0	.40	102	77.0	.40	11.0	5.40	1.60	2.40	5.40	1.00	1.20	283
1946	34.0	36.0	98.0	9.9	55.0	199	0	13.0	12.0	1.00	17.0	1.80	477
1947	35.0	.40	73.0	6.70	4.40	1.40	2.20	132	0	.40	.60	2.20	258
1948	1.40	2.80	.40	1.40	11.0	1.80	2.00	.40	.40	0	0	.40	22.0
1949	2.20	8.50	.20	198	0	9.7	3.80	4.00	7.70	59.0	0	4.00	297
1950	.80	40.0	0	61.0	1.80	105	.40	.40	6.10	0	1.20	0	217
1951	.20	1.60	1.60	0	1.80	3.80	0	2.80	4.40	0	0	0	16.2
1952	.80	.80	0	.80	.40	0	.20	0	0	0	0	32.0	35.0
1953	.40	.40	.40	158	21.0	2.20	1.60	3.20	27.0	22.0	2.20	6.90	245
1954	.80	0	0	.80	1.00	0	60.0	2.60	0	0	0	0	65.2
1955	.40	1.20	0	0	1.60	0	0	0	0	0	0	2.60	5.80
1956	0	4.00	0	0	1.80	0	0	0	0	0	0	0	5.80
1957	0	0	5.60	328	135	3.60	1.20	0	61.0	428	122	16.0	1100
1958	54.0	240	1.20	2.80	6.90	1.60	1.40	0	69.0	2.80	.20	1.60	381
1959	1.00	13.0	.60	156	5.80	3.80	2.60	20.0	2.60	5.00	6.70	7.90	225
1960	1.60	9.3	.20	196	49.0	49.0	5.20	5.40	1.00	131	104	64.0	616
1961	60.0	60.0	2.20	7.10	3.20	200	186	9.3	334	1.20	8.90	1.00	873
1962	2.20	3.40	2.40	6.60	2.00	23.0	1.80	0	5.40	7.10	.80	2.60	57.3
1963	.60	2.80	0	1.00	.40	2.40	0	1.20	2.20	0	.40	.60	11.6
1964	.40	.20	1.00	.20	.20	.20	0	0	40.0	.40	0	.60	43.2
1965	1.20	97.0	0	1.20	63.0	18.0	.40	4.80	.40	3.60	42.0	49.0	281
1966	2.60	25.0	2.20	32.0	69.0	2.80	1.40	2.80	1.60	-	-	-	-
MAX	75.0	240	102	328	135	1020	186	132	334	428	122	155	1314
MIN	0	0	0	0	0	0	0	0	0	0	0	0	5.80
MEAN	12.6	21.4	13.8	53.4	21.0	69.2	17.3	7.65	21.5	27.9	16.2	14.3	296
NO.	27	27	27	27	27	27	27	27	27	27	27	27	26
DISTR OF MEAN	4.2%	7.2%	4.7%	18.0%	7.1%	23.3%	5.8%	2.6%	7.3%	9.4%	5.5%	4.8%	100%

COLORADO RIVER BASIN  
08160500 Colorado River at LaGrange, Texas

LOCATION: Lat 29°53'45", long 96°52'15", Fayette County, at the bridge on U.S. Highway 77 in LaGrange, and 1.2 mi (1.9 km) downstream from Bucknar Creek.

DRAINAGE AREA: 40,430 mi<sup>2</sup> (104,713.7 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: December 1938 to September 1955.

GAGE: Wire-weight gage. Datum of gage 211.23 ft (84.4 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 18 years, 1,685,892 ac-ft/yr (2,078.7 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1938-55): Maximum discharge, 200,000 ft<sup>3</sup>/s (5,664.0 m<sup>3</sup>/s) July 27, 1938 (gage height, 42.95 ft or 13.1 m); minimum, 210 ft<sup>3</sup>/s (5.9 m<sup>3</sup>/s) April 9, 1952.

Maximum stage known, 58.7 ft (17.3 m) July 9, 1869, from marble highwater marker in LaGrange.

