

RIO GRANDE BASIN

08420500 Pecos River at Pecos, Texas

LOCATION: Lat 31°26', long 103°28', Ward-Reeves County line, at the bridge on U.S. Highway 80, 195 ft (59.4 m) downstream from the Texas and Pacific Railway Co. bridge, 1.7 mi (2.7 km) east of Pecos, and 11 mi (17.7 km) upstream from Toyah Creek.

DRAINAGE AREA: 22,100 mi² (57,239.0 km²).

PERIOD OF RECORD: January 1899 to June 1907, May 1914 to June 1915, April 1922 to April 1926, September 1939 to December 1954. Published as "near Pecos" 1899-1907, as "near Barstow" 1914-15, and as "above Barstow" 1922-26.

GAGE: Water-stage recorder. Datum of gage is 2,552.0 ft (777.8 m) above mean sea level, datum of 1929. Prior to July 26, 1926, staff gage or water-stage recorders at several sites within 10 mi (16.1 km) of present site at various datums, August 15, 1939 to October 12, 1946, water-stage recorder at site 284 ft (86.6 m) upstream at datum 2.0 ft (0.6 m) higher.

AVERAGE DISCHARGE: 32 years (1899-1907, 1914-15, 1922-26, 1939-54), 181,589 ac-ft/yr (223.9 hm³/yr).

EXTREMES: Period of record (1899-1907, 1914-15, 1922-26, and 1939-54): Maximum gage height, about 20 ft (6.1 m) October 5, 1904, present datum, at the railroad bridge, 195 ft (59.4 m) upstream (discharge not determined); no flow at times in 1953-54.

REMARKS: Records good. The flow is largely regulated by four large reservoirs above Orla. There are several large diversions below Red Bluff Reservoir for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1899	19700	16900	7990	5040	2080	1870	22700	13300	7860	4690	9760	22000	133890
1900	28500	19500	6100	1740	42900	19000	11300	17400	70800	66400	22000	8480	314120
1901	-	-	-	-	-	-	9220	38900	40200	13100	91600	16200	-
1902	23400	16900	-	-	-	-	-	23600	9940	6890	6070	12600	-
1903	21600	16800	10600	2920	1880	63700	6950	2910	2630	3090	3500	4770	141350
1904	3490	2810	1130	547	3860	2640	885	5800	17400	-	-	-	-
1905	20900	37900	84400	35500	67100	74000	218000	102000	-	-	35200	47000	-
1906	39500	31500	12100	20400	21800	16600	38200	17000	7140	7930	12400	51800	276370
1907	32600	18700	11400	732	1840	13700	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	-	-	-	-	-	-	-
1910	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	-	-	-	-	-	-	-	-	-	-	-	-
1912	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	-	-	-	-	-	-	-
1914	-	-	-	-	34900	72000	53000	10200	22500	21000	-	25900	-
1915	20000	-	17900	-	-	10900	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	8690	4620	2830	138	33.8	61.9	1110	3940	3200	-
1923	2720	5690	2220	108	21.4	86.7	13.9	286	7660	60400	27000	32100	138306
1924	30400	14700	7970	91.6	70.4	44.0	36.9	26.6	246	714	2110	2200	58609
1925	835	574	65.5	21.0	36.7	39.3	28.0	35900	25100	14200	-	-	-
1926	-	-	1090	399	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	9930	4060	3980	2810	-
1940	1810	1030	3880	12120	3800	6320	12770	6170	4350	2150	899	714	56013
1941	607	576	581	20580	69640	254100	59410	32160	179300	451100	108900	53980	1230954
1942	43690	32810	10550	23880	49680	7750	19300	19650	33750	23730	46080	26990	337860
1943	25320	6390	7850	16360	14860	8850	15290	19810	7050	1830	1010	819	125439
1944	720	1020	7920	19840	14940	13320	15160	18920	3840	1720	1150	1220	99770
1945	1060	3590	12640	13920	16550	15990	11230	16070	8910	1900	733	791	103384
1946	590	1000	6840	11840	6770	946	9110	848	440	421	659	609	40073
1947	411	695	6420	21520	7830	2050	10400	1170	407	318	343	407	51971
1948	380	340	345	11160	2380	16840	6920	2070	1200	251	591	406	42883

RIO GRANDE BASIN
08420500 Pecos River at Pecos, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	705	441	2500	10300	1060	875	8110	4780	3100	356	270	355	32852
1950	295	327	9650	13230	11790	6550	15820	18510	5380	1890	538	778	84758
1951	559	4120	1590	13940	16130	3170	16050	3800	248	171	170	722	60670
1952	217	302	2330	8760	1010	1140	4930	4930	579	89.0	111	114	24512
1953	124	111	72.0	20.0	7.30	0	232	64.0	0	2130	31.0	39.0	2830
1954	30.0	25.0	5150	249	3040	114	2130	2660	2970	0	0	0	16368
MAX	43690	37900	84400	35500	69640	254100	218000	102000	179300	451100	108900	53980	1230954
MIN	30.0	25.0	65.5	20.0	7.30	0	13.9	26.6	0	0	0	0	2830
MEAN	11858	9029	8936	10145	14837	21979	21012	14964	16893	25616	14579	11741	181589
NO.	27	26	27	27	27	28	27	28	28	27	26	27	21
LIST OF MEAN	6.5%	5.0%	4.9%	5.6%	8.2%	12.1%	11.6%	8.2%	9.3%	14.1%	8.0%	6.5%	100%

RIO GRANDE BASIN

08424500 Madera Canyon near Toyahvale, Texas

LOCATION: Lat 30°52', long 103°58', Jeff Davis County, 11 mi (17.7 km) upstream from Aguja Canyon, and 12 mi (19.3 km) southwest of Toyahvale (Reeves County).

DRAINAGE AREA: 53.8 mi² (139.3 km²).

PERIOD OF RECORD: August 1932 to September 1949.

GAGE: Water-stage recorder. Datum of gage is 4,200 ft (1,280.2 m) above mean sea level, datum of 1929. Prior to December 16, 1932, staff gage at same site and datum.

AVERAGE DISCHARGE: 18 years, 3,884 ac-ft/yr (4.8 hm³/yr).

EXTREMES: Period of record (1932-49): Maximum discharge, 5,120 ft³/s (145.0 m³/s) September 29, 1932 (gage height, 8.0 ft or 2.4 m, from floodmark); 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
1932	-	-	-	-	-	-	-	2480	12300	2310	93.0	83.0	-
1933	29.0	12.0	9.8	0	0	57.0	18.0	1110	2280	69.0	3.60	0	3588
1934	0	0	0	0	9.2	48.0	44.0	70.0	0	0	0	0	171
1935	0	0	0	0	0	84.0	142	99.0	312	7.50	.20	0	645
1936	0	0	0	0	1010	164	3.60	4.00	3010	410	55.0	56.0	4713
1937	7.90	2.20	0	0	19.0	79.0	0	96.0	114	2.61	19.0	24.0	622
1938	29.0	10.0	0	0	6.00	887	5320	391	131	2.80	0	0	6777
1939	3.20	0	0	0	0	34.0	75.0	372	7.10	17.0	.40	0	509
1940	0	0	0	0	0	693	141	1260	38.0	191	18.0	4.40	2345
1941	2.80	7.10	4.00	257	570	610	943	1160	3460	5460	561	69.0	13104
1942	30.0	11.0	7.90	0	0	0	0	2000	978	25.0	1.80	0	3054
1943	0	0	0	0	103	266	1050	3.60	0	0	0	0	1423
1944	0	0	0	0	0	0	8.10	1310	4490	367	42.0	19.0	6236
1945	12.0	0	3.80	32.0	0	0	2260	11.0	0	296	11.0	0	2626
1946	200	128	13.0	0	0	0	0	1.80	2070	1800	53.0	24.0	4290
1947	27.0	9.7	1.00	0	431	0	19.0	0	0	0	0	0	488
1948	0	0	0	0	0	0	36.0	0	0	0	0	0	36.0
1949	3.20	45.0	24.0	3.40	17.0	0	49.0	181	24.0	-	-	-	-
MAX	200	128	24.0	257	1010	887	5320	2480	12300	5460	561	83.0	13104
MIN	0	0	0	0	0	0	0	0	0	0	0	0	36.0
MEAN	20.2	13.2	3.74	17.2	127	172	595	566	1623	660	50.5	16.4	3884
NO.	17	17	17	17	17	17	17	18	18	17	17	17	16
DISTR OF MEAN	.5%	.3%	.1%	.4%	3.3%	4.4%	15.3%	15.1%	41.8%	17.0%	1.3%	.4%	100%

RIO GRANDE BASIN

08425500 Phantom Lake Spring near Toyahvale, Texas

LOCATION: Lat 30°58'00", long 103°50'40", Jeff Davis County, on the concrete outlet canal, 375 ft (114.3 m) below the source of the spring, 3.5 mi (5.6 km) southwest of Toyahvale, and 7.0 mi (11.3 km) southwest of Balmorhea (Reeves County).

PERIOD OF RECORD: January 1932 to December 1933, March 1942 to September 1966.

GAGE: Water-stage recorder and Parshall flume since October 1948. Datum of gage is 3,472.69 ft (1,058.5 m) above mean sea level, datum of 1929. December 21, 1931 to December 31, 1933, water-stage recorder at site 425 ft (129.5 m) downstream at datum 3.05 ft (0.9 m) higher.

AVERAGE DISCHARGE: 27 years (1932-33, 1942-66), 9,501 ac-ft/yr (11.7 hm³/yr).

EXTREMES: Period of record (1932-33, 1942-66): Maximum discharge, 114 ft³/s (3.2 m³/s) October 2, 3, 1932; minimum, 6.3 ft³/s (0.2 m³/s) May 4-10, 1966.

REMARKS: Records good. The discharge represents the total flow of the spring. The water is used for irrigation in the vicinity of Toyahvale and Balmorhea.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	799	880	1130	857	830	762	787	781	2040	3830	1480	1210	15386
1933	1100	939	984	952	1000	904	879	904	2090	1060	946	984	12742
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	1110	893	922	774	799	799	1190	1050	893	861	-
1943	861	722	799	774	799	774	861	861	774	738	714	676	9353
1944	738	722	738	714	799	774	799	799	1730	1720	1130	984	11647
1945	984	833	922	893	922	833	2520	1230	1130	1290	1010	922	13489
1946	1040	1110	1050	893	861	833	861	861	774	861	833	861	10838
1947	861	833	984	952	984	893	922	922	833	861	833	861	10739
1948	861	778	861	833	861	833	799	799	774	847	893	883	10022
1949	861	778	861	833	799	831	972	936	843	883	879	861	10337
1950	861	778	899	871	819	833	873	974	1000	1550	976	922	11356
1951	922	833	922	863	861	833	855	783	819	861	833	861	10246
1952	817	748	799	774	799	774	1150	1010	772	738	770	799	9950
1953	799	776	861	776	799	774	799	799	740	738	724	799	9384
1954	758	666	738	728	799	720	787	845	774	799	730	799	9143
1955	799	722	799	720	738	714	809	859	803	932	803	799	9497
1956	799	748	799	774	718	659	738	738	714	738	714	706	8845
1957	623	555	676	708	726	655	682	702	631	676	662	692	7988
1958	676	597	676	647	686	676	686	702	785	1100	1260	797	9288
1959	742	657	702	680	676	629	678	724	655	623	655	676	8097
1960	676	625	676	592	598	611	696	799	851	772	631	688	8215
1961	682	611	676	682	670	591	655	680	645	668	595	615	7770
1962	608	519	590	565	575	561	614	611	574	565	536	552	6870
1963	554	490	506	493	520	513	523	532	643	598	561	567	6500
1964	568	536	533	503	496	485	465	464	460	497	434	434	5875
1965	453	425	484	469	456	432	458	441	435	439	411	421	5324
1966	426	396	433	397	394	392	402	548	942	-	-	-	-
MAX	1100	1110	1130	952	1000	904	2520	1230	2090	3830	1480	1210	15386
MIN	426	396	433	397	394	392	402	441	435	439	411	421	5324
MEAN	764	703	785	735	745	706	817	782	904	978	804	778	9501
NO.	26	26	27	27	27	27	27	27	27	26	26	26	25
DISIR OF MEAN	8.0%	7.4%	8.3%	7.7%	7.8%	7.4%	8.6%	8.2%	9.5%	10.3%	8.5%	8.2%	100%

RIO GRANDE BASIN
08427000 Giffin Springs at Toyahvale, Texas

LOCATION: Lat 30°56'36", long 103°47'45", Reeves County, 125 ft (38.1 m) below the springs, 550 ft (167.6 m) west of Toyahvale, and 400 ft (121.9 m) north of the bridge on U.S. Highway 290.

PERIOD OF RECORD: October 1931 to September 1933.

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

REMARKS: Records good. The discharge records represent the total flow of the springs. The water is used for irrigation in the vicinity of Toyahvale and Balmorhea.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	292	231	222	-
1932	239	262	283	280	283	277	285	285	301	375	351	344	3565
1933	325	274	312	298	304	294	296	289	330	-	-	-	-
MAX	325	274	312	298	304	294	296	289	330	375	351	344	3565
MIN	239	262	283	280	283	277	285	285	301	292	231	222	3565
MEAN	282	268	298	289	294	286	291	287	316	334	291	263	3519
NO. OF DISTR	2	2	2	2	2	2	2	2	2	2	2	2	1
OF MEAN	8.0%	7.6%	6.5%	8.2%	8.3%	8.1%	8.3%	8.2%	9.0%	9.5%	8.3%	8.0%	100%

RIO GRANDE BASIN

08427500 San Solomon Springs at Toyahvale, Texas

LOCATION: Lat 30°56'40", long 103°47'10", Reeves County, on the South Canal at Toyahvale, and 540 ft (164.6 m) downstream from the spring pool.

PERIOD OF RECORD: October 1931 to December 1933, March 1941 to September 1965.

GAGE: Water-stage recorder and sharp-crested weir. Datum of gage is 3,311.02 ft (1,009.2 m) above mean sea level, datum of 1929. Prior to November 18, 1931, water-stage recorder at site about 0.6 mi (0.96 km) downstream at different datum.

AVERAGE DISCHARGE: 28 years, (1931-33, 1941-65), 24,720 ac-ft/yr (30.5 hm³/yr).

EXTREMES: Period of record (1931-33, 1941-65): Maximum discharge, 71.0 ft³/s (2.0 m³/s) October 7-9, 1932 and October 26-30, 1941; minimum, 26.0 ft³/s (0.7 m³/s) July 8-24, 1965.

REMARKS: Records good. The discharge represents the total flow of the springs and is determined by combining the flows in the South Canal, Middle, and North Canals. The flow into each canal is regulated by the operation of the headgates. The water is used for irrigation in the vicinity of Balmorhea.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	1960	2080	2230	-
1932	2050	1780	2100	1920	1970	1930	2020	2010	3390	4240	3700	3080	30190
1933	2620	2250	2340	2140	2240	2100	2250	2180	3260	2910	2440	2460	29190
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	2020	1980	2340	2320	2440	2470	3170	4220	3970	3700	-
1942	3200	2600	2730	2510	2540	2410	2450	2340	2880	2770	2570	2430	31430
1943	2400	2100	2320	2260	2350	2270	2490	2440	2170	2230	2040	2030	27100
1944	2080	1970	2050	1920	2020	1960	2080	2240	3050	3070	2570	2390	27400
1945	2230	2020	2310	2170	2230	2080	3390	3010	2520	2320	2110	2150	28540
1946	2090	1940	2240	2250	2230	2070	2120	2190	2170	2870	2550	2580	27300
1947	2390	2030	2100	2060	2190	2040	2080	2010	1870	1940	1860	1930	24500
1948	2020	1800	1910	1900	2000	1890	1920	1920	1850	1840	1790	1800	22640
1949	1770	1560	1880	1840	1910	1940	2030	1990	1870	1870	1760	1890	22310
1950	1910	1720	1860	1840	1910	1840	1930	2050	2020	1990	1850	1890	22810
1951	1820	1670	1840	1790	1880	1860	1970	1910	1860	1920	1860	1840	22220
1952	1840	1680	1870	1840	1850	1870	2370	2220	1990	2000	1800	1840	23170
1953	1840	1670	1840	1790	1840	1790	1870	1930	1880	1840	1770	1830	21890
1954	1770	1590	1800	1770	1910	1880	2000	2120	2240	2120	1950	1970	23120
1955	1970	1850	2010	1860	1880	1890	2030	2030	1860	2120	1850	1900	23250
1956	1890	1770	1910	1850	1930	1830	2070	2000	1860	1900	1800	1750	22560
1957	1660	1560	1780	1780	1810	1840	1830	1850	1740	1760	1750	1810	21170
1958	1760	1610	1880	1760	1830	1890	1920	1950	2110	2300	2040	2030	23080
1959	1940	1650	1920	1840	1920	1840	1960	2020	1910	1920	1840	1900	22660
1960	1840	1800	1870	1700	1750	1780	2040	2230	2380	2510	2350	2350	24600
1961	2340	2180	2480	1970	1910	1790	1960	2040	1990	1990	1900	1870	24420
1962	1840	1610	1890	1990	1980	1920	2030	2030	1900	1970	1880	1910	22950
1963	1890	1700	1910	1840	1840	1870	1870	1810	1730	1780	1750	1910	21900
1964	1930	1830	1880	1730	1840	1790	1910	1910	1840	1860	1830	1800	22150
1965	1890	1720	1970	1880	1880	1700	1630	1760	1680	-	-	-	-
MAX	3200	2600	2730	2510	2540	2410	3390	3010	3390	4240	3970	3700	31430
MIN	1660	1560	1780	1700	1750	1700	1630	1760	1680	1760	1750	1750	21170
MEAN	2038	1833	2026	1933	1999	1940	2099	2099	2192	2304	2136	2121	24720
NO.	26	26	27	27	27	27	27	27	27	27	27	27	25
DISTR													
OF MEAN	8.2%	7.4%	8.2%	7.8%	8.1%	7.8%	8.5%	8.5%	8.9%	9.3%	8.6%	8.6%	100%

RIO GRANDE BASIN

08429000 West Sandia Spring at Balmorhea, Texas

LOCATION: Lat 30°59', long 103°44', Reeves County, 500 ft (152.4 m) south of the bridge on U.S. Highway 290, and 0.5 mi (0.9 km) east of Balmorhea.

PERIOD OF RECORD: December 1931 to August 1933.

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

REMARKS: records good. The discharge represents the total flow of the spring.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	-	-	69.0	-
1932	68.0	70.0	79.0	72.0	68.0	67.0	65.0	63.0	96.0	116	102	103	969
1933	102	91.0	90.0	76.0	74.0	68.0	68.0	65.0	-	-	-	-	-
MAX	102	91.0	90.0	76.0	74.0	68.0	68.0	65.0	96.0	116	102	103	969
MIN	68.0	70.0	79.0	72.0	68.0	67.0	65.0	63.0	96.0	116	102	69.0	969
MEAN	85.0	80.5	84.5	74.0	71.0	67.5	66.5	64.0	96.0	116	102	86.0	993
NO.	2	2	2	2	2	2	2	2	1	1	1	2	1
DISTR OF MEAN	8.6%	8.1%	8.5%	7.5%	7.2%	6.8%	6.7%	6.4%	9.7%	11.7%	10.3%	8.7%	100%

RIO GRANDE BASIN

08430000 East Sandia Spring at Balmorhea, Texas

LOCATION: Lat 30°59'00", long 103°43'30", Reeves County, 400 ft (121.9 m) downstream of the spring, and 1 mi (1.6 km) east of Balmorhea.

PERIOD OF RECORD: December 1931 to September 1933.

GAGE: Staff gage, Datum of gage not published.

REMARKS: Records fair. The discharge records represent the total flow of the spring.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	-	-	-	65.0	-
1932	68.0	70.0	78.0	71.0	74.0	62.0	66.0	64.0	80.0	83.0	73.0	74.0	863
1933	79.0	74.0	81.0	77.0	71.0	65.0	61.0	57.0	64.0	-	-	-	-
MAX	79.0	74.0	81.0	77.0	74.0	65.0	66.0	64.0	80.0	83.0	73.0	74.0	863
MIN	68.0	70.0	78.0	71.0	71.0	62.0	61.0	57.0	64.0	83.0	73.0	65.0	863
MEAN	73.5	72.0	79.5	74.0	72.5	63.5	63.5	60.5	72.0	83.0	73.0	69.5	857
NO.	2	2	2	2	2	2	2	2	2	1	1	2	1
DISTR OF MEAN	8.6%	8.4%	9.3%	8.6%	8.5%	7.4%	7.4%	7.1%	8.4%	9.7%	8.5%	8.1%	100%

RIO GRANDE BASIN

08431000 Toyah Creek near Pecos, Texas

LOCATION: Lat 31°17', long 103°28', Reeves County, at the bridge on U.S. Highway 285, 0.8 mi (1.3 km) upstream from Toyah Lake, and 10 mi (16.1 km) southeast of Pecos.

DRAINAGE AREA: 1,024 mi² (2,652.2 km²).

PERIOD OF RECORD: September 1939 to December 1940, October 1943 to September 1945.

GAGE: Water-stage recorder and concrete low-water control. Datum of gage is 2,620 ft (798.6 m) above mean sea level, datum of 1928.

AVERAGE DISCHARGE: 5 years (1939-40, 1943-45), 7,685 ac-ft/yr (9.5 km³/yr).

EXTREMES: Period of record (1939-40, 1943-45): Maximum discharge, 12,000 ft³/s (339.8 m³/s) July 3, 1945 (gage height, 13.64 ft or 4.2 m); no flow at times.

REMARKS: Records good. There are several diversions for irrigation above the station. The floodflow is materially affected by spreader dams above the station for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	69.0	10.0	20.0	21.0	-
1940	26.0	29.0	97.0	41.0	23.0	29.6	8.90	12.0	1.00	88.3	67.0	56.0	1540
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	18.0	23.0	33.0	-
1944	41.0	57.0	51.0	41.0	48.0	99.0	18.0	14.0	206.0	125	219	66.0	3433
1945	720	379	389	374	68.0	25.0	16880	94.0	33.0	-	-	-	-
MAX	720	379	389	374	68.0	29.6	16880	94.0	206.0	88.3	219	66.0	3433
MIN	26.0	29.0	51.0	41.0	23.0	25.0	8.90	12.0	1.00	10.0	20.0	21.0	1540
MEAN	262	155	179	152	46.3	140	5636	40.0	54.1	259	82.2	193	7685
NO.	3	3	3	3	3	3	3	3	4	4	4	4	2
DISTR													
OF MEAN	3.4%	2.0%	2.3%	2.0%	.6%	1.8%	73.3%	.5%	7.0%	3.4%	1.1%	2.5%	100%

RIO GRANDE BASIN

08431500 Salt Draw near Pecos, Texas

LOCATION: Lat 31°19', long 103°29', Reeves County, 88.0 ft (26.8 m) upstream from the bridge on U.S. Highway 285, 1 mi (1.6 km) upstream from Toyah Lake, and 7.5 mi (12.1 km) south of Pecos.

DRAINAGE AREA: 1,882 mi² (4,874.4 km²).

PERIOD OF RECORD: September 1939 to December 1940, October 1943 to September 1945.

GAGE: Water-stage recorder and concrete low-water control. Datum of gage is 2,620 ft (798.6 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 5 years (1939-40, 1943-45), 7,228 ac-ft/yr (8.9 hm³/yr).

EXTREMES: Period of record (1939-40, 1943-45): Maximum discharge, 19,900 ft³/s (563.6 m³/s) August 6, 1940 (gage height, 11.46 ft or 3.5 m, from floodmark); minimum, 0.1 ft³/s (0.003 m³/s) during several periods.

REMARKS: Records fair. No diversion above station. The floodflow is affected by spreader dams for irrigation above the station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	22.0	16.0	13.0	19.0	-
1940	18.0	21.0	59.0	31.0	22.0	31.0	12.0	1854.0	12.0	229.0	25.0	23.0	2108.4
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	13.0	14.0	22.0	-
1944	28.0	19.0	26.0	25.0	199	370	24.0	14.0	95.0	20.0	32.0	27.0	879
1945	33.0	27.0	64.0	55.0	20.0	18.0	20.0	6.10	23.0	-	-	-	-
MAX	33.0	27.0	64.0	55.0	199	370	24.0	1854.0	95.0	229.0	32.0	27.0	2108.4
MIN	18.0	19.0	26.0	25.0	20.0	18.0	12.0	6.10	12.0	13.0	13.0	19.0	879
MEAN	26.3	22.3	49.7	37.0	80.3	140	18.7	618.7	38.0	58.5	21.0	22.7	722.8
NO.	3	3	3	3	3	3	3	3	4	4	4	4	2
DISTR OF MEAN	.4%	.3%	.7%	.5%	1.1%	1.9%	.3%	85.6%	.5%	8.1%	.3%	.3%	100%

RIO GRANDE BASIN

08431700 Limpia Creek above Fort Davis, Texas

LOCATION: Lat 30°36'55", long 104°00'10", Jeff Davis County, 600 ft (180 m) upstream from the low-water crossing on State Highway 118, 2,000 ft (610 m) upstream from Jones Creek, and 6.8 mi (10.9 km) west of Fort Davis.

DRAINAGE AREA: 52.4 mi² (135.7 km²).

PERIOD OF RECORD: October 1965 to December 1975.

GAGE: Water-stage recorder. Datum of gage is about 5,200 ft (1,580 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 11 years, 1,985 ac-ft/yr (2.4 km³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 2,650 ft³/s (75.0 m³/s) Sept. 21, 1974 (gage height, 8.15 ft or 2.484 m); no flow at times each year.

Maximum stage since at least 1925, about 10 ft (3.0 m) in 1939, 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
1965	-	-	-	-	-	-	-	-	-	0	0	0	-
1966	0	0	0	0	0	139	240	1640	1990	112	1,40	0	4122
1967	0	0	0	0	0	1,80	41.0	72.0	256	0	0	0	371
1968	0	0	0	0	0	0	20.0	1900	436	83.0	0	0	2439
1969	0	0	0	0	2.10	0	0	0	0	0	0	0	2.10
1970	0	0	0	0	0	0	0	0	150	148	24.0	.10	322
1971	0	0	0	0	0	0	30.0	44.0	0	18.0	0	0	92.0
1972	0	0	0	0	4.00	0	74.3	1910	865	90.0	0	0	3612
1973	0	0	0	0	0	0	0	0	4,90	4.00	0	0	8,90
1974	0	0	0	0	0	0	0	586	6100	2130	273	59.0	9148
1975	1.50	0	0	0	0	1.50	0	0	3.10	9.9	0	0	16.0
MAX	1.50	0	0	0	4.00	139	74.3	1910	6100	2130	273	59.0	9148
MIN	0	0	0	0	0	0	0	0	0	0	0	0	2.10
MEAN	.15	0	0	0	.61	14.2	107	615	980	236	27.1	5.37	1985
NO. OF MEAN	10	10	10	10	10	10	10	10	10	11	11	11	10
DISTR	.0%	.0%	.0%	.0%	.0%	.7%	5.4%	31.0%	49.4%	11.9%	1.4%	.3%	100%

RIO GRANDE BASIN

08431800 Limpia Creek below Fort Davis, Texas

LOCATION: Lat 30°40'52", long 103°47'30", Jeff Davis County, at the bridge on State Highway 17, 0.9 mi (1.4 km) upstream from Frazier Canyon, and 9.0 mi (14.5 km) northeast of Fort Davis.

DRAINAGE AREA: 227 mi² (588 km²).

PERIOD OF RECORD: December 1961 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 4,459.22 ft (1,359.170 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 15 years, 4,008 ac-ft/yr (4.9 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 5,520 ft³/s (156 m³/s) Sept. 21, 1974 (gage height, 7.70 ft or 2.347 m); maximum gage height, 7.85 ft (2.393 m) June 10, 1964; no flow at times each year.

Maximum stage since 1904 occurred in 1932 (stage unknown), 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
1961	-	-	-	-	-	-	-	-	-	-	-	0	-
1962	0	0	0	0	6.00	1590	999	54.0	20.0	0	0	0	3155
1963	0	0	0	0	217	596	680	1670	1970	121	79.0	73.0	5406
1964	67.0	42.0	27.0	11.0	88.0	1650	626	1470	17.0	6.60	0	0	4005
1965	0	0	0	0	736	369	9.3	65.0	299	3.70	2.30	0	1484
1966	0	0	1.30	12.0	0	480	256	2510	2340	882	201	154	6636
1967	127	89.0	73.0	21.0	7.80	2560	81.0	72.0	232	42.0	57.0	69.0	3431
1968	61.0	44.0	36.0	16.0	10.0	2.90	630	1570	647	280	192	206	3695
1969	164	123	84.0	51.0	36.0	7.30	1.10	0	0	1.0	0	0	465
1970	0	0	2.00	2.20	1.40	0	0	20.0	132	32.0	6.70	1.00	196
1971	8.50	24.0	20.0	8.70	7.80	1.60	0	1420	5.70	5.00	5.00	0	1505
1972	0	0	0	0	62.0	9.00	513	2990	2450	324	171	143	6662
1973	115	101	59.0	26.0	12.0	1.30	1390	69.0	284	9.3	7.60	12.0	2086
1974	19.0	17.0	17.0	13.0	5.20	1.40	0	76.0	12060	2900	606	279	15993
1975	200	148	109	70.0	11.0	552	112	14.0	9.4	3.80	3.30	31.0	1263
MAY	200	148	109	70.0	736	2560	1390	2990	12060	2900	606	279	15993
MIN	0	0	0	0	0	0	0	0	0	0	0	0	196
MEAN	54.4	42.0	30.6	16.5	85.7	558	378	892	1462	329	95.1	64.5	4008
NO.	14	14	14	14	14	14	14	14	14	14	14	15	14
DISTR OF MEAN	1.4%	1.0%	.8%	.4%	2.1%	13.9%	9.4%	22.3%	36.5%	8.2%	2.4%	1.6%	100%

RIO GRANDE BASIN

08432000 Limpia Creek near Fort Davis, Texas

LOCATION: Lat 30°46'36", long 103°44'38", Jeff Davis County, at a low water crossing on a county road, 13.5 mi (21.7 km) northeast of Fort Davis, and 3.0 mi (4.8 km) downstream from Short Canyon Creek.

DRAINAGE AREA: 303 mi² (784.8 km²).

PERIOD OF RECORD: March 1925 to July 1932.

GAGE: Water-stage recorder and artificial control. Datum of gage is 4,200 ft (1,280.2 m) above mean sea level.

AVERAGE DISCHARGE: 8 years, 2,585 ac-ft/yr (3.2 km³/yr).

EXTREMES: Period of record (1925-32): Maximum discharge, 14,200 ft³/s (402.1 m³/s) August 30, 1932 (gage height, 10.42 ft or 3.2 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
1925	-	-	0	0	613	0	0	2380	1890	263	50.6	19.8	-
1926	7.90	37.1	43.2	-	-	-	-	65.5	77.4	31.0	30.0	31.0	-
1927	29.0	31.0	11.0	8.30	0	6.50	289	0	194	0	0	0	569
1928	0	0	0	0	0	.20	935	5470	750	68.0	37.0	29.0	7289
1929	6.00	0	191	29.0	225	29.0	133	82.0	7.70	184	6.00	8.60	903
1930	1.80	0	0	0	71.0	55.0	124	444	0	296	0	0	992
1931	.60	5.60	5.60	14.3	52.9	22.0	30.1	1180	0	1.20	0	0	1312
1932	0	513	22.0	15.0	66.0	744	168	-	-	-	-	-	-
MAX	29.0	513	191	29.0	613	744	935	5470	1890	296	50.6	31.0	7289
MIN	0	0	0	0	0	0	0	0	0	0	0	0	569
MEAN	6.76	83.8	34.1	9.5	147	122	240	1375	417	120	17.7	12.6	2585
NO.	7	7	8	7	7	7	7	7	7	7	7	7	5
GISTR													
CF MEAN	.31	3.22	1.31	.41	5.71	4.71	9.31	53.21	16.11	4.71	.71	.51	1001

RIO GRANDE BASIN

08433000 Barrilla Draw near Saragosa, Texas

LOCATION: Lat 30°57'28", long 103°27'33", Reeves County, at the bridge on U.S. Highway 290 (Interstate Highway 10), 12.2 mi (19.6 km) east of Saragosa, 17.0 mi (27.4 km) east of Balmorhea, and 34.4 mi (55.3 km) west of Fort Stockton.

DRAINAGE AREA: 612 mi² (1,585 km²).

PERIOD OF RECORD: December 1924 to June 1926, July and August 1932 (published as "Barrilla Creek"), October to December 1975.

GAGE: Water-stage recorder. Datum of gage is 3,083.36 ft (939.808 m) above mean sea level, datum of 1929. Prior to Oct. 1, 1975, water-stage recorder at site 600 ft (180 m) upstream at different datum.

AVERAGE DISCHARGE: 5 years, (1924-26, 1932, 1975), 13,524 ac-ft/yr (16.7 hm³/yr).

EXTREMES: Period of record (1924-26, 1932, 1975): Maximum discharge, 15,500 ft³/s (439 m³/s) Aug. 30, 1932 (gage height, 10.45 ft or 3.185 m, site and datum then in use); no flow most of the time.

REMARKS: Records fair. There are considerable diversions for irrigation by spreader dams above the station. The dashes are shown for the missing record for the period September 1932 through September 1975 because the station was re-established in October 1975.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	-	-	-	-	-	-	-	-	-	-	-	0	-
1925	0	0	0	1890	1990	102	2920	3150	1760	0	0	0	11812
1926	0	0	0	0	569	0	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	106	12800	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-

RIO GRANDE BASIN

08433000 Barrilla Draw near Saragosa, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1974	-	-	-	-	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	0	0	0	-
MAX	0	0	0	1890	1990	102	2920	12800	1760	0	0	0	11812
MIN	0	0	0	0	569	0	106	3150	1760	0	0	0	11812
MEAN	0	0	0	945	1280	51.0	1513	7975	1760	0	0	0	13524
NO. OF MEAN	2	2	2	2	2	2	2	2	1	2	2	3	1
OF MEAN	.0%	.0%	.0%	7.0%	9.5%	.4%	11.2%	59.0%	13.0%	.0%	.0%	.0%	100%

RIO GRANDE BASIN

08434000 Toyah Creek below Toyah Lake near Pecos, Texas

LOCATION: Lat 31°21', long 103°24', Reeves County, at a bridge on a county road between Pecos and Grandfalls, at the lower end of Toyah Lake, 6 mi (9.6 km) upstream from the mouth, and 7.4 mi (11.9 km) southeast of Pecos.

DRAINAGE AREA: 3,709 mi² (9,606.3 km²).

PERIOD OF RECORD: September 1939 to September 1951.

GAGE: Water-stage recorder. Datum of gage is 2,560 ft (780.3 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 13 years, 4,797 ac-ft/yr (5.9 hm³/yr).

EXTREMES: Period of record (1939-51): Maximum discharge, 5,850 ft³/s (165.7 m³/s) August 7, 1940 (gage height, 4.17 ft or 1.3 m); no flow at times.

The flood of September 1932 reached a stage of 7.7 ft (2.3 m), from information by local residents.

REMARKS: Records good. There are several small diversions above the station for irrigation. The floodflow is materially affected by the use of spreader dams for irrigation above the station.

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	125	0	317	0	12690	440	3540	220	400	16734
1941	590	250	200	0	853	1850	970	420	990	11470	2900	1310	18669
1942	804	376	120	240	0	0	0	650	354	170	0	220	1674
1943	0	0	0	0	0	0	440	0	0	0	0	0	440
1944	0	0	0	0	454	437	0	660	448	0	0	0	1409
1945	121	520	630	411	0	0	13520	0	0	220	0	0	14330
1946	156	140	20	0	0	160	190	0	0	95	0	0	202
1947	0	0	0	0	640	0	0	290	0	0	0	0	930
1948	0	0	0	0	0	0	710	940	0	0	0	0	165
1949	400	0	0	0	180	3040	0	0	0	0	0	0	3046
1950	0	0	0	0	0	0	170	210	1220	118	0	0	1376
1951	0	0	0	0	0	0	0	140	0	-	-	-	-
MEAN	804	376	120	411	853	3040	13520	12690	1220	11470	2900	1310	18669
MIN	0	0	0	0	0	0	0	0	0	0	0	0	440
MEAN	95.3	37.9	17.1	46.7	115	472	1144	1082	163	1281	244	114	4797
NO.	12	12	12	12	12	12	12	12	13	12	12	12	11
DISR OF MEAN	2.0%	8%	0%	1.0%	2.4%	9.8%	23.9%	22.6%	3.4%	26.7%	5.1%	2.4%	100%

RIO GRANDE BASIN

08435000 Grandfalls-Big Valley Canal near Barstow, Texas

LOCATION: Lat 31°25'21", long 103°15'21", Ward County, 180 ft (55 m) downstream from the diversion dam on the Pecos River and headgate of the canal, and 8.5 mi (13.7 km) southeast of Barstow.

PERIOD OF RECORD: May 1922 to November 1925, October 1940 to May 1941, December 1941 to September 1957, March 1964 to December 1975.

GAGE: Water-stage recorder with concrete weir. Datum of gage is 2,520 ft (768 m) above mean sea level, datum of 1929. Prior to Sept. 1, 1939, at site 120 ft (37 m) downstream at a 0.30 ft (0.091 m) lower datum.

AVERAGE DISCHARGE: 34 years, 7,570 ac-ft/yr (9.3 hm³/yr).

EXTREMES: Period of record (1922-25, 1940-57, 1964-75): Maximum discharge, 381 ft³/s (10.8 m³/s) Aug. 4, 1925; no flow at times each year.

REMARKS: Records good. Water is diverted from the left bank of the Pecos River and is used for irrigation along the bank and downstream from this station.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1922	-	-	-	-	4200	2430	1520	351	1500	200	0	2070	-
1923	5830	7900	6290	3590	2000	2110	1220	1350	4630	3010	7870	11000	57000
1924	11100	10200	9390	4030	1780	274	1460	1120	415	0	2820	6060	47649
1925	4290	3530	3480	1990	1590	1320	1050	12400	-	10700	2450	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	352	0	0	-
1941	0	0	0	962	20	-	-	-	-	-	-	0	-
1942	0	0	0	1170	2020	1440	1950	726	261	276	55.0	45.0	7943
1943	13.0	127	1060	1820	1550	1230	1170	1510	957	278	7.70	26.0	9749
1944	13.0	25.0	186	1410	1510	1090	1620	1270	36.0	0	0	0	7162
1945	0	0	267	1530	2240	1310	1040	1430	1090	165	0	0	9072
1946	0	0	1.00	424	556	527	372	0	148	808	0	0	2636
1947	0	32.0	6.70	961	606	0	903	0	0	0	0	0	2709
1948	0	0	0	205	443	687	636	2.80	160	0	0	1.00	2135
1949	34.0	8.70	2.60	0	0	222	691	262	0	0	0	0	1220
1950	0	0	211	723	625	149	989	806	50.0	0	0	0	3553
1951	0	202	12.0	730	734	237	1460	517	210	0	0	0	4102
1952	0	0	0	537	73.0	0	484	513	0	0	0	0	1607
1953	0	0	0	0	0	0	0	0	0	44.0	0	0	44.0
1954	0	0	36.0	11.0	297	0	361	17.0	513	0	0	0	1235
1955	0	0	40.0	943	59.0	1380	943	1770	146	149	0	0	5432
1956	0	0	22.0	1270	302	865	614	773	189	34.0	97.0	1.96	4362
1957	69.0	326	65.0	28.0	74.0	261	318	308	610	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	0	0	0	0	0	0	0	0	0	0	-
1965	0	0	0	0	0	0	1.00	6.70	0	0	0	0	7.70
1966	0	0	0	0	0	37.0	0	86.0	0	283	380	0	786
1967	359	227	706	476	635	445	540	652	188	18.0	0	0	4246
1968	0	0	102	464	151	583	355	352	238	0	0	0	2245
1969	0	0	26.0	403	0	415	0	0	477	162	1.10	0	1485
1970	0	230	30	573	406	355	536	936	5.40	0	0	0	3042
1971	0	0	0	1040	215	190	535	214	177	6.90	0	0	2376

RIO GRANDE BASIN

08435000 Grandfalls-Big Valley Canal near Barstow, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	0	0	0	4.40	8.00	2.70	0	0	1.50	0	0	4.60	21.2
1973	11.0	3.60	3.70	90.0	96.0	88.0	20.0	39.0	22.0	0	0	9.00	382
1974	19.0	5.20	16.0	2.80	11.0	0	0	0	41.0	12.0	0	0	107
1975	0	0	0	0	11.0	0	0	0	31.0	0	0	0	42.0
MAX	10100	10200	9390	4030	4200	2430	1950	12400	4630	10700	7870	11000	57000
MIN	0	0	0	0	0	0	0	0	0	0	0	0	7.70
MEAN	670	736	686	793	679	552	650	857	397	516	427	607	7570
NO.	31	31	32	32	33	32	32	32	31	32	32	32	28
DISTR OF MEAN	8.8%	9.7%	9.1%	10.5%	9.0%	7.3%	8.6%	11.3%	5.2%	6.8%	5.6%	8.0%	100%

RIO GRANDE BASIN

08435500 Pecos River below Barstow, Texas

LOCATION: Lat 31°25', long 103°15', Reeves-Ward County line, 20 ft (6.1 m) downstream from the Grandfalls-Big Valley Diversion Dam, 6 mi (9.8 km) downstream from Toyah Creek, and 8.5 mi (13.7 km) southeast of Barstow.