REMARKS: Records good. There are many diversions above the station for irrigation and municipal water supply.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1938	-	-	-	-	-	-	-	-	-	-	-	43070	-
1939	61220	69600	59970	81580	103100	170700	224400	88410	56320	123900	69070	66070	1174340
1940	61080	90010	75410	121900	122600	435000	567200	89220	97010	104300	337000	478300	2579030
1941	234000	306100	492300	736900	1355000	1072000	409600	110100	106500	154000	61170	85800	5123470
1942	89020	87570	73400	139300	71580	100400	222200	91010	152000	241400	257400	168800	1694080
1943	177500	145900	139500	162200	143800	138500	123000	109100	68560	77350	75860	81610	1442880
1944	140400	141700	162100	82750	194500	180700	200900	210400	201600	157200	165800	234800	2072850
1945	252300	197900	222700	273600	148500	176300	239300	233200	148700	147200	129200	141400	2310300
1946	194300	154700	225300	165500	251700	224800	136200	186500	208700	154400	319300	194100	2415500
1947	281300	160200	191500	133700	126000	132100	134700	179800	104200	72560	80540	66620	1663220
1948	75550	79540	67210	62910	99970	111800	125600	134900	85140	62450	52710	48470	1006250
1949	54770	102600	85070	310000	85560	132100	128600	113200	102800	161100	81370	95360	1452530
1950	71160	109200	55390	138400	121600	201600	125100	102100	79430	37310	48500	51730	1141520
1951	53250	55000	26210	37670	109800	143900	109500	111300	83130	34850	19550	17240	801400
1952	16490	14230	14490	34900	108200	100400	110500	99370	62020	20630	57730	70440	709400
1953	55210	82080	33770	164500	142800	125900	114600	85880	60570	99080	31900	99960	1096250
1954	39160	17340	24780	64390	124900	118000	135200	109700	38310	21720	18640	19210	731350
1955	22890	49480	27330	54560	160400	277600	184300	126300	82670	-	-	-	-
MAX	281300	306100	492300	736900	1355000	1072000	567200	233200	208700	241400	337000	478300	5123470
MIN	16490	14230	14490	34900	71580	100400	109500	85880	38310	20630	18640	17240	709400
MEAN	110565	109597	116261	162633	204118	225988	193582	128264	102215	104341	112859	115469	1685892
NO.	17	17	17	17	17	17	17	17	17	16	16	17	16
DISTR OF MEAN	6.6%	6.5%	6.9%	9.6%	12.1%	13.4%	11.5%	7.6%	6.1%	6.2%	6.7%	6.8%	100%

COLORADO RIVER BASIN  
08160800 Redgate Creek near Columbus, Texas

LOCATION: Lat 29°47'56", long 96°31'55", Colorado County, 68 ft (21 m) downstream from the bridge on Farm Road 109, 1.8 mi (2.9 km) upstream from Cummins Creek, and 7.0 mi (11.3 km) north of Columbus.

DRAINAGE AREA: 17.3 mi<sup>2</sup> (44.8 km<sup>2</sup>).

PERIOD OF RECORD: May 1962 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 210.82 ft (64.258 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 14 years, 4,186 ac-ft/yr (5.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1962-75): Maximum discharge, 4,200 ft<sup>3</sup>/s (119 m<sup>3</sup>/s) Oct. 23, 1970 (gage height, 14.60 ft or 4.450 m); no flow for many days.

Maximum stage since at least 1860, 23.4 ft (7.13 m) in late June or early July 1940, from information by the Texas Highway Department and a local resident.

REMARKS: Records fair. No diversion above station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1962	-	-	-	-	51.0	257	22.0	2.60	19.0	21.0	25.0	1.35	-
1963	74.0	263	52.0	40.0	30.0	26.0	22.0	2.00	2.40	0	8.90	24.0	544
1964	61.0	38.0	161	73.0	62.0	57.0	10.0	12.0	85.0	5.40	117	55.0	736
1965	1220	836	59.0	29.0	676	50.0	10.0	3.20	2.40	18.0	351	5.16	3771
1966	241	843	149	356	854	28.0	9.3	8.90	4.20	4.20	4.20	15.0	2517
1967	15.0	12.0	12.0	68.0	298	7.90	1.40	15.0	569	95.0	14.0	24.0	1131
1968	458	53.0	66.0	141	3000	1940	228	13.0	58.0	28.0	224	284	6493
1969	97.0	1710	1210	1070	1430	59.0	5.00	17.0	33.0	6.80	34.0	90.0	5762
1970	67.0	55.0	488	155	617	10.0	.90	0	662	3010	69.0	38.0	5172
1971	18.0	35.0	18.0	14.0	20.0	5.10	.50	68.0	28.0	732	47.0	692	1678
1972	354	177	1050	51.0	2730	39.0	17.0	6.00	6.00	24.0	32.0	25.0	4511
1973	146	266	2340	1820	791	2880	37.0	16.0	199	1520	213	615	10843
1974	1960	312	106	44.0	321	46.0	21.0	1070	2290	193	822	493	7678
1975	343	330	104	1210	2270	879	169	92.0	53.0	49.0	59.0	81.0	5639
MAX	1960	1710	2340	1820	3000	2880	228	1070	2290	3010	822	692	10843
MIN	15.0	12.0	12.0	14.0	20.0	5.10	.50	0	2.40	0	4.20	15.0	544
MEAN	389	379	447	390	939	449	39.5	94.7	286	408	144	221	4186
NO. OF MEAN	13	13	13	13	14	14	14	14	14	14	14	14	13
DISTR OF MEAN	9.3%	9.1%	10.7%	9.3%	22.4%	10.7%	.9%	2.3%	6.8%	9.7%	3.4%	5.3%	100%

COLORADO RIVER BASIN  
08161000 Colorado River at Columbus, Texas

LOCATION: Lat 29°42'22", long 96°32'12", Colorado County, at the bridge on U.S. Highway 90 at the eastern edge of Columbus, 340 ft (104 m) downstream from the Texas and New Orleans Railroad Co. bridge, and 2.6 mi (4.2 km) downstream from Cummins Creek.

DRAINAGE AREA: 41,070 mi<sup>2</sup> (106,370 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing; 41,170 mi<sup>2</sup> (106,630 km<sup>2</sup>) at site "near Eagle Lake".

PERIOD OF RECORD: June 1916 to December 1975. Records collected at site 23 mi (37 km) downstream October 1930 to May 1939 published as "near Eagle Lake".

GAGE: Water-stage recorder. Datum of gage is 155.52 ft (47.402 m) above mean sea level, datum of 1929. Prior to May 1, 1919, various nonrecording gages at sites in the immediate vicinity at datum 3.00 ft (0.914 m) lower. May 1, 1919 to Nov. 23, 1930, water-stage recorder at site about 300 ft (91 m) downstream at datum 3.00 ft (0.914 m) lower. Sept. 17, 1930 to June 12, 1929 (Oct. 1, 1930 to May 31, 1939, used herein), water-stage recorder at site 23 mi (37 km) downstream at different datum. May 17 to Nov. 14, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE: 60 years, 2,352,643 ac-ft/yr (2,900.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1916-75): Maximum discharge, 190,000 ft<sup>3</sup>/s (5,380 m<sup>3</sup>/s) June 18, 1935 (gage height, 38.5 ft or 11.73 m, present site and datum), computed on the basis of records for the station near Eagle Lake; minimum, 93 ft<sup>3</sup>/s (2.63 m<sup>3</sup>/s) Sept. 1, 1918.

Maximum stage since at least 1852, 41.6 ft (12.68 m), present datum, in July 1899 and Dec. 6, 1913, from information by a local resident. The river divided each time and left Columbus on an island.