DRAINAGE AREA: 25,980 mi² (67,288.2 km²).

PERIOD OF RECORD: September 1939 to December 1940.

GAGE: Water-stage recorder. Datum of gage is 2,512.2 ft (765.7 m) above mean sea level, datum of 1929.

REMARKS: Records good. The flow is regulated to a large extent by four large reservoirs above Orta. There are several diversions below Orta for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	-	-	-	-	-	-	-	-	12160	6770	5960	4280	-
1940	3350	2340	4630	14230	5140	7540	12740	12420	5030	10960	2800	2140	63320
MAX	3350	2340	4630	14230	5140	7540	12740	12420	12160	10960	5960	4280	83320
MIN	3350	2340	4630	14230	5140	7540	12740	12420	5030	6770	2800	2140	83320
MEAN	3350	2340	4630	14230	5140	7540	12740	12420	8595	8865	4380	3210	67440
NO.	1	1	1	1	1	1	1	1	2	2	2	2	1
DISTR													
OF MEAN	3.8%	2.7%	5.3%	16.3%	5.9%	8.6%	14.6%	14.2%	9.8%	10.1%	5.0%	3.7%	100%

RIO GRANDE BASIN

08435600 Toronto Creek near Alpine, Texas

LOCATION: Lat 30°21'28", long 103°42'48", Brewster County, 200 ft (61 m) upstream from the bridge on Farm Road 1703, and 3.4 mi (5.5 km) west of Alpine.

DRAINAGE AREA: 27.9 mi² (72.3 km²).

PERIOD OF RECORD: November 1970 to December 1975. Prior to October 1971, published as "Paisano Creek near Alpine".

GAGE: Water-stage recorder. Datum of gage is 4,613.80 ft (1,406.591 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 577 ac-ft/yr (0.7 hm³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 3,530 ft³/s (100 m³/s) Aug. 14, 1971 (gage height, 4.73 ft or 1.442 m); no flow most of time each year.

REMARKS: Records good.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	-	0	0	-
1971	0	0	0	0	0	0	0	699	68.0	0	0	0	767
1972	0	0	0	0	379	10.0	33.0	0	55.0	3.10	0	0	480
1973	0	0	0	0	0	0	36.0	0	4.40	0	0	0	36.4
1974	0	0	0	.02	.06	0	0	817	462	156	5.10	0	1440
1975	0	0	0	0	0	77.0	79.0	8.50	0	0	0	0	165
MAX	0	0	0	.02	379	77.0	79.0	817	462	156	5.10	0	1440
MIN	0	0	0	0	0	0	0	0	0	0	0	0	36.4
MEAN	0	0	0	.00	75.8	17.4	29.6	305	117	31.8	.85	0	577
NO.	5	5	5	5	5	5	5	5	5	5	6	6	5
DISTR OF MEAN	.0%	.0%	.0%	.0%	13.1%	3.0%	5.1%	52.8%	20.3%	5.5%	.1%	.0%	100%

RIO GRANDE BASIN
08435620 Alpine Creek at Alpine, Texas

LOCATION: Lat 30°21'09", long 103°40'02", Brewster County, at the low-water crossing at Avenue G in Alpine.

DRAINAGE AREA: 18.1 mi² (46.9 km²).

PERIOD OF RECORD: November 1970 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 4,489.49 ft (1,368.397 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 490 ac-ft/yr (0.6 hm³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 3,210 ft³/s (90.9 m³/s) Sept. 20, 1974 (gage height, 6.85 ft or 2.088 m); no flow at times each year.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	-	0	0	-
1971	0	0	0	0	0	0	.10	21.0	2.80	1.00	0	0	24.9
1972	0	0	0	0	7.00	0	6.00	0	2.00	.10	0	0	15.1
1973	0	0	0	0	0	0	93.0	1.90	.40	0	0	0	95.3
1974	0	0	0	1.00	0	0	15.0	54.0	199.0	61.0	72.0	61.0	2254
1975	39.0	14.0	3.90	2.50	.20	13.0	11.0	0	.02	0	0	0	83.6
MAX	39.0	14.0	3.90	2.50	7.00	13.0	93.0	54.0	199.0	61.0	72.0	61.0	2254
MIN	0	0	0	0	0	0	.10	0	.02	0	0	0	15.1
MEAN	7.80	2.80	.78	.70	1.44	2.60	25.0	15.4	39.9	12.4	12.0	10.2	490
NO. OF MEAN	5	5	5	5	5	5	5	5	5	5	6	6	5
DISTR													
OF MEAN	1.6%	.6%	.2%	.1%	.3%	.5%	5.1%	3.1%	81.4%	2.5%	2.4%	2.1%	100%

RIO GRANDE BASIN

08435660 Moss Creek near Alpine, Texas

LOCATION: Lat 30°20'09", long 103°38'27", Brewster County, 0.3 mi (0.5 km) upstream from the bridge on State Highway 118, and 1.8 mi (2.9 km) south of Alpine.

DRAINAGE AREA: 11.3 mi² (29.3 km²).

PERIOD OF RECORD: November 1970 to December 1975. Prior to October 1974, published as "West Moss Creek near Alpine".

GAGE: Water-stage recorder. Datum of gage is 4,577.72 ft (1,395.289 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 6 years, 340 ac-ft/yr (0.4 km³/yr).

EXTREMES: Period of record (1970-75): Maximum discharge, 3,760 ft³/s (106 m³/s) Sept. 20, 1974 (gage height, 7.93 ft or 2.417 m); no flow most of the time each year.

REMARKS: Records fair.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1970	-	-	-	-	-	-	-	-	-	-	0	0	-
1971	0	0	0	0	0	5.90	1.30	.80	49.0	6.00	0	0	63.0
1972	0	0	0	0	24.0	0	52.0	24.0	17.0	.80	0	0	118
1973	0	0	0	0	0	0	97.0	6.70	2.20	0	0	0	108
1974	0	0	.04	0	0	0	12.0	69.0	1080	3.50	17.0	32.0	1214
1975	40.0	14.0	2.80	.10	.90	34.0	101	13.0	3.30	0	0	0	209
MAX	40.0	14.0	2.80	.10	24.0	34.0	101	69.0	1080	6.00	17.0	32.0	1214
MIN	0	0	0	0	0	0	1.30	.80	2.20	0	0	0	63.0
MEAN	8.00	2.80	.57	.02	4.98	7.98	52.7	23.1	2.30	2.06	2.83	5.33	340
NO. OF MEAN	5	5	5	5	5	5	5	5	5	5	6	6	5
DISTR OF MEAN	2.41	.81	.21	.01	1.51	2.31	15.51	6.81	67.71	.61	.81	1.61	1001

RIO GRANDE BASIN

08435700 Sunny Glen Canyon near Alpine, Texas

LOCATION: Lat 30°22'52", long 103°44'08", Brewster County, just upstream from a private low-water crossing, 200 ft (61 m) north of the end of Farm Road 1703, 4.7 mi (7.6 km) northwest of Alpine, and 9.2 mi (14.8 km) upstream from Paisano Creek.

DRAINAGE AREA: 29.7 mi² (76.9 km²).

PERIOD OF RECORD: February 1968 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 4,660 ft (1,420 m), datum of 1929.

AVERAGE DISCHARGE: 8 years, 236 ac-ft/yr (0.3 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 576 ft³/s (16.3 m³/s) Sept. 21, 1974 (gage height, 2.71 ft or 0.826 m); no flow most of the time 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
1968	-	0	0	0	0	0	0	0	0	0	0	0	-
1969	0	0	0	0	.40	0	0	0	0	0	0	0	.40
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	16.0	0	0	0	0	16.0
1972	0	0	0	0	0	0	0	39.0	50.0	0	0	0	89.0
1973	0	0	0	0	0	0	7.40	0	0	0	0	0	7.40
1974	0	0	0	0	0	0	0	11.0	1080	628	28.0	.02	1747
1975	0	0	0	0	0	2.40	24.0	.02	0	0	0	0	26.4
MAX	0	0	0	0	.40	2.40	24.0	39.0	1080	628	28.0	.02	1747
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	.05	.30	3.92	8.25	141	78.5	3.50	.00	236
NO.	7	8	8	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.1%	1.7%	3.5%	60.0%	33.3%	1.5%	.0%	100%

RIO GRANDE BASIN

08435800 Coyanosa Draw near Fort Stockton, Texas

LOCATION: Lat 31°02'27", long 103°08'15", Pecos County, at the bridge on U.S. Highway 285, and 18.4 mi (29.6 km) northwest of Fort Stockton.

DRAINAGE AREA: 1,182 mi² (3,061 km²).

PERIOD OF RECORD: February 1964 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 2,846.86 ft (867.72 m) above mean sea level. Jan. 22 to Sept. 30, 1969, nonrecording gage at same site and datum.

AVERAGE DISCHARGE: 12 years, 2,843 ac-ft/yr (3.5 hm³/yr).

EXTREMES: Period of record (1964-75): Maximum discharge, 12,600 ft³/s (357 m³/s) June 15, 1967 (gage height, 15.20 ft or 4.633 m); no flow most of the time each year.

Maximum stage occurred in 1954, 19.6 ft (5.97 m).

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
1964	-	0	0	0	0	0	0	0	.60	0	0	0	-
1965	0	0	0	0	7.70	.50	36.0	2.20	387	0	0	0	433
1966	0	0	0	.10	0	1150	.30	117	0	.10	0	0	1267
1967	0	0	283	0	1750	9300	0	0	1.30	0	0	0	11334
1968	0	0	.10	0	364	0	353	15.0	26.0	.04	1.50	0	760
1969	0	0	0	0	106	0	0	0	24.0	1.20	0	0	131
1970	0	0	.30	0	0	117	1.90	0	0	10.0	0	0	129
1971	0	0	0	0	114	0	0	365	34.0	0	0	0	513
1972	0	0	0	0	1380	5.00	182	282	2110	0	0	0	3959
1973	0	0	0	0	0	0	201	0	30.0	0	0	0	231
1974	0	0	0	0	0	0	43.0	339	14060	399	0	0	14841
1975	0	0	0	0	396	0	0	131	0	0	0	0	527
MAX	0	0	283	.10	1750	9300	353	365	14060	399	1.50	0	14841
MIN	0	0	0	0	0	0	0	0	0	0	0	0	129
MEAN	0	0	23.6	.01	343	881	66.1	104	1389	34.2	.12	0	2843
NO.	11	12	12	12	12	12	12	12	12	12	12	12	11
DISTR OF MEAN	.0%	.0%	.8%	.0%	12.1%	31.0%	2.4%	3.7%	46.9%	1.2%	.0%	.0%	100%

RIO GRANDE BASIN

08436500 Pecos County Water Improvement District No. 2 (Upper Diversion) Canal near Grandfalls, Texas

LOCATION: Lat 31°18'43", long 102°55'10", Pecos County, 2.5 mi (4.0 km) upstream from the bridge on State Highway 18, 4.6 mi (7.4 km) southwest of Grandfalls, and 12.5 mi (20.1 km) downstream from the headgate of the canal.

PERIOD OF RECORD: April 1922 to July 1925 (published as "Imperial Highline Canal near Grandfalls"), October 1940 to September 1957, March 1964 to December 1975.

GAGE: Water-stage recorder. Concrete weir since Dec. 8, 1947. Datum of gage is 2,455 ft (748 m) above mean sea level, datum of 1929. Prior to Aug. 21, 1939, water-stage recorder at site 8.5 mi (13.7 km) upstream at different datum. Aug. 21 to Oct. 3, 1939 and May 25 to Aug. 4, 1941, staff gage, and Oct. 4, 1939 to May 21, 1941 and Aug 5, 1941 to Sept. 30, 1957, water-stage recorder at site 2.5 mi (4.0 km) downstream at different datum.

AVERAGE DISCHARGE: 34 years, 23,059 ac-ft/yr (28.4 hm³/yr).

EXTREMES: Period of record (1922-25, 1940-57, 1964-75): Maximum daily discharge, 368 ft³/s (10.4 m³/s) Sept. 18, 1923; no flow at times each year.

REMARKS: Records good. Water is diverted from the right bank of the Pecos River and is used for irrigation and to supply water for the Imperial Reservoir. Water is released from the Imperial Reservoir into the Pecos County Water Improvement District No. 2 canal and into the Pecos County Water Improvement District No. 3 canal for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1922	-	-	-	3170	4780	696	806	515	-	2020	-	1870	-
1923	384	328	358	260	69.0	-	-	307	1440	7700	10200	683	-
1924	517	2350	556	537	1240	1260	67.0	30.3	64.3	4570	2700	633	14525
1925	417	452	410	324	236	118	53.9	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	-	-	-	-
1940	-	-	-	-	-	-	-	-	-	3790	12.0	0	-
1941	0	0	0	0	3830	12980	4600	3320	452	1520	713	0	27415
1942	0	0	563	10220	11170	3730	7600	13030	1540	21.0	18.0	1.00	47893
1943	252	5330	5130	6220	11210	5060	7030	7410	3960	7.70	0	.20	51610
1944	2.20	2.20	2910	9040	9220	11090	6040	9270	4310	1.30	4.60	4.20	51894
1945	.20	2950	7580	7330	10070	7920	5130	7940	7050	282	43.0	63.0	56358
1946	78.0	91.0	5440	5170	4270	13.0	4960	710	0	0	0	0	20732
1947	305	421	3200	9770	6490	1600	3980	874	447	7.30	97.0	0	27191
1948	502	742	507	4770	1520	7170	5830	2350	965	371	599	0	25326
1949	0	0	687	7160	804	1540	3490	1660	2720	0	0	0	18061
1950	0	0	5590	5350	9390	3230	7130	11110	5370	580	0	0	47750
1951	0	1790	642	7480	9770	2050	5940	444	885	657	758	1370	31786
1952	203	204	1310	5890	853	521	2690	1670	438	0	0	0	13779
1953	0	0	0	0	0	0	0	0	0	1200	119	0	1319
1954	0	9.1	4080	747	2320	2000	1350	1980	2020	186	0	0	14692
1955	0	0	9590	5460	2870	2590	9020	6840	5110	4360	1010	439	47289
1956	0	0	385	8160	1560	948	5850	3790	1160	173	0	0	22026
1957	192	5760	1960	200	410	300	915	944	2140	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	219	0	377	2020	0	0	0	0	0	0	-
1965	6.50	71.0	43.0	9.9	61.0	2720	746	2280	184	20.0	0	0	6141
1966	0	0	0	3.60	173	2460	3060	3960	614	1870	1160	1030	14331
1967	434	431	1630	7500	2690	2990	5610	6300	913	59.0	0	0	28557
1968	0	0	1320	1750	1470	2290	3690	3980	3410	113	0	0	18023
1969	0	0	2730	931	6.60	1040	1630	455	2400	3570	884	0	13647
1970	0	21.0	.60	0	3200	1470	4040	1420	4600	508	0	25.0	15485
1971	0	0	0	92.0	6150	176	0	3540	1460	935	0	9.4	12362

RIO GRANDE BASIN

08436500 Pecos County Water Improvement District No. 2 (Upper Diversion) Canal near Grandfalls, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1972	0	0	0	3320	2300	144	1770	1230	2270	0	0	0	11034
1973	0	6	2.30	1610	755	2480	1460	1840	5370	0	0	0	13517
1974	0	0	2690	19.0	443	3700	0	1230	4070	6770	24.0	0	18946
1975	0	0	0	0	5810	0	0	0	6750	0	2.70	0	12563
MAX	517	5780	9590	10220	11210	12980	9020	13030	7050	7700	10200	1870	56358
MIN	0	0	0	0	0	0	0	0	0	0	0	0	1319
MEAN	106	677	1660	3409	3501	2697	3265	3138	2333	1290	592	191	23059
NO. OF MEAN	31	31	32	33	33	32	32	32	31	32	31	32	28
	.5%	2.9%	8.1%	14.8%	15.2%	11.7%	14.2%	13.6%	10.1%	5.6%	2.6%	.8%	100%

RIO GRANDE BASIN

08437500 Pecos County Water Improvement District No. 2 Canal near Imperial, Texas

LOCATION: Lat 31°16'38", long 102°43'54", Pecos County, 2.5 mi (4.0 km) west of Imperial, and 7.5 mi (12.1 km) downstream from the Imperial Reservoir.

PERIOD OF RECORD: October 1940 to May 1941, March 1942 to September 1957, March 1964 to December 1975.

GAGE: Water-stage recorder. Wooden weir June 1, 1943 to Feb. 29, 1964 and concrete weir since Mar. 1, 1964. Datum of gage is 2,400 ft (732 m) above mean sea level, datum of 1929. Prior to July 11, 1940, at site 1.5 mi (2.4 km) upstream at different datum. July 12, 1940 to Mar. 23, 1942, at site 2.5 mi (4.0 km) upstream at datum 3.36 ft (1.042 m) higher. Mar. 24, 1942 to May 31, 1943, at site 0.5 mi (0.8 km) upstream at datum 0.70 ft (0.213 m) higher.

AVERAGE DISCHARGE: 30 years, 9,760 ac-ft/yr (12.0 hm³/yr).

EXTREMES: Period of record (1940-41, 1942-57, 1964-75): Maximum discharge, 144 ft³/s (4.08 m³/s) July 27, 28, 31, Aug. 1, 1945; no flow at times each year.

REMARKS: Records good. Water is diverted from the Imperial Reservoir on the right bank of the Pecos River for irrigation in the vicinity of Imperial.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	-	-	-	-	153	0	0	-
1941	0	40.0	2480	2750	391	-	-	-	-	-	-	-	-
1942	-	-	715	5210	5000	2080	5440	3300	798	1460	0	0	-
1943	0	1500	2640	5090	1950	1300	3920	6600	2120	0	0	0	25120
1944	0	111	684	4220	4720	819	5220	4460	1290	588	134	449	22695
1945	0	1390	44.0	4560	3280	2050	3780	5170	2060	0	0	0	22334
1946	0	764	222	3080	1570	532	1930	417	0	0	0	0	8515
1947	0	0	0	3860	1720	653	3180	911	165	0	.60	0	10490
1948	0	0	713	1140	1410	1670	2230	2250	871	0	0	0	10284
1949	0	0	0	744	137	23.0	2740	1180	1150	52.0	0	0	6026
1950	0	0	0	3520	2340	557	4060	5420	1200	516	131	0	17744
1951	0	1510	54.0	3530	2740	0	5490	418	0	0	0	0	13742
1952	686	0	430	1110	1080	222	1280	1390	14.0	0	0	0	6212
1953	0	0	0	0	0	0	0	0	0	180	123	0	303
1954	0	0	0	0	1100	1000	1130	1060	877	0	326	407	5900
1955	0	0	121	3280	1220	2250	3000	3560	1340	1200	73.0	0	16044
1956	0	1600	141	1050	264	1400	1470	1830	446	0	0	0	8201
1957	0	482	0	0	627	141	385	280	508	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	0	0	0	0	0	0	0	0	0	0	-
1965	0	0	0	0	0	642	221	664	195	0	0	0	1722
1966	0	0	0	4.20	0	1080	474	1240	1260	454	509	420	5441
1967	455	1120	639	2820	1640	1320	2990	2680	465	75.0	474	0	14878
1968	0	0	0	1380	.60	940	1350	2000	1350	454	0	0	7475
1969	0	683	0	388	39.0	428	603	322	316	1230	2.30	0	4011
1970	0	0	0	1270	202	615	1010	1320	774	0	37.0	0	5228
1971	0	657	0	940	338	305	508	939	1080	934	702	29.0	6432
1972	0	0	0	289	228	651	728	678	1330	2030	1.40	0	5935
1973	0	0	20.0	614	457	1100	708	651	680	771	136	524	5661
1974	0	0	0	747	215	848	226	0	243	752	0	0	3031
1975	0	920	86.0	2350	439	2170	1600	28.0	1150	1060	153	0	9976
MAX	686	1600	2640	5210	5000	2250	5490	6600	2120	2030	702	524	25120
MIN	0	0	0	0	0	0	0	0	0	0	0	0	303
MEAN	42.3	399	317	1860	1142	886	1988	1742	782	426	100	65.3	9750
NO.	27	27	29	29	29	28	28	28	28	28	28	28	25
DISTR													
OF MEAN	.4%	4.1%	3.3%	19.1%	11.7%	9.1%	20.4%	17.9%	8.0%	4.4%	1.0%	.7%	100%

RIO GRANDE BASIN

08437600 Pecos County Water Improvement District No. 3 Canal near Imperial, Texas

LOCATION: Lat 31°16'51", long 102°44'26", Pecos County, 220 ft (67 m) upstream from the crossing on Farm Road 11, 0.3 mi (0.5 km) downstream from the headgate of Pecos No. 2 Canal, and 3.0 mi (4.8 km) west of Imperial.

PERIOD OF RECORD: October 1940 to September 1941, March 1942 to September 1957, March 1964 to December 1975.

GAGE: Water-stage recorder. Concrete weir since Mar. 7, 1944. Datum of gage is 2,380 ft (728 m) above mean sea level, datum of 1929. Prior to Jan. 10, 1941, at site 350 ft (107 m) downstream at datum 6.79 ft (2.070 m) lower. Jan. 10, 1941 to Mar. 29, 1942, at site 200 ft (61 m) downstream at datum 3.65 ft (1.113 m) lower.

AVERAGE DISCHARGE: 30 years, 8,089 ac-ft/yr (10.0 hm³/yr).

EXTREMES: Period of record (1940-41, 1942-57, 1964-76): Maximum discharge, 175 ft³/s (4.96 m³/s) Aug. 11, 1940; no flow at times each year.

REMARKS: Records good. Water is diverted from the Imperial Reservoir on the right bank of the Pecos River for irrigation in the vicinity of Imperial.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	-	-	-	-	310	0	0	-
1941	0	0	0	3490	1420	3900	5930	4740	1450	-	-	-	-
1942	-	-	0	4250	4760	2550	4690	2840	839	3160	39.0	0.50	-
1943	0	870	2410	5460	2170	2460	4200	4440	1810	1.60	0	0	23822
1944	0	0	73.0	5280	4150	909	5030	4650	853	893	0	0	21838
1945	0	783	39.0	4610	4690	1800	3440	5240	2630	.60	0	0	23233
1946	0	0	122	2770	2080	287	2270	593	0	0	0	3.00	8125
1947	48.0	117	0	3500	1960	1430	3770	110	0	0	0	0	10935
1948	0	0	0	1620	1130	2060	3350	374	71.0	0	178	0	8783
1949	0	0	19.0	1250	0	1.80	3420	0	595	0	0	0	5286
1950	0	0	0	3760	2770	0	4920	4790	451	0	0	0	16691
1951	0	0	315	2470	3940	47.0	4110	210	5.40	0	0	0	11097
1952	0	51.0	91.0	902	1030	0	1020	1050	234	0	0	0	4378
1953	0	0	0	0	0	0	0	0	0	71.0	187	0	258
1954	0	0	0	0	69.0	541	793	728	675	49.0	0	245	3100
1955	0	0	52.0	2330	1290	1690	2900	3500	2720	144	593	0	15219
1956	0	1150	28.0	1230	54.0	1780	1470	1930	790	0	0	0	8432
1957	0	0	0	0	0	0	129	131	662	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	0	0	0	0	0	0	0	0	0	0	-
1965	0	0	0	0	0	2.60	6.00	223	0	0	0	0	232
1966	0	0	0	2.20	0	2.30	4.10	0	66.0	.90	259	0	334
1967	218	189	475	1670	1410	1110	1790	1310	0	0	8.70	0	8181
1968	0	0	0	1010	336	980	247	1560	381	211	0	0	4725
1969	0	655	7.00	73.0	0	271	654	282	54.0	64.0	1.10	0	2061
1970	0	0	0	202	279	493	387	610	147	0	105	0	2223
1971	0	258	0	260	0	209	33.0	433	0	74.0	29.0	0	1296
1972	0	0	0	212	14.0	219	225	491	218	137	0	0	1516
1973	0	0	5.70	574	84.0	725	363	201	785	207	83.0	278	3306
1974	0	0	0	205	182	173	553	8.50	173	251	0	0	1546
1975	0	225	0	138	0	260	365	.06	737	103	229	0	2057
MAX	218	1150	2410	5460	4760	3900	5930	5240	2720	3160	593	278	23822
MIN	0	0	0	0	0	0	0	0	0	0	0	0	232
MEAN	9.9	159	125	1630	1166	824	1933	1395	564	203	61.1	19.1	8089
NO.	27	27	29	29	29	29	29	29	29	28	28	28	25
DISTR OF MEAN	.11	2.01	1.61	20.11	14.41	10.21	23.91	17.21	7.01	2.51	.81	.21	1001

RIO GRANDE BASIN

08437700 Ward County Water Improvement District No. 2 Canal near Grandfalls, Texas

LOCATION: Lat 31°22'13", long 103°00'24", Ward County, 1,550 ft (477 m) upstream from the bridge on Farm Road 1776, 2.3 mi (3.7 km) downstream from the headgate, and 9.5 mi (15.3 km) west of Grandfalls.

PERIOD OF RECORD: October 1940 to September 1941, November 1941 to September 1957, March 1964 to December 1975.

GAGE: Water-stage recorder, Concrete weir since Feb. 17, 1947. Datum of gage is 2,460 ft (750 m) above mean sea level, datum of 1929. Prior to Jan. 10, 1941, at site 1.75 mi (2.82 km) downstream at different datum. Jan. 11, 1941 to Feb. 16, 1947, at site 50 ft (15 m) downstream at present datum.

AVERAGE DISCHARGE: 30 years, 16,302 ac-ft/yr (20.1 hm³/yr).

EXTREMES: Period of record (1940-57, 1964-75): Maximum discharge, 198 ft³/s (5.61 m³/s) Apr. 9, 10, 1947; no flow at times each year.

REMARKS: Records good. Water is diverted from the left bank of the Pecos River for irrigation in the vicinity of Grandfalls.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	-	-	-	-	-	-	-	-	-	1070	0	0	-
1941	0	0	0	7440	3170	6170	9050	7910	2660	-	0	0	-
1942	0	185	6410	8600	5950	5140	8510	5840	2560	3270	3360	797	50622
1943	440	1340	3860	9060	4360	3870	7500	9160	1660	268	99	0	39765
1944	U	0	2110	8420	5330	2010	7600	7730	1250	928	93	790	35395
1945	0	0	3580	5640	5610	6570	6680	7600	2830	0	0	0	38510
1946	0	0	0	6720	3250	1550	3540	659	1200	380	1200	1430	19929
1947	716	430	829	8710	2420	2040	4730	860	378	441	580	0	21245
1948	0	0	341	4460	1350	5920	1830	633	154	0	0	0	14688
1949	0	0	1160	2880	492	288	2870	2320	848	503	400	0	11761
1950	0	0	1180	6600	1810	2370	6260	6700	1230	1780	1120	0	29050
1951	0	1980	965	5650	3870	412	6560	3300	260	0	0	0	22763
1952	0	399	671	2230	1150	328	2040	2640	313	227	200	300	10021
1953	1540	1140	284	3640	5740	4420	8840	0	0	3140	0	0	526
1954	0	0	240	255	0	442	129	0	540	241	920	0	1453
1955	0	0	8540	5050	1690	2120	6030	6370	3670	867	0	0	25882
1956	0	0	0	1550	1510	2450	2020	3020	787	372	401	521	12631
1957	431	2820	286	342	301	300	288	665	402	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	0	0	1020	241	0	0	530	0	0	0	-
1965	0	0	0	0	0	940	80	440	0	0	0	0	139
1966	0	0	0	840	670	496	594	1530	731	1350	3260	858	8834
1967	1920	608	3170	4300	2450	2050	2850	2880	3270	967	524	877	25866
1968	520	250	235	3010	261	1240	1880	2930	2120	1240	1220	285	14966
1969	120	430	532	1080	356	1120	110	1450	1650	1810	0	0	8014
1970	0	573	333	374	1780	432	2590	2220	210	275	0	0	8598
1971	0	0	890	1350	373	1780	969	3180	2280	566	340	137	10758
1972	990	200	0	215	133	0	40	628	3500	689	263	152	5661
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	605	353	288	1600	1370	1510	938	707	7371
1975	399	259	300	0	501	359	0	0	1350	880	430	0	2907
MAX	1920	2820	6410	9060	5950	6570	9050	9160	3670	3270	3360	1430	50622
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	147	247	910	3241	1717	1720	2927	2824	1254	671	445	199	16302
NO-	28	28	29	29	29	29	29	29	29	28	29	29	26
DISTR OF MEAN	.9%	1.5%	5.6%	19.9%	10.5%	10.6%	18.0%	17.3%	7.7%	4.1%	2.7%	1.2%	100%

RIO GRANDE BASIN

08437800 Pecos County Water Improvement District No. 2 (Lower Diversion) Canal near Grandfalls, Texas

LOCATION: Lat 31° 18' 18", long 102° 52' 40", Pecos County, at the bridge on State Highway 18, and 2.7 mi (4.3 km) southwest of Grandfalls, Ward County.

PERIOD OF RECORD: April 1922 to June 1925, September 1939 to December 1940.

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

AVERAGE DISCHARGE: 6 years, 13,932 ac-ft/yr (17.2 km³/yr).

EXTREMES: Period of record (1922-25, 1939-40): Maximum discharge, 264 ft³/s (7.2 m³/s) September 18, 1923 (gage height, 4.25 ft or 1.3 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
1922	-	-	-	2160	-	-	-	-	-	-	3040	-	-
1923	-	-	-	-	-	-	-	-	-	-	4310	2930	-
1924	5740	4460	273	681	594	709	304	205	-	-	338	380	-
1925	393	205	366	230	174	95.0	-	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	2400	1810	0	0	-
1940	0	0	50.0	4380	1630	749	2190	2190	0	14.0	0	0	11203
MAX	5740	4460	366	4380	1630	749	2190	2190	2400	1810	4310	2930	11203
MIN	0	0	50.0	230	174	95.0	304	205	0	14.0	0	0	11203
MEAN	2044	1555	230	1863	799	518	1247	1198	1200	912	1538	828	13932
NO. OF MEAN	3	3	3	4	3	3	2	2	2	2	5	4	1
DISTR	14.7%	11.2%	1.6%	13.4%	5.7%	3.7%	9.0%	8.6%	8.6%	6.5%	11.0%	5.9%	100%

RIO GRANDE BASIN
08438100 Pecos River near Grandfalls, Texas

LOCATION: Lat 31°19', long 102°53', Pecos-Ward County line, at the site of an old abandoned road crossing, 1.5 mi (2.4 m) upstream from the bridge on State Highway 82, and 3 mi (4.8 m) southwest of Grandfalls.

DRAINAGE AREA: 27,810 mi² (72,027.9 km²).

PERIOD OF RECORD: January 1916 to March 1926. (several scattered months of no record during this period).

GAGE: Water-stage recorder. Datum of gage is 2,410 ft (734.6 m) above mean sea level.

AVERAGE DISCHARGE: 11 years, 112,152 ac-ft/yr (138.3 hm³/yr).

EXTREMES: Period of record (1916-26): Maximum discharge, 13,000 ft³/s (368.2 m³/s) September 25, 1919 (gage height, 9.6 ft or 2.9 m); minimum, less than 0.5 ft³/s (0.014 m³/s) for several periods in 1925.

Maximum stage known, 13.0 ft (3.96 m) in April 1915.

REMARKS: Records fair. The flow is regulated to a large extent by four large reservoirs above Orta.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1916	6150	1960	1080	744	3490	525	1030	67000	40200	14400	6600	13100	156279
1917	19000	3790	2580	1690	1190	940	1250	861	1480	588	506	371	34246
1918	248	189	172	1030	202	481	402	799	1010	972	678	652	6835
1919	563	2970	61300	55600	50500	75600	54500	13600	118000	-	37000	-	-
1920	40200	-	7440	2130	1910	-	-	-	-	3510	10100	12700	-
1921	15100	4510	1170	892	-	-	-	-	-	-	-	-	-
1922	-	265	220	5710	2920	6550	892	1200	515	1360	4380	2300	-
1923	600	652	693	665	427	312	178	302	4460	41300	12600	22600	84989
1924	17800	5870	4160	274	154	207	349	212	689	843	253	146	30957
1925	93.0	216	70.8	101	122	108	216	28000	8140	-	-	3800	-
1926	2990	996	1830	-	-	-	-	-	-	-	-	-	-
MAX	40200	5870	61300	55600	50500	75600	54500	67000	118000	41300	37000	22600	156279
MIN	93.0	189	70.8	101	122	108	178	212	515	588	253	146	6835
MEAN	10274	2142	7338	6884	6768	10590	7352	13997	21612	8996	9040	6959	112152
NO.	10	10	11	10	9	8	8	8	8	7	8	8	5
DISTR													
OF MEAN	9.2%	1.9%	6.5%	6.1%	6.0%	9.4%	6.6%	12.5%	19.4%	8.0%	8.1%	6.2%	100%

RIO GRANDE BASIN

08441500 Pecos River below Grandfalls, Texas

LOCATION: Lat 31°18', long 102°46', Crane-Pecos County line, at the bridge on Farm Road 11 between Grandfalls and Imperial, 7.1 mi (11.4 km) southeast of Grandfalls, 10 mi (16.1 km) downstream from the bridge on State Highway 82.

DRAINAGE AREA: 27,820 mi² (72,053.8 km²).

PERIOD OF RECORD: January 1922 to December 1925, September 1939 to September 1956. Published as "near Buena Vista" 1922-25.

GAGE: Water-stage recorder. Datum of gage is 2,373.0 ft (723.3 m) above mean sea level, datum of 1929. Prior to December 1925, at site 12 mi (19.3 km) downstream at different datum.

AVERAGE DISCHARGE: 22 years (1922-25, 1939-56), 96,204 ac-ft/yr (118.6 hm³/yr).

EXTREMES: Period of record (1922-25, 1939-56): Maximum discharge, 22,000 ft³/s (623.0 m³/s) October 2, 1941 (gage height, 20.98 ft or 6.5 m); minimum, 3.4 ft³/s (0.096 m³/s) June 19, 1956.

REMARKS: Records good. The flow is largely regulated by four reservoirs above Orla. There are many large diversions below Orla for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1922	5630	3960	4540	7560	5900	6550	2790	2100	1740	1930	1930	2420	47050
1923	2280	2100	2320	2200	1750	1800	1110	1760	5060	31900	11700	18800	82780
1924	18600	6660	8180	5950	2980	1630	1620	1570	1420	1680	1800	1680	53770
1925	1660	1390	1480	1330	1460	1550	1000	21600	12800	7180	8590	6880	66920
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	2540	4070	4050	4900	-
1940	3560	4960	3990	1420	2800	2080	1930	3180	1420	4570	4730	4260	38900
1941	3820	3410	3470	2480	17950	235900	40910	15650	65490	482400	141100	56360	1068940
1942	50810	41030	12690	4660	31620	10610	4300	6450	34420	26290	46000	31300	300180
1943	29360	7240	4100	3190	4170	3190	3530	2950	4140	5360	4180	4720	76130
1944	4440	4220	4890	3490	2640	2170	2590	4930	4820	5340	4610	4870	49010
1945	4630	3730	3150	3450	2320	2400	10360	3710	2790	6400	4180	4310	51430
1946	4710	4660	4050	1840	1640	1280	1080	1150	1040	1300	1150	1920	25820
1947	1970	1720	2620	1680	2010	2570	1480	1130	855	904	738	1930	19607
1948	1510	1180	1210	1210	972	1040	1350	928	1070	1030	1570	1860	14930
1949	2250	1880	1790	1530	1570	1450	944	1380	1310	1750	1230	1720	18804
1950	1860	1520	2140	1160	1230	829	1190	1160	2400	4050	1560	2530	21629
1951	2410	1690	1500	1350	2160	1220	1430	877	1850	1060	960	1110	17617
1952	1520	1230	1570	1140	1900	1090	986	774	740	833	873	1160	13816
1953	1120	1100	1120	776	650	485	423	412	486	568	604	695	8439
1954	687	587	579	1170	560	3430	885	454	426	1290	631	795	11494
1955	1100	1290	1080	813	764	658	1530	1060	1750	2070	946	1170	14231
1956	2140	1970	1860	980	697	465	489	645	765	-	-	-	-
MAX	50810	41030	12690	7560	31620	235900	40910	21600	65490	482400	141100	56360	1068940
MIN	687	587	579	776	560	465	423	412	426	568	604	695	8439
MEAN	6956	4644	3254	2351	4178	13447	3901	3518	6788	28189	11578	7400	96204
NO.	21	21	21	21	21	21	21	21	22	21	21	21	20
DISTR OF MEAN	7.2%	4.8%	3.4%	2.4%	4.3%	14.0%	4.1%	3.7%	7.1%	29.3%	12.0%	7.7%	100%

RIO GRANDE BASIN

08444500 Comanche Springs at Fort Stockton, Texas

LOCATION: Lat 30°53', long 102°52', Pecos County, on the outlet canal of the Pecos County Water Improvement District No. 1 in the eastern outskirts of Fort Stockton, 0.2 mi (0.3 km) upstream from the bridge on U.S. Highway 290, and 0.5 mi (0.8 km) downstream from the head of the springs.

PERIOD OF RECORD: October 1935 to September 1964.

GAGE: Water-stage recorder and concrete control. Datum of gage is 2,922.82 ft (890.9 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 30 years, 19,969 ac-ft/yr (23.4 hm³/yr)

EXTREMES: Period of record (1935-64): Maximum discharge, 54.0 ft³/s (1.5 m³/s) January 30, 1942; no flow at times.

Maximum discharge measured prior to 1941, 66.0 ft³/s (1.87 m³/s) June 23, 1899.

REMARKS: No flow since March 19, 1961. The discharge records represent only the total flow of the springs. The surface runoff from rainfall and surface water released from a small flood-control reservoir located several hundred feet above the springs have been eliminated from the discharge record. Since 1950, the flow of the springs has been greatly reduced at times by withdrawals from the underground reservoir by irrigation wells.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1935	-	-	-	-	-	-	-	-	-	2710	2520	2710	-
1936	2710	2470	2640	2500	2580	2440	2400	2340	2380	2580	2680	2890	30610
1937	2950	2670	3010	2680	2520	2440	2460	2400	2380	2520	2500	2640	31170
1938	2710	2550	2770	2620	2640	2500	2640	2640	2560	2520	2440	2520	31110
1939	2580	2330	2580	2500	2580	2500	2520	2520	2440	2520	2440	2520	30030
1940	2640	2590	2770	2500	2580	2500	2520	2520	2440	2520	2440	2640	30660
1941	2580	2440	2710	2550	2620	2740	2790	2630	2570	2690	2740	2550	31610
1942	2930	2600	2780	2620	2650	2490	2540	2550	2470	2610	2610	2690	31540
1943	2680	2420	2710	2580	2640	2560	2700	2550	2440	2580	2520	2680	31060
1944	2760	2600	2640	2580	2540	2490	2510	2480	2480	2640	2600	2680	31200
1945	2740	2470	2810	2650	2630	2470	2580	2420	2340	2560	2620	2740	31030
1946	2720	2530	2800	2640	2710	2610	2610	2580	2550	2550	2510	2520	31420
1947	2590	2450	2720	2560	2630	2430	2460	2460	2340	2350	2290	2400	29680
1948	2400	2220	2340	2250	2260	2260	2190	2040	2030	2280	2260	2380	26910
1949	2400	2220	2460	2290	2280	2240	2240	2150	2080	2160	2140	2270	26930
1950	2330	2110	2280	2040	2050	1840	1840	1840	1790	2100	2020	2050	24290
1951	2230	1960	2060	1430	1240	1690	863	719	943	1390	1700	2030	18255
1952	2130	1920	1920	1340	1650	1510	1490	624	659	1440	1610	1750	18243
1953	1840	1670	1720	1020	1140	655	434	343	945	1290	1660	1920	14637
1954	2050	2020	1870	885	1240	2390	1250	1170	942	1240	1410	1870	18337
1955	2200	1860	1570	355	228	403	130	2.00	0	951	1600	1980	11279
1956	1710	1900	905	0	0	0	0	0	0	0	0	533	5068
1957	916	962	492	0	0	0	0	0	0	0	0	23.0	2193
1958	477	640	159	0	0	0	0	0	0	0	0	0	1276
1959	114	387	100	0	0	0	0	0	0	0	0	66.0	667
1960	552	676	332	0	0	0	0	0	0	0	0	0	1560
1961	256	633	201	0	0	0	0	0	0	0	0	0	1090
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	-	-	-	-
MAX	2950	2670	3010	2680	2710	2740	2790	2640	2570	2710	2740	2890	31610
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1869	1769	1778	1469	1497	1488	1420	1344	1344	1596	1635	1760	18969
NC.	29	29	29	29	29	29	29	29	29	29	29	29	28
DISTR OF MEAN	9.9%	9.3%	9.4%	7.7%	7.9%	7.8%	7.5%	7.1%	7.1%	8.4%	8.6%	9.3%	100%

RIO GRANDE BASIN

08446500 Pecos River near Girvin, Texas

LOCATION: Lat 31°06'47", long 102°25'02", Crane-Pecos County line, 2.1 mi (3.4 km) upstream from Comanche Creek, 3.8 mi (6.1 km) northwest of Girvin, and 7.2 mi (11.6 km) upstream from the bridge on U.S. Highway 67.