REMARKS: Records fair. There are many diversions above the station for irrigation and municipal water supply. Regulation is the same as that for the Colorado River at Austin (station 08158000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1916	-	-	-	-	-	58400	61200	42900	25800	51500	30200	23900	-
1917	22300	20700	23300	25100	79900	69000	37800	7870	60900	14400	11700	13400	386370
1918	31500	21400	17000	244000	148000	164000	41200	9280	39700	324000	768000	364000	2172080
1919	417000	224000	283000	248000	689000	1230000	1010000	354000	750000	1270000	425000	263000	7163000
1920	670000	248000	134000	82700	494000	138000	75600	371000	367000	92200	100000	88500	2861000
1921	62700	50900	219000	377000	108000	509000	68900	18600	384000	62300	27100	35400	1922900
1922	39900	43800	119000	1030000	2500000	269000	116000	50900	29300	24500	98900	30000	4351300
1923	23900	110000	209000	480000	438000	130000	80600	38300	249000	157000	611000	663000	3189800
1924	219000	381000	293000	295000	454000	393000	53500	20700	91900	78100	36100	46200	2361500
1925	41200	35300	25400	18300	329000	238000	48800	31900	108000	701000	301000	61800	1946900
1926	177000	64100	310000	978000	457000	203000	144000	72600	190000	168000	103000	179000	3045700
1927	60600	233000	170000	360000	130000	229000	122000	43300	26900	328000	70200	44800	1817800
1928	40200	80000	59600	43200	216000	231000	49600	277000	75600	56900	31800	59700	1220600
1929	56500	26300	78700	235000	682000	649000	97200	32600	136000	93500	178000	36900	2301700
1930	70700	48300	41300	25200	545000	273000	44500	19200	50300	1250000	168000	274000	2809500
1931	315000	383000	339000	109000	241000	133000	81200	41500	27600	153000	89800	76200	1989300
1932	403000	286000	240000	62500	553000	228000	664000	100000	833000	164000	65500	59000	3658000
1933	149000	84400	142000	69000	248000	103000	35000	60900	45900	27400	25400	21800	1011800
1934	113000	127000	200000	483000	84800	13200	65800	30900	20600	12540	47440	91960	1311240
1935	41930	144600	36480	106800	1458000	1789000	247600	139400	989000	217000	127000	226100	5522910
1936	79100	59060	64430	40730	836600	224900	736300	73240	1945000	1556000	284800	241400	6141560
1937	203400	139000	233900	113400	77260	135100	73210	46510	29650	106900	47260	111000	1316590
1938	413200	156800	90980	427600	286500	131700	1581000	616900	96910	59630	48690	53050	3962960
1939	70850	84750	63630	78100	108900	182200	248100	86480	58660	116100	80600	70200	1248500
1940	64960	97590	78100	126800	135000	319300	764300	91850	93680	126200	586900	570600	3055270
1941	252100	313000	556000	785400	1447000	1106000	484800	138900	109900	178100	80490	94690	5546380
1942	87490	82350	75870	272800	80070	96790	227700	100900	153500	234300	276400	184400	1872570
1943	199300	158500	162200	155500	149300	139700	131700	111600	73760	77970	82710	93040	1535280
1944	176900	157900	187100	87550	195100	179900	198300	210500	200600	156800	179800	260400	2190850
1945	301800	217500	234500	351900	161400	198700	234200	256000	154300	151700	129600	146100	2537700
1946	212700	166700	292400	174400	283700	288600	166500	175400	229100	166800	374800	211300	2742400
1947	314400	166100	202200	138100	128600	134200	136500	199300	121300	75000	83690	70100	1769490
1948	70340	85730	72440	64540	117500	111200	124800	136500	86430	59580	51340	49680	1030080
1949	59250	170200	104100	351500	95820	136000	140700	119400	102900	169400	79350	106200	1638820
1950	84430	157700	55110	149100	124400	240700	128600	102200	93220	40260	45430	53310	1274460
1951	52590	55100	29050	32290	93480	162500	107900	101300	84700	33710	22730	21210	796560
1952	17360	16860	16920	43040	122400	97140	107700	97070	67140	22990	47680	108900	765200
1953	64580	86940	40010	136000	209700	125900	121400	86520	65410	90520	37940	98490	1163410
1954	44590	18820	24060	57670	124300	111600	121000	103600	38820	22740	19120	20360	706680
1955	21040	63660	25260	51420	150400	256400	177900	137400	86970	152200	98830	40740	1262220
1956	25060	55480	31410	55680	143000	128100	126900	95780	40180	21650	14000	19820	757060
1957	13160	19280	80800	411000	1702000	1446000	321600	165500	340900	754100	474100	353200	6081640
1958	355300	552500	427400	323500	394200	298800	291400	181200	224300	139700	122400	45420	3356120
1959	62350	110200	65890	361800	189600	140900	128600	205700	167700	605800	329400	250400	2618340
1960	234000	271200	232300	358500	270200	390400	189800	147900	82940	389300	259800	174700	3001040
1961	207700	399200	259900	232100	160400	487700	495900	235900	527100	78580	255500	202900	3542880
1962	148400	42080	42610	48870	88190	142200	116900	108300	85070	52600	36200	78800	990220
1963	42880	89950	26630	75430	104400	117000	108900	98960	87950	26860	12120	9980	801060
1964	11190	16260	40690	47790	92310	125800	98560	67240	115300	31710	25990	19140	691980
1965	121500	261400	39810	68900	526800	455200	149000	86840	88740	59620	170800	239400	2268010

COLORADO RIVER BASIN  
08161000 Colorado River at Columbus, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	91320	103500	69650	150200	448300	147200	120900	95130	75930	40270	45460	14890	1402750
1967	12530	11270	38180	97750	155200	128300	82130	123400	170600	77870	92780	35100	1025110
1968	518700	380700	369500	462600	661100	687400	250000	127400	175300	45450	44970	141500	3869620
1969	40500	191200	182300	257900	348300	146700	105400	103100	83800	126600	218800	147300	1951900
1970	162200	184000	440600	356600	458600	306200	200600	117900	108600	148100	26250	21200	2530850
1971	31450	14860	52630	88920	122700	127400	102000	104400	85080	116600	194200	259600	1299840
1972	100900	56260	60710	97190	276800	141400	100500	107800	93010	53120	27540	22790	1138020
1973	108900	140100	188300	268800	194400	417100	163100	135900	102600	547200	121900	152400	2540700
1974	398000	76250	78250	87920	193900	160500	109800	166100	511900	299300	795000	249500	3126420
1975	212900	440800	220100	174200	891900	619900	305200	141100	108700	58720	43440	32760	3249720
MAX	670000	552500	556000	1030000	2500000	1789000	1581000	616900	1945000	1556000	795000	663000	7163000
MIN	11190	11270	16920	18300	77260	34200	35000	7870	20600	12540	11700	9980	386370
MEAN	146504	143772	143995	219242	376346	301056	212072	122953	194469	208590	154733	128911	2352643
NO.	59	59	59	59	59	60	60	60	60	60	60	60	59
DISTR OF MEAN	6.2%	6.1%	6.1%	9.3%	16.0%	12.8%	9.0%	5.2%	8.3%	8.9%	6.6%	5.5%	100%

COLORADO RIVER BASIN  
08162000 Colorado River at Wharton, Texas

LOCATION: Lat 29°18'32", long 96°08'13", Wharton County, at the bridge on U.S. Highway 59 in Wharton, 1,100 ft (335 m) downstream from the Texas and New Orleans Railroad Co. bridge, and 12 mi (19 km) upstream from Jones Creek.

DRAINAGE AREA: 41,380 mi<sup>2</sup> (107,170 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: April 1919 to September 1925, October 1938 to December 1976.

GAGE: Water-stage recorder. Datum of gage is 65.42 ft (19.940 m) above mean sea level, datum of 1920. Prior to Oct. 1 1938, various types of recording and nonrecording gages 800 ft (244 m) upstream at different datum. Oct. 1, 1938 to June 1, 1966, nonrecording gage 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE: 46 years (1919-25, 1938-76), 2,136,844 ac-ft/yr (2,634.5 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1919-25, 1938-76): Maximum discharge, 100,000 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s) July 3, 1940 (gage height, 35.99 ft or 10.970 m); no flow Aug. 6, 1925 (the result of pumping).

Maximum stage since at least 1869, 38.9 ft (11.86 m) Dec. 8, 1913, present datum, from information by local residents; below Wharton, the floodwater combined with floodwater of the Brazos River.