DRAINAGE AREA: 29,560 mi² (76,560 km²).

PERIOD OF RECORD: September 1939 to December 1975.

GAGE: Water-stage recorder and combination concrete control and measuring flume. Supplementary water-stage recorder used as the regular gage prior to July 17, 1951 and now used only for flows with peaks exceeding 400 ft³/s (11.3 m³/s), 7.2 mi (11.6 km) downstream at datum, 2,269.65 ft (691.789 m) above mean sea level, datum of 1929.

AVERAGE DISCHARGE: 37 years, 68,815 ac-ft/yr (84.8 hm³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 20,000 ft³/s (566 m³/s) Oct. 5, 1941 (gage height, 20.49 ft or 6.245 m, at supplementary gage); minimum, 2.2 ft³/s (0.062 m³/s) July 18, 1984.

Maximum stage since at least 1932, that of Oct. 5, 1941.

REMARKS: Records fair. The flow is largely regulated by Red Bluff Reservoir (station 08410000) and reservoirs above Carlsbad, New Mexico. There are numerous 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	-	-	-	-	-	-	-	-	3260	5200	5230	6190	-
1940	5230	5900	5180	2890	3900	3120	2650	4080	2190	5600	5880	5420	52040
1941	5060	4510	5180	4320	17960	211600	49970	23100	69530	523000	178900	73290	1166420
1942	57480	42700	19280	7510	33090	15940	6590	8900	36800	29670	45770	34200	337930
1943	33260	11860	6670	5260	7580	5130	5450	4480	5260	7380	5810	6210	104350
1944	6310	5900	6500	4860	4130	3210	3290	5560	6410	6380	5750	6220	64520
1945	5810	5030	4810	4920	3410	3420	11460	4170	3770	7360	5350	5370	64880
1946	6550	5410	5260	3600	2940	2490	2070	2640	2310	2440	2200	3250	41160
1947	3570	2840	3430	2520	4390	4410	2640	1540	1510	1390	1590	3030	32860
1948	2800	2040	2170	2210	1980	1710	2110	1680	1600	1800	2220	2930	25250
1949	3250	2740	2480	2780	2520	2730	1800	2070	2080	2510	2080	2340	29380
1950	2790	2500	2420	1900	4960	1540	1800	2170	2730	4960	2780	3610	34160
1951	3600	2770	2580	2360	2820	1700	1820	1520	2420	1720	1760	1940	27010
1952	2270	2090	2340	1690	1540	1470	1590	1190	1140	1280	1470	1900	19970
1953	1920	1800	1700	1080	859	680	612	644	692	1340	1090	1270	13687
1954	1330	1270	1380	1690	1270	3680	1390	755	412	5370	1360	1510	21417
1955	1730	1870	1840	1130	1130	1220	1940	1670	2010	2500	1470	1710	20220
1956	2690	2550	2390	1530	774	632	1160	839	922	1330	1410	1480	17707
1957	1370	3040	2660	8480	2880	1600	1100	910	1170	3410	3150	2000	31770
1958	2210	1820	2910	1210	966	633	1190	616	7640	3030	1960	1880	26065
1959	1920	1690	1610	1440	1490	1000	1600	635	611	1050	1380	1750	16176
1960	2000	1940	1680	1140	678	1170	2160	1320	1570	2870	1690	1970	20188
1961	2180	1990	3720	1880	847	2270	2260	1200	1380	2070	2410	2150	24357
1962	2080	1860	2040	1290	2470	1020	1130	825	998	2800	10940	2520	29973
1963	1920	1640	1450	929	655	1500	1090	556	618	681	1180	1470	13689
1964	1500	1380	3130	1010	569	463	238	340	1460	948	1020	1240	13298
1965	1270	1520	1280	819	814	3430	736	2350	1510	2500	1040	1090	18359
1966	1170	1080	1030	1130	912	1890	482	1350	1560	1070	1320	1180	14174
1967	1210	1160	1370	1070	714	862	1040	561	1100	1040	1200	1490	12817
1968	1490	1580	1970	1030	809	333	775	825	1230	1560	1570	1940	15112
1969	1830	1590	2180	5010	3340	998	612	254	920	2760	2210	2430	24134
1970	2250	2050	2840	2040	1020	517	379	614	1330	1780	1540	1660	18020
1971	1730	1530	1470	1600	1000	592	398	2240	1350	2740	1570	2950	19170
1972	1970	1760	1380	974	2070	1860	985	2150	2550	1130	1340	1340	19509
1973	1690	1600	1890	1760	1090	505	3440	1390	1490	841	772	1650	18118
1974	2290	1650	1200	1430	1110	459	342	1360	10810	25690	9710	4250	60301
1975	3740	3220	2880	2130	1730	555	998	2900	2570	2050	1800	1860	26433
MAX	57480	42700	19280	8480	33090	211600	49970	23100	69530	523000	178900	73290	1166420
MIN	1170	1080	1030	819	569	333	238	254	412	681	772	1090	12817
MEAN	5041	3830	3175	2462	3345	7954	3314	2483	5052	18142	8647	5370	68815
NO.	36	36	36	36	36	36	36	36	37	37	37	37	36
OTSTR													
OF MEAN	7.3%	5.6%	4.6%	3.6%	4.9%	11.6%	4.8%	3.6%	7.3%	26.4%	12.6%	7.8%	100%

RIO GRANDE BASIN

08447000 Pecos River near Sheffield, Texas

LOCATION: Lat 30°39'34", long 101°46'11", Crockett Pecos County line, at the bridge on U.S. Highway 290, 3.5 mi (5.6 km) southeast of Sheffield, and 4 mi (6.4 km) upstream from Liveoak Creek.

DRAINAGE AREA: 31,660 mi² (81,999.4 km²).

PERIOD OF RECORD: October 1921 to April 1925, October 1939 to September 1949.

GAGE: Water-stage recorder. Datum of gage is 2,026.3 ft (617.6 m) above mean sea level, datum of 1929, October 10, 1921 to April 30, 1925, chain gage at a site 0.75 mi (1.2 km) upstream at datum 2.9 ft (0.88 m) higher.

AVERAGE DISCHARGE: 16 years (1921-25, 1939-49), 171,605 ac-ft/yr (211.6 hm³/yr)

EXTREMES: Period of record (1921-25, 1939-49): Maximum discharge, 13,800 ft³/s (390.8 m³/s) October 8, 1941 (gage height, 16.75 ft or 5.1 m); minimum, 15 ft³/s (0.4 m³/s) August 15, 1923.

Maximum stage known, 23.5 ft (7.2 m) in September 1916, site and datum in use prior to May 1, 1925, from information by local residents.

REMARKS: Records fair. The flow is regulated to a large extent by four reservoirs above Orla. There are many diversions below Orla for irrigation.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1921	-	-	-	-	-	-	-	-	-	7820	9760	10500	-
1922	8480	5360	11300	10100	8730	10400	4920	2600	2700	3680	3700	4000	75970
1923	3950	3520	3600	6230	3470	2810	1800	3790	6970	33900	15500	19100	104640
1924	23700	7800	10700	7790	6040	2760	2450	1940	2530	2770	3140	3380	75000
1925	3380	2780	2950	2380	-	-	-	-	-	-	-	-	-
1926	-	-	-	-	-	-	-	-	-	-	-	-	-
1927	-	-	-	-	-	-	-	-	-	-	-	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	-	-	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	-
1931	-	-	-	-	-	-	-	-	-	-	-	-	-
1932	-	-	-	-	-	-	-	-	-	-	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	-	-	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	-	-	-	-	-	-	-	-	-	-
1939	-	-	-	-	-	-	-	-	-	5600	5890	6870	-
1940	6270	6650	5990	4130	5800	7370	3330	6390	2870	5770	6490	6480	67540
1941	6600	5580	7100	10060	18510	181200	54300	27520	66030	466100	183600	78800	1105400
1942	63460	49830	24810	12920	32540	20710	9320	18140	35290	32590	45240	36310	361160
1943	34450	14500	9980	7820	9140	6560	6790	5520	5950	8180	6920	7320	123130
1944	7720	6940	7420	5860	6450	5020	4490	6580	7040	6990	6530	7330	78370
1945	7150	6490	5640	5620	3920	3950	12880	4930	3540	8120	6650	6680	75570
1946	7920	6500	7290	4520	3520	2710	2550	2300	3050	5100	3430	4400	53290
1947	4870	3860	4570	3550	8430	6420	2920	2700	2110	2450	3080	3950	48910
1948	4470	4580	3380	3360	5930	4730	4200	2710	3080	2200	2580	3640	44660
1949	3880	3960	3260	10690	11790	4390	8190	3730	4210	-	-	-	-
MAX	63460	49830	24810	12920	32540	181200	54300	27520	66030	466100	183600	78800	1105400
MIN	3380	2780	2950	2380	3470	2710	1800	1940	2110	2200	2580	3380	44660
MEAN	13307	9168	7714	6788	9559	19925	9088	6835	11182	42234	21608	14197	171605
NO.	14	14	14	14	13	13	13	13	13	14	14	14	12
DISTR OF MEAN	7.8%	5.3%	4.5%	4.0%	5.6%	11.6%	5.3%	4.0%	6.5%	24.6%	12.6%	8.3%	100%

RIO GRANDE BASIN

08447020 Independence Creek near Sheffield, Texas

LOCATION: Lat 30°27'07", long 101°43'58", Terrell County, 0.5 mi (0.8 km) downstream from the Joe Chandler Ranch Headquarters, 1.0 mi (1.6 km) upstream from the mouth, 6 mi (10 km) downstream from the bridge on Farm Road 1217, and 17 mi (27 km) southeast of Sheffield.

DRAINAGE AREA: 763 mi² (1,976 km²).

PERIOD OF RECORD: February 1974 to December 1975.

GAGE: Water-stage recorder. Datum of gage is 1,883 ft (574 m) above mean sea level, datum of 1929.

EXTREMES: Period of record (1974-75): Maximum discharge, 78,100 ft³/s (2,210 m³/s) Sept. 20, 1974 (gage height, 16.74 ft or 5.102 m); minimum, 13 ft³/s (0.37 m³/s) July 28, 1974.

Maximum stage since at least 1900, about 22 ft (6.7 m) June 28, 1954, 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
1974	-	1330	1410	1260	1450	960	899	1450	77290	7370	3000	3050	-
1975	2410	2080	2290	2070	2040	1780	1870	1820	1980	2110	2560	1810	24820
MAX	2410	2080	2290	2070	2040	1780	1870	1820	77290	7370	3000	3050	24820
MIN	2410	1330	1410	1260	1450	960	899	1450	1980	2110	2560	1810	24820
MEAN	2410	1705	1850	1665	1745	1370	1385	1635	39635	4740	2780	2430	63350
NO.	1	2	2	2	2	2	2	2	2	2	2	2	1
DISTR													
OF MEAN	3.8%	2.7%	2.9%	2.6%	2.8%	2.2%	2.2%	2.6%	62.6%	7.5%	4.4%	3.8%	100%

RIO GRANDE BASIN

08447400 Pecos River near Shumla, Texas

LOCATION: Lat 29°49'20", long 101°24'35"; Val Verde County, 9.0 mi (14.5 km) east of Langtry, 13.0 mi (20.9 km) upstream of the bridge on U.S. Highway 90, and 18.5 mi (29.8 km) upstream of its confluence with the Rio Grande.

DRAINAGE AREA: 35,162 mi² (91,069.8 km²).

PERIOD OF RECORD: November 1954 to June 1967.

GAGE: Water-stage recorder and light cableway. Datum of gage is 1,159.46 ft (353.40 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 14 years, 208,633 ac-ft/yr (254.8 hm³/yr).

EXTREMES: Period of record (1954-67): Maximum discharge, 51,800 ft³/s (1,467.0 m³/s) September 24, 1964, gage height, 25.78 ft (7.86 m); minimum discharge, 60.9 ft³/s (1.7 m³/s) August 31, 1962, gage height, 0.86 ft (0.26 m).

Maximum known discharge occurred in June 1954, 948,000 ft³/s (26,847.4 m³/s), gage height, 121.7 ft (37.09 m).

REMARKS: Records good. The flow is modified by upstream reservoirs, diversions, and drainage returns. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	-	-	-	-	-	-	12200	12200	-
1955	12400	10300	11500	9570	15000	19700	29800	26500	29500	18400	12200	12300	207170
1956	12400	11600	10000	8040	9780	5820	5520	5220	6410	21800	9100	9100	114790
1957	8890	9880	10100	39900	173000	41300	16900	13000	16000	26500	21600	13600	390670
1958	13400	12200	12900	10600	37300	13700	15600	10300	79000	32800	16800	14800	269400
1959	13200	11200	11500	10400	14000	15600	38900	15900	25800	101000	19200	16300	293000
1960	16400	14600	14300	11800	9450	7810	19100	12200	8290	12300	10800	11200	148250
1961	12200	10300	9780	9510	7960	44600	16500	16400	10700	11100	11100	10400	170550
1962	9840	8920	9100	7720	7000	7080	7960	5340	14030	30480	15450	11560	134480
1963	10350	8620	8170	11300	17860	12250	6980	6000	6240	5610	6220	7420	107020
1964	8340	7200	7430	21970	5350	19710	5310	5040	178200	30650	15440	13960	318600
1965	12100	10370	10240	11060	23430	39760	10300	10080	9840	13240	9090	8860	168370
1966	8880	8060	7660	27470	14290	11440	8590	21100	36320	20650	13440	12850	190750
1967	12250	10370	10560	11510	7940	6710	-	-	-	-	-	-	-
MAX	16400	14600	14300	39900	173000	44600	38900	26500	178200	101000	21600	16300	390670
MIN	8340	7200	7430	7720	5350	5820	5310	5040	6240	5610	6220	7420	107020
MEAN	11588	10278	10249	14681	26335	18883	15122	12257	35028	27044	13280	11888	206633
NO. OF MEAN	13	13	13	13	13	13	12	12	12	12	13	13	12
DISTR	5.6%	5.0%	5.0%	7.1%	12.7%	9.1%	7.3%	5.9%	17.0%	13.1%	6.4%	5.8%	100%

RIO GRANDE BASIN

08447410 Pecos River near Langtry, Texas

LOCATION: Lat 29°48'10", long 101°26'45", Val Verde County, 7.5 mi (12.1 km) east of Langtry, 9.5 mi (15.3 km) upstream from the Pecos High Bridge, and 15.0 mi (24.1 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 35,179 mi² (91,113.6 km²).

PERIOD OF RECORD: July 1967 to December 1975.

GAGE: Water-stage recorders (graphic and digital) and concrete control weir. Datum of gage is 1,133.08 ft (345.4 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 9 years, 270,664 ac-ft/yr (333.7 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 677,000 ft³/s (16,340.6 m³/s) September 20, 1974, gage height, 75.30 ft (22.95 m); minimum discharge, 58.3 ft³/s (1.65 m³/s) July 27, 1974, gage height, 1.73 ft (0.53 m).

Maximum known discharge occurred in June 1954, 948,000 ft³/s (26,847.4 m³/s), gage height, 121.7 ft (37.08 m).

REMARKS: Records good. The flow is partly regulated by reservoirs, diversions, and drainage returns above station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	10110	10290	14130	7670	7670	8280	-
1968	8750	7840	8510	9600	15930	8340	27880	14050	7670	7120	6590	7840	130120
1969	7730	7180	7510	26410	28770	10670	7190	6280	9170	8970	11260	11280	142420
1970	10670	9420	10120	8160	7210	5730	4730	4180	10050	9460	7310	7660	94700
1971	7560	7010	6930	14900	7660	8340	26120	162000	53370	26920	16170	14320	351300
1972	13670	11800	12420	9160	15290	11380	9500	12880	15620	12310	10920	10810	145760
1973	11260	10300	10660	9810	8040	7900	9560	7850	8150	13240	8670	8680	114120
1974	9360	8270	9400	13890	10500	5460	4290	10680	804500	113900	59730	37860	1087840
1975	29240	25410	22120	19520	18230	14680	25210	18050	16010	15250	20480	16270	240470
MAX	29240	25410	22120	26410	28770	14680	27880	162000	804500	113900	59730	37860	1087840
MIN	7560	7010	6930	8160	7210	5460	4290	4180	7670	7120	6590	7660	94700
MEAN	12280	10904	10959	13931	13954	9063	13843	27362	104297	23871	16533	13667	270664
NO.	8	8	8	8	8	8	9	9	9	9	9	9	8
DISTR OF MEAN	4.5%	4.0%	4.0%	5.1%	5.2%	3.3%	5.1%	10.1%	38.5%	8.8%	6.1%	5.0%	100%

RIO GRANDE BASIN

08447420 Dead Mans Canyon near Comstock, Texas

LOCATION: Lat 29°47'05", long 101°10'26", Val Verde County, 2.3 mi (3.7 km) upstream from its confluence with the Pecos River which is 9.5 mi (15.3 km) upstream from its confluence with the Rio Grande.

DRAINAGE AREA: 89 mi² (227.9 km²).

PERIOD OF RECORD: March 1968 to December 1975.

GAGE: Water-stage recorder, cableway, and concrete weir. Datum of gage is 1,178.00 ft (359.05 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 8 years, 6,308 ac-ft/yr (7.8 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 37,800 ft³/s (1,070.5 m³/s) September 17, 1974, gage height, 12.78 ft (3.9 m); no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	0	0	0	0	1570	0	0	108	0	0	-
1969	0	0	0	315	0	0	0	0	1.20	4.80	0	0	321
1970	0	0	0	0	38.3	0	0	0	6.70	0	0	0	45.0
1971	0	0	0	0	0	2860	775	12860	72.8	0	0	0	16568
1972	0	0	0	0	113	0	0	0	34.3	0	0	0	147
1973	0	0	0	0	0	0	0	0	0	276	0	0	276
1974	0	0	0	0	0	0	0	0	29160	1360	0	0	30520
1975	0	0	0	0	0	0	902	0	0	0	0	0	902
MAX	0	0	0	315	113	2860	1570	12860	29160	1360	0	0	30520
MIN	0	0	0	0	0	0	0	0	0	0	0	0	45.0
MEAN	0	0	0	39.4	18.9	358	406	1608	3659	219	0	0	6308
NO.	7	7	8	8	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	.0%	.0%	.0%	.6%	.3%	5.7%	6.4%	25.5%	58.0%	3.5%	.0%	.0%	100%

RIO GRANDE BASIN

08447500 Pecos River near Comstock, Texas

LOCATION: Lat 29°45'30", long 101°21'22", Val Verde County, at Pecos High Railroad bridge, 12.0 mi (19.3 km) northwest of Comstock, and 5.5 mi (8.8 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 35,293 mi² (91,408.9 km²).

PERIOD OF RECORD: May 1900 to September 1954.

GAGE: Water-stage recorder and cableway. Datum of gage is 1,058.01 ft (322.48 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 55 years, 403,518 ac-ft/yr (487.5 hm³/yr).

EXTREMES: Period of record (1900-54): Maximum discharge, 948,000 ft³/s (26,847.4 m³/s) June 28, 1954, gage height, 86.24 ft (29.33 m); minimum discharge, 71.3 ft³/s (2.0 m³/s) July 2, 1953, gage height, -0.28 ft (-0.08 m).

REMARKS: Records good. Reservoirs, diversions, and drainage returns modify the flow at this station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	-	-	50100	50100	34100	30600	57800	92900	49300	30100	-
1901	31200	31300	27200	18200	21400	19100	20900	42300	77100	34500	85400	48600	457200
1902	41500	31000	25900	24500	39300	19000	59400	66000	40300	26400	25300	25500	419100
1903	32200	30300	29700	14500	22600	60100	34000	13400	18100	11900	13100	14500	294400
1904	12600	11500	10500	7840	20400	104000	29900	14900	105000	167000	91200	48900	623740
1905	37200	42900	83200	99300	103000	104000	65600	161000	55800	37900	39800	75000	904700
1906	51000	43300	34100	29600	41300	49300	52200	222000	38200	33100	31300	43600	669000
1907	35300	33100	30500	25820	25900	24700	19900	16900	14200	36500	86900	53400	403120
1908	47200	31800	24800	45400	22100	20100	64700	44200	52900	25200	22900	21300	422600
1909	26100	18400	18100	14600	18100	17700	24600	31200	23400	17300	18600	23400	251500
1910	19100	16900	15900	16100	16600	11300	10600	24100	73300	25800	17500	14200	261400
1911	14800	25800	17200	50800	36300	16300	13900	53300	14400	15300	14400	17800	290300
1912	18600	16200	16600	17100	11500	12100	10000	9000	8300	10200	12300	17400	159300
1913	18800	14400	14800	63100	92800	50500	41500	16300	45900	27800	37600	27800	451300
1914	26100	17400	15700	14900	94700	120000	59700	58100	41300	154000	80300	56000	738200
1915	48700	34800	37900	143000	156000	38600	25400	32200	47100	54000	30300	26600	674600
1916	27500	19500	18900	18300	17100	13400	15900	40000	40000	29800	27300	26400	359100
1917	28600	18700	15700	13300	14500	10800	10600	9470	9760	9590	10400	12200	163620
1918	12400	11100	11500	9940	11700	27100	7930	24800	9040	20900	15800	15900	178110
1919	15600	14000	29000	86900	71300	61300	75600	36500	352000	152000	69000	44700	1007900
1920	48100	44900	31600	22300	21700	29200	20500	34400	26100	22300	25500	28200	354800
1921	30200	23500	22800	18000	17600	146000	60300	40600	26200	18900	18900	20900	443900
1922	18700	14200	19600	70200	51400	118000	19600	15700	15300	14800	15300	15000	387800
1923	14600	13600	14900	21000	15500	11800	10800	12000	18600	35000	25100	28100	221000
1924	32200	19600	21500	18100	17800	16100	9596	8660	28600	20300	14000	14100	220750
1925	13700	10900	11100	11200	156000	32800	17100	46500	26300	29400	21100	22300	398400
1926	19700	17500	17900	17800	16500	58900	23600	15700	12700	37400	28400	29500	295600
1927	33800	27100	15500	18900	10800	16200	13000	9510	19200	14600	11200	13000	202810
1928	13000	12100	12200	9520	76200	21200	30400	50400	34200	23100	38000	36900	357220
1929	23700	15100	17700	14500	14500	13300	11600	9410	12700	21300	14000	17400	185210
1930	17500	12400	12400	12600	11600	17400	7620	7620	6190	92200	22300	20000	239830
1931	22100	20000	20400	25400	66400	26800	15950	16250	11540	12480	14280	15770	267370
1932	22970	23250	24040	14890	29040	33780	18540	20820	324420	192240	73260	54260	831510
1933	55880	39060	32870	23900	21830	17860	16730	17590	21180	24430	16950	19610	307890
1934	19900	16600	15900	17500	13300	30600	12800	9270	8890	9520	10300	12200	176780
1935	12900	11600	11400	14300	126000	135000	34700	19300	202000	29800	21100	23300	641400
1936	21400	16000	26600	17100	19400	15500	41800	12500	64700	25100	18100	18100	296300
1937	18100	15000	17300	15100	16600	57900	17100	15400	19500	26900	20700	23000	262600
1938	28600	25000	19000	14400	20700	15400	84200	27200	19000	21800	18300	18200	311800
1939	20200	14600	16000	14400	32900	14300	12900	24600	10400	16000	16400	17600	210600
1940	17200	16800	16100	13400	22200	35900	17300	21300	13300	16600	18600	17500	226200
1941	17400	15800	19000	42400	44700	197000	77200	43200	87400	486000	209000	91800	1330900
1942	78200	62300	40700	26100	45100	34500	20800	43800	56100	49800	58700	50300	566400
1943	48000	27900	22300	18900	24500	17100	19800	13400	14100	16500	15500	18700	256700
1944	20500	17400	18000	13800	14700	13400	12200	16000	31900	18800	16600	17900	211200
1945	17400	14800	16100	15300	11400	9340	45300	12700	12500	54500	17800	15200	242340
1946	17100	16500	18200	16300	19400	21200	11700	10100	14300	90200	16000	16100	267100
1947	17100	13100	14400	11700	30100	22000	11900	12600	16100	11500	11700	14000	186200
1948	13200	13000	12100	9520	12300	8840	42100	7860	10600	12800	11800	13300	167420
1949	13500	13400	12600	38100	29800	19200	52100	31500	20200	22400	16400	13400	282600

RIO GRANDE BASIN

08447500 Pecos River near Comstock, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	13300	11300	11600	12100	14500	12700	35300	12200	21600	14700	12100	14000	185400
1951	15200	14300	13600	10600	20100	9520	7120	8560	7680	7440	9130	9750	133000
1952	9680	9700	9140	9210	10500	8150	8680	5740	7220	6050	7300	9550	100920
1953	10000	9330	9870	7440	6260	4810	8750	16600	11900	13600	9000	9300	116880
1954	9210	7800	8710	73500	46400	1756000	48500	22200	15100	-	-	-	-
MAX	78200	62300	83200	143000	156000	1756000	84200	222000	352000	486000	209000	91800	1330900
MIN	9210	7800	8710	7440	6280	4810	7120	5740	6190	6050	7300	9300	100920
MEAN	24977	20701	20376	26346	36263	69585	28527	29772	44306	46127	30584	25954	403518
NO.	54	54	54	54	55	55	55	55	55	54	54	54	53
DISTR													
OF MEAN	6.2%	5.1%	5.0%	6.5%	9.0%	17.2%	7.1%	7.4%	11.0%	11.4%	7.6%	6.4%	100%

RIO GRANDE BASIN

08447700 Pecos River at Mouth near Comstock, Texas

LOCATION: Lat 29°42'20", long 101°21'35", Val Verde County, 1.0 mi (1.6 km) above its confluence with the Rio Grande, 0.4 mi (0.6 km) downstream from the bridge on U.S. Highway 90, and 12.0 mi (19.3 km) west of Comstock.

DRAINAGE AREA: 35,308 mi² (91,447.7 km²).

PERIOD OF RECORD: March 1961 to June 1968 (months missing).

GAGE: Water-stage recorder and cableway. Datum of gage is 1,031.58 ft (314.42 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 8 years, 112,765 ac-ft/yr (139.0 hm³/yr).

EXTREMES: Period of record (1961-68): Maximum discharge, 6,140 ft³/s (173.9 m³/s) May 10, 1968, gage height, 8.96 ft (2.73 m); minimum discharge, 70.0 ft³/s (1.98 m³/s) August 29, 1964, gage height, 1.26 ft (0.38 m).

Maximum known discharge, 948,000 ft³/s (26,847.4 m³/s), occurred in June 1954, gage height, 82.3 ft (25.08 m).

REMARKS: Records fair. The records are affected by backwater from the Rio Grande when the Langtry gage (station 08377500) exceeded 2.5 ft (0.76 m). The station was discontinued on July 2, 1968 when it was inundated by water from Amistad Reservoir. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	10100	-	-	-	-	-	-	11300	11600	11100	-
1962	10560	9130	9640	8620	6730	7400	7880	5790	-	-	16080	12470	-
1963	10230	8750	8150	11110	18260	-	7380	-	-	6240	6860	8450	-
1964	10160	7870	8210	-	-	-	-	5930	-	29800	15760	13980	-
1965	12680	11090	11420	12010	-	-	-	-	-	15250	9950	9630	-
1966	9320	8560	8410	-	15000	-	-	-	-	-	13490	12900	-
1967	12050	10670	11350	12230	8680	7230	-	10680	-	8190	8120	8500	-
1968	9260	8390	8890	9750	16050	8700	-	-	-	-	-	-	-
MAX	12680	11090	11420	12230	18260	8700	7880	10680	-	29800	16080	13980	-
MIN	9260	7870	8150	8620	6730	7230	7380	5790	-	6240	6860	8450	-
MEAN	10609	9209	9521	10744	12944	7777	7630	7467	-	14156	11694	11004	112755
NO.	7	7	8	5	5	3	2	3	0	5	7	7	0
DISTR													
OF MEAN	9.9%	8.2%	8.4%	9.5%	11.5%	6.9%	6.8%	6.6%	.0%	12.6%	10.4%	9.8%	100%

RIO GRANDE BASIN

08448500 Goodenough Spring near Comstock, Texas

LOCATION: Lat 29°32'10", Long 101°15'10", Val Verde County, 0.8 mi (1.3 km) above its confluence with the Rio Grande, and 12.0 mi (19.3 km) southwest of Comstock.

PERIOD OF RECORD: January 1924 to June 1968.

GAGE: Water-stage recorder and gravity well. Datum of gage is 967.42 ft (294.87 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 45 years, 97,527 ac-ft/yr (120 2 hm³/yr).

EXTREMES: Period of record (1924-68): Maximum discharge, 3,580 ft³/s (101.4 m³/s) September 23, 1964, gage height, 13.10 ft (3.99 m); minimum discharge, 65.8 ft³/s (1.9 m³/s) February 27, 1957.

REMARKS: Records good. The station was discontinued on July 11, 1968 when it was inundated by water from Amistad Reservoir. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1924	8150	7270	7590	6980	7550	7830	8030	7780	11140	9520	8680	8480	99000
1925	9880	8810	9210	8460	9160	9490	9730	9420	13500	11540	10500	10300	120000
1926	8060	7190	7520	6910	7480	7750	7950	7690	11030	9430	8590	8400	98000
1927	7980	7120	7440	6840	7400	7670	7870	7620	10910	9330	8510	8310	97000
1928	8480	7560	7900	7260	7860	8150	8350	8080	11590	9910	9030	8830	103000
1929	8980	8230	8550	7560	7810	8030	8480	8420	8090	8360	7500	7130	97140
1930	6580	5890	6210	5850	6950	8270	8360	7440	6550	7560	7970	8790	86420
1931	8920	8890	9410	8270	9040	9220	10570	10000	9760	9630	9020	8630	111360
1932	8180	7570	7570	6680	8830	8130	8290	7580	25000	25870	21850	20470	156020
1933	19620	17030	17770	16580	16840	16040	16460	15840	14580	14810	13840	13430	192840
1934	12500	10400	10700	10000	10100	9600	9750	10700	10100	9960	9330	9120	122260
1935	8890	7760	8460	8230	8750	11500	10700	10300	10200	9920	9050	9150	112910
1936	8800	8000	8370	8010	8250	8740	8760	8780	8880	9120	8970	8780	103460
1937	8120	7350	8010	7610	7730	7730	7230	6960	7320	6950	6600	6730	88340
1938	6680	6170	6520	6870	6950	7020	9350	9350	9290	8380	7480	7220	91280
1939	7080	6060	6950	6240	8210	7310	7170	7350	7090	7240	7010	7290	85000
1940	6816	6130	6450	7790	8040	7570	7740	7630	6870	6840	6790	6660	85320
1941	6380	5780	6540	6780	7960	7560	8390	8390	11600	11200	10100	10300	101320
1942	9790	8230	8640	8000	7970	7320	7260	6890	7720	7660	7120	6830	93430
1943	6520	5350	5900	6330	7330	7880	7650	7380	7110	7150	6540	6380	81520
1944	6130	5780	6030	5560	7430	6500	5930	5450	6810	8370	7410	7090	78490
1945	6230	5720	6380	6270	5850	5330	8230	7550	7140	7890	7890	7870	82350
1946	6780	5570	6520	6120	8500	10800	16000	13000	11900	14600	12500	12600	124890
1947	12760	11100	11900	11100	11300	10700	10700	10400	10000	10000	9190	8770	127860
1948	8320	7460	7680	7470	7220	7030	7890	7740	7070	8150	7830	7380	91240
1949	6890	6290	9250	9350	10400	9140	8690	8420	8350	8380	7720	7570	100450
1950	7180	6350	6630	6140	6410	6150	6520	6520	6210	6460	5730	6010	76310
1951	5760	5220	5630	5460	5780	6910	6750	6050	5360	5570	5150	4780	68420
1952	4520	4580	5030	4980	5160	5030	5540	5500	5120	5150	4750	4960	60320
1953	4780	4320	5620	5430	4870	4470	4500	5720	6460	6290	5450	5240	63150
1954	4950	4510	4740	6490	7060	7660	8460	7420	6530	7580	6870	6320	78590
1955	6000	5040	5590	5500	6280	6470	6040	6880	7590	7240	6160	6040	74630
1956	5370	5270	5310	5190	5120	4600	5070	4840	5770	4820	4540	4500	60400
1957	4450	3860	4340	6200	11200	9660	7230	6750	6330	6630	5830	5600	78080
1958	5320	4640	4990	4820	5120	5820	7420	6080	19600	21700	14800	13700	114010
1959	13900	11900	13100	12400	13400	12400	14100	12800	12200	17400	12800	11900	158300
1960	10500	9540	9890	9050	9110	8330	8990	9130	8800	10600	9960	9280	113180
1961	9150	8100	8610	7750	8120	10200	10300	9650	9680	9610	8600	8250	108020
1962	7840	6660	7160	6700	6540	6530	6770	6200	6880	7590	7850	7600	84320
1963	7010	6020	6480	6110	6320	6610	6320	6020	5890	5790	5620	5650	73840
1964	5320	4910	5100	5110	5910	5330	5490	6120	12640	15400	11740	9850	92920
1965	8560	7100	7360	6690	8570	8520	7460	7100	6620	6810	5830	5920	86540
1966	5830	4950	5300	5710	6910	6640	6420	7690	14400	10400	8300	7510	90660
1967	7010	5790	6490	6170	6400	5920	5840	5580	5480	7530	7500	7670	77380
1968	7450	6800	7250	8040	9410	8480	-	-	-	-	-	-	-
MAX	19620	17030	17770	16580	16840	16040	16460	15840	25000	25870	21850	20470	192840
MIN	4450	3860	4340	4820	4870	4470	4500	4840	5120	4820	4540	4500	60320
MEAN	7874	6984	7513	7268	7969	7956	8293	8000	9349	9553	8511	8257	97527
NO.	45	45	45	45	45	45	44	44	44	44	44	44	44
DISTR OF MEAN	8.11	7.21	7.71	7.51	8.21	8.21	8.51	8.21	9.61	9.81	8.71	8.51	1001

RIO GRANDE BASIN

08445000 Devils River near Juno, Texas

LOCATION: Lat 29°57'48", long 101°08'42", Val Verde County, 500 ft (152 m) downstream from the Water Baker Ranchhouse, 2 mi (3.2 km) upstream from Phillips Creek, and 13.5 mi (21.7 km) southwest of Juno.

DRAINAGE AREA: 2,730 mi² (7,070 km²).

PERIOD OF RECORD: June 1925 to September 1949, October 1963 to September 1973.

GAGE: Water-stage recorder. Datum of gage is 1,489.7 ft (454.1 m) above mean sea level, datum of 1920

AVERAGE DISCHARGE: 36 years, (1925-49, 1963-73), 134,494 ac-ft/yr (165.8 hm³/yr).

EXTREMES: Period of record (1925-49, 1963-73): Maximum discharge, 370,000 ft³/s (10,500 m³/s) Sept. 1, 1932, gage height, 33.8 ft (10.3 m), from floodmarks; minimum, 9.5 ft³/s (0.269 m³/s) July 5, 1969 (the result of a temporary unknown obstruction upstream).

Maximum stage since at least 1882, 35.0 ft (10.7 m) June 28, 1954, from floodmark, discharge, 393,000 ft³/s (11,100 m³/s), 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
1925	-	-	-	-	-	11300	7670	7080	6320	6530	5920	5660	-
1926	5510	4640	5050	4720	5220	4880	5110	4670	4540	6180	5070	6180	61610
1927	5450	4890	5580	8120	5230	4770	4420	4140	29800	21000	5870	5340	104610
1928	5010	4350	4470	4550	12900	33200	7440	6330	6430	6400	5770	5800	102650
1929	5790	4790	5280	4900	4550	7910	23100	6460	4960	4700	4530	4610	81580
1930	4170	3480	3890	3890	3470	4310	4110	3410	3280	178000	7800	7190	227000
1931	6640	6110	5990	13400	13800	10100	8240	7560	6660	7010	5950	5540	97000
1932	5460	4980	4940	4470	4660	4440	6820	4830	261000	21300	13900	12700	349500
1933	10900	9330	9780	8990	9160	8330	7990	7500	7020	7010	6430	6460	98900
1934	6400	5480	6000	5690	5560	13400	5600	5420	5330	4900	4660	4620	73060
1935	4340	3790	4170	8600	68960	122800	11840	7790	157400	10460	9020	8990	418160
1936	8670	7540	7550	6890	7410	7520	35100	7620	146500	9670	8450	7800	260720
1937	7280	6420	6670	6070	5720	9530	5860	5120	4750	4880	4760	4970	72030
1938	6680	5380	5480	4970	4990	4690	286600	8380	7260	6790	6100	6200	353520
1939	5780	4850	5190	5020	9360	6780	8240	5920	5510	5750	5450	5470	73320
1940	5160	4540	4630	5300	7310	5520	5440	5500	4800	4960	4640	4410	62210
1941	4150	3740	3990	4080	5930	5360	5310	5090	5190	6960	5660	5860	61320
1942	6010	5260	5580	5190	4920	4530	4710	5610	7850	36900	8230	8470	103260
1943	8010	6620	6970	6260	12720	7270	6530	5780	5780	5560	5390	5540	82430
1944	5480	4710	4810	4580	4500	4010	3920	4010	23810	5240	4570	4200	73840
1945	4720	4100	4390	4190	3850	3590	5190	4060	3650	46920	4820	4710	94190
1946	4620	3760	3940	3640	3850	33300	5160	4430	5320	13920	4970	5130	92040
1947	5380	4500	4790	4370	6520	4140	3860	3730	3430	3490	3300	3450	50960
1948	3320	3060	3050	2770	3540	11400	212400	5390	5330	5690	4670	4450	265070
1949	4690	6420	5490	23300	45600	8110	18100	15110	7950	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	2630	2380	2430	-
1964	2510	2300	2210	1990	1710	1470	1330	1150	245700	10010	6700	5960	283060
1965	5670	4680	4650	3960	11850	10610	5660	4980	4450	4160	3870	3730	68270
1966	3400	2850	2820	2440	21050	2440	2180	2320	2540	2970	2730	2620	50360
1967	2610	2310	2460	2040	1770	1450	2390	2680	2440	1920	2140	2440	26650
1968	2120	1780	1700	1580	2770	1540	2420	1860	1910	1860	1930	1700	23170
1969	1560	1340	1340	1540	1620	1390	1260	1090	1610	7180	4220	4630	28780
1970	3830	3190	3210	2690	2520	2300	2030	1700	1840	1710	1590	1510	28120
1971	1410	1250	1260	3520	1960	7760	18660	289500	10980	9090	7650	7420	360460
1972	6740	5460	5540	5120	5400	4950	4610	214200	9510	13340	8430	7150	290470
1973	6620	5440	5570	4980	5150	4190	3900	3560	3320	-	-	-	-
MAX	10900	9330	9780	23300	68960	122800	286600	289500	261000	178000	13900	12700	418160
MIN	1410	1250	1260	1540	1620	1390	1260	1090	1610	1710	1590	1510	23170
MEAN	5161	4511	4660	5406	9280	10837	21234	19257	28976	14267	5517	5388	134494
NO.	34	34	34	34	34	35	35	35	35	34	34	34	32
DISTR													
CF PT AN	3.8%	3.4%	3.5%	4.0%	6.9%	8.1%	15.8%	14.3%	21.5%	10.6%	4.1%	4.0%	100%

RIO GRANDE BASIN

08449100 Dolan Springs near Loma Alta, Texas

LOCATION: Lat 29°53'40", long 100°59'00", Val Verde County, and 12.0 mi (19.3 km) west of Loma Alta. The springs enter Snake Creek, which enters Dolan Creek 0.9 mi (1.4 km) above its confluence with the Devils River.

PERIOD OF RECORD: January 1966 to December 1975.

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

AVERAGE DISCHARGE: 10 years, 4,523 ac-ft/yr (5.6 hm³/yr)

EXTREMES: Period of record (1966-75): Maximum discharge, 23.0 ft³/s (0.65 m³/s) May 11, 1975; minimum discharge, 1.0 ft³/s (0.028 m³/s) May 16, 1971.

REMARKS: Records good. All of the storm flow passing this station is deducted. This station was established to correlate the flow of these springs with precipitation data and the flow of other springs in the area. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1966	163	141	151	151	415	372	369	354	387	439	433	407	3782
1967	300	187	140	116	109	99.4	119	117	177	169	112	107	1752
1968	94.0	89.5	95.4	87.9	221	126	107	93.8	85.5	87.9	85.3	83.9	1257
1969	85.1	74.8	74.0	74.2	102	87.9	80.9	99.4	117	289	591	685	2360
1970	577	381	267	168	126	110	103	95.0	91.4	93.4	84.5	84.7	2181
1971	77.2	66.8	70.4	65.5	66.2	275	264	936	1040	1130	1050	1010	6051
1972	887	665	548	406	374	311	236	626	774	932	859	743	7361
1973	561	410	371	294	274	258	261	202	184	219	241	224	3499
1974	229	179	216	216	227	209	216	340	508	903	1200	1180	5623
1975	1030	922	977	862	1100	1130	1070	1000	891	893	822	669	11366
MAX	1030	922	977	862	1100	1130	1070	1000	1040	1130	1200	1180	11366
MIN	77.2	66.8	70.4	65.5	66.2	87.9	80.9	93.8	85.5	87.9	84.5	83.9	1257
MEAN	400	312	291	244	301	298	283	386	425	516	548	519	4523
NO.	10	10	10	10	10	10	10	10	10	10	10	10	10
DISTR OF MEAN	8.9%	6.9%	6.4%	5.4%	6.7%	6.6%	6.2%	8.5%	9.4%	11.4%	12.1%	11.5%	100%

RIO GRANDE BASIN

08449300 Devils River at Upper Devils River near Comstock, Texas

LOCATION: Lat 29°44'55", long 101°00'30", Val Verde County, 26.4 mi (42.5 km) upstream from the bridge on U.S. Highway 90, and 30.9 mi (49.7 km) upstream from its confluence with the Rio Grande.

DRAINAGE AREA: 3,903 mi² (10,108.8 km²).

PERIOD OF RECORD: September 1954 to December 1957.

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

EXTREMES: Period of record (1954-57): Maximum discharge, 39,000 ft³/s (1,104.5 m³/s) September 24, 1955, gage height, 21.0 ft (6.4 m); minimum discharge, 44.2 ft³/s (1.2 m³/s) August 14, 1956, gage height, 1.39 ft (0.42 m).

Maximum stage known, 35.9 ft (10.9 m) in June 1954, discharge not determined.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	-	-	-	-	14400	14200	12200	11200	-
1955	10200	8130	7590	6280	8030	5030	17300	10700	105000	13600	9790	8610	210260
1956	8700	7130	6560	5440	4210	3940	3280	3130	3180	3340	3210	3220	55340
1957	-	3040	3580	18100	-	62300	19100	18300	17000	57500	18700	16600	-
MAX	10200	8130	7590	18100	8030	62300	19100	18300	105000	57500	18700	16600	210260
MIN	8700	3040	3580	5440	4210	3940	3280	3130	3180	3340	3210	3220	55340
MEAN	9450	6100	5910	9940	6120	23757	13227	10710	34895	22160	10975	9908	163152
NO.	2	3	3	3	2	3	3	3	4	4	4	4	2
DISTR													
OF MEAN	5.8%	3.7%	3.6%	6.1%	3.8%	14.6%	8.1%	6.6%	21.4%	13.6%	6.7%	6.1%	100%

RIO GRANDE BASIN

08449400 Devils River at Pafford Crossing near Comstock, Texas

LOCATION: Lat 29°40'35", long 101°00'00", Val Verde County, 11.5 mi (18.5 km) east of Comstock, and 25.5 mi (41.0 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 3,961 mi² (10,259.0 km²).

PERIOD OF RECORD: January 1960 to December 1975

GAGE: Water-stage recorders (graphic and digital), cableway, and concrete control wall. Datum of gage is 1,131.88 ft (345.00 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 16 years, 245,141 ac-ft/yr (302.2 hm³/yr).

EXTREMES: Period of record (1960-75): Maximum discharge, 250,000 ft³/s (7,080 m³/s) September 18, 1974, gage height, 19.82 ft (6.04 m), minimum discharge, 48.6 ft³/s (1.38 m³/s), August 20, 1969.

REMARKS: Records good. No diversion above station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1960	15100	13200	13700	12200	12000	10100	14300	17400	11500	17400	12600	11900	161400
1961	12300	11200	10200	8790	8340	44600	24000	16600	14400	14800	13200	11700	190130
1962	10810	8900	8740	7410	6920	12280	9800	7840	9420	18920	12140	10720	123900
1963	9550	7780	7660	6720	11000	10080	8320	7720	6980	7150	6150	6180	95290
1964	11710	8410	6000	6590	4880	4580	4120	3960	273000	31770	20490	18060	393570
1965	16070	13460	12620	10860	11900	54330	13700	12740	12050	11490	10250	10030	189500
1966	9310	7700	7820	38780	32720	10650	8680	13510	10600	11630	9940	10010	171350
1967	9520	7370	7490	5980	5360	4780	5170	6230	9530	9080	6900	6410	83820
1968	6180	5910	5950	5340	9880	6570	7640	5400	5380	5000	4530	4700	72480
1969	4650	4000	4190	4520	4920	4260	4030	4410	5000	50840	19490	18430	128740
1970	13590	10520	9980	7700	7110	6220	5430	5030	5250	5590	4900	4970	86290
1971	4850	4160	4220	5420	4520	39280	25510	408910	31480	28470	25000	23240	605060
1972	20740	16500	15780	13050	15740	13380	12320	284100	26110	24960	20930	19470	483080
1973	18180	15640	15700	13730	14150	12110	11580	10940	10620	14820	11920	11360	160770
1974	10990	9420	10450	8830	9870	8210	7850	41050	503500	40910	29690	26310	707060
1975	24120	23540	22550	20960	22460	20640	28860	25020	21890	20930	19700	19130	269800
MAX	24120	23540	22550	38780	32720	54330	28860	408910	503500	50840	29690	26310	707080
MIN	4650	4000	4190	4520	4520	4260	4030	3960	5000	5000	4530	4700	72480
MEAN	12354	10482	10191	11055	11361	16379	11957	54429	59794	19610	14239	13290	245141
NO.	16	16	16	16	16	16	16	16	16	16	16	16	16
Q1STR													
OF MEAN	5.0%	4.3%	4.2%	4.5%	4.6%	6.7%	4.9%	22.2%	24.4%	8.0%	5.8%	5.4%	100%

RIO GRANDE BASIN

08449440 Big Satan Creek near Comstock, Texas

LOCATION: Lat 29°39'50", long 100°57'50", Val Verde County, and 1.1 mi (1.8 km) upstream from its confluence with the Devils River.

DRAINAGE AREA: 42 mi² (108.8 km²).

PERIOD OF RECORD: May 1968 to December 1975.

GAGE: Water-stage recorder, cableway, and control weir. Datum of gage is 1,134.00 ft (345.64 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 8 years, 2,983 ac-ft/yr (3.7 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 56,100 ft³/s (1,588.8 m³/s) August 15, 1971, gage height, 12.31 ft (3.75 m); no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	-	-	-	-	0	0	0	0	0	0	0	0	-
1969	0	0	0	0	0	0	0	0	0	2350	0	0	2350
1970	0	0	0	0	1.60	0	0	0	0	0	0	0	1.60
1971	0	0	0	0	0	321	0	12200	0	0	0	0	12521
1972	0	0	0	0	0	0	0	8270	0	0	0	0	8270
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	663	57.3	0	0	720
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	1.60	321	0	12200	663	2350	0	0	12521
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	.20	40.1	0	2559	82.9	301	0	0	2983
NO.	7	7	7	7	8	8	8	8	8	8	8	8	7
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	1.3%	.0%	85.8%	2.8%	10.1%	.0%	.0%	100%

RIO GRANDE BASIN
08449470 Rough Canyon near Del Rio, Texas

LOCATION: Lat 29°34'40", long 100°56'00", Val Verde County, and 3.9 mi (6.3 km) upstream from its confluence with the Devils River.

DRAINAGE AREA: 24 mi² (62.2 km²).

PERIOD OF RECORD: January 1968 to December 1975.

GAGE: Water-stage recorder, cableway, and control weir. Datum of gage is 1,129.00 ft (344.12 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 8 years, 1,704 ac-ft/yr (2.1 hm³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 7,040 ft³/s (199.4 m³/s) August 12, 1972, gage height, 6.80 ft (2.1 m); no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	0	0	0	266	388	0	6.50	0	0	8.10	0	0	669
1969	0	0	0	0	0	0	10.7	6.70	86.3	1230	52.2	0	1386
1970	0	0	0	0	13.1	0	0	0	48.6	0	0	0	61.7
1971	0	0	0	0	0	2.20	0	8230	0	0	0	0	8232
1972	0	0	0	0	0	0	0	2020	0	0	0	0	2020
1973	0	0	0	0	0	0	0	0	0	9.1	0	0	9.1
1974	0	0	0	26.6	76.2	0	0	0	0	0	0	0	103
1975	0	0	0	0	0	0	1150	0	0	0	0	0	1150
MAX	0	0	0	266	388	2.20	1150	8230	86.3	1230	52.2	0	8232
MIN	0	0	0	0	0	0	0	0	0	0	0	0	9.1
MEAN	0	0	0	36.6	59.7	.27	146	1282	16.9	156	6.52	0	1704
NO. OF MEAN	8	8	8	8	8	8	8	8	8	8	8	8	8
DISTR OF MEAN	.0%	.0%	.0%	2.1%	3.5%	.0%	8.6%	75.2%	1.0%	9.1%	.4%	.0%	100%

RIO GRANDE BASIN

08449485 North Fork San Pedro Creek near Del Rio, Texas

LOCATION: Lat 29°31'20", long 100°53'00", Val Verde County, 3.0 mi (4.8 km) upstream from its confluence with the Middle Fork Branch which is 6.3 mi (10.1 km) upstream from its confluence with the Devils River.

DRAINAGE AREA: 17 mi² (44.0 km²).

PERIOD OF RECORD: January 1968 to December 1975.

GAGE: Water-stage recorder, cableway, and control weir. Datum of gage is 1,126.92 ft (343.48 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 8 years, 1,188 ac-ft/yr (1.5 km³/yr).

EXTREMES: Period of record (1968-75): Maximum discharge, 5,070 ft³/s (143.6 m³/s) August 12, 1972, gage height, 8.44 ft (2.57 m); no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1968	0	0	0	14.1	294	0	0	0	0	0	0	0	308
1969	0	86.7	0	0	0	0	0	271	0	3400	301	0	4059
1970	0	0	0	0	0	0	0	0	19.0	0	0	0	19.0
1971	0	0	0	0	0	211	0	1350	0	0	0	0	1561
1972	0	0	0	0	0	0	0	1090	0	0	0	0	1090
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	4.40	26.0	0	0	0	0	0	0	0	30.4
1975	0	0	0	0	0	0	2440	0	0	0	0	0	2440
MAX	0	86.7	0	14.1	294	211	2440	1350	19.0	3400	301	0	4059
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	10.8	0	2.31	40.0	26.4	305	339	2.37	425	37.6	0	1188
NO.	8	8	8	8	8	8	8	8	8	8	8	8	8
DISTR OF MEAN	.0%	.9%	.0%	.2%	3.4%	2.2%	25.7%	28.5%	.2%	35.8%	3.2%	.0%	100%

RIO GRANDE BASIN

08449490 Middle Fork San Pedro Creek near Del Rio, Texas

LOCATION: Lat 29°29'30", Long 100°52'50", Val Verde County, 3.2 mi (5.1 km) upstream from its confluence with the North Fork Branch which is 6.3 mi (10.1 km) upstream from its confluence with the Devils River.

DRAINAGE AREA: 12 mi² (31.1 km²).

PERIOD OF RECORD: December 1967 to December 1975.

GAGE: Water-stage recorder, cableway, and control weir. Datum of gage is 1,132.02 ft (345.04 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 9 years, 829 ac-ft/yr (1.0 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 10,200 ft³/s (288.9 m³/s) July 17, 1975, gage height, 5.84 ft (1.78 m); no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	-	-	0	-
1968	2.60	0	0	0	0	0	0	0	0	0	0	0	2.60
1969	0	0	0	15.5	0	0	0	306	19.6	1710	26.4	38.7	2116
1970	26.0	0	0	0	0	0	0	0	9.3	1.40	0	0	36.7
1971	0	0	0	0	0	9.7	0	543	1.90	0	0	0	555
1972	0	0	0	0	0	0	0	202	0	0	0	0	202
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	3730	0	0	0	0	0	3730
MAX	26.0	0	0	15.5	0	9.7	3730	543	19.6	1710	26.4	38.7	3730
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	3.57	0	0	1.94	0	1.21	466	131	3.85	214	3.30	4.30	829
NO. OF MEAN	8	8	8	8	8	8	8	8	8	8	8	9	8
DISTR OF MEAN	.4%	.0%	.0%	.2%	.0%	.1%	56.2%	15.8%	.5%	25.8%	.4%	.5%	100%

RIO GRANDE BASIN
08449500 Devils River near Del Rio, Texas

LOCATION: Lat 29°29'00", long 101°00'00". Val Verde County, at the bridge on U.S. Highway 90, 12.0 mi (19.3 km) northwest of Del Rio, and 4.5 mi (7.2 km) upstream of its confluence with the Rio Grande.

DRAINAGE AREA: 4,185 mi² (10,839.2 km²).

PERIOD OF RECORD: January 1889 to August 1957. Records from January 1889 through March 1914 were measured at a point 2.8 mi (4.5 km) downstream; December 1923 through August 1932 were measured at a point 1.8 mi (2.9 km) downstream.

GAGE: Water-stage recorder. Datum of gage is 951.80 ft (290.11 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 69 years, 449,715 ac-ft/yr (554.5 hm³/yr).

EXTREMES: Period of record (1889-1957): Maximum discharge, 597,000 ft³/s (16,907.0 m³/s) September 1, 1932, gage height, 36.60 ft (11.16 m); no flow at times.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1889	29300	35100	29100	28500	29400	123000	531000	40200	49100	37600	30400	29900	992600
1890	28300	25600	27000	33400	34000	37200	30700	36700	38300	37500	29700	32400	390800
1891	40600	25900	27300	27100	43800	32300	25500	27500	30000	26800	23900	31300	362000
1892	26500	22600	25900	23700	28200	25400	22400	44200	27100	42500	28600	30300	347400
1893	25400	22800	25300	24100	29400	25500	22200	20300	19500	19000	21500	24000	279000
1894	22100	19500	22800	26600	37200	25300	21200	55000	90000	34800	24300	25900	404700
1895	25200	25200	25700	24200	39400	33400	32900	33900	33400	32100	32000	30000	367400
1896	29800	25500	26000	24800	24200	25100	29900	25200	37500	223400	35200	31300	537900
1897	28600	25000	28800	30200	38100	38800	29500	36800	26600	26300	23300	25800	357800
1898	24100	21900	24800	24800	23300	69100	39100	39500	27100	26900	23200	28000	371800
1899	24200	21500	23900	33900	27200	50200	35300	35200	27700	39800	40500	44100	1173000
1900	47800	41000	34400	173600	81200	90200	59600	67700	27600	74800	64000	54000	1066300
1901	51100	44500	46000	40800	40900	35900	35800	34200	31500	32000	30700	30100	453500
1902	30000	26600	30400	27900	50100	29200	27200	25500	30400	26600	25900	25400	355200
1903	27800	24600	29300	25100	32200	76300	37400	32600	34800	37100	34200	33800	425200
1904	33100	29900	30900	31100	31900	34400	29500	28500	35500	35100	29500	28300	377700
1905	27400	24000	34100	65900	52400	56300	41700	34500	43800	36500	30600	35800	483000
1906	28000	23400	24300	23900	24800	45900	81700	169000	55100	48800	42400	42800	610100
1907	42600	36500	37900	32600	31800	31000	33700	32300	30800	37300	40600	34000	421100
1908	31300	29400	30700	34200	41600	36100	42900	39800	30200	29600	28300	29300	403400
1909	28300	23900	25800	25000	24100	23300	37900	32400	28400	24500	24000	25000	322600
1910	25300	22200	23700	34400	62400	26100	25600	24900	50200	32900	23600	23600	374900
1911	23400	25000	30200	43000	27300	23000	20400	20400	18200	20400	22000	26100	302200
1912	24200	22100	23000	23800	21100	20300	17300	18500	22300	22000	18900	20600	254100
1913	20400	17900	18000	16600	68200	23000	24300	24300	22500	33800	48500	51300	368800
1914	34100	30040	31300	34700	245400	194000	109800	185000	37400	50400	49300	41600	1043040
1915	49000	46900	31900	94200	43300	38000	46400	44700	86200	38100	26900	29400	575000
1916	28100	24800	29600	31400	36300	27800	29500	32100	28100	28300	24400	25000	345600
1917	23100	20900	34200	24700	31000	25700	22000	19800	24100	20500	19100	22000	287100
1918	20400	19900	22300	20300	35100	31200	22700	18100	21100	34300	33300	31600	310300
1919	28700	23100	28700	29100	39900	47900	47100	39500	36300	55100	45100	25400	772600
1920	49500	36800	29500	27900	34600	39600	34400	67600	39000	40800	32100	30400	462200
1921	28200	26800	32300	29900	30300	42200	30800	31800	25200	24600	23000	24800	349900
1922	23000	21000	24600	169100	46800	46600	35300	29000	25900	32200	25200	28100	506800
1923	27300	30400	32100	36400	30100	28700	29000	29100	32800	52200	49500	38700	416300
1924	29100	26900	28700	27200	34300	31200	25000	23600	27900	27900	24400	25100	331300
1925	24500	21500	22400	20900	356900	45600	33200	32400	29800	30400	27600	27100	672300
1926	26300	22600	27700	42600	28800	26300	24700	23300	22200	26400	24000	33100	328000
1927	25100	24700	23400	39500	24700	27700	23200	20100	48300	89800	27000	26500	400000
1928	24500	21100	20500	18300	33300	51900	23600	21600	32800	28700	22000	20800	319100
1929	15100	17900	19900	11100	26700	37600	47200	21500	15900	18800	17600	18100	267400
1930	17800	15100	18600	21800	10500	33100	20200	15500	13900	34900	37000	32100	584600
1931	32800	34400	32500	67800	62100	39300	36110	31740	28750	29680	30150	26650	451980
1932	26400	22220	21520	19230	23770	18010	26760	51000	89590	73310	56350	49520	1284080
1933	45250	36880	39420	33570	34870	35490	30630	29800	26480	27170	23950	23300	386810
1934	21000	18100	20600	20000	18800	29100	20700	17900	19900	19500	15900	15900	237400
1935	14500	13300	14000	15400	66800	285000	34300	29000	40500	45400	34400	34800	991900
1936	34500	29200	29400	29600	55500	28900	91700	28100	17700	36000	28400	28100	596400
1937	27500	21300	22700	20000	26700	23600	20700	18600	17400	18600	19200	20300	256600
1938	22400	20900	21900	19600	18500	16100	37700	30200	25100	25100	22500	22400	621700

RIO GRANDE BASIN

08449500 Devils River near Del Rio, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	22200	18900	19800	18400	28200	21600	19800	17900	16600	18900	17900	19100	239300
1940	18400	16300	16200	25100	22800	23600	19600	29000	20200	19900	17600	17100	245800
1941	16100	14200	14300	18200	26100	19100	21200	20100	24400	42300	22400	20800	259200
1942	19600	16600	17400	19200	17700	15000	20900	38400	37900	59000	60300	25500	347500
1943	23600	21400	22100	20800	35900	25200	24100	19000	19900	19300	17700	19000	268000
1944	19100	17300	19100	16100	19400	16800	14500	16300	62600	19600	17700	16500	255000
1945	16800	14900	15800	14100	12300	11100	13900	12100	11200	129000	19600	17200	288000
1946	16500	13500	13100	19600	14500	50100	15700	13300	15000	28600	14900	15100	229900
1947	19500	14500	15400	12500	13700	12500	14800	16100	20400	13200	13900	13500	180000
1948	12700	12000	11100	9910	14600	380000	264000	23200	22700	21400	19000	17900	808510
1949	15900	54500	43300	61800	89600	32400	84400	107000	41500	48200	31400	28700	638700
1950	27100	23200	22800	19600	19500	17600	41500	20900	21500	19000	17500	17200	267400
1951	15900	12900	13300	11700	16100	12600	10200	8820	8660	10500	9820	9330	139830
1952	9150	9630	9250	10400	21600	9810	8460	8050	11300	9780	11200	13200	131830
1953	12400	11200	15400	8030	10100	8080	9720	10800	15500	13900	11600	11400	138130
1954	11100	8570	8650	48100	21900	678000	36400	25900	21400	23600	20200	19400	923220
1955	18200	14500	13400	11500	14100	10200	21500	18700	115000	23600	18500	17200	296400
1956	15500	12300	11200	9630	8250	7180	6460	6760	7210	10700	7330	7590	110110
1957	7960	7210	7730	26700	334000	70700	26600	26700	-	-	-	-	-
MAX	51100	54500	46000	173600	356900	678000	531000	185000	895990	349000	64000	54000	1284080
MIN	7960	7210	7730	8030	8250	7180	6460	6760	7210	9780	7330	7590	110110
MEAN	25517	23217	24269	31665	44632	60294	51753	33495	59973	41042	27393	26465	449715
NO.	69	69	69	69	69	69	69	69	68	68	68	68	68
DISTR													
OF MEAN	5.7%	5.2%	5.4%	7.0%	9.9%	13.4%	11.5%	7.4%	13.3%	9.1%	6.1%	5.9%	100%

RIO GRANDE BASIN

08449600 Evans Creek near Comstock, Texas

LOCATION: Lat 29°31'48", long 101°05'54", Val Verde County, 11.0 mi (17.7 km) upstream from its confluence with the Devils River, and 1.8 mi (2.9 km) upstream from the bridge on U.S. Highway 90.

DRAINAGE AREA: 74 mi² (191.7 km²).

PERIOD OF RECORD: December 1967 to December 1975.

GAGE: Water-stage recorder, cableway, and control weir. Datum of gage is 1,162.54 ft (354.34 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 9 years, 2,868 ac-ft/yr (3.5 hm³/yr).

EXTREMES: Period of record (1967-75): Maximum discharge, 17,400 ft³/s (492.8 m³/s) June 12, 1971, gage height, 5.99 ft (1.82 m); no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1967	-	-	-	-	-	-	-	-	-	-	-	0	-
1968	0	0	0	0	0	0	0	0	0	57.3	0	0	57.3
1969	0	0	0	0	18.6	0	0	0	91.6	537	0	0	647
1970	0	0	0	0	0	0	0	0	88.5	0	0	0	88.5
1971	0	0	0	0	0	5120	0	9280	0	0	0	0	14400
1972	0	0	0	0	0	0	0	44.4	0	0	0	0	44.4
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	20.2	43.6	0	0	0	6620	557	0	0	7241
1975	0	0	0	0	0	0	459	0	0	0	0	0	459
MAX	0	0	0	20.2	43.6	5120	459	9280	6620	557	0	0	14400
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	2.53	7.77	640	57.4	1166	850	144	0	0	2868
NO. DISTR	8	8	8	8	8	8	8	8	8	8	8	9	8
OF MEAN	.0%	.0%	.0%	.1%	.3%	22.3%	2.0%	40.6%	29.6%	5.0%	.0%	.0%	100%

RIO GRANDE BASIN

08450500 Devils River at Mouth near Del Rio, Texas

LOCATION: Lat 29°28'15", long 101°03'25", Val Verde County, 0.8 mi (1.3 km) above its confluence with the Rio Grande, 3.7 mi (5.95 km) below the bridge on U.S. Highway 90, and 12.0 mi (19.3 km) northwest of Del Rio.

DRAINAGE AREA: 4,305 mi² (11,150.0 km²).

PERIOD OF RECORD: August 1954 to May 1968.

GAGE: Water-stage recorder, rock and concrete control wall, and gravity well. Datum of gage is 911.00 ft (277.67 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 15 years, 379,324 ac-ft/yr (467.7 hm³/yr).

EXTREMES: Period of record (1954-68): Maximum discharge, 122,000 ft³/s (3,455.0 m³/s) September 21, 1964, gage height, 25.00 ft (7.62 m); minimum discharge, 51.9 ft³/s (1.47 m³/s) February 7, 1957, gage height, 0.70 ft (0.21 m).

Maximum known stage, 58.00 ft (17.68 m) occurred in June 1954, discharge unknown.

REMARKS: Records good. The station was discontinued on May 31, 1968 when it was inundated by water from Amistad Reservoir. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	-	-	-	31200	27200	30100	25500	24300	-
1955	22400	17900	17600	15100	18300	12900	24300	20600	118000	26900	21500	21000	336500
1956	18000	15700	14900	12600	11500	10100	9710	9760	9650	13600	10100	9980	145600
1957	9700	8950	10400	30000	347000	76300	32700	32100	31100	73400	34700	32000	718350
1958	31400	38000	33900	29100	30200	127000	34700	31100	78200	59800	41900	40800	576100
1959	39200	34000	34500	30400	35300	30500	33900	30800	24800	92500	34400	32900	453200
1960	28000	26400	25200	23300	21800	19800	23400	26900	21500	33800	26100	23700	299900
1961	24000	20800	19700	17200	16500	117000	48100	31500	27600	29200	27000	26300	404900
1962	23590	19470	19240	19300	16270	19960	18180	15910	18650	84240	23430	21210	259450
1963	18860	16040	15910	14260	21880	18640	15170	13890	13950	13570	12990	13390	188550
1964	22420	15780	13600	17000	18490	11190	10220	10240	445800	45780	33230	32480	676230
1965	29280	24600	24200	21000	30070	105100	25110	25030	23690	22490	21080	19460	371110
1966	18220	15300	15510	60870	56700	23410	19860	24680	23800	23980	21660	21460	325450
1967	21210	18140	18490	16060	14470	12990	13780	14660	60340	20760	17530	16200	244630
1968	15640	13720	15420	29800	28910	-	-	-	-	-	-	-	-
MAX	39200	38000	34500	60870	347000	127000	48100	32100	445800	92500	41900	40800	718350
MIN	9700	8950	10400	12600	11500	10100	9710	9760	9650	13570	10100	9980	145600
MEAN	22994	20343	19898	23999	47671	44992	23779	22741	66020	37866	25080	23941	379324
NO. OF MEAN	14	14	14	14	14	13	13	14	14	14	14	14	13
DISTR	6.1%	5.4%	5.2%	6.3%	12.6%	11.9%	6.3%	6.0%	17.4%	10.0%	6.6%	6.3%	100%

RIO GRANDE BASIN

08450600 Rio Grande near Devils River near Del Rio, Texas

LOCATION: Lat 29°25'38", long 101°02'32", Val Verde County, 11.0 mi (17.7 km) upstream from the International Bridge between Del Rio and Ciudad Acuna, Coahuila.

DRAINAGE AREA: Unknown.

PERIOD OF RECORD: May 1900 to March 1914, September 1914, November 1914 to April 1915.

GAGE: Inclined staff gage. Datum of gage not published.

AVERAGE DISCHARGE: 16 years, 3,452,307 ac-ft/yr (4,266.7 hm³/yr).

EXTREMES: Period of record (1900-15): Maximum discharge, 138,800 ft³/s (3,930.8 m³/s) September 14, 1904; minimum, 1,120 ft³/s (31.7 m³/s) May 12, 1904.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	-	-	218000	265000	400000	648000	604000	353000	189000	152000	-
1901	140000	125000	134000	102000	145000	163000	144000	243000	353000	221000	216000	135000	2121000
1902	125000	107000	98100	91400	192000	99900	419000	447000	772000	187000	143000	128000	2809400
1903	127000	141000	141000	97600	169000	373000	297000	186000	261000	254000	120000	107000	2273600
1904	99200	86200	84100	78700	130000	304000	171000	120000	197000	110000	359000	215000	4717200
1905	156000	140000	343000	317000	426000	1190000	640000	789000	642000	484000	370000	440000	5937000
1906	223000	314000	214000	161000	280000	375000	784000	1840000	747000	273000	196000	247000	5654000
1907	201000	165000	151000	160000	279000	447000	471000	319000	677000	339000	511000	491000	4211000
1908	207000	155000	131000	162000	284000	183000	269000	700000	612000	149000	111000	113000	3076000
1909	115000	94900	94400	80600	193000	276000	613000	520000	499000	178000	122000	105000	2890900
1910	167000	105000	114000	164000	281000	180000	188000	102000	330000	157000	89200	83300	1960500
1911	76400	106000	98100	166000	345000	334000	524000	385000	338000	382000	280000	184000	3218500
1912	153000	113000	94200	162000	193000	477000	200000	433000	883000	313000	116000	132000	3269200
1913	118000	143000	171000	129000	281000	269000	156000	139000	308000	212000	164000	167000	2249000
1914	113200	90900	99700	-	-	-	-	-	738500	-	366100	286700	-
1915	288000	203500	182000	254900	-	-	-	-	-	-	-	-	-
MAX	288000	314000	343000	317000	426000	1190000	784000	1840000	1970000	1100000	511000	491000	5937000
MIN	76400	86200	84100	78700	130000	99900	144000	102000	261000	149000	89200	83300	1960500
MEAN	153387	139300	143307	151871	244000	352564	376857	490786	648967	328714	223487	199067	3452307
NO. OF MEAN	15	15	15	14	14	14	14	14	15	14	15	15	13
DISTR OF MEAN	4.4%	4.0%	4.2%	4.4%	7.1%	10.2%	10.9%	14.2%	18.8%	9.5%	6.5%	5.8%	100%

RIO GRANDE BASIN

08450800 International Amistad Reservoir near Del Rio, Texas

LOCATION: Lat 29°26'59", long 101°03'27", Val Verde County, 12.8 mi (20.6 km) upstream from Del Rio, and 681.3 mi (1,096.2 km) downstream from the American Dam.

DRAINAGE AREA: 123,134 mi² (318,917.1 km²).

PERIOD OF RECORD: May 1968 to December 1975.

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

EXTREMES: Period of record (1968-75): Maximum contents, 4,859,900 ac-ft (5,892.2 hm³) September 22, 1974, elevation, 1,135.66 ft (346.15 m); minimum contents, 869,400 ac-ft (1,072.0 hm³) June 10, 1971, elevation, 1,054.15 ft (321.30 m).

REMARKS: The reservoir is formed by an earthfill embankment and a 2,182 ft (665.1 m) concrete spillway and outlet works across the main channel of the Rio Grande. The total length of the dam, including the spillway, is 32,022 ft (9,760.3 m). The capacity of the reservoir is 3,505,400 ac-ft (4,322.2 hm³). The dam was completed on November 21, 1969, but deliberate impoundment began on May 31, 1968. The spillway is a gated concrete gravity structure with an ogee crest and stilling basin. The spillway is controlled by 16 tainter gates, each measuring 50 ft (15.2 m) by 54 ft (16.4 m), with a crest length of 800 ft (243.8 m). Water is released through five penstocks on the U.S. side, each 14.5 ft (4.4 m) in diameter, and through four penstocks on the Mexican side, each 15.75 ft (4.8 m) in diameter. The dam is operated jointly by the U.S. and Mexican sections of the International Boundary and Water Commission.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1968	-	-	-	-	1000	2000	137300	223500	572400	691800	721500	687200
1969	754400	827500	891500	1007100	1050700	1093900	1120500	1110500	1147200	1252600	1278900	1298300
1970	1303900	1204700	1164300	1187700	1142900	989900	947700	982100	1159600	1348000	1429200	1484200
1971	1460400	1090500	1100400	1095900	966500	939300	1025900	2010200	2219000	2474300	2531100	2616000
1972	2722100	2786500	2844600	2878200	2951400	3044200	3108600	3584500	3808600	3789400	3806500	3852100
1973	3895200	3906300	3944900	3900000	3705800	3695100	3782600	3822400	3828600	3799700	3833400	3847900
1974	3890300	3876300	3843100	3881900	3814100	3775000	3714600	3778000	4547500	4392300	4106800	4030700
1975	4030000	4007200	4022100	3859700	3807200	3807900	3867300	3810000	3809300	3724100	3645500	3707900
MAX	4030000	4007200	4022100	3900000	3814100	3807900	3867300	3822400	4547500	4392300	4106800	4030700
MIN	754400	827500	891500	1007100	1000	2000	137300	223500	572400	691800	721500	687200
MEAN	2579471	2528429	2547271	2544357	2179950	2168413	2213063	2415125	2636525	2684025	2669113	2690538
NO.	7	7	7	7	8	8	8	8	8	8	8	8
DISTR OF MEAN	8.6%	8.5%	8.5%	8.5%	7.3%	7.3%	7.4%	8.1%	8.8%	9.0%	8.9%	9.0%

RIO GRANDE BASIN

08450900 Rio Grande below Amistad Dam near Del Rio, Texas

LOCATION: Lat 29°25'30", 101°02'20", Val Verde County, 2.2 mi (3.5 km) downstream from Amistad Dam, 10.6 mi (17.0 km) upstream from the Ciudad Acuna, Coahuila-Del Rio International Bridge, and 683.5 mi (1,099.8 km) downstream from the American Dam.

DRAINAGE AREA: 123,143 mi² (318,940.4 km²).

PERIOD OF RECORD: September 1954 to December 1975.

GAGE: Water-stage recorders (graphic and digital), cableway, gravity well, and concrete control weir. Datum of gage is 898.94 ft (274.00 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 22 years, 1,686,843 ac-ft/yr (2,079.9 hm³/yr).

EXTREMES: Period of record (1954-75): Maximum discharge, 1,168,000 ft³/s (32,794.6 m³/s) June 28, 1954, gage height, 55.72 ft (16.98 m); minimum discharge, 48.0 ft³/s (1.36 m³/s) December 21, 1968, gage height, 1.20 ft (0.36 m).

Highest known discharge, that of June 28, 1954.

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) 2.3 mi (3.7 km) upstream since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1954	-	-	-	-	-	-	-	-	16 8000	135000	85900	82300	-
1955	81000	71000	69100	55400	151000	125000	183000	279000	393000	239000	105000	86800	1838300
1956	82400	74300	66800	54100	60700	56800	46000	67500	71900	145000	68200	65200	858900
1957	66100	78000	68700	208000	812000	248000	101000	119000	111000	208000	114000	101000	2234800
1958	91700	94100	87200	66100	112000	193000	98100	102000	759000	1487000	281000	166000	3537200
1959	146000	111000	110000	98700	146000	152000	256000	188000	255000	351000	131000	124000	2068700
1960	136000	155000	140000	99300	79000	91500	289000	290000	252000	209000	138000	153000	2031800
1961	142000	118000	108000	68800	103000	353000	236000	189000	138000	129000	108000	105000	1797800
1962	99910	86260	82790	74340	71950	106800	141300	80600	200000	249100	117400	107200	1417650
1963	93880	75950	72440	68880	108300	134000	117600	146000	164000	104800	79640	85940	1251430
1964	92710	75060	81560	122900	91300	156000	83150	122200	1095000	185400	124600	116200	2346080
1965	110500	103800	97750	79580	140500	338500	86640	117100	149400	118200	96970	90690	1529630
1966	85810	71720	73770	147200	133300	163800	132600	274900	746800	266600	119400	105500	2321400
1967	100400	82040	87370	73330	65830	120500	196800	147600	248000	151900	106700	97170	1477640
1968	91160	65770	66080	93900	107300	73570	75920	90370	89220	87270	99270	98020	1037850
1969	69970	53950	64240	54590	56260	50310	64050	64520	59480	64080	62660	66690	730800
1970	68760	173900	92740	43890	105500	260400	140100	52090	47180	21010	30340	32000	1067910
1971	90350	467200	50630	69840	193700	198100	68420	23130	17610	3730	7070	8700	1198480
1972	12060	12470	21020	27570	24140	16420	23180	15590	84510	149000	25930	4860	416750
1973	5320	53640	7270	69430	237400	67890	70580	173200	260800	141200	4540	10870	1102140
1974	10650	40220	135900	58220	209300	115700	79790	105100	1280000	812600	502300	216300	3566080
1975	112600	165400	239000	342100	163500	64860	143900	198100	111400	163400	153500	19150	1876910
MAX	146000	467200	239000	342100	812000	353000	289000	290000	1280000	1487000	502300	216300	3566080
MIN	5320	12470	7270	27570	24140	16420	23180	15590	17610	3730	4540	4860	416750
MEAN	85204	106132	86779	94103	151047	146960	125387	135476	304605	246422	116428	88300	1666843
NO.	21	21	21	21	21	21	21	21	22	22	22	22	21
DISTR OF MEAN	5.1%	6.3%	5.1%	5.6%	9.0%	8.7%	7.4%	8.0%	18.1%	14.6%	6.9%	5.2%	100%

RIO GRANDE BASIN

08451130 Eight Mile Creek near Del Rio, Texas

LOCATION: Lat 29°24'04", long 101°00'55", Val Verde County, 8.0 mi (12.9 km) northwest of Del Rio, and 0.8 mi (1.3 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 13.6 mi² (35.2 km²).

PERIOD OF RECORD: March 1961 to December 1975.

GAGE: Water-stage recorder and concrete wall with 90° V-notch. Datum of gage not published.

AVERAGE DISCHARGE: 15 years, 704 ac-ft/yr (0.9 hm³/yr).

EXTREMES: Period of record (1961-68, 1972-75): Maximum discharge, 13.6 ft³/s (0.38 m³/s) July 18, 1975; no flow at times.

REMARKS: Records good. All of the storm runoff passing this station is deducted and not included in the record. The station was established to determine the effect of storage in Amistad Reservoir on the flow of the stream. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	0	0	0	18.0	9.1	11.5	6.00	10.1	6.50	11.3	-
1962	4.40	0	5.10	10.7	1.40	1.80	0	0	.40	2.00	0	0	25.8
1963	0	0	0	0	1.80	1.60	0	0	0	0	0	0	3.40
1964	0	0	0	2.20	1.40	0	0	.20	13.7	19.4	3.20	0	40.1
1965	.50	.80	0	4.20	9.9	17.6	0	0	.30	4.60	.30	1.30	39.5
1966	1.40	1.40	1.50	7.20	6.10	2.40	0	.80	1.00	.60	0	0	22.4
1967	.10	.60	.80	.20	0	0	0	0	9.8	5.90	1.10	0	18.5
1968	0	.70	1.00	4.00	2.50	.40	1.40	0	0	.10	0	0	10.1
1969	0	.90	.10	2.20	3.50	.10	0	.20	1.10	16.5	12.1	11.2	47.9
1970	5.00	1.90	1.90	0	0	0	0	0	4.00	6.90	1.00	0	20.7
1971	0	0	0	1.50	.20	.80	1.00	32.0	18.6	45.2	55.1	64.1	218
1972	72.6	67.6	84.7	96.0	90.0	90.0	89.7	176	149	171	190	214	1491
1973	215	209	240	226	216	214	228	192	201	242	230	245	2658
1974	248	224	243	221	224	169	186	198	240	334	321	283	2891
1975	294	273	271	244	222	188	294	235	220	222	208	221	2892
MAX	294	273	271	244	224	214	294	235	240	334	321	283	2892
MIN	0	0	0	0	0	0	0	0	0	0	0	0	3.40
MEAN	60.1	55.7	56.6	54.6	51.9	46.9	53.9	56.4	57.7	72.0	68.6	70.1	704
NO. OF MEAN	14	14	15	15	15	15	15	15	15	15	15	15	14
DISTR OF MEAN	8.5%	7.9%	8.0%	7.8%	7.4%	6.7%	7.7%	8.0%	8.2%	10.2%	9.7%	9.9%	100%

RIO GRANDE BASIN
08451140 McKee Spring near Del Rio, Texas

LOCATION: Lat 29°23'35", long 101°01'15", Val Verde County, 8.0 mi (12.9 km) northwest of Del Rio, and 150 ft (45.7 m) from the edge on the low-flow channel of the Rio Grande.

PERIOD OF RECORD: November 1961 to December 1975.

GAGE: Water-stage recorder, Cipolletti weir, and gravity well. Datum of gage is 894.59 ft (272.67 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 15 years, 2,683 ac-ft/yr (3.3 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 9.1 ft³/s (0.26 m³/s) August 15, 1972; no flow at times.

REMARKS: Records good. The station was established to determine the effect of storage in Amisted Reservoir on the spring. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	-	-	-	-	-	-	-	-	146	104	-
1962	95.0	69.8	86.9	117	114	0	0	0	0	0	0	0	483
1963	0	0	0	0	.70	0	0	0	0	0	0	0	.70
1964	0	0	0	0	14.3	32.9	.30	0	0	108	253	234	642
1965	193	167	205	185	423	180	140	121	110	121	115	102	2062
1966	92.6	99.4	102	137	143	166	119	128	168	73.0	28.2	32.7	1289
1967	40.1	37.5	40.1	33.1	15.9	17.1	15.1	5.80	74.0	31.7	6.60	0	317
1968	0	0	0	51.2	10.0	0	22.8	13.3	38.3	76.6	97.4	115	425
1969	119	126	155	204	255	228	290	271	259	351	343	381	2932
1970	360	301	350	368	440	368	352	333	351	403	351	373	4350
1971	367	341	340	338	332	342	357	445	479	464	421	426	4652
1972	426	396	419	411	409	408	414	444	408	426	406	424	4991
1973	426	407	455	442	449	405	434	413	398	414	380	387	5010
1974	432	385	454	432	480	436	446	445	451	484	475	475	5395
1975	466	430	457	437	444	418	474	453	414	439	414	418	5264
MAX	466	430	457	442	480	436	474	453	479	484	475	475	5395
MIN	0	0	0	0	.70	0	0	0	0	0	0	0	.70
MEAN	215	197	219	225	252	214	215	219	225	242	229	231	2683
NO.	14	14	14	14	14	14	14	14	14	14	15	15	14
DISTR													
OF MEAN	8.0%	7.3%	8.2%	8.4%	9.4%	8.0%	8.0%	8.2%	8.4%	9.0%	8.5%	8.6%	100%

RIÓ GRANDE BASIN

08451300 Cantu Spring on Cienegas Creek near Del Rio, Texas

LOCATION: Lat 29°23'15", long 100°56'00", Val Verde County, 2.5 mi (4.0 km) northwest of Del Rio, and 3.5 mi (5.6 km) above its confluence with the Rio Grande.