REMARKS: Records fair. There are many diversions above the station for irrigation, municipal water supply, and oilfield operations. Regulation is the same as that for the Colorado River at Austin (station 018158000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1919	-	-	-	278 000	652 000	109 000	953 000	370 000	666 000	1171 000	466 000	273 000	-
1920	695 000	295 000	159 000	109 000	514 000	145 000	756 000	362 000	392 000	99 600	102 000	99 000	3047 200
1921	664 000	566 000	205 000	389 000	111 000	489 000	101 000	185 000	314 000	68 300	36 000	453 000	1900 100
1922	537 000	490 000	136 000	777 000	-	288 000	133 000	44 100	34 100	27 400	99 000	486 000	-
1923	311 000	102 000	212 000	472 000	403 000	140 000	937 000	264 000	273 000	174 000	571 000	681 000	3179 200
1924	239 000	390 000	315 000	305 000	433 000	409 000	625 000	255 000	838 000	70 200	358 000	424 000	2411 200
1925	402 000	331 000	308 000	217 000	317 000	236 000	441 000	304 000	120 000	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	694 30	557 60	656 30	-
1939	971 70	1079 00	843 50	754 80	981 50	1386 00	2195 00	5983 0	5529 0	1161 00	929 10	791 20	1224 400
1940	7545 0	1113 00	839 00	126 700	1054 00	181 800	7678 00	7094 0	9318 0	1248 00	6804 00	6684 00	30900 70
1941	3054 00	3274 00	5845 00	813 200	1471 000	1066 000	5407 00	1471 00	1180 00	192 700	1169 00	1136 00	57965 00
1942	9501 0	9542 0	9045 0	288 400	647 50	7765 0	2386 00	797 00	1536 00	221 000	286 000	1964 00	1886 980
1943	2103 00	1845 00	1852 00	165 800	1373 00	9944 0	934 30	834 30	6528 0	76 100	912 30	1133 00	15053 10
1944	2089 00	1743 00	2559 00	95 090	2206 00	1433 00	1481 00	1418 00	1922 00	1585 00	1801 00	2825 00	22012 90
1945	3468 00	2267 00	2179 00	424 200	1599 00	1672 00	1721 00	2408 00	1496 00	158 700	1390 00	1607 00	25636 00
1946	2291 00	2159 00	3130 00	167 200	3129 00	3115 00	1941 00	1319 00	2254 00	182 400	3969 00	2291 00	29094 00
1947	3537 00	1849 00	2232 00	144 600	1197 00	8327 0	8047 0	1424 00	9614 0	7605 0	8287 0	815 60	16688 60
1948	8083 0	9648 0	7956 0	5979 0	8804 0	4988 0	7262 0	7361 0	6362 0	5195 0	5183 0	5009 0	81830 0
1949	5834 0	1633 00	1280 00	346 100	1029 00	9699 0	9636 0	7142 0	8868 0	1997 00	9856 0	1306 00	15809 50
1950	9872 0	1669 00	6471 0	148 100	1151 00	2382 00	7885 0	5283 0	8288 0	4068 0	4430 0	507 50	11820 20
1951	5181 0	5518 0	2988 0	3366 0	5099 0	1207 00	4543 0	4657 0	7600 0	3779 0	2514 0	216 20	5947 70
1952	1867 0	2199 0	2015 0	5793 0	1308 00	5687 0	6449 0	4691 0	5202 0	2358 0	3923 0	1146 00	64724 0
1953	8554 0	1025 00	4606 0	7155 0	2367 00	5650 0	7142 0	5407 0	7201 0	8311 0	5019 0	992 60	10289 10
1954	4820 0	2163 0	2197 0	4456 0	7915 0	5364 0	5387 0	5592 0	2592 0	2275 0	2056 0	2139 0	46956 0
1955	2479 0	7449 0	2216 0	4172 0	1125 00	2049 00	1416 00	1094 00	6948 0	1604 00	1060 00	479 70	11154 10
1956	2835 0	5834 0	3132 0	4457 0	8755 0	7347 0	4902 0	4023 0	2825 0	1823 0	1307 0	194 10	49181 0
1957	1546 0	2009 0	1054 00	334 700	1678 000	1396 000	2630 00	1323 00	3022 00	7595 00	4890 00	3507 00	58463 50
1958	3522 00	5438 00	4360 00	314 100	3595 00	2368 00	2364 00	1424 00	2163 00	1367 00	1375 00	538 90	31655 90
1959	6548 0	1390 00	7373 0	425 300	1867 00	1093 00	7750 0	1597 00	1525 00	5996 00	3414 00	2544 00	25846 10
1960	2461 00	2698 00	2171 00	253 100	3511 00	4185 00	1713 00	1285 00	7109 0	2999 00	3680 00	1723 00	29667 90
1961	2519 00	4584 00	2672 00	220 800	1422 00	4926 00	4732 00	1966 00	5590 00	9122 0	255 400	2102 00	36187 20
1962	1620 00	535 00	4997 0	5226 0	5075 0	1113 00	7251 0	5457 0	7881 0	5549 0	4020 0	860 80	86744 0
1963	6009 0	9519 0	3784 0	5469 0	5691 0	6139 0	6597 0	5173 0	5602 0	2168 0	1573 0	156 60	5929 00
1964	1375 0	2197 0	4907 0	3793 0	5213 0	7037 0	4427 0	2494 0	7887 0	4058 0	3328 0	230 60	49022 0
1965	1341 00	2794 00	6180 0	5055 0	4644 00	4127 00	11480 0	5130 0	5567 0	6452 0	1939 00	2518 00	21349 40
1966	1079 00	1023 00	9305 0	133 300	4411 00	11300 0	7614 0	5708 0	4090 0	3932 0	5181 0	196 20	12755 20
1967	1710 0	1488 0	3486 0	5427 0	8206 0	6575 0	4342 0	6101 0	1495 00	8802 0	8631 0	380 80	73526 0
1968	5185 00	3754 00	3660 00	435 600	6417 00	7360 00	2303 00	8440 0	1359 00	4069 0	3859 0	1515 00	37545 80

COLORADO RIVER BASIN  
08162000 Colorado River at Wharton, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	46790	212700	199400	243800	338300	97190	63720	55410	48560	103600	216400	158000	1783870
1970	172300	178900	435700	344600	426900	262200	158900	83730	92270	178700	37840	27870	2399910
1971	33640	17470	39470	58730	69440	60900	53570	73110	116300	107700	212000	289600	1131930
1972	118700	73030	67830	56720	304500	98130	73720	55320	47190	45730	35700	30200	1006570
1973	106700	144600	206000	339200	175200	494800	118700	113800	122500	566700	159900	156900	2705000
1974	425600	93390	83630	78900	168100	99890	72720	106100	474600	287900	825100	294400	3010330
1975	227400	443400	240600	189500	870000	605800	287400	107100	73570	56190	47660	38260	3186880
MAX	695000	543800	584500	813200	1678000	1396000	953000	370000	666000	1171000	825100	681000	5846350
MIN	13750	14880	20150	21700	50750	49880	43420	18500	25920	18230	13070	15660	469560
MEAN	153911	159350	153597	208600	301917	271808	165657	96924	146868	163823	169693	144496	2136644
NO.	43	43	43	44	43	44	44	44	44	44	44	44	41
DISTR OF MEAN	7.2%	7.5%	7.2%	9.8%	14.1%	12.7%	7.8%	4.5%	6.9%	7.7%	7.9%	6.8%	100%