PERIOD OF RECORD: March 1961 to December 1975.

GAGE: Water-stage recorder and gravity well. Datum of gage not published.

AVERAGE DISCHARGE: 15 years, 2,477 ac-ft/yr (3.0 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 9.6 ft³/s (0.27 m³/s) September 7-10, 1972; no flow at times.

REMARKS: Records good. The station was established to determine the effect of storage in Amistad Reservoir on the spring. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	-	177	168	153	150	167	205	193	196	186	181	-
1962	166	140	130	115	104	90.6	71.8	42.1	6.70	0	0	0	866
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	59.5	145	140	193	538
1965	201	178	184	195	225	199	156	195	183	181	160	137	2194
1966	126	67.0	3.20	8.30	50.6	110	110	153	130	184	183	184	1309
1967	180	131	126	105	91.0	87.5	36.9	1.90	75.2	28.0	3.80	0	866
1968	0	0	0	0	1.00	19.0	34.1	5.40	1.90	8.80	33.1	75.2	178
1969	64.7	59.3	90.4	126	151	127	145	144	184	289	273	322	1975
1970	318	335	389	379	334	239	196	232	282	290	232	228	3454
1971	238	175	173	175	142	110	139	265	287	330	360	411	2805
1972	439	441	464	474	442	427	442	494	520	477	489	510	5619
1973	509	455	518	480	476	476	505	460	370	405	394	396	5444
1974	438	333	417	392	367	317	339	353	366	436	464	476	4698
1975	463	421	441	391	382	327	413	440	432	429	423	432	4994
MAX	509	455	518	480	476	476	505	494	520	477	489	510	5619
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	224	195	208	201	195	179	184	199	206	227	223	236	2477
NO.	14	14	15	15	15	15	15	15	15	15	15	15	14
DISTR OF MEAN	9.1%	7.9%	8.4%	8.1%	7.9%	7.2%	7.4%	8.0%	6.3%	9.1%	9.0%	9.5%	100%

RIO GRANDE BASIN

08451500 Cienegas Creek (and Briggs Farm Ditch) near Del Rio, Texas

LOCATION: Lat 29°21'00", long 100°56'40", Val Verde County, 0.3 mi (0.5 km) above its confluence with the Rio Grande, and lat 29°21'40", long 100°56'30" for the Briggs Farm Ditch, 2,900 ft (883.9 m) from the ditch intake which branches off Cienegas Creek, 2.5 mi (4.0 km) west of Del Rio.

PERIOD OF RECORD: September 1931 to June 1935, March 1965 to December 1975.

GAGE: Water-stage recorders (2) and gravity wells (2). Datum of gages not published.

AVERAGE DISCHARGE: 16 years (1931-35, 1965-75), 6,787 ac-ft/yr (8.4 hm³/yr).

EXTREMES: Period of record (1931-35, 1965-75): Maximum discharge, 42.7 ft³/s (1.2 m³/s) August 12, 1972; minimum discharge, 0.5 ft³/s (0.014 m³/s) April 21, 1968.

REMARKS: Records good. All of the storm runoff passing this station is deducted and not included in the record. The stations were established to determine the effect of storage in Amistad Reservoir on the flow of springs in the area. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	312	394	426	489	-
1932	468	282	263	85.0	663	189	61.5	222	861	861	780	738	5474
1933	747	669	521	376	374	342	247	246	516	570	507	536	5651
1934	527	322	328	262	554	167	158	166	1280	757	171	163	4855
1935	149	184	2810	219	440	6360	-	-	-	-	-	-	-
1965	-	-	219	245	287	236	111	220	200	262	103	155	-
1966	260	205	104	48.0	195	250	71.8	154	102	89.3	92.2	144	1715
1967	174	168	169	113	78.9	14.7	7.50	6.50	187	151	131	130	1331
1968	132	98.0	69.4	51.2	66.2	50.2	97.0	12.1	13.1	15.5	25.2	63.7	694
1969	257	223	276	356	390	260	220	225	381	914	678	852	5032
1970	791	704	925	754	594	535	610	601	713	854	615	580	8276
1971	544	491	458	506	504	460	393	851	675	813	800	815	7310
1972	909	859	824	842	1020	791	966	1240	1040	994	966	1020	11471
1973	1080	1010	1100	1060	962	1070	1060	945	868	1140	1030	1030	12355
1974	965	857	1000	839	922	752	740	841	828	943	960	1040	10687
1975	967	1140	1050	922	856	754	1080	936	811	821	906	926	11169
MAX	1080	1140	2810	1060	1020	6360	1080	1240	1280	1140	1030	1040	12355
MIN	132	98.0	69.4	48.0	66.2	14.7	7.50	6.50	13.1	15.5	25.2	63.7	694
MEAN	569	515	674	445	527	815	416	476	586	639	546	579	6787
NO.	14	14	15	15	15	15	14	14	15	15	15	15	13
DISTR OF MEAN	8.4%	7.6%	9.9%	6.6%	7.8%	12.0%	6.1%	7.0%	8.6%	9.4%	8.0%	8.5%	100%

RIO GRANDE BASIN

08451800 Rio Grande at Del Rio, Texas

LOCATION: Lat 29°19'35", long 100°55'50", Val Verde County, 1,200 ft (365.8 m) upstream from the bridge between Del Rio and Ciudad Acuna, Coahuila, 12.6 mi (20.3 km) downstream from Amistad Dam, and 693.9 mi (1,116.5 km) below the American Dam.

DRAINAGE AREA: 123,303 mi² (319,354.8 km²).

PERIOD OF RECORD: December 1919 to March 1920, January 1924 to June 1941, January 1968 to December 1975.

GAGE: Water-stage recorders (graphic and digital), cableway, gravity well, and concrete control weir. Datum of gage is 869.20 ft (264.93 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 28 years (1919-20, 1924-41, 1968-75), 2,413,068 ac-ft/yr (2,975.3 hm³/yr).

EXTREMES: Period of record (1919-20, 1924-41, 1968-75): Maximum discharge, 604,590 ft³/s (17,122.0 m³/s) September 1, 1932, gage height, 34.50 ft (10.52 m); minimum discharge, 142 ft³/s (4.0 m³/s) August 14, 1971, gage height, 1.27 ft (0.39 m).

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) located 12.6 mi (20.3 km) upstream since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1919	-	-	-	-	-	-	-	-	-	-	-	222000	-
1920	257000	244000	173000	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	-	-	-
1924	344000	192000	194000	163000	172000	176000	160000	136000	254000	252000	144000	153000	2340000
1925	153000	131000	145000	150000	742000	282000	340000	865000	844000	413000	215000	187000	4467000
1926	188000	157000	166000	196000	174000	245000	197000	489000	485000	449000	227000	218000	3191000
1927	201000	184000	168000	166000	142000	176000	174000	205000	271000	262000	166000	181000	2296000
1928	178000	160000	149000	131000	269000	184000	185000	409000	273000	215000	213000	215000	2581000
1929	175000	152000	160000	133000	167000	183000	175000	210000	204000	181000	158000	148000	2046000
1930	135000	102000	94700	83300	68200	145000	97800	249000	72600	574000	148000	132000	1901600
1931	133000	127000	134000	192000	278000	177000	199760	200790	129800	157450	142490	160330	2031620
1932	145610	138310	138190	99850	169390	110200	150510	254720	2754590	1409020	376150	295180	6041720
1933	281160	229970	224670	185990	166460	178830	223340	203860	733080	422490	189070	164630	3203550
1934	162000	148000	156000	135000	153000	180000	138000	124000	117000	110000	108000	108000	1639000
1935	111000	96200	102000	85200	345000	704000	223000	185000	1274000	320000	177000	144000	3766400
1936	134000	124000	137000	106000	189000	128000	221000	151000	758000	333000	156000	171000	2608000
1937	148000	131000	129000	91300	115000	261000	126000	138000	273000	256000	134000	151000	1953300
1938	168000	131000	122000	86300	100000	183000	1228000	458000	1084000	360000	182000	161000	4263300
1939	151000	141000	128000	90700	143000	107000	134000	342000	135000	150000	150000	134000	1805700
1940	125000	117000	98900	106000	181000	179000	172000	257000	168000	182000	121000	102000	1808900
1941	103000	119000	111800	200000	399000	357000	-	-	-	-	-	-	-
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	89440	64800	63600	93320	106200	72520	75670	89520	88130	87350	99830	97070	1027650

RIO GRANDE BASIN

08451800 Rio Grande at Del Rio, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1969	71150	55250	63900	59600	58680	49570	62550	65080	61300	89040	66450	71210	773780
1970	70630	167200	96390	48400	106600	250300	138400	56460	60480	27230	35870	37130	1095090
1971	90950	448200	56480	75570	190000	204400	72320	39040	38850	11580	13640	15330	1256360
1972	19040	18630	28090	33850	30930	23140	31470	28830	89840	156400	34440	13920	508580
1973	14500	62750	17300	79240	245000	80180	83540	185900	277700	159900	15690	22260	1244160
1974	19880	47690	150500	65440	227000	128200	91000	115100	1327000	815200	527500	228800	3743310
1975	119700	169200	253300	354400	175000	75190	161400	213600	127700	176300	163300	25420	2014510
MAX	344000	448200	253300	354400	742000	704000	1228000	865000	2754590	1409020	527500	295180	6041720
MIN	14500	18630	17300	33850	30930	23140	31470	28830	38850	11580	13640	13920	508580
MEAN	140299	142896	128156	123479	196633	186136	194430	226836	476043	302758	158545	136857	2413068
NO.	27	27	27	26	26	26	25	25	25	25	25	26	25
DISTR OF MEAN	5.8%	5.9%	5.3%	5.1%	8.1%	7.7%	8.1%	9.4%	19.7%	12.5%	6.6%	5.7%	100%

RIO GRANDE BASIN
08452500 Rio Grande near Del Rio, Texas

LOCATION: Lat 29°19'35", long 100°55'40". Val Verde County, at the International Bridge between Del Rio and Ciudad Acuna, Coahuila, 12.8 mi (20.6 km) downstream from Amistad Dam, and 693.5 mi (1,115.8 km) downstream from the American Dam.

DRAINAGE AREA: 126,940 mi² (328,774.6 km²).

PERIOD OF RECORD: July 1941 to August 1954, October 1960 to December 1967.

GAGE: Water-stage recorders (graphic and digital) and gravity well. Datum of gage is 854.30 ft (263.44 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 22 years, (1941-54, 1960-67), 2,214,689 ac-ft/yr (2,730.7 hm³/yr).

EXTREMES: Period of record (1941-54, 1960-67): Maximum discharge, 1,140,000 ft³/s (32,284.8 m³/s) June 28, 1954, gage height, 38.25 ft (11.66 m); minimum discharge, 519 ft³/s (14.7 m³/s) July 1, 1953, gage height, 0.28 ft (0.085 m).

Maximum known discharge, that of June 28, 1954.

REMARKS: Records good. The flow is modified by upstream reservoirs, diversions, and drainage returns. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1941	-	-	-	-	-	-	409000	437000	682000	1634000	467000	279000	-
1942	222000	197000	187000	137000	349000	367000	284000	599000	1541000	570000	296000	239000	4988000
1943	200000	158000	166000	122000	177000	165000	330000	127000	109000	266000	132000	143000	2095000
1944	153000	126000	123000	93300	101000	123000	99800	151000	547000	262000	130000	119000	2028100
1945	129000	111000	103000	114000	68200	61700	455000	101000	81700	537000	158000	124000	2043600
1946	130000	111000	111000	117000	144000	280000	140000	74700	314000	435000	137000	129000	2122700
1947	150000	130000	120000	76900	136000	94900	82400	167000	338000	111000	113000	123000	1642200
1948	98200	101000	97200	70200	81200	493000	438000	112000	114000	132000	121000	104000	1961800
1949	104000	261000	175000	222000	216000	193000	259000	425000	284000	254000	169000	147000	2709000
1950	147000	122000	126000	90700	96100	139000	270000	192000	267000	203000	114000	113000	1879800
1951	101000	106000	111000	72200	135000	147000	103000	81300	87300	67000	72500	64700	1148000
1952	64800	60000	56900	59400	111000	78400	360000	68700	46800	56200	53100	57900	1073200
1953	59000	51200	65300	43500	40100	37200	64400	81900	107000	68300	53600	56200	727700
1954	56300	50000	48900	275000	169000	2972000	244000	267000	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	206000	130000	149000	-
1961	141000	115000	106000	69500	101000	439000	236000	190000	141000	129000	111000	104000	1882500
1962	100600	84910	81600	75350	72640	103700	139300	80380	197400	249700	118200	110800	1414580
1963	92490	75550	71740	67720	110800	133900	118000	142500	163200	103000	76090	83350	1238340
1964	90630	74280	82380	122600	92270	155500	84060	126000	1187000	189400	126600	118900	2449620
1965	114400	107000	102800	86600	147700	351700	88150	120600	147800	120100	97810	88090	1572750
1966	85190	71680	74000	152200	127200	159600	132800	275200	747400	266900	114900	104500	2311570
1967	100100	82260	87910	74860	66480	118200	194400	148500	251500	152200	107700	96600	1480710
MAX	222000	261000	187000	275000	349000	2972000	455000	599000	1541000	1634000	467000	279000	4988000
MIN	56300	50000	48900	43500	40100	37200	64400	68700	46800	56200	53100	56200	727700
MEAN	116936	109744	104837	107102	127085	330640	215777	188942	367705	286276	138024	121621	2214689
NO.	20	20	20	20	20	20	21	21	20	21	21	21	19
DISTR													
OF MEAN	5.3%	5.0%	4.7%	4.8%	5.7%	14.9%	9.7%	8.5%	16.6%	12.9%	6.2%	5.5%	100%

RIO GRANDE BASIN

08452800 San Felipe Springs at Del Rio, Texas

LOCATION: Lat 29°21'58", long 100°53'07", Val Verde County, in Del Rio, on San Felipe Creek, 300 ft (91.4 m) below the bridge on U.S. Highway 277, and another gage at lat 29°22'00", long 100°53'07", on the Val Verde Canal in Del Rio at the bridge on U.S. Highway 277.

PERIOD OF RECORD: February 1961 to December 1975.

GAGE: Water-stage recorders (2) and gravity wells (2). Datum of gages are 942.58 ft (287.3 m) and 930.77 ft (283.7 m), respectively, above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 15 years, 69,635 ac-ft/yr (85.8 hm³/yr).

EXTREMES: Period of record (1961-75): Maximum discharge, 166 ft³/s (4.7 m³/s) July 18, 1976; minimum discharge, 29.2 ft³/s (0.83 m³/s) July 29, 1964.

REMARKS: Records good. The record represents only the total flow of the springs. All of the storm runoff has been eliminated from the record. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1961	-	5690	6270	5840	5980	5750	6270	6810	6400	6680	6040	6300	-
1962	6150	5400	5870	5490	5380	5090	5150	4720	4230	4120	3940	3960	59500
1963	3910	3250	3560	3360	3470	3420	3080	2690	2560	2510	2380	2390	36580
1964	2270	2120	2360	2290	2840	2480	2210	2110	3260	6020	6050	6650	40660
1965	6500	5910	6410	6240	6380	5880	6290	6360	6130	6280	5810	5860	74070
1966	5450	4500	4460	3910	5560	6070	6010	5660	5320	5660	5630	5790	64020
1967	5970	5260	5590	5450	5130	4720	4380	4160	4380	4260	4110	4170	57580
1968	4020	3950	4360	4160	4580	4650	4930	4830	4550	4420	3870	4060	52380
1969	3810	3300	3580	3770	4400	4370	4110	3930	4160	5660	6210	7000	54300
1970	7000	6260	6920	6430	6550	6300	6430	6070	5600	5920	5610	5610	74700
1971	5270	4640	5000	4780	4630	4650	5450	6170	6620	7220	7000	7640	69070
1972	7860	7430	8080	7680	7960	7730	8010	8340	8330	8870	8520	8930	97740
1973	8860	7770	8520	8340	8620	8350	8670	8210	7940	8420	8300	8810	100810
1974	8540	7720	8150	7890	8220	7870	7930	8010	7670	8060	7670	7980	95910
1975	8100	6800	7560	7190	7640	7300	7880	8320	7970	8170	8040	8240	93210
MAX	8860	7770	8520	8340	8620	8350	8670	8340	8330	8870	8520	8930	100810
MIN	2270	2120	2360	2290	2840	2480	2210	2110	2560	2510	2380	2390	36580
MEAN	5979	5333	5779	5521	5823	5642	5787	5761	5688	6151	5945	6226	69635
NO.	14	15	15	15	15	15	15	15	15	15	15	15	14
DISTR													
OF MEAN	0.6%	7.7%	8.3%	7.9%	8.4%	8.1%	8.3%	8.3%	8.2%	8.8%	8.5%	8.9%	100%

RIO GRANDE BASIN
08453000 San Felipe Creek near Del Rio, Texas

LOCATION: Lat 29°19'55", long 100°53'20", Val Verde County, 2.0 mi (3.2 km) south-southeast of Del Rio, and 1.1 mi (1.8 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 46 mi² (119.1 km²).

PERIOD OF RECORD: September 1931 to December 1975.

GAGE: Water-stage recorders (graphic and digital) and cableway. Datum of gage is 877.43 ft (267.44 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 45 years, 51,119 ac-ft/yr (63.0 hm³/yr).

EXTREMES: Period of record (1931-75): Maximum discharge, 45,000 ft³/s (1,274.4 m³/s) June 14, 1935, gage height, 23.20 ft (7.07 m); minimum discharge, 0.4 ft³/s (0.011 m³/s) July 20, 1953.

REMARKS: Records good. The flow is greatly modified by diversions above the station for municipal and irrigation use. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1931	-	-	-	-	-	-	-	-	3860	3510	3310	3550	-
1932	3730	3820	3750	2660	6700	2490	2910	5590	9790	6320	5560	5820	59140
1933	7070	5490	3910	3870	4010	3680	4290	3940	3310	3820	3370	3100	49860
1934	3400	2270	1560	1500	2740	1510	1550	1280	3060	2310	526	496	22202
1935	934	487	1560	566	2920	47900	5350	3930	19100	5410	4850	5130	98137
1936	6190	4310	4190	6120	5290	5750	4380	3650	4000	4110	4300	4390	56680
1937	5340	2970	3190	3100	2310	2170	2280	2350	2070	1710	2200	2610	32300
1938	4300	3000	2560	2900	2840	1990	4020	2640	2670	2590	2760	3210	35460
1939	5200	2900	2910	2400	5920	2650	1760	5080	2490	2730	2880	3260	40180
1940	3060	1740	2600	4560	3530	7910	2990	4070	2810	2520	1970	1960	39720
1941	3190	1720	1610	1700	2400	1810	5130	1580	3000	6110	2720	2130	33100
1942	2960	1390	1300	1760	5970	1440	1120	2150	6080	4270	3980	3960	36380
1943	5010	3060	3120	3830	5540	5040	6650	3360	3610	3890	3540	3440	50090
1944	3850	4510	2490	2640	2870	3350	2180	2320	3160	8470	2800	3090	41730
1945	3660	2950	2700	1750	1770	1110	1080	838	872	4210	2050	1810	24800
1946	2600	1680	1120	2680	2520	3280	1430	966	1420	2190	2270	2330	24486
1947	2780	2510	1580	1730	2430	5270	2280	3030	2050	1790	2090	1700	29240
1948	2790	1750	798	764	1400	10900	8600	3690	4400	4580	3900	3190	46962
1949	3500	8630	4830	8120	5570	5500	5020	6060	7490	6080	5570	5870	72240
1950	6710	5410	5030	4890	5040	4270	4090	3770	3940	3780	2920	2980	52830
1951	3550	2220	2280	1590	1960	1140	929	918	2200	1190	1460	1200	20637
1952	1070	1160	1100	1150	14800	2770	1930	1060	968	1000	1070	1080	29158
1953	1100	1080	1390	720	739	301	285	806	6040	2360	1660	1720	18201
1954	1830	840	689	2320	2260	5020	5010	3770	4550	6440	4710	4700	42139
1955	5260	3280	3510	2160	3380	1670	1300	2120	1790	3050	3630	3870	35020
1956	4140	2570	1860	1400	1150	526	421	350	1290	5520	1220	1160	21607
1957	1380	559	1030	10400	17600	4830	3600	3770	4230	6880	4860	4710	63849
1958	5430	4350	5050	4010	9670	5680	4750	4460	6610	7040	6420	6380	69850
1959	6610	5900	6510	6550	7580	6270	6750	6300	5870	7190	7000	6780	79310
1960	7450	6970	6410	5890	5730	4690	5570	5520	5580	6590	6340	7020	73760
1961	6850	5500	5860	5340	4990	10000	5940	7150	5620	6420	6030	5930	75630
1962	6290	4870	5010	4930	4280	4150	3510	2770	2900	3110	2640	2840	47300
1963	3350	2630	2540	2360	4370	2320	1410	1090	1480	1500	1510	1480	26040
1964	1610	1490	1380	2150	2230	1260	739	843	28680	5930	5610	6220	58142
1965	6850	6060	5480	6870	6340	4810	4310	4350	4230	5400	5340	5250	65290
1966	5160	3680	3740	5180	4880	5650	3840	4180	4400	4840	4680	4900	55130
1967	5530	4170	4560	4300	3390	2080	1850	2020	7890	3660	3680	3880	47010
1968	3850	3620	3780	3410	3530	3740	3970	2190	2880	3360	2960	3970	41260
1969	3360	2740	2620	10410	3690	2180	1740	3340	2740	14230	6200	7070	60320
1970	6940	6250	6020	5120	5600	4580	4500	4700	6290	5440	4890	4690	65020
1971	5160	3500	3090	4590	2430	3930	4220	7580	5420	6880	6670	6980	60450
1972	7800	7220	6550	6190	6720	5920	6380	7100	6640	7430	7500	8330	83780
1973	8910	7730	7380	6800	6620	11700	7560	6780	6960	8090	7600	7430	93560
1974	8260	6490	7840	6510	6600	5450	5520	6730	6920	7000	7100	7480	81900
1975	7790	6680	5870	5910	6590	5650	22080	6700	6180	6740	6250	6660	93100
MAX	8910	8630	7840	10410	17600	47900	22080	7580	28680	14230	7600	8330	98137
MIN	934	487	689	566	739	301	285	350	872	1000	526	496	18201
MEAN	4586	3685	3463	3950	4748	5099	3987	3566	5056	4838	4013	4128	51119
NO. OF DISTR	44	44	44	44	44	44	44	44	45	45	45	45	44
OF MEAN	9.0%	7.2%	6.8%	7.7%	9.3%	10.0%	7.6%	7.0%	9.9%	9.5%	7.9%	8.1%	100%

RIO GRANDE BASIN
08453500 Sycamore Creek near Del Rio, Texas

LOCATION: Lat 29°15'15", long 100°45'02", Kinney-Val Verde County line, at the bridge on U.S. Highway 277, 11.0 mi (17.7 km) southeast of Del Rio, and 4.5 mi (7.2 km) above its confluence with the Rio Grande:

DRAINAGE AREA: .524 mi² (1,357.2 km²).

PERIOD OF RECORD: January 1932 to May 1935.

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

EXTREMES: Period of record (1932-35): Maximum discharge, 215,000 ft³/s (6,088.8 m³/s) June 14, 1935, gage height, 30.20 ft (9.20 m); no flow most of the time.

REMARKS: Records fair. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	252	262	272	118	124	127	2480	24500	43400	1900	983	985	75403
1933	1010	855	829	628	514	346	161	81.5	2.80	0	101	136	4664
1934	219	196	169	95.8	123	33.9	0	0	234	119	4.20	0	1194
1935	0	0	220	223	5020	-	-	-	-	-	-	-	-
MAX	1010	855	829	628	5020	346	2480	24500	43400	1900	983	985	75403
MIN	0	0	169	95.8	123	33.9	0	0	2.80	0	4.20	0	1194
MEAN	370	326	373	266	1445	169	880	8194	14546	673	363	374	27981
NO. OF MEAN	4	4	4	4	4	3	3	3	3	3	3	3	3
DISTR													
OF MEAN	1.3%	1.2%	1.3%	1.0%	5.2%	.6%	3.1%	29.3%	52.0%	2.4%	1.3%	1.3%	100%

RIO GRANDE BASIN

08453900 Maverick Canal at Mile 13 Diversions near Quemado, Texas

LOCATION: Lat 29°03'00", Long 100°39'40", Maverick County, 7.5 mi (12.1 km) north-northwest of Quemado, and 12.8 mi (20.6 km) below the canal intake on the Rio Grande.

PERIOD OF RECORD: July 1949 to December 1975.

GAGE: Water-stage recorders (graphic and digital) and cableway. Datum of gage not published.

AVERAGE DISCHARGE: 27 years, 857,748 ac-ft/yr (1,057.6 hm³/yr).

EXTREMES: Period of record (1949-75): Maximum discharge, 1,750 ft³/s (49.6 m³/s) August 30, 1973; no flow on several days in June, July, and November 1954.

REMARKS: Records good. Water from the Rio Grande is diverted into the Maverick Canal by the Maverick County Water Control and Improvement District No. 1 for power generation and irrigation use. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1949	-	-	-	-	-	-	77700	83400	82500	86100	82800	84900	-
1950	83000	76800	83200	81000	82200	86100	87800	88500	84500	87200	78300	85600	1009200
1951	89500	82500	90700	70900	78800	86800	85800	79500	77800	67500	72400	71900	954100
1952	69700	62400	60900	57700	62300	75300	93900	64100	47000	54300	55900	58600	762100
1953	63700	53000	64400	45400	39400	34400	46000	66300	76300	68300	58800	60900	676900
1954	61900	52700	52000	64100	80300	73400	19600	65700	80100	87500	74300	75500	787100
1955	73400	63600	63700	52200	65100	63800	66200	73000	64500	68300	66400	66500	786700
1956	65300	58900	57500	51100	32400	49800	45700	53000	56400	57100	57200	59400	663500
1957	62700	53000	62200	57400	60700	66600	67900	70200	69400	76300	74100	76100	796600
1958	77900	70500	73800	65000	72000	72000	77800	78800	73700	73200	78300	83400	896400
1959	81200	72400	75300	74000	79600	76200	83900	84900	80600	84700	81700	78100	952600
1960	73900	76500	80600	71800	74500	73100	81200	86700	80900	82500	81600	87900	951200
1961	88200	80300	86300	73300	79000	88900	90700	91200	88400	89900	85100	86100	1027400
1962	86000	77000	81200	74100	70600	79500	86400	73600	83000	89600	85700	88500	975200
1963	82500	69700	70900	66500	85000	84600	82300	91400	89000	83500	78500	80400	964300
1964	76400	72100	74000	64200	64600	83200	70100	79000	76500	88800	83500	84600	917000
1965	79700	76900	80200	76000	82900	83900	80700	83600	85300	86700	82300	82600	980800
1966	81300	71800	73400	66200	82300	83000	82800	88400	87800	91600	82500	82200	973300
1967	81600	72800	76800	71800	66100	79600	88400	88000	82600	84200	82100	81400	955400
1968	77700	65800	66900	74800	83200	70300	69600	86600	86300	88600	90000	89200	949000
1969	73000	58800	62500	62700	63300	49500	63000	68100	66500	79200	76300	81500	804400
1970	79800	58600	51200	51600	66700	90500	74000	60300	59700	31900	41400	40900	706600
1971	50100	86800	57300	74400	82900	82100	75900	50100	33000	22200	22500	23500	660800
1972	27700	27300	35100	40700	40500	31200	35800	36700	46500	66800	45400	25000	458700
1973	25600	54800	27700	79700	81700	84000	81800	97100	89800	86800	23900	26300	759200
1974	27800	29700	79300	69300	90000	84300	86900	88400	85400	94100	92500	93400	921100
1975	93200	61300	91400	88500	91400	79300	84100	93600	87000	81500	76800	33300	961400
HAX	93200	86800	91400	88500	91400	90500	93900	97100	89800	94100	92500	93400	1027400
MIN	25600	27300	27700	40700	39400	31200	19600	36700	33000	22200	22500	23500	458700
MEAN	70481	64846	68404	66323	72212	73515	73556	76674	74833	76237	70752	69915	857748
NO.	26	26	26	26	26	26	27	27	27	27	27	27	26
DISTR OF MEAN	8.2%	7.6%	8.0%	7.7%	8.4%	8.6%	8.6%	8.9%	8.7%	8.9%	8.2%	8.2%	100%

RIO GRANDE BASIN

08454000 Maverick Canal Extension below Power Plant near Eagle Pass, Texas

LOCATION: Lat 28°49'50", long 100°32'40", Maverick County, 9.0 mi (14.5 km) north-northwest of Eagle Pass, and 1.0 mi (1.6 km) below the heading of this canal extension.

PERIOD OF RECORD: January 1939 to December 1975.

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

AVERAGE DISCHARGE: 37 years, 171,826 ac-ft/yr (211.9 hm³/yr).

EXTREMES: Period of record (1939-75): Maximum discharge, 580 ft³/s (16.4 m³/s) July 25, 1964; no flow at times.

REMARKS: Records good. The purpose of this gage is to measure the amount of water transmitted for irrigation. The difference of flows between this station and the Maverick Canal at Mile 13 (station 08453900) represents the flow diverted to the Maverick Power Plant. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1939	2140	2120	1150	4450	2840	5300	5290	3480	4600	5130	4170	4280	44950
1940	3840	3680	5080	3430	3030	4170	4510	4430	4850	5740	5330	6230	54320
1941	5220	2720	4230	4540	3010	3750	6000	6030	5470	8130	10470	10400	69970
1942	10000	7870	9220	8320	8380	9520	8200	8880	6750	9730	9590	10300	106760
1943	10200	8810	9610	10300	9690	7410	8340	7980	8530	9180	8900	10400	109350
1944	10600	10600	9900	9150	8480	6940	8900	7980	7440	9600	10700	8130	108420
1945	9060	7500	8310	7330	7660	8020	9550	8350	8580	7840	11500	11700	105400
1946	9880	9590	9940	7660	4530	6070	9170	10100	8410	9360	10100	10600	105410
1947	8260	9390	9270	9670	7480	9070	11900	9820	10800	11800	9590	9060	116110
1948	10600	9180	12100	12200	10900	10600	10600	13100	8900	10200	10100	11600	130080
1949	10300	8630	8810	9080	6940	9440	14100	9190	10200	9700	11600	13800	121790
1950	12000	12700	16400	16400	12000	11400	15200	12800	12900	16900	17900	20200	176800
1951	19800	18200	19100	19000	13900	16200	24300	19100	14500	16200	16800	18300	215400
1952	18700	18000	19800	20200	16400	18500	22800	20300	18300	21800	20000	18500	233300
1953	18500	17100	18800	22100	21800	20000	18900	17200	11600	18300	16300	16400	217000
1954	15500	13600	20400	15100	18300	15400	11700	17400	17900	17400	17000	18600	198300
1955	18900	16800	22500	22200	20200	26600	19000	16600	14800	17400	14700	15000	224700
1956	15800	16100	21300	21000	21700	23500	21200	21400	14500	19800	18100	18300	232700
1957	15600	10800	13900	14500	8950	13700	27100	24100	14800	8500	8610	9740	170300
1958	6040	6640	8200	16100	13100	15400	20000	17400	9650	7120	8270	10300	138220
1959	11400	8960	16400	15600	13100	16700	18600	16500	15200	15000	13200	15900	176560
1960	15000	13300	16900	20100	18700	23700	17800	15700	16200	12800	9250	9950	189400
1961	10300	7670	17400	18700	13700	16700	20000	15200	16800	17500	14700	16000	184670
1962	16800	17500	21500	17700	19400	21600	25000	23800	19000	20300	18500	15800	236900
1963	16200	16900	23300	17800	18300	24600	27700	27400	20700	19500	15500	14900	242800
1964	16600	17700	22100	24800	19200	27100	32300	23300	18000	13600	17700	18300	250700
1965	17500	17000	22200	20800	12600	23000	31900	29800	22600	16600	16600	6800	237400
1966	8810	13000	21300	17200	7530	23000	26400	21600	8610	18600	20100	17700	203850
1967	17600	18000	20100	15400	27700	29700	30700	27000	11100	13600	13400	13600	237900
1968	13300	12800	11500	15100	12400	30200	22400	23800	11100	9860	14900	10000	187360
1969	14800	10800	20000	21800	15600	27600	26000	17500	7450	9820	6240	4230	181840
1970	6400	7840	11500	20400	13400	17100	22000	15800	15500	12600	18800	14800	176140
1971	18200	18000	22500	25900	28200	21000	15600	11000	11300	7840	13900	15200	208640
1972	16200	13400	19500	25100	18000	18400	23400	13500	15800	16500	16400	16800	213000
1973	11700	8120	13100	20600	25900	18400	9650	18500	9920	4700	7840	16700	165130
1974	17200	11800	13100	22600	17000	25000	28800	19600	7570	13600	8380	12000	196650
1975	8230	8620	23400	16500	19600	15500	19100	24300	11900	14400	13600	14200	189350
MAX	19800	18200	23400	25900	28200	30200	32300	29800	22600	21800	20100	20200	250700
MIN	2140	2120	1150	3430	2840	3750	4510	3480	4600	4700	4170	4230	44950
MEAN	12626	11661	15238	15914	14044	16765	18219	16215	12222	12882	12939	13101	171826
NO.	37	37	37	37	37	37	37	37	37	37	37	37	37
DISTR													
OF MEAN	7.3%	6.8%	8.9%	9.3%	8.2%	9.8%	10.6%	9.4%	7.1%	7.5%	7.5%	7.6%	100%

RIO GRANDE BASIN

08454700 Rio Grande below Maverick Dam near Dal Rio, Texas

LOCATION: Lat 29°07'54", Long 100°43'41", Kinney County, 4.7 mi (7.6 km) downstream from the Maverick County Water Control and Improvement District No. 1 Diversion Dam, and 716.7 mi (1,153.2 km) downstream from the American Dam.

DRAINAGE AREA: 127,664 mi² (330,649.8 km²).

PERIOD OF RECORD: January 1954 to March 1965 (many months missing).

GAGE: Water-stage recorder and gravity well. Datum of gage is 804.79 ft (245.30 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 10 years, 288,831 ac-ft/yr (356.1 hm³/yr).

EXTREMES: Period of record (1956-65): Minimum discharge, 1.8 ft³/s (0.05 m³/s) April 14 and 15, 1962. There are no facilities for measuring high flows at this station.

REMARKS: Low flow records good. Irrigation diversions 5.9 mi (9.5 km) upstream largely control the flow at this station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1956	21010	19720	11420	2480	7630	6170	1360	13220	20250	-	14660	9910	-
1957	7570	29920	13150	-	-	-	36600	46770	43170	-	49570	32010	-
1958	26400	-	24700	9190	-	-	-	32600	-	-	-	96660	-
1959	74210	47400	41600	32830	-	-	-	-	-	-	58100	55820	-
1960	74330	89080	74210	31600	11960	22050	-	-	-	-	60800	69630	-
1961	60880	45270	30900	5510	-	-	-	-	-	-	33500	29780	-
1962	27610	17660	8930	10060	8620	-	-	12650	-	-	37500	27880	-
1963	16060	10460	6180	8150	-	-	-	-	-	-	6500	8750	-
1964	-	6100	8290	-	-	-	9570	-	-	-	48900	41310	-
1965	43410	35000	27810	-	-	-	-	-	-	-	-	-	-
MAX	74330	89080	74210	32830	11960	22050	36600	46770	43170	-	60800	96660	-
MIN	7570	6100	6180	2480	7630	6170	1360	12650	20250	-	6500	8750	-
MEAN	39053	33401	24719	14260	9403	14110	15843	26310	31710	-	38716	41306	288831
NO. OF MEAN	9	9	10	7	3	2	3	4	2	0	8	9	0
DISTR OF MEAN	13.5%	11.6%	6.6%	4.9%	3.3%	4.9%	5.5%	9.1%	11.0%	.0%	13.4%	14.3%	100%

RIO GRANDE BASIN

08455000 Pinto Creek near Del Rio, Texas

LOCATION: Lat 29°08'45", long 100°43'05", Kinney County, 19.0 mi (30.6 km) southeast of Del Rio, and 1.6 mi (2.6 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 249 mi² (644.9 km²).

PERIOD OF RECORD: December 1928 to December 1975.

GAGE: Water-stage recorder, cableway, and concrete control. Datum of gage is 813.68 ft (248.0 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 48 years, 17,043 ac-ft/yr (21.0 hm³/yr).

EXTREMES: Period of record (1928-75): Maximum discharge, 186,000 ft³/s (5,267.5 m³/s) June 24, 1948, gage height, 32.0 ft (9.8 m); no flow at times.

REMARKS: Records good. There are several small diversions above the station for irrigation use. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1928	-	-	-	-	-	-	-	-	-	-	-	98.0	-
1929	94.0	61.0	52.0	43.0	4650	43.0	4490	15.0	481	0	0	465	10394
1930	12.0	8.30	4.30	750	28.0	405	0	0	0	4000	421	615	6244
1931	799	750	775	1290	1830	1170	1020	744	582	380	456	732	10528
1932	523	444	383	227	290	12.3	1840	48700	17300	2210	2150	2180	76259
1933	2110	1860	1600	1020	992	1130	2050	457	197	266	190	180	12052
1934	273	194	156	148	856	0	0	0	1880	3040	6.90	0	6554
1935	0	13.9	2500	3600	20500	30000	2060	983	9980	1920	1500	1690	74747
1936	1450	1190	1040	705	780	2170	638	154	448	647	878	936	11036
1937	723	445	413	175	121	149	66.4	0	0	0	0	559	2651
1938	307	429	471	2250	569	136	30000	608	467	480	524	501	36742
1939	419	320	777	202	1660	615	45.0	1380	114	206	179	262	6179
1940	336	366	462	382	1840	654	196	651	81.5	173	78.7	106	5326
1941	100	132	170	117	166	20.4	11800	94.8	160	345	89.5	131	13326
1942	195	172	84.5	182	1390	0	0	97.0	692	0	0	0	2813
1943	115	152	130	2360	2940	612	0	0	2310	863	154	150	9786
1944	435	1030	475	339	2150	1150	68.4	5.60	77.2	458	101	154	6443
1945	192	185	356	135	94.0	70.2	0	0	0	293	0	0	1325
1946	0	0	0	304	2800	2190	12.3	0	0	0	0	0	5306
1947	0	0	0	69.0	4010	4170	1650	477	176	98.4	256	289	11195
1948	241	221	147	158	138	56700	4600	90.1	46.8	208	46.6	52.2	62649
1949	82.3	5760	830	1550	887	807	535	1290	677	630	611	812	14471
1950	735	509	404	217	144	69.4	0	0	72.4	7.90	0	0	2283
1951	0	0	159	16.9	601	8.30	0	0	35.9	2070	39.1	0	2930
1952	0	19.4	2.60	49.2	2010	27.8	49.4	0	0	0	0	0	2158
1953	0	0	38.9	0	0	0	0	1460	5610	16.7	0	0	7126
1954	0	0	0	52.8	1050	12600	281	73.8	243	479	386	362	15528
1955	379	241	187	133	1980	1440	64.9	483	4730	57.7	134	218	10048
1956	249	210	124	49.6	9.9	0	3.60	0	0	8940	0	0	9586
1957	0	0	419	27100	29400	3670	539	223	3670	2040	807	836	68704
1958	1170	1230	1950	1050	6560	24600	2500	1490	3060	2410	2350	2470	50840
1959	2270	2010	1980	1830	3230	20600	3730	2620	2250	2660	2590	2460	48230
1960	2260	1756	1500	1000	499	135	84.1	97.0	44.0	682	523	905	9479
1961	1030	840	604	360	223	7640	321	141	99.2	277	368	435	12338
1962	436	303	270	529	345	705	135	0	0	1.00	4.60	24.6	2753
1963	36.5	226	63.7	53.8	1950	250	1.60	0	0	0	0	0	2582
1964	0	0	404	309	912	9.5	0	16.3	48960	666	323	851	52451
1965	1020	837	575	2290	602	2030	270	101	224	178	322	634	9083
1966	598	451	282	5240	1000	564	82.9	45.4	2920	171	88.9	216	11659
1967	510	317	223	159	52.4	28.4	6.70	7.90	785	472	257	189	3007
1968	156	310	308	240	111	657	38.1	13.1	19.2	21.8	23.8	31.3	1929
1969	27.6	68.0	27.4	5050	413	31.3	103	1860	59.5	4020	548	455	12663
1970	521	594	938	550	349	132	58.7	72.6	2470	296	166	110	6257
1971	95.6	66.2	67.4	140	15.5	3600	384	14620	2100	2630	2090	2100	27909
1972	1620	992	681	1020	1050	585	290	5760	1030	1130	961	1260	16379
1973	1160	782	467	272	98.8	1380	1470	605	939	3930	1740	1560	14404
1974	1460	1240	1210	617	687	105	460	222	633	450	481	412	8177
1975	407	551	348	411	517	277	3010	224	233	261	288	410	6937
MAX	2270	5760	2500	27100	29400	56700	30000	48700	48960	8940	2590	2470	76259
MIN	0	0	0	0	0	0	0	0	0	0	0	0	1325
MEAN	522	580	512	1378	2181	3902	1596	1827	2469	1066	471	539	17043
NO.	47	47	47	47	47	47	47	47	47	47	47	48	47
DISTR													
OF MEAN	3.1%	3.4%	3.0%	8.1%	12.8%	22.9%	9.4%	10.7%	14.5%	6.3%	2.8%	3.2%	100%

RIO GRANDE BASIN

08455700 Rio Grande below Maverick Dam near Quemado, Texas

LOCATION: Lat 29°02'58", long 100°39'48", Maverick County, 7.5 mi (12.1 km) north-northwest of Quemado, 12.8 mi (20.6 km) downstream from the Maverick County Water Control and Improvement District No. 1 Diversion Dam, and 725.5 mi (1,167.3 km) downstream from the American Dam.

DRAINAGE AREA: 125,580 mi² (325,252.2 km²).

PERIOD OF RECORD: January 1965 to December 1975.

GAGE: Water-stage recorder, cableway, control weir, and gravity well. Datum of gage is 769.00 ft (234.39 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 11 years, 1,007,299 ac-ft/yr (1,242.0 hm³/yr).

EXTREMES: Period of record (1965-75): Maximum discharge, 79,800 ft³/s (2,259.9 m³/s) July 18, 1975, gage height, 25.20 ft (7.68 m); minimum discharge, 3.5 ft³/s (0.099 m³/s) March 9, 1969, gage height, 0.16 ft (0.05 m).

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1965	57980	41460	36090	26110	71080	291500	19050	47720	73260	44480	23910	22250	754890
1966	13080	7250	5050	107200	55330	91070	52680	182700	680400	169600	45870	30180	1440410
1967	26800	19400	19020	12860	7370	40380	124700	70680	214200	96640	40040	27510	701600
1968	22860	7960	7480	32450	35270	4050	19330	12100	15980	13400	18830	18280	207990
1969	5240	5790	5870	27780	6570	1670	2320	21990	13680	109900	13340	7490	221640
1970	6910	124600	68730	5030	48850	164300	80940	11860	60340	40670	18860	11200	642290
1971	54220	401300	11170	14200	111000	156200	23480	164800	52680	48520	32340	25360	1095270
1972	19770	13320	6320	8460	12600	6970	9220	71500	74200	137500	13870	10260	383990
1973	7850	26870	6540	8790	200500	12990	19440	107000	226200	182900	22280	14650	835510
1974	12150	29210	98480	6510	160200	46660	5890	35050	1264000	831300	499100	181100	3169650
1975	59230	144400	181500	293600	111200	13800	311800	178300	79910	119800	117500	16000	1627040
MAX	59230	401300	181500	293600	200500	291500	311800	182700	1264000	831300	499100	181100	3169650
MIN	5240	5790	5050	5030	6570	1670	2320	11860	13680	13400	13340	7490	207990
MEAN	26190	74687	40568	49363	74543	75372	60805	82155	250441	163155	76904	33116	1007299
NO.	11	11	11	11	11	11	11	11	11	11	11	11	11
DISTR													
OF MEAN	2.6%	7.4%	9.0%	4.9%	7.4%	7.5%	6.0%	8.2%	24.9%	16.2%	7.6%	3.3%	100%

RIO GRANDE BASIN

08455800 Rio Grande near Jimenez, Coahuila

LOCATION: Lat 26°04'00", Long 100°39'49", Maverick County, 5.0 mi (8.0 km) below Jimenez, Coahuila, 26.7 mi (43.0 km) above Eagle Pass, and 728.0 mi (1,171.4 km) downstream from the American Dam.

DRAINAGE AREA: 125,590 mi² (325,278.1 km²).

PERIOD OF RECORD: October 1952 to February 1953, April to June 1953, November 1953 to March 1954.

GAGE: Water-stage recorder. Datum of gage is 755.86 ft (230.39 m) above mean sea level, U.S.C. & G.S. datum.

REMARKS: Records good. This station was installed as a temporary gage for use in a loss and gain study on the Rio Grande between Jimenez and the San Antonio Crossing station during May 9-23, 1952. Operation was resumed in October 1952 to measure low and medium flows through March 1954. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	-	-	-	-	-	-	-	2960	1390	2510	-
1953	3010	3300	-	871	528	234	-	-	-	-	2690	3610	-
1954	4890	2650	1900	-	-	-	-	-	-	-	-	-	-
MAX	4890	3300	1900	871	528	234	-	-	-	2960	2690	3610	-
MIN	3010	2650	1900	871	528	234	-	-	-	2960	1390	2510	-
MEAN	3950	2975	1900	871	528	234	-	-	-	2960	2040	3060	18518
NO.	2	2	1	1	1	1	0	0	0	1	2	2	0
DISTR													
OF MEAN	21.3%	16.1%	10.3%	4.7%	2.9%	1.3%	.0%	.0%	.0%	16.0%	11.0%	16.5%	100%

RIO GRANDE BASIN

08456500 Las Moras Creek near Eagle Pass, Texas

LOCATION: Lat 29°00'22", long 100°38'11", Maverick County, 0.1 mi (0.16 km) above the U.S. Highway 277 bridge, and 0.6 mi (1.0 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 168 mi² (429.9 km²).

PERIOD OF RECORD: January 1932 to December 1935.

GAGE: Water-stage recorder. Datum of gage is 783.76 ft (238.89 m) above mean sea level, U.S.C. & G.S. datum.

EXTREMES: Period of record (1932-35): Maximum discharge, 8,860 ft³/s (250.9 m³/s) August 31, 1932, gage height, 7.07 ft (2.16 m); no flow at times.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	688	700	730	335	638	0	6710	9490	20260	943	131	141	40766
1933	118	95.4	122	126	151	213	0	4.00	0	0	0	0	829
1934	106	161	204	100	655	147	49.6	34.9	1110	201	59.5	30.7	2859
1935	30.7	27.8	50.6	1380	9290	13200	2850	1480	3970	2030	2000	1760	38069
MAX	688	700	730	1380	9290	13200	6710	9490	20260	2030	2000	1760	40766
MIN	30.7	27.8	50.6	100	151	0	0	4.00	0	0	0	0	829
MEAN	236	246	277	485	2684	3390	2402	2752	6335	794	548	483	20632
NO.	4	4	4	4	4	4	4	4	4	4	4	4	4
DISTR													
OF MEAN	1.1%	1.2%	1.3%	2.4%	13.0%	16.4%	11.6%	13.3%	30.7%	3.8%	2.7%	2.3%	100%

RIO GRANDE BASIN

08458000 Rio Grande at Eagle Pass, Texas

LOCATION: Lat 28°42'50", long 100°30'25", Maverick County, 0.6 mi (0.8 km) upstream from the International Bridge between Eagle Pass and Piedras Negras, Coahuila, and 757.0 mi (1,218.0 km) downstream from the American Dam.

DRAINAGE AREA: 127,312 mi² (329,738.1 km²).

PERIOD OF RECORD: May 1900 to April 1916, September 1916 to September 1923 (scattered record), December 1923 to December 1975.

GAGE: Water-stage recorder, cableway, and gravity well. Datum of gage is 682.91 ft (208.15 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 75 years (1900-20, 1922-75), 2,947,140 ac-ft/yr (3,633.8 hm³/yr).

EXTREMES: Period of record (1900-20, 1922-75): Maximum discharge, 064,100 ft³/s (27,303.3 m³/s) June 29, 1954, gage height, 53.51 ft (16.31 m); minimum discharge, 24.4 ft³/s (0.69 m³/s) June 22, 1953, gage height, 0.07 ft (0.02 m).

Maximum known discharge, 1,236,000 ft³/s (35,003.5 m³/s) occurred in June 1865, gage height, 56.00 ft (17.1 m), from well-authenticated information.

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	-	-	563000	354000	510000	774000	796000	524000	328000	253000	-
1901	188000	147000	140000	115000	191000	201000	146000	261000	333000	212000	217000	138000	2289000
1902	126000	105000	98300	91000	208000	98100	375000	429000	770000	190000	142000	179000	2811400
1903	147000	153000	154000	129000	239000	562000	379000	223000	327000	323000	148000	134000	2918000
1904	123000	106000	102000	93800	133000	350000	190000	113000	2028000	1150000	410000	236000	5034800
1905	212000	179000	399000	356000	488000	1368000	835000	891000	688000	581000	414000	442000	6853000
1906	258000	328000	235000	154000	302000	394000	1010000	1838000	911000	381000	272000	338000	6421000
1907	275000	224000	189000	182000	290000	456000	486000	317000	689000	344000	531000	513000	4496000
1908	250000	174000	148000	201000	344000	191000	250000	746000	660000	182000	133000	150000	3414000
1909	137000	114000	113000	97800	187000	310000	615000	579000	527000	209000	137000	121000	3146800
1910	186000	117000	118000	184000	291000	198000	212000	90000	388000	176000	94800	87600	2142400
1911	78100	102000	108000	161000	319000	321000	493000	424000	353000	447000	300000	198000	3304100
1912	161000	123000	92100	147000	184000	622000	224000	359000	889000	332000	130000	142000	3405100
1913	119000	143000	174000	121000	299000	317000	383000	145000	308000	236000	179000	221000	2445000
1914	140100	114000	115800	-	677000	1092000	-	-	866300	1151000	503100	329700	-
1915	288300	221500	219900	360900	332700	236800	215500	222100	497500	367300	191500	174700	3328700
1916	153700	129100	196300	185000	-	-	-	-	662600	-	-	-	-
1917	-	-	-	-	-	-	-	-	1258000	625300	-	-	-
1918	-	-	-	-	-	-	-	-	-	327100	-	-	-
1919	-	-	-	-	-	-	-	-	2751000	1092000	-	-	-
1920	-	-	-	-	-	-	-	1284000	2221000	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	1876000	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	1076000	-	-	290000	-
1924	365000	200000	196000	170000	227000	194000	181000	150000	389000	332000	189000	178000	2771000
1925	170000	135000	167000	180000	918100	367000	379700	947000	932800	467100	249000	209000	5121700
1926	205000	166000	175000	219000	237000	280000	204000	444000	478000	503000	248000	234000	3393000
1927	210000	194000	172000	170000	144000	182000	191000	198000	272000	319000	179000	196000	2427000
1928	194000	171000	149000	131000	286000	188000	180000	448000	417200	256000	240000	231000	2891200
1929	197000	162000	167000	136000	196000	169000	218000	227000	243000	190000	169000	174000	2248000
1930	146000	106000	95900	98200	77500	220000	127000	250000	80900	654000	249000	187000	2291500
1931	166000	187000	182260	219000	353000	231000	245500	247360	145130	173280	155760	172250	2497540
1932	160480	151640	150410	105030	184760	113340	165700	321700	3078900	1658300	486390	369760	6946410
1933	322240	254250	247440	194180	185680	186960	229490	176690	710510	440950	196880	175320	3320590
1934	181000	157000	162000	144000	175000	189000	143000	139000	166000	121000	109000	112000	1798000
1935	116000	99200	108000	118000	523000	1005000	267000	207000	1285000	384000	230000	180000	4522200
1936	173000	143000	161000	121000	211000	287000	249000	167000	762000	376000	180000	181000	3011000
1937	158000	134000	136000	99600	117000	274000	125000	136000	261000	284000	139000	166000	2029600
1938	189000	143000	128000	98100	102000	169000	1255000	493000	1071000	383000	186000	165000	4382100
1939	156000	145000	133000	92100	155000	117000	138000	381000	138000	165000	160000	136000	1916100
1940	131490	121870	106060	133350	201430	184680	170500	272290	182500	184860	121810	105620	1916460
1941	104400	122000	113800	170700	407600	359700	414600	417100	811400	1680300	512800	294500	5408900
1942	225800	181400	169800	139900	349900	331000	264100	538200	1541400	573300	320100	225800	4860700
1943	196500	155700	155800	126500	204300	195800	326000	123500	108100	270100	148800	143400	2154500
1944	151000	122600	125800	89790	116300	131300	92890	156000	531800	298700	145900	132100	2094180
1945	151100	122200	111300	114800	70210	48710	407600	90440	69920	525300	163100	125700	2000380
1946	136900	110500	109200	138100	200500	345000	184900	86400	313400	465200	157000	138600	2385700
1947	161900	136200	122400	77780	152500	161000	89040	170600	355500	108100	112800	125700	1773520
1948	96060	97510	93510	60250	72640	915900	629800	132200	163800	158700	138800	114600	2673770
1949	113700	398200	211100	270700	279600	241200	240700	519100	346300	311200	200100	163300	3295200

RIO GRANDE BASIN

08458000 Rio Grande at Eagle Pass, Texas--Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	168000	135400	122800	86000	104100	143300	265300	201000	273900	200900	100400	100800	1901900
1951	90660	89260	102500	60230	173400	156300	79180	71070	86170	65490	64870	56880	1096010
1952	57340	49310	40230	48920	135100	69410	333600	50080	27050	31560	35630	41000	919230
1953	42690	33320	48910	14770	8430	4530	29300	91980	287200	59370	40790	46820	708110
1954	46990	41470	26970	219000	209500	2794000	277900	262200	178000	197400	90980	79480	4423890
1955	73550	59620	50350	30480	130000	103800	163900	275400	399900	233300	99190	82530	1702020
1956	72960	69720	46900	30440	31210	22620	17380	35730	57000	150200	48050	49310	631520
1957	55250	76660	58070	414600	1108000	332200	75280	90250	113500	227700	125000	102700	2779210
1958	106700	106900	106200	61380	180700	349200	104000	98310	940800	1768000	451200	245100	4518490
1959	199100	148000	125900	107400	166100	223300	263300	179700	258500	363600	145200	123700	2303800
1960	136100	159100	135600	94500	72320	61060	269000	262300	252800	251500	158500	166100	2018880
1961	155700	135000	98900	59680	91210	748200	292100	211200	144300	142000	115600	106400	2300290
1962	104700	81590	69370	77020	65790	92810	106300	62770	173700	253100	113300	101000	1301450
1963	87020	69760	52600	58610	112800	111400	82030	112300	147600	90060	64810	74670	1063660
1964	72400	64740	59280	94780	76460	118100	41510	94720	1736000	277900	142900	118700	2897490
1965	117300	103200	86180	78800	167700	344400	62060	104700	126500	119600	88630	94460	1493530
1966	84910	65140	58390	172600	147500	151200	109200	245700	791000	258300	109600	97930	2291470
1967	94830	71530	71520	62800	37640	77060	172900	124800	339200	180300	112800	94590	1439970
1968	93800	64900	65430	87920	123500	46060	92000	73560	92660	99700	94580	105000	1039310
1969	66360	54240	42620	89310	62620	19250	35650	98760	80700	173700	92700	92890	908820
1970	88620	167200	114000	34860	93150	235700	119800	56860	128900	80700	48560	44470	1212820
1971	81020	448200	45300	57660	144800	246800	97250	261800	90470	124400	60410	49310	1707420
1972	43500	35600	27040	24030	36190	22590	26100	121300	111600	182500	49000	26200	705650
1973	27490	75120	20900	63790	230200	67930	88560	163400	294200	310800	46790	30225	1419405
1974	26190	40370	157700	46850	206800	95710	52720	88640	1307000	891700	570900	268600	3753180
1975	151400	188500	236400	351800	191600	89900	555100	276200	189500	202700	193500	41950	2668550
MAX	365000	448200	399000	414600	1108000	2794000	1255000	1838000	3078900	1768000	570900	513000	6946410
MIN	26190	33320	20900	14770	8430	4530	17380	35730	27050	31560	35630	26200	631520
MEAN	143688	135731	125312	130206	225023	329860	254529	291888	581949	381247	187964	159543	2947140
NO.	68	68	68	67	68	69	67	68	73	71	68	69	66
DISTR													
OF MEAN	4.9%	4.6%	4.3%	4.4%	7.6%	11.2%	8.6%	9.9%	19.7%	12.9%	6.4%	5.4%	100%

RIO GRANDE BASIN

08458700 Rio Grande at San Antonio Crossing near El Indio, Texas

LOCATION: Lat 28°20'40", long 100°18'35", Maverick County, 11.5 mi (18.5 km) south of El Indio, 1.9 mi (3.0 km) upstream from Tovar Creek, and 793.0 mi (1,275.9 km) downstream from the American Dam.

DRAINAGE AREA: 129,225 mi² (334,692.8 km²).

PERIOD OF RECORD: March 1952 to May 1954 (many months missing), June 1955 to December 1975.

GAGE: Water-stage recorders (graphic and digital), cableway, and concrete control. Datum of gage is 580.00 ft (176.78 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 24 years, 2,007,449 ac-ft/yr (2,475.2 hm³/yr).

EXTREMES: Period of record (1952-54, 1955-75): Maximum discharge, 912,000 ft³/s (25,827.8 m³/s) June 1954, gage height, 44.31 ft (13.5 m); minimum discharge, 54.4 ft³/s (1.54 m³/s), gage height, 1.96 ft (0.60 m).

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	-	-	52050	-	-	-	-	-	-	-	43970	53190	-
1953	53730	43270	60150	26970	18140	8260	28130	-	-	71220	51520	58690	-
1954	60500	49300	38100	211000	230000	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	112000	176000	-	369000	226000	98600	84200	-
1956	81600	72600	60600	42600	50500	35300	27400	44200	81200	141000	59000	60800	756800
1957	63200	77000	69100	433000	1054000	309000	83900	98700	121000	212000	121000	103000	2744900
1958	106000	103000	101000	68400	182000	335000	109000	108000	871000	1741000	454000	263000	4441400
1959	219000	165000	141000	120000	178000	232000	278000	193000	275000	373000	162000	148000	2484000
1960	163000	174000	152000	106000	85700	73200	299000	274000	268000	301000	167000	179000	2241900
1961	171000	148000	113000	81000	105000	737000	312000	228000	162000	160000	136000	123000	2476000
1962	117400	92310	83290	93630	79150	108700	120800	76180	188800	271800	126000	112000	1470060
1963	99310	80850	66590	75270	132000	131900	97970	123400	168800	129000	80110	89770	1274970
1964	84280	87590	76780	119000	103900	140000	54180	101700	188900	294000	166000	147300	3263730
1965	135400	118400	102300	100100	222400	368900	75050	116600	152100	135000	110900	111100	1748250
1966	100800	85410	81960	174500	223200	154700	115200	249200	775800	265200	121800	103500	2451270
1967	105500	80990	88270	82400	52930	84770	179700	126900	339600	196700	123400	111500	1572660
1968	108100	79220	78400	102800	155900	60460	105500	82000	97590	105000	97250	104200	1176420
1969	73530	59890	55850	105600	80590	29810	44500	131700	83330	182500	96560	96320	1040180
1970	91780	165100	126900	42730	101400	223600	134200	66820	131400	92140	58570	56060	1290700
1971	87030	444900	60240	67500	144900	353800	107900	294700	119300	171200	89790	75040	2016300
1972	63130	52150	40480	37390	50720	35400	37230	133600	121900	204800	68900	50740	896440
1973	47180	91870	37440	75980	237800	81220	103600	171200	316000	333500	68000	49820	1613610
1974	48630	51340	180400	63040	226300	109700	68260	100100	1296000	863000	552900	276000	3835670
1975	155400	199700	248100	361600	219000	114500	551600	289000	195600	202100	207700	60530	2804830
MAX	219000	444900	248100	433000	1054000	737000	551600	294700	1889000	1741000	552900	276000	4441400
MIN	47180	43270	37440	26970	18140	8260	27400	44200	81200	71220	43970	49820	756800
MEAN	101614	114631	91913	117750	178797	174510	141324	150450	382020	303235	141781	109424	2007449
NO.	22	22	23	22	22	22	22	20	21	22	23	23	20
DISTR													
OF MEAN	5.1%	5.7%	4.6%	5.9%	8.9%	8.7%	7.0%	7.5%	19.0%	15.1%	7.1%	5.5%	100%

RIO GRANDE BASIN

08458800 Rio Grande at Palafox near Laredo, Texas

LOCATION: Lat 27°47'55", long 99°52'40", Webb County, 13.1 mi (21.1 km) upstream from Santo Tomas Creek, and 845.8 mi (1,360.9 km) downstream from the American Dam.

DRAINAGE AREA: 131,538 mi² (340,683.4 km²).

PERIOD OF RECORD: August 1959 to December 1975.

GAGE: Water-stage recorder, cableway, and gravity well. Datum of gage is 436.02 ft (132.90 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 17 years, 2,028,358 ac-ft/yr (2,501.0 hm³/yr).

EXTREMES: Period of record (1959-75): Maximum discharge, 214,000 ft³/s (6,060.5 m³/s) September 25, 1964, gage height, 42.06 ft (12.82 m); minimum discharge, 314 ft³/s (8.9 m³/s) June 30 and July 1, 1972, gage height, -0.66 ft (-0.20 m).

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1959	-	-	-	-	-	-	-	182000	280100	371800	165100	143400	-
1960	150500	165800	149600	108100	90140	69300	288100	262700	280100	393900	178200	175100	2311540
1961	167000	143500	110600	85740	108800	665700	321900	221700	157800	153200	135300	123100	2394340
1962	118100	90940	80920	92930	73720	101600	114900	79010	181300	257300	127100	112100	1429920
1963	97960	82120	65320	93340	136400	125600	99480	118500	166200	142000	79590	91720	1298230
1964	74090	85070	79350	106300	97480	139200	53700	133900	1811000	319400	165600	143100	3208140
1965	135000	122100	107000	94750	266700	367700	79030	111100	143000	130000	114800	110100	1781280
1966	99840	82090	78540	167400	270700	160800	120400	231600	810500	274800	120500	107300	2524470
1967	107500	82160	92280	93710	53060	78840	177800	156900	371000	202700	128000	108300	1652250
1968	107300	80060	81200	105300	160900	60100	103000	80220	110200	117400	100700	111000	1217380
1969	76480	61240	54360	97770	93730	25770	43110	167600	93810	201500	104300	102500	1122170
1970	94930	160500	138200	43890	116600	235300	144700	70520	144900	100000	56950	55710	1362200
1971	75800	455900	67200	69330	138800	750700	156700	360800	154000	313500	101200	80590	2724520
1972	66250	57120	42320	36520	60340	38620	30730	140500	117700	209000	67470	52320	920890
1973	50500	83190	38570	78640	230200	86970	107600	162600	323000	385900	75410	51080	1673660
1974	50490	48880	187000	62580	234700	111700	67130	109200	1251000	922200	601000	317100	3962980
1975	163800	197000	245200	356900	251300	132000	509000	294900	195200	196200	217700	65480	2824680
MAX	167000	455900	245200	356900	270700	750700	509000	360800	1811000	922200	601000	317100	3962980
MIN	50490	48880	38570	36520	53060	25770	30730	70520	93810	100000	56950	51080	920890
MEAN	102343	124854	101104	105825	148973	196869	151080	169632	387695	275929	149348	114706	2028358
NO.	16	16	16	16	16	16	16	17	17	17	17	17	16
DISTR OF MEAN	5.0%	6.2%	5.0%	5.2%	7.3%	9.7%	7.4%	8.4%	19.1%	13.6%	7.4%	5.7%	100%

RIO GRANDE BASIN

08459000 Rio Grande at Laredo, Texas

LOCATION: Lat 27°29'45", Long 99°29'30", Webb County, 1.1 mi (1.8 km) downstream from the International Bridge between Laredo and Nuevo Laredo, Tamaulipas, and 891.6 mi (1,434.6 km) downstream from the American Dam.

DRAINAGE AREA: 132,578 mi² (343,377.0 km²).

PERIOD OF RECORD: May 1900 to October 1914, September 1916 to July 1922 (scattered data), November 1922 to December 1975.

GAGE: Water-stage recorder and cableway. Datum of gage is 345.28 ft (105.24 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 74 years (1900-14, 1916-20, 1922-75), 3,161,274 ac-ft/yr (3,897.8 hm³/yr).

EXTREMES: Period of record (1900-14, 1916-20, 1922-75): Maximum discharge, 718,000 ft³/s (20,277.1 m³/s) June 30, 1954, gage height, 81.35 ft (18.70 m); no flow during several days in June and July 1953 and on July 24, 1956.

Maximum known discharge, 950,000 ft³/s (26,904.0 m³/s) in June 1865, gage height, 62.5 ft (19.05 m), from well-authenticated information.

REMARKS: Records good. The flow is largely regulated by Amistad Dam (station 08450800) since May 31, 1968. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	-	-	700100	490000	559000	855000	859600	562000	345000	281000	-
1901	188000	147000	141000	115000	202000	200000	147000	258000	333000	212000	224000	147000	2314000
1902	128000	105000	98000	96000	221000	98000	359000	431000	779000	220000	157000	179000	2871000
1903	154000	155000	157000	129000	281000	766400	479000	238000	481000	339000	151000	130000	3460400
1904	136000	126000	103000	190000	156000	286000	217000	113000	2123400	1122000	446000	326000	5346400
1905	197000	161000	364000	350000	492000	976300	947200	924000	740000	616000	415000	478000	6660500
1906	290000	316000	236000	162000	351000	376000	1000000	1710700	970600	407000	286000	331000	6436300
1907	293000	234000	191000	192000	325000	486000	521000	310000	678000	364000	514000	530000	4638000
1908	278000	177000	148000	343000	305000	181000	197000	740000	704000	198000	136000	130000	3537000
1909	142000	123000	144000	118000	203000	297000	600000	579000	524000	230000	140000	121000	3221000
1910	182000	118000	108000	202000	290000	190000	200000	93200	420800	208000	93000	90700	2195700
1911	79900	109000	117000	161000	342000	327000	523000	434000	328000	498000	325000	201000	3444900
1912	166000	121000	98300	168000	205000	817500	253000	360000	835000	357000	143000	174000	3697800
1913	131000	151000	208000	130000	266000	316000	189000	144000	311000	342000	222000	271000	2681000
1914	156000	121000	120000	-	932200	1426500	-	-	-	1288000	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	1019300	-	-	-	-
1917	-	-	-	-	-	-	-	-	1119300	742400	-	-	-
1918	-	-	-	-	-	-	-	-	-	658700	-	-	-
1919	-	-	-	-	-	-	-	-	3074400	1865600	-	-	-
1920	-	-	-	-	-	-	-	1293900	2422200	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	1704300	-	-	-	-	174000	167000	-
1923	156000	222000	181000	244000	139000	213000	198000	287000	1279200	397000	275000	248000	3839200
1924	352000	185000	176000	156000	214000	221000	169000	141000	418000	327000	179000	169000	2707000
1925	158000	125000	154000	152000	856200	496200	375800	883400	962000	445000	246000	202000	5055600
1926	196000	156000	163000	311600	304000	262000	220000	457000	505000	518000	243000	234000	3574600
1927	192000	197000	174000	163000	144000	211000	231000	174000	218000	364000	168000	174000	2410000
1928	178000	164000	144000	125000	276000	201000	169000	426000	561000	271000	239000	230000	2984000
1929	183870	142020	150550	118910	165160	135270	172170	223140	304170	215510	162490	181990	2175250
1930	135000	109410	95680	118710	114700	280310	128770	251830	87260	628170	260690	191270	2403800
1931	177570	182880	173260	169450	394290	236090	247810	236240	134330	167260	135710	159820	2414710
1932	153300	129930	125350	95640	199950	89190	166270	239500	2942700	1950900	570800	352680	7016210
1933	301550	237380	223020	188720	164850	157850	217150	175120	741430	498240	188070	164350	3257730
1934	178000	153000	159000	159000	174000	221000	159000	134000	172000	126000	122000	107000	1864000
1935	114000	99400	115000	122000	591000	1357000	323000	203000	1326000	432000	245000	209000	5136400
1936	186000	153000	186000	121000	227000	321000	355000	170000	924000	459000	191000	194000	3487000
1937	154000	134000	144000	103000	117000	306000	144000	127000	227000	300000	138000	164000	2058000
1938	195000	146000	133000	138000	113000	136000	1250000	563000	1036000	428000	193000	177000	4508000
1939	165000	147000	136000	103000	291000	145000	131000	399000	141000	175000	162000	138000	2133000
1940	139000	129400	119600	136200	314100	256800	212400	296800	201400	246700	128300	117800	2298500
1941	133100	133000	121300	145800	527400	397700	391100	437200	798400	1608000	532300	296400	5521700
1942	265900	208600	191300	171000	443000	360900	467700	492800	1555300	648100	335100	260300	5400000
1943	215200	165800	168100	142000	210800	280200	329700	135600	119800	289200	159300	154800	2370500
1944	166800	139600	131200	92900	145800	131000	83570	437900	601800	312500	160700	151700	2555470
1945	160900	134500	120300	187500	81540	46680	406200	93740	65840	705300	169400	137600	2309670
1946	140300	116200	107100	172200	314100	371500	205900	124300	329900	520900	176700	156200	2735300
1947	173800	144800	125000	77970	201800	278600	92780	199700	346700	125400	114100	130100	2010750
1948	102000	100800	97700	59530	68300	819500	585300	121500	295000	161300	145700	122700	2679330
1949	116100	423700	223400	316300	280800	335400	227600	534400	332800	313100	194200	171800	3469600

RIO GRANDE BASIN
08459000 Rio Grande at Laredo, Texas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	165100	131900	125400	86220	130500	175500	247100	196600	268800	205200	103800	101500	1937620
1951	98020	91440	103800	63040	287800	175300	70210	75590	114100	68060	72320	65060	1284740
1952	65960	55210	46500	50390	148400	84540	345600	56080	30900	31910	43110	52230	1010830
1953	54800	41050	68250	28300	33360	337	17470	187300	407800	76850	49350	52360	1017227
1954	55100	45770	30960	240800	285100	1994000	655500	284200	252500	250000	111100	105000	4310030
1955	97870	84340	57210	35480	134800	103000	187600	327900	388900	255200	120000	101700	1894000
1956	91720	72680	49360	36250	39430	18040	46220	36970	101400	165400	64760	64390	786640
1957	61190	70870	69180	464000	1351000	366700	70550	95140	169200	251300	136400	114800	3220330
1958	144000	126900	106700	65350	181700	303400	114700	96220	85500	1822000	488900	266400	4571770
1959	219200	174800	151600	129700	176200	224600	273000	177300	282700	389000	178300	151500	2527900
1960	160100	173100	153400	99310	91530	62020	286400	274800	292500	377200	196600	189100	2356060
1961	176600	147700	105800	76620	105500	648800	325000	230600	158400	152600	135700	120400	2383720
1962	115300	86270	76550	102300	66370	93910	108700	77610	176200	267400	129600	111400	1411610
1963	99680	82670	61700	89010	135400	142500	99050	112100	169000	138500	76320	88450	1294380
1964	74400	84980	77390	101900	93540	130400	50410	159900	1674000	365900	177900	141100	3131820
1965	134500	116600	103100	87770	294300	365200	73120	102300	140900	134300	112400	105300	1769790
1966	97150	77220	73070	159800	317900	160000	126600	246600	844000	287600	129900	113300	2633140
1967	104700	85290	89740	92260	48500	77630	194400	167350	464900	209800	132600	113600	1780770
1968	109500	78210	79840	103400	161300	62780	99820	77170	111600	128500	96400	115100	1223620
1969	74320	60200	50850	118900	89920	29680	36180	149800	94990	203000	102200	102300	1112340
1970	99420	156600	145100	39560	110200	242500	147300	65680	133600	105300	58100	59910	1363270
1971	72970	450600	63290	64810	129300	695500	223900	426800	222400	526500	109800	88180	3074050
1972	73340	58980	44410	35110	96660	37310	32270	140300	115400	220500	68830	57620	980730
1973	49830	100400	37100	75170	233700	91590	102200	160700	328400	372900	76410	51320	1679720
1974	49770	39220	184900	60240	218100	106700	58270	106300	1217000	957000	586300	307600	3891400
1975	172500	212500	257200	360600	289600	147600	532600	315200	219400	213600	236200	66480	3023480
MAX	352000	450600	364600	464000	1351000	1994000	1250000	1710700	3074400	1950900	586300	530000	7016210
MIN	49770	39220	30960	28300	33360	337	17470	36970	30900	31910	43110	51320	786640
MEAN	149677	141029	129606	141102	259032	344129	274322	305831	613847	437152	197042	168505	3161274
NO.	67	67	67	66	68	69	67	68	71	71	68	68	66
DISTR													
OF MEAN	4.7%	4.5%	4.1%	4.5%	8.2%	10.9%	8.7%	9.7%	19.4%	13.8%	6.2%	5.3%	100%

RIO GRANDE BASIN
08459100 Lake Casa Blanca near Laredo, Texas

LOCATION: Lat 27°31'58", long 99°26'42", Webb County, on Chacon Creek, 7.0 mi (11.3 km) above its confluence with the Rio Grande, and 4.1 mi (6.6 km) northeast of Laredo.

DRAINAGE AREA: 133 mi² (344 km²).

PERIOD OF RECORD: January 1962 to December 1975.

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

EXTREMES: Period of record (1962-75): Maximum end-of-month contents, 28,200 ac-ft (34.8 hm³) September 1967; minimum end-of-month contents, 3,500 ac-ft (4.3 hm³) January, February, and March 1966.

REMARKS: The lake is formed by an earthfill embankment, with a capacity of 18,125 ac-ft (23.6 hm³). The dam is 5,300 ft (1,615.4 m) long. The spillway is an excavated channel at the left end of the dam, with a crest length of 400 ft (121.9 m). The dam was completed in 1941, but was washed out during construction in 1949. Restoration began that year and impoundment began in 1949. The dam is operated by Webb County. Records furnished by the International Boundary and Water Commission.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	6900	6500	6200	6000	6000	5700	5400	5300	5100	5000	4800	4600
1963	4500	4300	4100	4000	4400	10200	9800	9300	8900	8500	8000	7600
1964	7200	6900	6600	6300	6000	6600	6000	5200	6700	6300	6000	5700
1965	5500	5300	5200	6000	5900	5300	5000	4600	4100	3600	3600	3600
1966	3500	3500	3500	6500	12900	12700	12300	11500	11500	10900	10800	10400
1967	10000	9600	9300	9000	8800	8500	8300	8200	28200	22400	22100	21700
1968	21600	21400	21000	20500	20300	20200	20000	19600	21700	21600	21600	21400
1969	21200	20500	19500	21400	20000	18800	17700	17700	17000	16300	16300	16100
1970	15900	15700	15600	15100	14900	14000	12900	11900	14600	13800	13400	12900
1971	12300	11900	11500	10600	9600	14700	13900	22500	28000	23100	22900	22300
1972	21900	21700	21000	20500	24300	23000	20700	18400	18300	18300	18300	18100
1973	18100	17900	17500	16800	16500	17700	17200	16400	16300	17400	17600	16900
1974	16700	16200	15700	15500	15100	15200	15500	15700	15300	14600	14000	14400
1975	14900	14400	14000	13600	15800	18000	17600	17200	16400	19300	18600	18000
MAX	21900	21700	21000	21400	24300	23000	20700	22500	28200	23100	22900	22300
MIN	3500	3500	3500	4000	4400	5300	5000	4600	4100	3600	3600	3600
MEAN	12871	12557	12193	12271	12893	13614	13021	13107	15150	14364	14143	13836
NO. OF MEAN	14	14	14	14	14	14	14	14	14	14	14	14
DISTR												
OF MEAN	8.0%	7.8%	7.6%	7.7%	8.1%	8.5%	8.1%	8.2%	9.5%	9.0%	8.8%	8.6%

RIO GRANDE BASIN

08459500 Dolores Creek near San Ignacio, Texas

LOCATION: Lat 27°13'56", long 99°24'42", Zapata County, 14.0 mi (22.5 km) north of San Ignacio, and 3.2 mi (5.1 km) upstream from its confluence with the Rio Grande.

DRAINAGE AREA: 606 mi² (1,569.5 km²).

PERIOD OF RECORD: January 1932 to May 1936.

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

AVERAGE DISCHARGE: 5 years, 29,563 ac-ft/yr (36.4 hm³/yr).

EXTREMES: Period of record (1932-36): Maximum discharge, 21,300 ft³/s (603.2 m³/s); no flow most of the time.

REMARKS: Records poor. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	0	0	0	1570	7730	3370	897	2.80	20000	0	0	0	33570
1933	0	32.5	0	4.80	247	370	3710	3780	23110	510	0	0	31764
1934	1300	0	0	1420	602	46.2	2290	192	3910	9.9	0	0	9770
1935	25.8	49.6	1630	9420	5070	11100	0	0	5240	170	0	0	32705
1936	0	0	0	2530	17800	-	-	-	-	-	-	-	-
MAX	1300	49.6	1630	9420	17800	11100	3710	3780	23110	510	0	0	33570
MIN	0	0	0	4.80	247	46.2	0	0	3910	0	0	0	9770
MEAN	265	16.4	326	2989	6290	3722	1724	994	13065	172	0	0	29563
NO. OF MEAN	5	5	5	5	5	4	4	4	4	4	4	4	4
DISTR OF MEAN	.9%	.1%	1.1%	10.1%	21.3%	12.6%	5.8%	3.4%	44.2%	.6%	.0%	.0%	100%

RIO GRANDE BASIN

08460500 Rio Grand near Zapata, Texas

LOCATION: Lat 26°52'00", 99°18'00", Zapata County, 3.0 mi (4.8 km) southeast of Zapata, 1.4 mi (2.2 km) downstream from its confluence with the Rio Salado, and 947.5 mi (1,524.5 km) downstream from the American Dam.

DRAINAGE AREA: 154,426 mi² (399,963.3 km²).

PERIOD OF RECORD: January 1932 to July 1953.

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

AVERAGE DISCHARGE: 22 years, 3,469,516 ac-ft/yr (4,277.9 hm³/yr).

EXTREMES: Period of record (1932-53): Maximum discharge, 261,000 ft³/s (7,391.5 m³/s) September 4, 1932, gage height, 262.07 ft (79.88 m); no flow on May 10, 1953 and June 10 through July 1, 1953.

REMARKS: Records good. Reservoirs, diversions, and drainage returns modify the flow at this station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	180820	149830	161990	138770	234650	122580	177320	240940	2895330	2396440	748020	591380	8038070
1933	484450	361350	252080	216400	187300	180880	252380	233440	1103840	647300	235520	201780	4356720
1934	218000	174000	176000	226000	206000	250000	197000	164000	203000	165000	133000	119000	2231000
1935	119000	111000	138000	166000	584000	1517000	397000	247000	1533000	462000	250000	219000	5743000
1936	193000	162000	195000	133000	377000	258000	450000	216000	980000	503000	196000	207000	3870000
1937	180000	149000	157000	110000	134000	342000	141000	163000	237000	322000	143000	173000	2251000
1938	208000	153000	156000	150000	156000	115000	1238000	665000	1081000	467000	192000	181000	4762000
1939	166000	148000	140000	111000	382000	178000	132000	408000	172000	226000	162000	143000	2368000
1940	143000	130000	292000	153000	323000	359000	237000	367000	279000	354000	134000	116000	2887000
1941	142500	138000	124000	146000	682000	514000	403000	447000	841000	1565000	552000	313000	5867500
1942	270000	208000	202000	169000	482000	357000	604000	475000	1680000	710000	343000	240000	5740000
1943	218000	168000	170000	142000	258000	316000	344000	145000	189000	321000	175000	178000	2624000
1944	170000	143000	148000	97800	252000	173000	92300	721000	894000	378000	181000	161000	3411100
1945	171000	145000	128000	233000	89900	59000	445000	108000	76400	808000	177000	146000	2586300
1946	147000	118000	110000	181000	472000	419000	209000	168000	369000	594000	173000	160000	3120000
1947	172000	149000	129000	86800	249000	364000	302000	433000	396000	135000	123000	133000	2471800
1948	106000	106000	106000	65200	81800	711000	620000	131000	443000	251000	153000	128000	2902000
1949	124000	399000	238000	662000	350000	361000	244000	559000	356000	323000	205000	183000	4004000
1950	169000	133000	129000	98500	265000	247000	246000	197000	273000	219000	112000	108000	2196500
1951	98700	94300	116000	70600	326000	254000	67900	74100	351000	132000	76100	64800	1725500
1952	64100	51400	43200	47700	165000	96700	335000	54600	42400	28300	38900	48400	1015700
1953	50200	36600	64200	45800	48000	18.8	11600	-	-	-	-	-	-
MAX	484450	399000	292000	662000	682000	1517000	1238000	721000	2895330	2396440	748020	591380	8038070
MIN	50200	36600	43200	45800	48000	18.8	11600	54600	42400	28300	38900	48400	1015700
MEAN	172490	155795	153430	156799	286575	327008	315705	296051	685475	524145	214407	181636	3469516
NO.	22	22	22	22	22	22	22	21	21	21	21	21	21
DISTR OF MEAN	5.0%	4.5%	4.4%	4.5%	8.3%	9.4%	9.1%	8.5%	19.8%	15.1%	6.2%	5.2%	100%

RIO GRANDE BASIN
08461000 El Tigre Arroyo near Zapata, Texas

LOCATION: Lat 26°40'49", long 99°10'14", Zapata County, 21.0 mi (33.8 km) southeast of Zapata, and 2.7 mi (4.3 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 261 mi² (676.0 km²).