COLORADO RIVER BASIN

08162500 Colorado River near Bay City, Texas

LOCATION: Lat 28°58'26", long 96°00'44", Matagorda County, 6,300 ft (1,920 m) downstream from the bridge on State Highway 35, 7,100 ft (2,160 m) downstream from the Texas and New Orleans Railroad Co. bridge, and 2.8 mi (4.5 km) west of Bay City.

DRAINAGE AREA: 41,650 mi<sup>2</sup> (107,870 km<sup>2</sup>), of which 12,880 mi<sup>2</sup> (33,360 km<sup>2</sup>) is probably noncontributing.

PERIOD OF RECORD: May 1948 to December 1975.

GAGE: Water-stage recorder. Datum of gage is at mean sea level, July 2-8, 1940, nonrecording gage at the highway bridge, 6,300 ft (1,920 m) upstream at datum 30.60 ft (9.327 m) lower.

AVERAGE DISCHARGE: 28 years, 1,746,841 ac-ft/yr (2,153.8 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1948-75): Maximum discharge, 84,100 ft<sup>3</sup>/s (2,380 m<sup>3</sup>/s) June 26, 1960; maximum elevation, 48.2 ft (14.69 m), present datum, July 4, 1940, at site 6,300 ft (1,920 m) upstream at the bridge on State Highway 35, observed by the Corps of Engineers (elevation, 46.6 ft or 14.20 m, adjusted to present site); no flow at times in 1951-53 and 1956.

Maximum elevation since 1868, 56.1 ft (17.10 m) Dec. 10, 1913.

REMARKS: Records fair. There are many diversions above the station for irrigation and municipal water supply. Regulation is the same as that for the Colorado River at Austin (station 08158000).

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1948	-	-	-	-	62050	19390	36850	39170	55240	53820	53230	48850	-
1949	57970	158300	128700	358100	89580	52920	57540	32310	66320	277200	97310	155600	1531850
1950	117300	206200	71750	156200	90730	210200	50140	20990	80760	42530	40470	48460	1135730
1951	51710	58060	32510	17530	27440	88590	4390	18380	76700	39030	26150	24950	465440
1952	21150	25860	21200	58270	112500	27000	30930	14480	45420	23970	37020	119300	537100
1953	84500	89530	43910	27250	302800	10590	38070	55190	89730	80850	52590	99950	974960
1954	48230	22370	16000	22830	41570	13200	11880	33530	28210	27870	22520	22260	310470
1955	29840	91400	18200	25940	87210	157100	92920	94730	63860	154200	106700	55240	977340
1956	30550	57170	23860	28110	54490	48470	10090	22580	18660	17580	13420	18250	343230
1957	15320	19300	125300	299100	1706000	1461000	249500	108000	296000	788000	509300	379500	5956320
1958	377900	550400	463400	300500	345000	210900	209800	127900	226400	143200	155200	63660	3174260
1959	75720	204100	82910	450100	179900	89230	51890	154100	153200	640300	357600	271000	2710050
1960	258500	284900	227100	227900	362700	530100	157800	119800	66250	304000	420000	228000	3187050
1961	298100	460300	287900	218500	115400	512500	471900	176900	663900	106800	280500	220100	3812800
1962	164300	58740	43020	33470	20980	70390	35810	16880	52860	49990	40520	83500	670460
1963	60200	90930	35490	23050	21860	22860	39090	19250	23380	21620	18910	21060	397700
1964	15840	27740	49190	7440	13950	30030	7090	7010	52250	47090	41330	35220	334180
1965	137300	269300	47580	21870	384300	378700	84160	11620	26600	62610	206100	252200	1882340
1966	116200	109200	95680	128200	401600	67160	26310	35850	5590	36160	50610	16240	1090800
1967	16590	13690	15820	19260	27830	17520	610	19150	159200	67670	79080	41600	477471
1968	505900	385400	363300	408200	622700	717000	207600	45440	113500	46970	37290	151000	3604300
1969	54060	222200	232000	254300	342200	53660	22830	12300	19410	91000	215100	164800	1683860
1970	172100	179800	453200	324900	429600	254500	131500	54590	79810	233700	41840	28200	2383740
1971	36410	19020	17390	33260	32800	92500	17250	48900	154200	103500	206000	300200	1061430
1972	117200	87980	45990	21020	279000	50620	56810	19100	25320	47150	52910	30640	833740
1973	106200	151500	223700	345700	149300	489700	53980	87970	173500	547500	159200	151200	2639450
1974	394400	105400	75700	54080	149800	48610	35120	66920	447600	279700	801400	312600	2771330
1975	211600	434300	231500	161100	807700	598200	273400	85370	46860	55870	55120	62060	3023080
MAX	505900	550400	463400	450100	1706000	1461000	471900	176900	663900	788000	801400	379500	5956320
MIN	15320	13690	15820	7440	13950	10590	610	7010	5590	17580	13420	18240	310470
MEAN	132411	162337	128604	149118	259321	225809	88025	55300	118240	156781	149194	121701	1746841
NO.	27	27	27	27	28	28	28	28	28	28	28	28	27
DISTR													
OF MEAN	7.6%	9.3%	7.4%	8.5%	14.8%	12.9%	5.0%	3.2%	6.8%	9.0%	8.5%	7.0%	100%

COLORADO-LAVACA COASTAL BASIN  
08162600 Tras Palacios River near Midfield, Texas

LOCATION: Lat 28°55'40", long 96°10'15", Matagorda County, at the bridge on Farm Road 456, 1.0 mi (1.6 km) downstream from Juznita Creek, and 2.4 mi (3.9 km) southeast of Midfield.

DRAINAGE AREA: 145 mi<sup>2</sup> (376 km<sup>2</sup>).

PERIOD OF RECORD: June 1970 to December 1975. Prior to October 1973, published as "Tres Palacios Creek near Midfield".

GAGE: Water-stage recorder. Datum of gage is 5.38 ft (1.640 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 112,069 ac-ft/yr (138.2 hm<sup>3</sup>/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 7,590 ft<sup>3</sup>/s (215 m<sup>3</sup>/s) Sept. 11, 1973 (gage height, 31.11 ft or 9.482 m); minimum, 2.2 ft<sup>3</sup>/s (0.062 m<sup>3</sup>/s) Feb. 1, 2, 1971.

Maximum stage since 1855, 37 ft (11.3 m) in September 1960, from information by local residents.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	0	5800	3200	6570	44320	695	456	-
1971	297	402	1230	3120	3000	2700	3560	5040	30290	6560	1040	21320	78559
1972	3840	3000	1300	1980	31920	5210	4050	2730	5330	2270	8330	427	70387
1973	3030	9560	2830	36200	14050	40550	4290	6250	75930	26680	8400	1200	228970
1974	10990	3210	5500	4070	23740	5590	2840	10010	10530	2310	29190	11180	119160
1975	2950	1030	1620	3450	11260	19780	4850	6170	4300	1750	1870	18550	77580
MAX	10990	9560	5500	36200	31920	40550	5800	10010	75930	44320	29190	21320	228970
MIN	297	402	1230	1980	3000	0	2840	2730	4300	1750	695	427	70387
MEAN	4221	3440	2496	9764	16794	12305	4232	5567	22158	13982	8254	8856	112069
NO.	5	5	5	5	5	6	6	6	6	6	6	6	5
DISTR OF MEAN	3.8%	3.1%	2.2%	8.7%	15.0%	11.0%	3.8%	5.0%	19.8%	12.5%	7.4%	7.9%	100%

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08079550 Buffalo Springs Lake near Lubbock . . . . .	321	2
08079600 Double Mountain Fork Brazos River at Justiceburg . . . . .	322	3
08080000 Double Mountain Fork Brazos River near Rotan . . . . .	323	4
08080500 Double Mountain Fork Brazos River near Aspermont . . . . .	324	5
08080540 McDonald Creek near Post . . . . .	325	7
08080600 Running Water Draw near Clovis, New Mexico . . . . .	326	8
08080700 Running Water Draw at Plainview . . . . .	327	9
08080910 White River Reservoir near Spur . . . . .	328	10
08080950 Duck Creek near Girard . . . . .	329	11
08081000 Salt Fork Brazos River near Peacock . . . . .	330	12
08081200 Croton Creek near Jayton . . . . .	331	13
08081500 Salt Croton Creek near Aspermont . . . . .	332	14
08082000 Salt Fork Brazos River near Aspermont . . . . .	333	15
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08082700 Millers Creek near Munday . . . . .	337	21
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