PERIOD OF RECORD: January 1932 to April 1936.

GAGE: Water-stage recorder. Datum of gage is 212.99 ft (64.92 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 5 years, 5,159 ac-ft/yr (6.4 hm³/yr).

EXTREMES: Period of record (1932-36): Maximum discharge, 7,500 ft³/s (212.4 m³/s) May 25, 1933, gage height, 7.25 ft (2.21 m); no flow most of the time.

REMARKS: Records fair. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	0	0	0	0	0	0	13.9	0	9000	0	0	0	9014
1933	0	0	0	488	2390	605	534	591	1590	107	0	0	6305
1934	185	29.8	0	109	36.0	0	0	0	37.3	97.0	0	0	494
1935	0	0	307	132	123	614	261	0	1310	32.3	627	795	4201
1936	0	0	0	1090	-	-	-	-	-	-	-	-	-
MAX	185	29.8	307	1090	2390	614	534	591	9000	107	627	795	9014
MIN	0	0	0	0	0	0	0	0	37.3	0	0	0	494
MEAN	37.0	5.96	61.4	364	637	305	202	148	2984	59.1	157	199	5159
NO.	5	5	5	5	4	4	4	4	4	4	4	4	4
DISTR													
OF MEAN	.7%	.1%	1.2%	7.1%	12.4%	5.9%	3.9%	2.9%	57.8%	1.1%	3.0%	3.9%	100%

RIO GRANDE BASIN

08461200 International Falcon Reservoir near Falcon Heights, Texas

LOCATION: Lat 26°33'33", long 99°10'00", Starr County, 2.8 mi (4.5 km) west of Falcon Heights, and 975.0 mi (1,568.8 km) downstream from the American Dam.

DRAINAGE AREA: 159,270 mi² (412,509.3 km²).

PERIOD OF RECORD: January 1953 to December 1975.

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

EXTREMES: Period of record (1953-75): Maximum contents, 3,490,600 ac-ft (4,303.9 hm³) October 19, 1958, elevation 308.11 ft (93.9 m); minimum contents, 143,500 ac-ft (176.9 hm³) February 16, 1957, elevation 235.10 ft (71.66 m).

REMARKS: The reservoir is formed by an earthfill embankment and a 350 ft (106.7 m) concrete spillway section across the main channel of the Rio Grande. The total length of the dam, including the spillway, is 26,294 ft (8,014.4 m). The capacity of the reservoir is 2,667,600 ac-ft (3,289.2 hm³). The dam was completed on April 8, 1954, but deliberate impoundment began on August 24, 1953. The spillway is a gated concrete gravity structure with an ogee crest and a stilling basin. The spillway is controlled by six fixed wheel-type gates, each measuring 50 by 50 ft (15.2 m), with a crest length of 300 ft (91.4 m). Water is released through four penstocks on the U.S. side, each 6.0 ft (1.8 m) in diameter and through one penstock on the Mexican side, 22.0 ft (6.7 m) in diameter. The dam is operated jointly by the U.S. and Mexican sections of the International Boundary and Water Commission.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1953	2100	2200	3900	700	700	300	3800	564500	902200	1017800	979000	945500
1954	805600	554200	310200	490200	542100	1336300	2169200	2212900	2266100	2407000	2405400	2347600
1955	2059800	1884000	1748000	1418600	1024200	668500	744900	896700	1440700	1576300	1573400	1467500
1956	1203200	919500	785000	656000	470200	193200	207600	211100	263200	383800	400100	274800
1957	160000	185100	259400	661100	1757300	1973900	1863100	1699900	1733700	1751700	1791300	1765500
1958	1931600	2042400	2102700	1919600	1973300	1864400	1878800	1804600	2736700	3227400	2956200	2912300
1959	2896200	2807700	2603900	2520700	2326800	2293000	2310600	2323000	2287600	2529700	2618100	2603100
1960	2379800	2286800	2347800	2287600	2091900	1562100	1602700	1784700	2037200	2306800	2430500	2555900
1961	2639900	2675400	2420100	2220200	1837300	2237500	2366500	2369700	2374400	2428100	2500400	2472100
1962	2277700	1989100	1970500	1871500	1442000	1153000	1137200	1115900	1339800	1483700	1548500	1577500
1963	1522800	1379100	1252600	895600	1033400	980700	984600	933000	1096200	1187300	1216800	1249100
1964	1254200	1282500	1242600	1022700	829900	814500	744800	817900	2312200	2581500	2605600	2603100
1965	2299900	2264000	2229200	1884100	1884800	1892100	1674200	1662500	1649600	1716000	1774400	1845800
1966	1874800	1906100	1910800	2014800	2467300	2420900	2313700	2323700	2478500	2626500	2608100	2577400
1967	2523100	2436800	2352500	1970500	1657000	1526300	1514700	1632500	2830800	2784900	2930700	2965600
1968	2959200	2964700	2958200	2961900	2755200	2580700	2608100	2484200	2629800	2684700	2688100	2715500
1969	2371200	2203000	2116400	2000100	1782100	1424900	1243100	1248100	1323600	1441500	1464400	1529800
1970	1603300	1712900	1770600	1548500	1299900	1454900	1511200	1410600	1537900	1605200	1577500	1507700
1971	1126700	1429300	1293200	1077600	770300	1385100	2134500	2605600	2919800	3121800	3124700	3127600
1972	2930700	2895300	2882700	2496300	2644900	2692400	2684700	2705200	2699200	2656300	2641600	2638200
1973	2656300	2752800	2735100	2491400	2256100	2329700	2382700	2381900	2589000	2700700	2762600	2771500
1974	2613300	2358800	2426000	2273700	2037400	1888600	1760600	1476400	2253800	2517100	2767900	2882000
1975	2760800	2711300	2691100	2488900	2402700	2447100	2825500	2373100	2380300	2472500	2608200	2598800
MAX	2959200	2964700	2958200	2961900	2755200	2692400	2825500	2705200	2919800	3227400	3124700	3127600
MIN	2100	2200	3900	700	700	300	3800	211100	263200	383800	400100	274800
MEAN	1950096	1897522	1844022	1703143	1621165	1613917	1681165	1697291	2003578	2139491	2172761	2171039
NO.	23	23	23	23	23	23	23	23	23	23	23	23
DISTR												
OF MEAN	8.7%	8.4%	8.2%	7.6%	7.2%	7.2%	7.5%	7.5%	8.9%	9.5%	9.7%	9.7%

RIO GRANDE BASIN

08461300 Rio Grande below Falcon Dam near Falcon Heights, Texas

LOCATION: Lat 26°33'25", long 99°10'05", Starr County, 7.0 mi (11.3 km) southwest of Falcon Heights, and 975.0 mi (1,568.8 km) downstream from the American Dam.

DRAINAGE AREA: 159,270 mi² (412,509.3 km²).

PERIOD OF RECORD: January 1958 to December 1975.

GAGE: Turbine penstock meter records, bypass valves, and spillway gages.

AVERAGE DISCHARGE: 18 years, 2,310,795 ac-ft/yr (2,849.2 hm³/yr).

EXTREMES: Period of record (1958-75): Maximum discharge, 82,600 ft³/s (2,339.2 m³/s) September 18, 1971; minimum discharge, 1.5 ft³/s (0.04 m³/s) March 24 and 25, 1957 (Measured at the Chapeno station 08461500 located 1.9 mi or 3.1 km downstream).

REMARKS: Records good. The flow is entirely regulated by Falcon Dam (station 08461200). Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	46100	16600	22600	22600	26000	40800	79500	133000	235000	1997000	1128000	465000	5016800
1959	213000	335000	347000	185000	325000	253000	229000	120000	274000	97300	42400	133000	2553700
1960	355000	244000	66500	138000	244000	551000	192000	80600	37600	90900	41700	37100	2078400
1961	72700	88400	334300	248600	469200	212400	137000	188700	197300	92800	51400	124200	2217000
1962	280900	367400	63880	222200	435300	367600	73600	69340	36410	88890	49900	62910	2118330
1963	133200	203100	159800	417200	58480	265400	66170	122100	38090	61580	28630	45470	1599220
1964	59080	42510	95350	284400	284000	119900	91240	79120	48580	136700	102300	112200	1455380
1965	412700	140600	116200	404400	359900	290300	229800	83580	142300	44790	50640	42310	2317520
1966	55440	43590	49780	95130	48750	177200	160700	203800	674200	78370	95320	99440	1781720
1967	147600	141700	149900	461500	310800	180800	140400	151400	1430	304000	9380	61790	2060700
1968	114900	72830	68310	95400	329100	207900	51250	148200	62530	64200	58470	58800	1331890
1969	402000	216200	104000	205600	322800	359600	162400	113000	34920	75800	62710	32570	2091600
1970	16240	26780	61980	235200	334800	68460	59280	121300	30290	31070	50320	108000	1143720
1971	414100	129200	165500	244300	379400	122000	20950	60180	1081000	1132000	284800	166400	4199830
1972	288000	118600	57320	420300	21570	22890	12840	62020	188100	134200	53580	43340	1422760
1973	20620	28380	39040	290200	438300	232400	20550	165100	226500	291500	1400	8760	1762750
1974	204600	277200	120000	181100	422800	230000	134100	361400	353500	623900	264700	149500	3322800
1975	257800	214800	218800	503700	418800	82960	218600	754500	267000	86410	45520	51300	3120190
MAX	414100	367400	347000	503700	469200	551000	229800	754500	1081000	1997000	1128000	465000	5016800
MIN	16240	16600	22600	95130	21570	22890	12840	60180	1430	31070	1400	8760	1143720
MEAN	194110	150383	124459	269902	303500	230656	115521	167630	218264	301745	134509	100116	2310795
NO.	18	18	18	18	18	18	18	18	18	18	18	18	18
DISTR													
OF MEAN	8.4%	6.5%	5.4%	11.7%	13.1%	10.0%	5.0%	7.3%	9.4%	13.1%	5.8%	4.3%	100%

RIO GRANDE BASIN

08461500 Rio Grande at Chapeno, Texas

LOCATION: Lat 26°31'57", long 99°09'17", Starr County, 2.5 mi (4.0 km) below Falcon Dam, 9.9 mi (15.9 km) above its confluence with the Rio Alamo, and 976.9 mi (1,571.8 km) downstream from the American Dam.

DRAINAGE AREA: 164,538 mi² (426,153.4 km²).

PERIOD OF RECORD: January 1953 to December 1957.

GAGE: Water-stage recorder and cableway. Datum of gage is 171.52 ft (52.28 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 5 years, 1,785,140 ac-ft/yr (2,201.1 hm³/yr).

EXTREMES: Period of record (1953-57): Maximum discharge, 22,600 ft³/s (640.0 m³/s) August 27, 1953, gage height, 7.98 ft (2.43 m); no flow during June 17 through July 1, 1953.

REMARKS: Records good. The flow is entirely regulated by Falcon Dam (station 08461200) since August 25, 1953. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	OCT	NOV	DEC	ANNUAL
1953	49200	34700	68200	52500	49800	461	11000	51800	153000	65900	69400	76500	682461
1954	201000	297000	276000	105000	302000	347000	97700	147000	107000	40600	68600	111000	2099900
1955	368000	245000	164000	347000	526000	437000	78700	195000	15600	86400	110000	186000	2758700
1956	345000	349000	167000	152000	237000	276000	18300	25900	80900	27100	30100	188000	1896300
1957	163000	42600	2640	24600	217000	165000	111000	206000	151000	198000	77500	130000	1488340
MAX	368000	349000	276000	347000	526000	437000	111000	206000	153000	198000	110000	188000	2758700
MIN	49200	34700	2640	24600	49800	461	11000	25900	15600	27100	30100	76500	682461
MEAN	225240	193660	135568	136220	266360	245092	63340	125140	101500	83600	71120	138300	1785140
NO. OF MEAN	5	5	5	5	5	5	5	5	5	5	5	5	5
DISTR OF MEAN	12.6%	10.8%	7.6%	7.6%	14.9%	13.7%	3.5%	7.0%	5.7%	4.7%	4.0%	7.7%	100%

RIO GRANDE BASIN
08462500 Rio Grande at Roma, Texas

LOCATION: Lat 26°24'13", long 99°01'06", Starr County, at the International Bridge between Roma and Ciudad Miguel Aleman, Tamaulipas, 14.9 mi (24.0 km) upstream from its confluence with the Rio San Juan, and 992.0 mi (1,596.1 km) downstream from the American Dam.

DRAINAGE AREA: 166,464 mi² (431,141.8 km²).

PERIOD OF RECORD: May 1900, September 1900 to December 1913, November 1922 to December 1954.

GAGE: Water-stage recorder. Datum of gage is 142.65 ft (43.48 m) above mean sea level, U.S.C. & G.S. datum. Prior to January 1, 1951, datum of gage was 3.28 ft (1.00 m) higher.

AVERAGE DISCHARGE: 48 years (1900-13, 1922-54), 4,000,154 ac-ft/yr (4,932.2 hm³/yr).

EXTREMES: Period of record (1900-13, 1922-54): Maximum discharge, 203,000 ft³/s (5,749.0 m³/s) September 5, 1932, gage height, 35.4 ft (10.8 m); no flow for several days in June and July 1953.

REMARKS: Records good. Reservoirs, diversions, and drainage returns modify the flow at this station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	-	-	752800	-	-	-	907000	766000	346000	279000	-
1901	201000	155000	155000	122000	360000	263000	141000	284000	370000	282000	293000	171000	2797000
1902	137000	116000	102000	159000	310000	101000	348000	466000	800000	422000	177000	246000	3384000
1903	167000	158000	161000	102000	362000	1089600	729000	434000	465000	398000	163000	143000	4371600
1904	136000	115000	107000	152000	290000	417000	251000	122000	2223700	1500000	708000	457000	6478700
1905	277000	191000	474000	462000	630000	1030000	1240400	1000000	903000	739000	461000	557000	7964400
1906	367000	352000	277000	168000	368000	449000	1300000	1760000	1230000	624000	495000	630000	8020000
1907	343000	272000	222000	198000	406000	515000	695000	322000	703000	495000	613000	621000	5405000
1908	326000	191000	163000	460000	373000	200000	270000	863000	742000	265000	151000	135000	4139000
1909	151000	123000	137000	119000	216000	327000	1370000	1140000	1020000	270000	166000	170000	5211000
1910	256000	150000	155000	258000	391000	265000	248000	84800	1123000	341000	133000	118000	3522800
1911	103000	129000	143000	184000	390000	390000	541000	439000	394000	704700	359000	204000	3980700
1912	169000	130000	101000	168000	212000	1069900	279000	345000	825000	462000	162000	178000	4100900
1913	145000	149000	206000	125000	291000	400000	222000	149000	540000	770100	243000	267000	3507100
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	-	215000	188000	-
1923	185000	389000	271000	248000	155000	189000	207000	266000	2260000	707000	395000	390000	5662000
1924	466000	275000	246000	197000	254000	277000	185000	158000	1020000	540000	306000	274000	4200000
1925	237000	184000	201000	180000	507000	822800	384200	903900	1159000	773300	351000	261000	5964200
1926	254000	208000	261000	284900	398000	318000	307000	480000	520000	570000	280000	262000	4082900
1927	225000	226000	198000	194000	179000	511000	379000	212000	240000	451000	189000	191000	3195000
1928	209000	180000	181000	150000	683000	232000	150000	400000	809000	359000	283000	259000	3895000
1929	207000	163000	166000	185000	326000	184000	240000	276000	338000	252000	171000	192000	2720000
1930	146000	138000	99000	223000	406000	595000	131000	246000	117000	732000	336000	213000	3382000
1931	208000	220000	201000	180000	473000	290000	542530	285110	152750	180820	151820	192580	3077610
1932	166910	152330	155070	133470	233460	112700	195410	228080	3047630	2371870	735960	565140	8098030
1933	467370	349000	260610	223560	195530	178240	265390	242620	1266270	673950	253890	207590	4584020
1934	219000	177000	174000	239000	219000	253000	189000	157000	196000	163000	127000	114000	2227000
1935	119000	108000	126000	164000	570000	1586000	400000	248000	1499000	471000	252000	231000	5774000
1936	190000	159000	188000	144000	434000	202000	515000	220000	958000	536000	194000	200000	3940000
1937	175000	147000	155000	104000	133000	361000	144000	162000	217000	344000	138000	164000	2244000
1938	209000	148000	160000	147000	167000	92600	1217000	743000	1083000	504000	190000	178000	4838600
1939	170000	147000	132000	125500	454000	193000	136000	402000	199000	289000	153000	139000	2539500
1940	133800	125100	325600	145900	317900	426400	260000	347600	326900	379400	138600	125100	3052300
1941	147600	141100	123900	141500	706300	609000	410700	450200	878700	1639300	592900	314200	6155400
1942	262800	203000	197900	175500	487900	389500	668600	490900	1690000	728800	338700	244000	5877600
1943	226200	168000	165400	135500	239100	324900	371200	142900	244500	337100	171300	179700	2705800
1944	165600	136400	140500	91400	299000	184200	94100	873800	993500	399200	186500	164900	3729100
1945	169800	144000	139800	259200	91320	53990	447000	109400	69900	827900	172200	137700	2622210
1946	144500	118600	105700	180700	535400	435300	213300	171800	407100	618700	173200	151600	3255900
1947	175100	149900	129000	83710	257300	377900	101900	487700	410000	137700	129200	131400	2570810
1948	103600	107000	117100	64250	108900	686800	608000	140500	823900	271800	154000	128200	3314050
1949	120000	402000	251000	855700	388400	353000	240700	566600	387400	347600	211200	188600	4312200

RIO GRANDE BASIN

08462500 Rio Grande at Roma, Texas--Continued

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	169600	136900	128400	108100	279800	256400	243000	195700	279400	222700	105100	101900	2227000
1951	93660	82570	105700	74610	321700	295500	54020	75640	457000	144000	78860	66120	1849380
1952	63170	48690	43160	41870	180500	116800	333200	53280	40800	24040	35340	43200	1024050
1953	50170	33730	69760	53780	48340	109	12500	292800	261400	189000	76520	77350	1165459
1954	196400	295500	271100	141600	303500	346900	98370	144400	104200	46570	68590	106200	2123330
1955	31628	-	-	-	-	-	-	-	-	-	-	-	-
MAX	467370	402000	474000	855700	752800	1586000	1370000	1760000	3047630	2371870	735960	630000	8098030
MIN	31628	33730	43160	41870	48340	109	12500	53280	40800	24040	35340	43200	1024050
MEAN	193150	175418	174482	185617	341395	394901	386189	390705	754392	527621	251657	224627	4000154
NO.	46	45	45	45	46	45	45	45	46	46	47	47	45
DISTR OF MEAN	4.8%	4.4%	4.4%	4.6%	8.5%	9.9%	9.7%	9.8%	18.9%	13.2%	6.3%	5.6%	100%

RIO GRANDE BASIN

08464700 Rio Grande at Fort Ringgold near Rio Grande City, Texas

LOCATION: Lat 26°22'05", long 98°48'20", Starr County, 1.0 mi (1.6 km) below Rio Grande City, 3.9 mi (6.3 km) downstream from the Rio San Juan, and 1,014.9 mi (1,633.0 km) downstream from the American Dam.

DRAINAGE AREA: 174,362 mi² (451,597.6 km²).

PERIOD OF RECORD: January 1955 to December 1975.

GAGE: Water-stage recorders (graphic and digital), cableway, and gravity well. Datum of gage is 100.00 ft (30.48 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 21 years, 2,858,582 ac-ft/yr (3,524.6 hm³/yr).

EXTREMES: Period of record (1955-75): Maximum discharge, 220,000 ft³/s (6,230.4 m³/s) September 22 and 23, 1967, gage height, 61.40 ft (18.71 m); no flow for several days in June and July 1953.

REMARKS: Records good. The flow is entirely regulated by Falcon Dam (station 08461200). Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1955	349000	247000	157000	340000	521000	434000	88300	190000	107000	89500	117000	177000	2816800
1956	338000	354000	166000	149000	231000	287000	22300	25000	89400	30000	30000	184000	1905700
1957	160000	54000	14400	75100	252000	197000	109000	198000	165000	193000	86400	134000	1637900
1958	70100	25500	22100	208000	316000	428000	101000	145000	275000	3047000	1442000	540000	6619700
1959	254000	364000	378000	193000	319000	251000	233000	131000	276000	113000	51300	128000	2691300
1960	350000	256000	68300	155000	237000	560000	215000	109000	72600	103000	42700	36100	2204700
1961	75800	88900	333000	256000	484000	226000	146000	202000	244000	115000	55600	124000	2350300
1962	281200	376600	75080	224700	428600	398800	71990	74470	92400	98520	50460	64780	2237600
1963	122100	213200	159700	421500	80890	316300	70100	128900	51340	114100	29270	43080	1750800
1964	60940	44240	92130	285000	380100	120500	96410	77560	113600	154200	104200	111200	1640080
1965	397200	158100	118400	401100	359000	294800	238500	91890	160500	51610	52030	49170	2372300
1966	55640	43950	50510	98500	100000	224400	304000	237000	690800	92770	96600	100900	2095070
1967	145700	144200	150800	447800	324600	189100	144600	522600	2713000	823200	183200	173600	5962400
1968	207900	127700	97390	142400	371800	260400	143100	157700	215300	138600	109000	80200	2051490
1969	414000	234500	103800	198800	341800	396600	162800	118500	42420	86380	67580	37240	2204420
1970	33040	32840	60100	228500	363600	98620	58110	124600	50130	67420	52720	99540	1269220
1971	416900	135300	159900	229600	390000	156600	49790	106800	1263000	1694000	395500	192700	5190090
1972	293400	137400	62970	437000	36700	151000	132500	83340	352800	190300	76500	58180	2012090
1973	33220	41160	49150	283700	436800	623800	401700	387100	630200	629200	144400	99950	3760380
1974	246400	285200	144600	184300	417600	243600	140900	360500	346800	644800	272400	171400	3460700
1975	268700	238100	241200	510400	440900	101500	266400	775600	665600	174300	54290	61000	3797490
MAX	416900	376600	378000	510400	521000	623800	401700	775600	2713000	3047000	1442000	540000	6619700
MIN	33040	25500	14400	75100	36700	98620	22300	25000	42420	30000	29270	36100	1269220
MEAN	217773	171519	128797	260448	325328	283763	152167	202217	410423	411960	167293	126954	2858582
NO. OF MEAN	21	21	21	21	21	21	21	21	21	21	21	21	21
DISTR	7.6%	6.0%	4.5%	9.1%	11.4%	9.9%	5.3%	7.1%	14.4%	14.4%	5.9%	4.4%	100%

RIO GRANDE BASIN

08465000 Los Olmos Creek near Rio Grande City, Texas

LOCATION: Lat 26°23'18", long 98°48'19", Starr County, at the bridge on State Highway 755, 1.0 mi (1.6 km) northeast of Rio Grande City, and 3.75 mi (6.0 km) above its confluence with the Rio Grande.

DRAINAGE AREA: 535 mi² (1,385.6 km²).

PERIOD OF RECORD: January 1932 to March 1936.

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

AVERAGE DISCHARGE: 5 years, 16,224 ac-ft/yr (20.0 hm³/yr).

EXTREMES: Period of record (1932-36): Maximum discharge, 4,700 ft³/s (133.1 m³/s) December 12, 1935, gage height, 162.99 ft (49.68 m); no flow most of the time.

REMARKS: Records fair. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	0	0	97.0	113	2410	69.0	0	2350	25460	8610	0	0	39109
1933	0	0	0	170	738	567	805	1160	2740	169	20.8	0	6370
1934	834	46.8	49.7	820	486	7.30	0	28.6	823	315	0	0	3410
1935	0	0	0	638	2060	3170	1950	81.7	1950	327	444	5530	16151
1936	74.2	2.40	0	-	-	-	-	-	-	-	-	-	-
MAX	834	46.8	97.0	820	2410	3170	1950	2350	25460	8610	444	5530	39109
MIN	0	0	0	113	486	7.30	0	28.6	823	169	0	0	3410
MEAN	182	9.8	29.3	435	1424	953	689	905	7743	2355	116	1383	16224
NO.	5	5	5	4	4	4	4	4	4	4	4	4	4
DISTR OF MEAN	1.1%	.1%	.2%	2.7%	8.8%	5.9%	4.2%	5.6%	47.7%	14.5%	.7%	8.5%	100%

RIO GRANDE BASIN

08465500 Rio Grande near Rio Grande City, Texas

LOCATION: Lat 26°19'32", long 98°46'37", Starr County, 4.0 mi (6.4 km) southeast of Rio Grande City, 7.8 mi (12.7 km) downstream from its confluence with the Rio San Juan, and 1,015.3 mi (1,633.6 km) downstream from the American Dam.

DRAINAGE AREA: 180,941 mi² (468,637.2 km²).

PERIOD OF RECORD: May 1914 to September 1923 (scattered monthly records), January 1924 to December 1954.

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

AVERAGE DISCHARGE: 39 years (1914, 1916-20, 1922-54), 4,778,782 ac-ft/yr (5,892.2 hm³/yr).

EXTREMES: Period of record (1914, 1916-20, 1922-54): Maximum discharge, 198,800 ft³/s (5,630.0 m³/s) September 5, 1932, gage height, 157.4 ft (47.98 m); no flow during several days in June and July 1953.

REMARKS: Records good. Reservoirs, diversions, and drainage returns modify the flow at this station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1914	-	-	-	-	1243400	1768800	-	-	-	1721300	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	1676400	-	-	-	-
1917	-	-	-	-	-	-	-	-	951200	1002200	-	-	-
1918	-	-	-	-	-	-	-	-	-	819400	-	-	-
1919	-	-	-	-	-	-	-	-	3359200	2328400	-	-	-
1920	-	-	-	-	-	-	-	1386200	2520000	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	2637700	-	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	2377800	-	-	-	-
1924	521000	317000	284000	222000	279000	389000	217000	167000	1060000	584000	332000	295000	4667000
1925	254000	196000	221000	194000	565000	887000	428000	602000	2000000	1000000	397000	291000	7035000
1926	309000	235000	224000	236500	524000	420000	550000	500000	556000	680000	340000	282000	4856500
1927	244000	241000	209000	208000	191000	1104000	581000	266000	266000	520000	210000	208000	4248000
1928	234000	180000	214000	159000	719000	250000	160000	430000	974000	387000	330000	289000	4326000
1929	232000	181000	180000	204000	290000	230000	306000	290000	435000	336000	203000	225000	3112000
1930	162000	149000	108000	241000	549000	1041000	190000	263000	147000	1196000	515000	294000	4855000
1931	260000	343000	260000	206000	572000	352000	671000	408000	201000	204000	174000	217000	3868000
1932	188670	151300	155430	133170	253810	118850	222050	290660	3312800	2852270	829260	625260	9133530
1933	508390	366690	279340	236560	259260	223660	456440	714300	2505480	1450910	473260	347790	7824060
1934	321000	242000	221000	340000	330000	276000	274000	192000	263000	252000	156000	143000	3010000
1935	140000	125000	133000	190000	603000	1737000	490000	270000	1759000	613000	353000	331000	6744000
1936	286000	201000	218000	163000	591000	211000	746000	274000	1213000	665000	264000	272000	5104000
1937	221000	178000	182000	118000	153000	378000	218000	163000	263000	399000	173000	197000	2643000
1938	239000	161000	181000	170000	198000	94300	1240000	1280000	1522000	594000	237000	219000	6135300
1939	198000	163000	146000	157000	638000	232000	152000	418000	284000	463000	177000	160000	3188000
1940	150000	134000	401000	154000	361000	655000	343000	417000	522000	471000	185000	215000	4008000
1941	217000	177000	163500	214000	833000	1070000	569000	478000	1250000	1720000	619000	381000	7691000
1942	316000	231000	215000	196000	505000	642000	860000	520000	1821000	959000	394000	288000	6947000
1943	288000	188000	175000	148000	232000	326000	367000	150000	243000	343000	169000	180000	2809000
1944	174000	142000	154000	97700	333000	238000	169000	1269000	1795000	757000	249000	181000	5558700
1945	221000	181000	155000	288000	98900	74500	439000	121000	79400	1115000	231000	186000	3189800
1946	185000	140000	115000	187000	576000	453000	225000	162000	414000	689000	183000	152000	3481000
1947	171000	147000	132000	92100	270000	385000	105000	574000	427000	142000	138000	131000	2714100
1948	105000	112000	120000	61500	114000	659000	603000	145000	1053000	433000	206000	132000	3743500
1949	125000	410000	263000	850000	467000	338000	236000	558000	367000	333000	211000	184000	4342000
1950	173000	137000	130000	109000	270000	258000	236000	194000	274000	226000	112000	109000	2228000
1951	102000	92300	115000	81600	333000	320000	60600	79600	445000	147000	79400	65100	1920600
1952	62700	45800	40800	39900	165000	124000	321000	55800	43200	24600	38200	46100	1007100
1953	48400	32500	72000	55600	49600	72.0	14900	348000	590000	424000	107000	86100	1828172
1954	195000	293000	270000	152000	304000	350000	103000	147000	107000	56500	74900	109000	2161400
MAX	521000	410000	401000	850000	1243400	2637700	1240000	1386200	3359200	2852270	829260	625260	9133530
MIN	48400	32500	40800	39900	49600	72.0	14900	55800	43200	24600	38200	46100	1007100
MEAN	221005	190148	185051	190472	402187	552815	372677	410393	1029902	740217	263226	220689	4778782
NO.	31	31	31	31	32	33	31	32	36	35	31	31	31
DISTR OF MEAN	4.6%	4.0%	3.9%	4.0%	8.4%	11.6%	7.8%	8.6%	21.6%	15.5%	5.5%	4.6%	100%

RIO GRANDE BASIN

08468000 Mission Floodway South of McAllen, Texas

LOCATION: Lat 26° 10' 10", long 98° 14' 10", Hidalgo County, at the bridge on State Highway 336, and 2.0 mi (3.2 km) south of McAllen.

PERIOD OF RECORD: August 1928 to December 1974.

GAGE: Water-stage recorder and gravity well. Datum of gage is 0.20 ft (0.06 m) above mean sea level, U.S.C. & G.S. datum.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1928	-	-	-	-	-	-	-	0	0	0	0	0	-
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	17 9420	25 9690	0	0	43 9110
1933	0	0	0	0	0	0	0	0	7 9140	0	0	0	7 9140
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	8 530	0	0	4 6700	0	0	0	55 230
1936	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	2 380	9 48	6 8600	0	0	0	71 928
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	207	0	0	0	207
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	2 220	2 9450	0	0	0	31 670
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	6 49	10 430	0	2 5200	0	0	0	36 279
1949	0	0	0	4 630	104	0	0	0	0	0	0	0	47 34
1950	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	4 75000	15 0000	0	62 5000
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	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	126	75 1200	13 180	0	0	76 4506
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	12 4300	15 0300	0	0	27 4600
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	8 410	12 580	0	0	0	0	0	20 990
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	4 630	104	8 530	12 580	2 220	75 1200	4 75000	15 0000	0	76 4506
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	101	2.26	382	552	70.1	2 7749	19 110	3 191	0	51 157
NO.	46	46	46	46	46	46	46	47	47	47	47	47	46
DISTR													
OF MEAN	.0%	.0%	.0%	.2%	.0%	.7%	1.1%	.1%	54.2%	37.4%	6.2%	.0%	100%

RIO GRANDE BASIN

08468500 Banker Floodway at Anzalduas Dam near Mission, Texas

LOCATION: Lat 26°08'30", long 98°19'20", Hidalgo County, 5.2 mi (8.4 km) south of Mission, and 0.2 mi (0.3 km) below the point of diversion from the Rio Grande.

PERIOD OF RECORD: January to December 1975.

GAGE: Water-stage recorder, gravity well, and concrete control weir. Datum of gage is at mean sea level.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1975	0	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	0
MIN	0	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	1	1	1	1	1	1	1
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	.0%	100%

RIO GRAND BASIN

08469200 Rio Grande below Anzalduas Dam near Hidalgo, Texas

LOCATION: Lat 26°07'51", long 98°19'51", Hidalgo County, 0.5 mi (0.8 km) downstream from Anzalduas Dam, 12.2 mi (19.6 km) upstream from the International Bridge between Hidalgo and Reynosa, Tamaulipas, and 1,077.7 mi (1,734.0 km) downstream from the American Dam.

DRAINAGE AREA: 176,112 mi² (456,130.1 km²).

PERIOD OF RECORD: January 1952 to December 1975.

GAGE: Water-stage recorder, cableway, and gravity well. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 24 years, 1,608,911 ac-ft/yr (1,983.8 hm³/yr).

EXTREMES: Period of record (1952-75): Maximum discharge, 131,000 ft³/s (3,709.9 m³/s) September 24, 1967, gage height, 30.51 ft (9.30 m); no flow at times.

REMARKS: Records good. Except during local storms, the flow is entirely regulated by Falcon Dam (station 08461200) and Anzalduas Dam. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1952	54220	39660	51200	28310	129800	129800	252400	48850	38290	21480	26600	36070	856680
1953	31800	23290	52540	55910	35190	1480	5830	241200	468500	359200	53940	1900	1330780
1954	60460	114100	108500	89570	164300	214900	53840	78910	63600	39100	51190	83320	1121790
1955	149000	87820	105100	155700	202400	208900	62730	67980	23440	51770	75590	67000	1257430
1956	166200	79580	80160	49570	149900	78170	12030	1830	3970	3730	2080	2720	629940
1957	3000	1060	339	37130	51140	7850	2000	3650	3920	1730	1430	1500	114749
1958	1090	830	638	3160	35360	169600	4310	1880	120000	2326000	1438000	540100	4640968
1959	116200	241900	235500	45330	60720	77180	37090	943	80240	91480	39400	63590	1089573
1960	131300	50000	45090	101800	62120	217800	125200	58410	70740	73260	40090	32020	1007830
1961	33250	50310	126400	106600	166500	148000	83050	107000	177700	94410	45220	82540	1220980
1962	126500	99420	61680	97130	156500	197600	59880	58270	50110	56680	36830	56650	1057250
1963	65230	63400	89580	130200	36540	181300	40160	63780	31570	70250	19440	16360	807810
1964	34890	28470	58690	71930	100100	90250	71850	41260	48770	102000	81760	61600	791570
1965	148400	37490	67820	111200	160600	209200	142500	34120	81080	28440	25310	12920	1059080
1966	24460	50480	49290	65910	77940	160600	254000	67420	506200	55300	64190	66010	1441800
1967	89200	53800	68550	137900	161800	155200	98050	257300	1863000	1043000	230200	185300	4343300
1968	220900	142200	99300	108600	157000	146100	134800	59620	160700	65430	72270	70730	1437450
1969	175400	96430	45650	101500	87480	226300	107700	52300	34250	40200	46930	63300	1077440
1970	32960	23480	46020	81100	101500	64820	49830	54040	27440	22580	37110	51140	592020
1971	119100	91930	83450	56180	133300	116300	25860	45900	902400	1382000	424300	216600	3597320
1972	114900	47500	46970	115600	46950	178400	120500	47250	201100	117700	58740	39020	1134630
1973	32490	33980	40950	178200	154200	368800	449700	394000	661700	638100	139400	84670	3176190
1974	116200	76420	72580	111300	135700	154000	75330	117100	239300	628400	272600	155600	2154530
1975	99080	49340	103660	192500	188800	103800	218500	738600	720500	150300	54700	52950	2672730
MAX	220900	241900	235500	192500	202400	368800	449700	738600	1863000	2326000	1438000	540100	4640968
MIN	1090	830	339	3160	35190	1480	2000	943	3920	1730	1430	1500	114749
MEAN	89426	65954	72486	93014	114827	150265	103623	110067	274105	310939	139055	85150	1608911
NO.	24	24	24	24	24	24	24	24	24	24	24	24	24
DISTR													
OF MEAN	5.6%	4.1%	4.5%	5.8%	7.1%	9.3%	6.4%	6.8%	17.0%	19.3%	8.6%	5.3%	100%

RIO GRANDE BASIN

08470000 Hackney Branch Floodway South of McAllen, Texas

LOCATION: Lat 26°08'30", long 98°14'30", Hidalgo County, 3.5 mi (5.6 km) south of McAllen, and at the bridge on State Highway 336.

PERIOD OF RECORD: August 1928 to December 1970.

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

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1928	-	-	-	-	-	-	-	0	0	0	0	0	-
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	97960	146330	0	0	244290
1933	0	0	0	0	0	0	0	0	86220	0	0	0	86220
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	6170	0	0	45300	0	0	0	51470
1936	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	926	1390	55400	0	0	0	57716
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	948	0	0	0	948
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	24140	105390	0	0	0	129530
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	565	7640	0	40800	0	0	0	49005
1949	0	0	0	19500	0	0	0	0	0	0	0	0	19500
1950	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	462000	254000	0	716000
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	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	413900	34240	0	0	448140
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
MAX	0	0	0	19500	0	6170	7640	24140	413900	462000	254000	0	716000
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	464	0	160	204	594	19673	14943	5907	0	41945
NO. OF MEAN	42	42	42	42	42	42	42	43	43	43	43	43	42
DISTR	.0%	.0%	.0%	1.1%	.0%	.4%	.5%	1.4%	46.9%	35.6%	14.1%	.0%	100%

RIO GRANDE BASIN

08470050 Main Floodway South of Weslaco, Texas

LOCATION: Lat 26°06'40", Long 97°59'30", Hidalgo County, at the bridge on Farm Road 88, and 3.0 mi (4.8 km) south of Weslaco.

PERIOD OF RECORD: January 1971 to December 1975.

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

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FeET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1971	0	0	0	0	0	0	0	0	106500	153200	0	0	259700
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	3190	21530	0	0	0	0	0	24720
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	3190	21530	0	106500	153200	0	0	259700
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	638	4306	0	21300	30640	0	0	56884
NO.	5	5	5	5	5	5	5	5	5	5	5	5	5
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	1.1%	7.6%	.0%	37.4%	53.9%	.0%	.0%	100%

RIO GRANDE BASIN
08470100 North Floodway West of Mercedes, Texas

LOCATION: Lat 26°08'30", Long 97°55'50", Hidalgo County, at the west city limits of Mercedes.

PERIOD OF RECORD: January 1958 to December 1975.

GAGE: Water-stage recorder and gravity well. Datum of gage is 0.16 ft (0.05 m) above mean sea level, U.S.C. & G.S. datum.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1958	0	0	0	0	0	0	0	0	0	638000	318000	0	956000
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	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	596300	84130	0	0	680430
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	73910	103400	0	0	177310
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	5130	0	0	0	0	0	5130
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	5130	0	596300	638000	318000	0	956000
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	285	0	37234	45863	17667	0	101049
NO.	18	18	18	18	18	18	18	18	18	18	18	18	18
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.0%	.3%	.0%	36.8%	45.4%	17.5%	.0%	100%

RIO GRANDE BASIN

08470200 North Floodway near Sebastian, Texas

LOCATION: Lat 26°18'50", long 97°46'35", Cameron County, at the bridge on U.S. Highway 77, 2.0 mi (3.2 km) south-southwest of Sebastian.

PERIOD OF RECORD: January 1940 to December 1975.

GAGE: Water-stage recorder and gravity well. Datum of gage is 0.37 ft (0.11 m) above mean sea level, U.S.C. & G.S. datum.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1940	0	0	0	0	0	0	0	0	0	136	861	4480	5477
1941	7450	6010	5380	5900	24200	9090	7170	1900	4740	2330	1390	2200	77760
1942	1400	1610	1880	2210	2890	7170	3480	1450	1520	2450	2420	2320	30800
1943	2990	2460	5010	2570	4150	2380	1060	605	2500	1870	1510	1830	28935
1944	1700	1800	3060	2240	3850	5030	2230	2490	125700	3990	2920	3540	158550
1945	2180	2330	2290	3540	2310	942	1190	2600	1400	3810	2440	3380	28412
1946	3510	2500	2150	1710	2290	3590	1350	889	6610	7180	3750	3670	39199
1947	3240	3700	4200	3650	4260	2520	865	7400	2930	3580	3560	3890	43795
1948	3500	4620	3670	1380	2550	602	11000	2180	60700	10200	6200	6100	112702
1949	5860	5280	6900	22000	13900	3860	4230	2930	4140	4460	4170	4790	82520
1950	5150	4990	5230	3980	10300	8010	3590	4020	3110	4380	3800	3790	60350
1951	1100	1470	2010	2700	5560	9110	3970	2200	16700	5660	3900	1830	56210
1952	622	112	193	88.7	2430	1930	1470	1210	1600	183	332	247	10418
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	658000	398000	0	1056000
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	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	570200	151600	0	0	721800
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	86400	117400	0	0	203800
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	7210	0	0	0	0	0	7210
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	7450	6010	6900	22000	24200	9110	11000	7400	570200	658000	398000	6100	1056000
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1075	1025	1166	1444	2186	1507	1356	830	24674	27145	12090	1169	75667
NO.	36	36	36	36	36	36	36	36	36	36	36	36	36
DISTR													
OF MEAN	1.4%	1.4%	1.5%	1.9%	2.9%	2.0%	1.8%	1.1%	32.6%	35.9%	16.0%	1.5%	100%

RIO GRANDE BASIN

08470300 Arroyo Colorado Floodway South of Mercedes, Texas

LOCATION: Lat 26°07'45", long 97°54'45", Hidalgo County, near the south city limits of Mercedes, and just upstream from the Hidalgo and Cameron Counties Water Control and Improvement District No. 9 El Fuste Siphon.

PERIOD OF RECORD: January 1948 to December 1975.

GAGE: Water-stage recorder and cableway. Datum of gage is 51.88 ft (15.8 m) above mean sea level, U.S.C. & G.S. datum.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1948	0	0	0	0	0	0	0	0	6680	0	0	0	6680
1949	0	0	0	3010	0	0	0	0	0	0	0	0	3010
1950	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	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	513800	36790	0	0	550590
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	31570	44630	0	0	76200
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	1980	16950	0	0	0	0	0	18930
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	3010	0	1980	16950	0	513800	44630	0	0	550590
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	108	0	70.7	605	0	19716	2908	0	0	23408
NO.	28	28	28	28	28	28	28	28	28	28	28	28	28
DISTR OF MEAN	.0%	.0%	.0%	.5%	.0%	.3%	2.6%	.0%	84.2%	12.4%	.0%	.0%	100%

RIO GRANDE BASIN

08470325 Delta Lake (Willacy Reservoir) near Monte Alto, Texas

LOCATION: Lat 26°25'09", long 97°57'22", Hidalgo County, 3.3 mi (5.3 km) north of Monte Alto.

PERIOD OF RECORD: February 1939 to December 1975.

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

EXTREMES: Period of record (1939-75): Maximum end-of-month contents, 25,800 ac-ft (31.8 hm³) June 1941; minimum end-of-month contents, the lake was dry during the period February through April 1951, February through May 1952, November 1952 through August 1953.

REMARKS: The lake is formed by an earthfill embankment, with a capacity of 24,350 ac-ft (30.02 hm³). The dam does not have a spillway, but water is pumped as needed for irrigation use. The dam was completed in the early 1920's and is operated by the Hidalgo and Willacy Counties Water Control and Improvement District No. 1. Records furnished by the International Boundary and Water Commission.

END OF MONTH CONTENTS IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1939	-	11400	9700	25000	20200	14400	12400	10100	13900	22900	11100	25600
1940	17200	8800	20900	21600	14200	20200	19300	16000	15200	18900	15800	15200
1941	15500	20000	18800	16600	16900	25800	25800	26900	24700	19300	22900	21200
1942	17500	15400	16000	16900	16600	20400	19000	16300	15800	19500	15800	15000
1943	17200	15500	18200	15000	15300	19800	27300	13800	20400	17100	17600	17600
1944	17500	18400	16700	8800	10900	17100	14800	17900	18500	13800	16200	16500
1945	14100	16500	11400	16300	10000	7400	16700	16600	13400	16800	16900	16500
1946	16900	17000	6200	6800	17000	15600	16400	7800	15400	13900	16000	18000
1947	17900	17200	14600	13000	17100	10500	4200	14000	15400	9600	9400	15900
1948	18300	18100	17000	4300	4500	3900	16000	12700	15500	13300	15800	16100
1949	16800	18600	17600	19100	19000	16700	15700	13600	15000	13400	14300	16000
1950	18000	16200	16700	4900	10400	9700	9000	12100	7000	13300	5000	4800
1951	3800	0	0	0	13400	12600	3500	4300	17100	21000	19900	18000
1952	4000	0	0	0	0	8600	14600	5900	4200	3300	0	0
1953	0	0	0	0	0	0	0	0	15500	18800	19200	18400
1954	19000	16800	20000	19700	13800	16800	15300	16300	15200	16400	14500	10500
1955	15000	17700	15300	16800	16200	12800	16600	14200	16800	12600	15000	12600
1956	16200	16400	20100	18600	13900	9000	6400	3900	6500	4300	6300	5100
1957	5000	1800	1400	1400	9500	15100	8400	1000	1100	500	16800	7800
1958	14100	14100	12600	14600	16500	17200	16200	13800	17600	19600	17300	17200
1959	16400	16700	14000	18700	15000	16600	18200	14700	13600	16500	14600	13200
1960	15800	14400	14200	19700	17600	18400	15100	15500	17300	18100	16800	15700
1961	16800	17200	18300	17200	16500	17600	15800	16200	12600	17100	15800	15400
1962	17100	15200	15000	13500	19800	19800	13400	14900	16400	14900	14800	14500
1963	13000	15200	13800	17100	16700	18000	14100	16500	16200	17200	15100	13400
1964	14600	13900	13000	14000	18400	12600	13200	8700	6600	17400	18600	17600
1965	15300	16700	13200	18200	16700	13100	17600	13200	13400	14500	14300	14100
1966	20400	15100	12300	14000	15400	15500	16000	14800	19000	16400	20200	17000
1967	18300	17500	14600	18500	17900	16600	18000	20400	22600	20400	19300	17700
1968	16600	15000	13500	15600	17300	19200	17600	14900	16200	16800	16300	13600
1969	18700	19700	17900	16500	18600	15000	18200	17500	21500	12800	14800	14600
1970	17000	14500	14500	13200	19900	19200	15800	17200	17000	16400	14500	18600
1971	18200	17800	16600	16100	15000	17000	19600	19200	17900	19200	17800	18100
1972	21600	18400	15700	18300	18600	17200	18800	14100	17600	17200	19500	17200
1973	16600	18600	17700	14200	14600	18800	19200	17400	17500	17000	17400	16100
1974	18400	18400	17200	19000	14000	15300	12700	18600	18900	18200	17800	18200
1975	18800	18600	19100	15500	16300	16200	16500	17000	16500	17100	16700	16900
MAX	21600	20000	20900	25000	20200	25800	27300	26900	24700	22900	22900	25600
MIN	0	0	0	0	0	0	0	0	1100	500	0	0
MEAN	15489	14670	13886	14019	14695	15127	15065	13730	15270	15554	15408	15132
NO.	36	37	37	37	37	37	37	37	37	37	37	37
DISTR												
OF MEAN	8.7%	8.2%	7.8%	7.9%	8.3%	8.5%	8.5%	7.7%	8.6%	8.7%	8.7%	8.5%

RIO GRANDE BASIN

08470400 Arroyo Colorado Floodway South of Harlingen, Texas

LOCATION: Lat 26°10'20", long 97°41'55", Cameron County, at the bridge on the south service road on U.S. Highway 83, and at the south city limits of Harlingen.

PERIOD OF RECORD: January 1953 to December 1975.

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

REMARKS: Records good. Records furnished by the International Boundary and Water Commission

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	236000	91800	0	327800
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	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	513400	36930	0	0	550330
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	45160	49660	0	0	94820
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	1540	19780	0	0	0	0	0	21320
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	1540	19780	0	513400	236000	91800	0	550330
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	67.0	860	0	24285	14026	3991	0	43229
NO.	23	23	23	23	23	23	23	23	23	23	23	23	23
DISTR OF MEAN	.0%	.0%	.0%	.0%	.0%	.2%	2.0%	.0%	56.2%	32.4%	9.2%	.0%	100%

RIO GRANDE BASIN

08471500 Rio Grande at Hidalgo, Texas

LOCATION: Lat 26°05'43", long 98°16'17", Hidalgo County, at the International Bridge between Hidalgo and Reynosa, Tamaulipas, and 1,089.3 mi (1,752.7 km) downstream from the American Dam.

DRAINAGE AREA: 176,125 mi² (456,163.8 km²).

PERIOD OF RECORD: August 1928 to October 1958 (scattered record).

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

AVERAGE DISCHARGE: 10 years (1928-32, 1936-39, 1938-39, 1958), 4,850,348 ac-ft/yr (6,980.5 hm³/yr).

EXTREMES: Period of record (1928-58): Maximum discharge, 83,870 ft³/s (2,375.2 m³/s) October 2, 1932, gage height, 25.85 ft (7.88 m).

REMARKS: Records good. This station is operated during high flows only. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1928	-	-	-	-	-	-	-	397000	946000	363000	313000	270000	-
1929	205000	141000	164000	183000	282000	183000	252000	267000	422000	283000	168000	208000	2778000
1930	148000	132000	91600	193000	462000	1010000	188000	227000	142000	1060000	536000	275000	4464600
1931	255000	329000	250000	202000	542000	335000	558930	400270	209830	195180	166750	211120	3655080
1932	-	-	-	-	-	-	-	-	2432150	2580790	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	138000	115000	115000	175000	574000	1522000	466000	-	1570000	-	-	-	-
1936	-	-	-	-	71600	-	692000	-	1116000	171000	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	-	-	-
1938	-	-	-	31500	181000	70500	989000	978000	1681000	653000	225000	214000	-
1939	199000	159000	126000	124000	602000	239000	136000	372000	275000	412000	-	-	-
1940	-	-	-	-	-	-	-	-	-	-	-	-	-
1941	-	-	-	-	-	-	-	-	-	-	-	-	-
1942	-	-	-	-	-	-	-	-	-	-	-	-	-
1943	-	-	-	-	-	-	-	-	-	-	-	-	-
1944	-	-	-	-	-	-	-	-	-	-	-	-	-
1945	-	-	-	-	-	-	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	1753400	-	-	-
MAX	255000	329000	250000	202000	602000	1522000	989000	978000	2432150	2580790	536000	275000	4464600
MIN	138000	115000	91600	31500	71600	70500	136000	227000	142000	171000	166750	208000	2778000
MEAN	189000	175200	149320	151417	387800	559917	468847	440212	977109	830152	285750	235624	4850348
NO.	5	5	5	6	7	6	7	6	9	9	5	5	3
DISTR OF MEAN	3.9%	3.6%	3.1%	3.1%	8.0%	11.5%	9.7%	9.1%	20.1%	17.1%	5.9%	4.9%	100%

RIO GRANDE BASIN

08472000 Rio Grande at Buenos Aires, Tamaulipas

LOCATION: Lat. 26°02'28". Long 98°04'02". Hidalgo County, 9.3 mi (15.0 km) south of Donna, 1.9 mi (3.1 km) upstream from the Retamal Canal intake, and 1,107.2 mi (1,781.5 km) downstream from the American Dam.

DRAINAGE AREA: 171,835 mi² (445,052.6 km²).

PERIOD OF RECORD: January 1943 to August 1944.

GAGE: Water-stage recorder and cableway. Datum of gage is 0.85 ft (0.26 m) above mean sea level, U.S.C. & G.S. datum.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1943	286800	166000	136600	122000	177900	303500	269400	115900	210400	351000	169300	183100	2491900
1944	169200	108100	104400	45850	258400	251200	136900	749300	-	-	-	-	-
MAX	286800	166000	136600	122000	258400	303500	269400	749300	210400	351000	169300	183100	2491900
MIN	169200	108100	104400	45850	177900	251200	136900	115900	210400	351000	169300	183100	2491900
MEAN	228000	137050	120500	83925	218150	277350	203150	432600	210400	351000	169300	183100	2614525
NÓ.	2	2	2	2	2	2	2	2	1	1	1	1	1
DISTR													
OF MEAN	8.7%	5.2%	4.6%	3.2%	8.3%	10.6%	7.8%	16.5%	8.0%	13.4%	6.5%	7.0%	100%

RIO GRANDE BASIN

08473000 Rio Grande at Las Palmas, Tamaulipas

LOCATION: Lat 28°02'32", long 98°02'16", Hidalgo County, 1,640 ft (499.9 m) downstream from the Retamal Canal intake, 24.2 mi (38.9 km) downstream from Hidalgo, and 1,109.0 mi (1,784.4 km) downstream from the American Dam.

DRAINAGE AREA: 171,840 mi² (445,065.6 km²).

PERIOD OF RECORD: November 1945 to April 1949.

GAGE: Water-stage recorder and cableway. Datum of gage is 0.85 ft (0.26 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 5 years, 2,628,632 ac-ft/yr (3,241.1 hm³/yr).

EXTREMES: Period of record (1945-49): Maximum discharge, 42,020 ft³/s (1,190.0 m³/s) April 28, 1949, gage height, 82.15 ft (25.04 m); minimum discharge, 14.5 ft³/s (0.41 m³/s) May 12, 1948, gage height, 61.68 ft (18.80 m).

REMARKS: Records good. Reservoirs, diversions, and drainage returns modify the flow at this station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1945	-	-	-	-	-	-	-	-	-	-	173000	151100	-
1946	172100	123000	63240	116300	389400	431100	146900	80040	323600	525400	112000	103000	2586080
1947	132500	92090	77640	57750	207400	265300	61390	466800	322700	85060	92170	113800	1974600
1948	83630	100100	101300	45050	85690	239500	565300	78570	725400	363500	182300	89560	2659900
1949	91260	216600	267100	607200	-	-	-	-	-	-	-	-	-
MAX	172100	216600	267100	607200	389400	431100	565300	466800	725400	525400	182300	151100	2659900
MIN	83630	92090	63240	45050	85690	239500	61390	78570	322700	85060	92170	89560	1974600
MEAN	119873	132948	127320	206575	227497	311967	257863	208470	457233	324653	139868	114365	2628632
NO.	4	4	4	4	3	3	3	3	3	3	4	4	3
DISTR													
OF MEAN	4.6%	5.1%	4.8%	7.9%	8.7%	11.9%	9.8%	7.9%	17.4%	12.4%	5.3%	4.4%	100%

RIO GRANDE BASIN

08473300 Rio Grande at Progreso Bridge near Progreso, Texas

LOCATION: Lat 26°03'45" long 97°57'00", Hidalgo County, at the Progreso International Bridge, 2.0 mi (3.2 km) south of Progreso, and 1,125.0 mi (1,810.1 km) downstream from the American Dam.

DRAINAGE AREA: 176,288 mi² (456,585.9 km²).

PERIOD OF RECORD: January 1953 to December 1975.

GAGE: Water-stage recorder and gravity well. Datum of gage is at mean sea level. January 1953 to December 31, 1968, datum was 52.56 ft (16.02 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 24 years, 1,357,667 ac-ft/yr (1,674.0 hm³/yr).

EXTREMES: Period of record (1953-75): Maximum discharge, 60,700 ft³/s (1,719.0 m³/s) September 26, 1967, gage height, 24.84 ft (7.57 m); no flow during several days in June, July, and August 1953.

REMARKS: Records good. The flow is largely regulated by Falcon Dam (station 08461200) since August 25, 1953. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	20800	14100	30000	36900	20600	305	1310	-	-	-	-	65900	-
1954	112920	83210	77520	82390	112000	153600	45280	53820	48150	48690	40430	62410	920420
1954	112920	83210	77520	82390	112000	153600	45280	53820	48150	48690	40430	62410	920420
1955	114900	67740	72870	117400	146100	155700	52580	43100	21650	25390	53470	46290	917190
1956	129500	57220	60100	35980	103600	64460	16970	10400	45940	14030	18000	7370	563570
1957	17340	17530	4990	32060	99390	63350	41910	47690	41150	46900	28730	41370	462410
1958	18820	12620	11600	65600	88030	145600	36230	54910	93380	1028000	735000	487200	2776990
1959	241800	371900	379400	144000	101300	111900	116400	65020	90860	79230	36400	61580	1799790
1960	114100	72800	48250	87980	68980	176300	93200	50970	66870	61070	35590	30480	906590
1961	35160	39030	89360	89990	127500	116800	59590	85070	156700	71600	37550	63530	971880
1962	105800	71420	46430	72330	114100	159700	43090	42970	36200	36380	28560	45740	804720
1963	61810	51800	59090	99220	33160	133600	28870	48710	24130	54640	18420	16430	629880
1964	27960	27080	41370	55830	85280	67200	55500	30430	36330	71870	59680	50520	609050
1965	109400	33670	40750	84240	138400	157500	107500	24250	59800	24300	22920	13560	816290
1966	21790	49060	42430	56180	74860	130100	235800	46680	457500	56030	47520	45720	1263670
1967	79000	39880	49150	101800	138500	123500	75380	189600	837500	819700	220900	194400	2869310
1968	226000	146600	100700	104500	153000	108100	125400	51810	148800	56480	58340	60850	1340580
1969	140600	91450	43450	74820	84580	172300	94680	44540	34840	22720	34410	60150	898540
1970	35960	22030	32930	58530	92290	50860	45190	44910	25840	17240	30540	43390	499730
1971	95930	74550	59000	42930	105500	91680	21870	37340	719500	1377000	435200	230600	3291100
1972	108000	49520	88500	90680	57560	180800	112000	47160	171500	117400	54920	35590	1073630
1973	38540	38340	37250	157500	127300	279400	466600	358500	636700	643400	136000	75780	2995310
1974	105400	59810	61250	97780	92420	122300	57700	86630	202100	611400	261600	152000	1910390
1975	98750	45740	72640	150200	154600	92590	201000	715700	699500	156200	52180	45120	2484220
MAX	241800	371900	379400	157500	154600	279400	466600	715700	837500	1377000	735000	487200	3291100
MIN	17340	12620	4990	32060	20600	305	1310	10400	21650	14030	18000	7370	482410
MEAN	90550	67513	66106	84218	101294	125469	90805	97132	204482	238711	108121	83266	1357667
NO.	24	24	24	24	24	24	24	23	23	23	23	24	23
DISTR													
OF MEAN	6.7%	5.0%	4.9%	6.2%	7.5%	9.2%	6.7%	7.2%	15.1%	17.6%	8.0%	6.1%	100%

RIO GRANDE BASIN

08473500 Rio Grande at Mercedes Bridge near Mercedes, Texas

LOCATION: Lat 26°03'36", long 97°53'34", Hidalgo County, 500 ft (152.4 m) upstream from the International Bridge between Mercedes and Rio Rico, Tamulipas.

DRAINAGE AREA: 176,289 mi² (456,588.5 km²).

PERIOD OF RECORD: September and October 1932, April to September 1935, July, September, and October 1936, October to December 1937.

GAGE: Staff gage. Datum of gage is 50.53 ft (15.40 m) above mean sea level, U.S.C. & G.S. datum.

AVERAGE DISCHARGE: 4 years (1932, 1935-37), 5,549,667 ac-ft/yr (6,842.7 hm³/yr).

EXTREMES: Period of record (1932, 1935-37): Maximum discharge, 40,000 ft³/s (1,132.8 m³/s) September 11, 1935, gage height, 76.00 ft (23.35 m).

REMARKS: Records fair. The flow is modified by reservoirs and diversions above the station. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1932	-	-	-	-	-	-	-	-	1913000	2025000	-	-	-
1933	-	-	-	-	-	-	-	-	-	-	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	-	-
1935	-	-	-	-	493000	1443000	435000	212000	1227000	-	-	-	-
1936	-	-	-	-	-	-	671000	-	1140000	211000	-	-	-
1937	-	-	-	-	-	-	-	-	-	-	128000	176000	-
MAX	-	-	-	-	493000	1443000	671000	212000	1913000	2025000	128000	176000	-
MIN	-	-	-	-	493000	1443000	435000	212000	1140000	211000	128000	176000	-
MEAN	-	-	-	-	493000	1443000	553000	212000	1426667	1118000	128000	176000	5549667
NO. OF MEAN	0	0	0	0	1	1	2	1	3	2	1	1	0
DISTR													
OF MEAN	.0%	.0%	.0%	.0%	8.9%	26.0%	10.0%	3.8%	25.7%	20.1%	2.3%	3.2%	100%

RIO GRANDE BASIN
08473700 Rio Grande near San Benito, Texas

LOCATION: Lat 26°02'00", long 97°43'40", Cameron County, 9.5 mi (15.3 km) southwest of San Benito, 5.6 mi (9.0 km) downstream from the San Benito Pumping Plant, and 1,152.3 mi (1,854.0 km) downstream from the American Dam.

DRAINAGE AREA: 178,304 mi² (456,627.4 km²).

PERIOD OF RECORD: January 1953 to December 1975.

GAGE: Water-stage recorders (graphic and digital), cableway, and concrete control weir. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 23 years, 884,424 ac-ft/yr (1,090.5 hm³/yr).

EXTREMES: Period of record (1953-75): Maximum discharge, 25,000 ft³/s (708 0 m³/s) September 28, 1967, gage height, 61.05 ft (18.6 m); no flow at times.

REMARKS: Records good. The flow is largely regulated by Falcon Dam (station 08461200) since August 25, 1953. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1953	6260	6510	12000	14100	7770	53.8	34.9	-	-	-	-	28300	-
1954	28400	21500	15800	45400	31500	62100	20400	16600	15000	28000	5740	18100	308540
1955	25100	15700	14600	34800	36900	41400	21700	12000	11500	5620	12400	15300	247020
1956	37000	16900	12600	11500	20200	16100	7790	3100	8420	3840	5640	2430	145520
1957	5460	6060	2560	12600	57100	19200	4690	9750	7710	14200	6860	10900	157090
1958	2920	3380	5510	14400	27600	42300	13800	11700	58500	803000	662000	479000	2124110
1959	227000	363000	360000	118000	45800	56100	37000	33300	33000	47300	21900	25800	1368200
1960	44900	42100	26900	47700	35200	58200	39000	29000	55000	36200	26300	22900	463400
1961	23600	20600	29800	43800	49000	52400	28200	65600	143000	46000	27900	34500	564400
1962	34260	25080	23230	34380	37600	65550	23770	19240	11270	15480	13810	21450	325120
1963	29870	17620	13830	26230	16870	52020	15000	14640	11180	23880	10270	11550	242960
1964	8350	10260	15290	16260	40150	22170	19600	13070	15670	15910	15990	19270	211990
1965	25830	17340	13250	25440	70170	45580	33030	12120	17770	13990	12210	8430	295160
1966	11420	42600	36860	27760	67580	81120	197200	16240	408900	44870	21860	16350	972760
1967	27090	14730	17860	26870	61770	39800	26110	136700	599600	826800	207400	168100	2152830
1968	209900	137000	96760	77700	128600	56210	92450	32040	116100	32590	31430	36910	1047690
1969	37260	55530	34400	19800	36430	43960	30300	18490	30750	9880	10490	43850	371160
1970	24020	16230	12430	17460	37910	24170	28470	16880	12870	11590	11960	10800	224790
1971	27530	21830	15480	18080	26800	21120	12680	24000	473700	880800	392100	196200	2110320
1972	50250	28040	33380	32120	44320	146900	67740	33640	119000	90270	23410	18420	687490
1973	27320	26690	27890	107200	48230	159600	440200	316900	572500	613200	123700	55420	2518850
1974	42780	22060	25470	39760	27720	45330	16620	21010	148100	582100	252600	131800	1355350
1975	56760	24470	20090	35200	55580	40180	139400	675800	638800	130800	28230	15690	1861000
MAX	227000	363000	360000	118000	128600	159600	440200	675800	638800	880800	662000	479000	2518850
MIN	2920	3380	2560	11500	7770	53.8	34.9	3100	7710	3840	5640	2430	145520
MEAN	44056	41532	37652	36807	43948	51808	57182	69628	159470	194378	87464	60499	884424
NO.	23	23	23	23	23	23	23	22	22	22	22	23	22
DISTR													
OF MEAN	5.0%	4.7%	4.3%	4.2%	5.0%	5.9%	6.5%	7.9%	18.0%	22.0%	9.9%	6.8%	100%

RIO GRANDE BASIN

08474000 Rancho Viejo Floodway near Brownsville, Texas

LOCATION: Lat 25°59'22", long 97°36'05", Cameron County, at the Military Highway Bridge, and 9.0 mi (14.5 km) northwest of Brownsville.

PERIOD OF RECORD: January 1935 to December 1947.

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

EXTREMES: Period of record (1935-47): Maximum discharge, 3,420 ft³/s (96.8 m³/s) June 6, 1935; no flow most of the time.

REMARKS: Records good. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1935	0	0	0	0	19500	90000	0	0	46500	0	0	0	156000
1936	0	0	0	0	4360	0	10900	0	31400	19600	0	0	66260
1937	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	3800	5570	22900	9860	0	0	42130
1939	0	0	0	0	664	0	0	0	0	638	0	0	1302
1940	0	0	399	0	0	750	0	0	0	331	0	0	1480
1941	0	0	0	0	0	2080	0	0	756	3620	0	0	6456
1942	0	0	0	0	0	0	2160	0	6120	0	0	0	8280
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	399	0	19500	90000	10900	5570	46500	19600	0	0	156000
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	30.7	0	1886	7141	1297	428	8283	2619	0	0	21685
NO.	13	13	13	13	13	13	13	13	13	13	13	13	13
DISTR OF MEAN	.0%	.0%	.1%	.0%	8.7%	32.9%	6.0%	2.0%	38.2%	12.1%	.0%	.0%	100%

RIO GRANDE BASIN
08474500 Rio Grande at Matamoros, Tamaulipas

LOCATION: Lat 25°53'30", long 97°30'18", Cameron County, at the railroad bridge between Brownsville and Matamoros, Tamaulipas, 3.7 mi (6.0 km) downstream from the Brownsville Pumping Plant, and 1,192.5 mi (1,918.7 km) downstream from the American Dam.

DRAINAGE AREA: 176,329 mi² (456,602.1 km²).

PERIOD OF RECORD: May 1900 to December 1913, October 1922 to June 1954, August 1954 to December 1975 (floodflows only).

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

AVERAGE DISCHARGE: 51 years (1900-13, 1922-54, 1958, 1967, 1971, 1973), 3,611,643 ac-ft/yr (4,453.2 hm³/yr).

EXTREMES: Period of record (1900-13, 1922-54, 1958, 1967, 1971, 1973): Maximum discharge, 36,320 ft³/s (1,028.6 m³/s) June 22, 1903; no flow at times.

REMARKS: Records good. Since July 16, 1954, the station was operated only during flood periods. The flow is largely regulated by Falcon Dam (station 08461200) since August 25, 1953. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1900	-	-	-	-	991000	753000	668000	1180000	895000	781000	369000	289000	-
1901	204000	154000	149000	111000	297000	213000	213000	231000	458000	398000	230000	230000	3000000
1902	158000	115000	101000	149000	228000	83600	208000	457000	824000	517000	184000	242000	3266600
1903	156000	138000	159000	98000	331000	949000	641000	740000	531000	414000	181000	136000	4474000
1904	123000	112000	94700	137000	274000	394000	311000	147000	1195000	1606600	810000	509000	5713300
1905	302000	192000	442000	423000	591000	947000	1098000	1006000	803000	776000	578000	548000	7706000
1906	411000	308000	308000	191000	346000	429000	1230000	1492000	1385000	726000	431000	467000	7724000
1907	340000	275000	224000	181000	517000	490000	690000	315000	647000	480000	589000	591000	5339000
1908	324000	147000	138000	449000	374000	219000	236000	842000	756000	261000	162000	111000	4019000
1909	134000	107000	113000	104000	157000	313000	1202000	1022000	1472000	463000	230000	193000	5510000
1910	236000	140000	117000	205000	251000	190000	178000	51500	856000	449000	163000	136000	2972500
1911	113000	94200	123000	199000	364000	315000	423000	460000	344000	576000	451000	200000	3662200
1912	154000	122000	84500	135000	160000	693000	328000	249000	864000	627000	169000	179000	3764500
1913	145000	116000	197000	79400	289000	346000	322000	161000	378000	1365000	320000	372000	4090400
1914	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	-	-	-	-	-	-	-
1916	-	-	-	-	-	-	-	-	-	-	-	-	-
1917	-	-	-	-	-	-	-	-	-	-	-	-	-
1918	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	-	-	-	-	-	-	-	-	-	-	-	-	-
1922	-	-	-	-	-	-	-	-	-	516000	319000	214000	-
1923	142000	281000	335000	244000	112000	113000	206000	169000	1110000	904000	549000	493000	4658000
1924	491000	268000	207000	101000	217000	349100	126000	73200	607000	615000	261000	258000	3573300
1925	214000	76400	77200	102000	133000	589000	297000	834000	1120000	820000	367000	268000	4897600
1926	295000	193000	174000	318000	461000	369000	519000	383000	513000	508000	384000	232000	4349000
1927	181000	172000	78700	101000	99400	611000	557000	175000	211000	461000	147000	163000	2957100
1928	177000	123000	71500	57700	476000	196000	54400	295000	720000	341000	255000	230000	2996600
1929	161730	71350	90950	162610	191810	179310	226020	201420	379440	278840	185890	200370	2349740
1930	127780	95960	27660	90760	400770	1180380	247540	248290	124060	911460	563910	244660	4263450
1931	223150	328330	219290	159230	478410	277810	542960	347230	153380	124280	114640	177970	3146680
1932	147290	90770	105530	75810	225010	34590	156920	187270	1253590	1287410	827490	594220	4985900
1933	463980	323546	240770	150460	149180	216230	383520	644280	1259620	1129760	478130	305890	5745166
1934	299000	236000	163000	242000	270000	177000	183000	171000	204000	195000	99600	98700	2358300
1935	106000	81600	32700	122000	462000	1162000	448000	258000	951000	632000	352000	305000	4912300
1936	281000	178000	150000	89100	483000	185000	629000	152000	1017000	661000	240000	248000	4313100
1937	207000	158000	145000	56900	114000	249000	183000	79000	160000	340000	113000	168000	1972900
1938	223000	131000	144000	92800	116000	31700	554000	685000	1082000	605000	189000	172000	4025500
1939	170000	126000	63400	56900	503000	228000	68100	295000	229000	262000	95700	69700	2166800
1940	92230	28470	209480	108740	224670	481590	303050	236160	391860	251460	188170	181690	2697570
1941	161900	188700	149100	164600	721200	943950	590500	375300	912200	1408600	623300	340200	6579550
1942	288500	180300	113400	80180	349700	457600	756600	383500	1363200	846300	334500	192000	5345780
1943	223800	104000	62780	66590	90390	244600	162600	63200	146800	255600	120100	139900	1680360
1944	124600	53420	51020	15450	112200	184300	86040	404600	1309000	707500	195800	110300	3354230
1945	181500	154300	42110	155600	34630	2580	232800	33200	24740	803600	134400	110400	1909860
1946	153900	121500	18240	51340	250200	416800	97870	12290	274000	525600	87150	61560	2070450
1947	102100	34070	29960	16570	152200	194900	22940	423600	271900	28150	26820	89770	1392980
1948	34690	88850	86790	2410	38440	104300	489700	28590	598900	358400	146200	33690	2010960
1949	33450	155300	313600	425800	451400	132100	77870	419000	230300	195300	128800	98910	2661830

RIO GRANDE BASIN

08474500 Rio Grande at Matamoros, Tamaulipas—Continued

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1950	55190	11620	51520	12540	88530	163900	62430	46740	62820	150400	4790	5610	716090
1951	842	2160	3110	2690	165000	97190	7630	7110	287500	87940	31420	5080	697672
1952	2250	1160	748	627	13390	89210	93570	11050	3780	2990	2870	2230	223875
1953	1870	1310	1660	4580	935	20.3	0	69640	319400	228800	28440	23300	679955
1954	12080	8050	3970	35830	9750	39460	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-	-	-	589900	-	-	-
1959	-	-	-	-	-	-	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-	-	-	-	-	-	-
1963	-	-	-	-	-	-	-	-	-	-	-	-	-
1964	-	-	-	-	-	-	-	-	-	-	-	-	-
1965	-	-	-	-	-	-	-	-	-	-	-	-	-
1966	-	-	-	-	-	-	-	-	-	-	-	-	-
1967	-	-	-	-	-	-	-	-	526200	-	-	-	-
1968	-	-	-	-	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	-	-	-	-	-	-	-	-
1970	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	900600	-	-	-
1972	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	-	-	-	-	-	585900	-	-	-	-
1974	-	-	-	-	-	-	-	-	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX	491000	328330	442000	449000	991000	1180380	1230000	1492000	1472000	1606600	827490	594220	7724000
MIN	842	1160	748	627	935	20.3	0	7110	3780	2990	2870	2230	223875
MEAN	182196	135275	127413	129494	277483	348592	358064	357004	634268	570261	273329	218264	3611643
NO.	45	45	45	45	46	46	45	45	47	48	46	46	44
DISTR OF MEAN	5.0%	3.7%	3.5%	3.6%	7.7%	9.7%	9.9%	9.9%	17.6%	15.8%	7.6%	6.0%	100%

RIO GRANDE BASIN

08475000 Rio Grande near Brownsville, Texas

LOCATION: Lat 25°52'35", Long 97°27'15", Cameron County, 6.8 mi (10.9 km) downstream from the International Bridge between Brownsville, and Matamoros, Tamaulipas, and 1,200.0 mi (1,930.8 km) downstream from the American Dam.

DRAINAGE AREA: 176,333 mi² (456,702.5 km²).

PERIOD OF RECORD: January 1934 to December 1975.

GAGE: Water-stage recorders (graphic and digital) and cableway. Datum of gage is at mean sea level.

AVERAGE DISCHARGE: 42 years, 1,580,337 ac-ft/yr (1,959.6 hm³/yr).

EXTREMES: Period of record (1934-75): Maximum discharge, 31,700 ft³/s (897.7 m³/s) October 8, 1945, gage height, 31.48 ft (9.60 m); no flow at times.

REMARKS: Records good. The flow is largely regulated by Falcon Dam (station 08461200) since August 25, 1953. Records furnished by the International Boundary and Water Commission.

DISCHARGE IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNUAL
1934	299000	237000	183000	242000	307000	193000	193000	183000	217000	200000	104000	99800	2457800
1935	106000	78000	29700	117000	459000	1161000	442000	257000	948000	629000	349000	302000	4877700
1936	278000	176000	145000	65000	449000	179000	587000	159000	883000	586000	230000	240000	3997000
1937	207000	159000	136000	50700	110000	255000	178000	77900	150000	315000	111000	162000	1911600
1938	220000	124000	142000	91200	118000	32000	486000	679000	1045000	605000	175000	162000	3879200
1939	165000	124000	58600	50500	491000	213000	65900	287000	233000	252000	94200	64800	2099000
1940	88200	26300	199000	108000	215000	451000	307000	242000	396000	240000	187000	180000	2639500
1941	159000	207000	151000	163000	717000	921000	574000	371000	881000	1427000	614000	341000	6526000
1942	282000	179000	107000	78400	340000	443000	759000	369000	1337000	840000	322000	185000	5241400
1943	225000	103000	59400	65100	82600	254000	156000	62600	134000	259000	120000	142000	1662700
1944	115000	48800	46900	12500	90800	198000	81300	335000	1234000	666000	183000	96500	3107800
1945	165000	140000	39100	134000	29900	1380	204000	26500	21300	759000	112000	93500	1725680
1946	142000	115000	18600	51500	229000	401000	92800	6000	252000	489000	74200	56400	1927500
1947	88900	24400	24800	11900	138000	178000	15500	385000	262000	21700	21500	84800	1256500
1948	31600	79700	79800	1130	32800	95000	470000	11300	575000	348000	159000	26800	1910130
1949	28000	139000	311000	372000	432000	129000	72500	406000	218000	188000	127000	100000	2522500
1950	53700	9450	49800	10600	74700	159000	60800	45200	52000	161000	3590	2670	682510
1951	55.9	552	605	1120	146000	81000	6040	9750	261000	78100	31300	3350	618873
1952	242	137	40.5	221	9850	81200	81800	9200	981	850	1070	337	185929
1953	552	626	349	1190	53.6	0	0	63000	310000	232000	28700	17000	653471
1954	7240	6080	2050	31800	4550	36600	35300	5250	4700	28400	5750	6890	154610
1955	6470	6630	3230	9060	6220	7910	15500	6050	12300	1890	4500	4240	84000
1956	4970	4950	2730	5680	4140	2430	1310	818	950	756	1290	572	30596
1957	283	1060	2140	875	32200	22200	1120	218	1310	1830	3400	524	67160
1958	1960	3640	4680	2060	10800	10600	12900	1840	35000	567000	528000	480000	1658480
1959	224000	362000	361000	127000	33900	49600	28800	32400	24700	45200	19400	17100	1325100
1960	26000	35100	26000	38000	27600	25700	28400	24200	52600	30800	25700	18200	358300
1961	22300	14600	15400	33800	32200	37500	17900	56000	134000	44000	31800	26800	466300
1962	14780	13250	12650	25100	21440	33830	21540	11790	8120	8500	7470	12320	190990
1963	11370	6430	5040	5450	12480	30170	13620	5210	6740	12930	8160	8270	125850
1964	3180	6020	7200	6590	19180	10080	5230	4240	4290	6620	5490	11160	89280
1965	4210	11950	4540	3900	33350	10310	8980	8260	7190	10480	7620	6900	117690
1966	9010	41560	35070	15170	63460	60840	190600	8030	374200	47830	21460	9500	876730
1967	13850	7500	8020	5930	36920	18870	9950	97790	516300	738600	230300	179200	1863230
1968	209800	147800	98290	72760	127600	46370	87380	23040	111600	25980	26050	28000	1004670
1969	10960	44730	37550	8170	26860	14430	16500	11440	26600	7200	5800	38830	249070
1970	21760	16600	4960	10120	19140	17010	17780	9400	8670	11590	9530	5350	151910
1971	5990	9210	4150	9380	9460	4510	10000	22780	400100	887200	410100	223100	1995980
1972	52500	30190	39650	15180	48660	143500	63310	32550	88780	104200	22220	18030	658770
1973	23780	27390	27390	95300	29770	102700	437500	304500	545100	639200	134900	55410	2422940
1974	29890	10400	15480	25100	10020	25920	8540	6250	111900	578300	264700	128300	1214800
1975	50960	16520	9330	10680	22470	36320	123000	653200	635700	159800	30640	14260	1762880
MAX	299000	362000	361000	372000	717000	1161000	759000	679000	1337000	1427000	614000	480000	6526000
MIN	55.9	137	40.5	221	53.6	0	0	218	950	756	1070	337	30596
MEAN	81179	66538	59725	52480	121526	146976	142090	126422	298122	291785	115520	86974	1589337
NO.	42	42	42	42	42	42	42	42	42	42	42	42	42
DISTR OF MEAN	5.1%	4.2%	3.8%	3.3%	7.6%	9.2%	8.9%	8.0%	18.8%	18.4%	7.3%	5.5%	100%

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08166000 Johnson Creek near Ingram	573	9
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08167000 Guadalupe River at Comfort	575	11
08167500 Guadalupe River near Spring Branch	576	12
08167600 Rebecca Creek near Spring Branch	577	14
08167700 Canyon Lake near New Braunfels	578	15
08167800 Guadalupe River at Sattler	579	16
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08171000 Blanco River at Wimberly	585	22
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08172000 San Marcos River at Luling	587	25
08172400 Plum Creek at Lockhart	588	26
08173000 Plum Creek near Luling	589	28
08173500 San Marcos River at Ottine	590	29
08174500 Peach Creek near Dilworth	591	30
08174600 Peach Creek below Dilworth	592	31
08175000 Sandies Creek near Westhoff	593	32
08175800 Guadalupe River at Cuero	594	33
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08177000 Coleto Creek near Schroeder	596	36
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08178500 San Pedro Creek at San Antonio	600	41
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08181500 Medina River at San Antonio	611	56
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08182400 Calaveras Creek Subwatershed No. 6 near Elmendorf	613	58
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08183000 San Antonio River at Calaveras	615	60
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08183900 Cibolo Creek near Boerne	617	63
08184000 Cibolo Creek near Bulverde	618	64
08184500 Cibolo Creek above Bracken	619	65
08185000 Cibolo Creek at Selma	620	66
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08187000 Escondido Creek Subwatershed No. 1 near Kenedy	624	70
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08189200 Copano Creek near Refugio	631	78
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08199700 Frio River near Frio Town	650	100
08200000 Hondo Creek near Tarpley	651	101
08200500 Hondo Creek near Hondo	652	102
08200700 Hondo Creek at King Waterhole near Hondo	653	103
08201500 Seco Creek at Miller Ranch near Utopia	654	104
08202000 Seco Creek near Utopia	655	105
08202500 Seco Creek near D'Hanis	656	106
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08204000 Leona River Spring Flow near Uvalde	658	108
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08210300 Ramirena Creek near George West	666	120
08210400 Lagarto Creek near George West	667	121
08210500 Lake Corpus Christi near Mathis	668	122
08211000 Nueces River near Mathis	669	123
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08407500 Pecos River at Red Bluff, New Mexico	713	172
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