UNITED STATES OF AMERICA
DEPARTMENT OF STATE

INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO

WATER BULLETIN NUMBER 76

Flow of the Rio Grande

and

Related Data

From Elephant Butte Dam, New Mexico

to the Gulf of Mexico

2006

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FOREWORD

This bulletin presents the seventy-sixth compilation of the stream discharges and related data concerning the international portion of the Rio Grande, prepared jointly by the United States and Mexican Sections of the International Boundary and Water Commission. The streamflow data and kindred subjects pertain to the Rio Grande and its important tributaries near their confluence with the main stream from Elephant Butte, New Mexico to the Gulf of Mexico. The first publication in the series was Water Bulletin No. 1 for the year 1931. The present volume contains information for the year 2006.

International stream gaging on the Rio Grande was initiated in 1889, when the station at El Paso, Texas was established. Several stations on the Rio Grande and its tributaries downstream from El Paso were established in 1900 and operated until 1914. Between 1914 and 1923, except for a few months in 1919 and 1920, all stream-gaging work on the international reach of the river was suspended. In 1923 the work was resumed and carried on independently by the two countries until 1931, when the present joint program of stream measurements was adopted.

During 2006 the United States Section of the Commission operated the stream-gaging stations on the Rio Grande at El Paso, Below American Dam, Fort Quitman, Candelaria, Above Rio Conchos, Below Rio Conchos, Johnson Ranch, Foster Ranch, Del Rio, El Indio, Laredo, Rio Grande City, San Benito, and Brownsville. The Mexican Section operated the stream-gaging stations on the Rio Grande at Below Amistad Dam, Jimenez, Piedras Negras, and Below Anzalduas Dam. The station at Below Falcon Dam was operated jointly by the two Sections. Each Section operated the gaging stations on tributary streams, floodways, diversions, and return flow channels within its own country.

In 1976 the names of several gaging stations were changed, pursuant to agreement between the two Sections of the Commission. Where it was decided that some confusion might result from this change, a note giving the former name was added to the descriptive heading of the gaging station.

The total drainage area within the outer rim of the Rio Grande Basin is 868,945 square kilometers. However, about half of this area yields no runoff to the river, the estimated productive area of the watershed being 456,701 square kilometers. Major reservoirs in the basin have a total storage capacity of approximately 14,943,600 thousand cubic meters, in addition to the International Amistad and Falcon Reservoirs, which have a combined conservation capacity of 7,160,512 thousand cubic meters. In the Rio Grande basin, a total area of 717,084 hectares is irrigated below Elephant Butte Dam on the Rio Grande and above Girvin in Texas on the Pecos River. The flow of the Rio Grande to the Gulf of Mexico below Brownsville prior to construction of Falcon Dam averaged 3,207,048 thousand cubic meters per year for the period 1934-1952. For the period 1954-2006, this flow has averaged 783,718 thousand cubic meters annually.

The mean sea level datum, referred to as the U. S. C. & G. S. in the description of the stream-gaging stations, is the National Geodetic Vertical Datum of 1929.

Acknowledgments

Other agencies which have contributed to some part of the data published herein include: the Natural Resource Conservation Service of the U. S. Department of Agriculture; the Bureau of Reclamation, the National Park Service, and the Geological Survey of the U. S. Department of the Interior; the National Weather Service of the U. S. Department of Commerce; the Texas Board of Health; the Texas Natural Resource Conservation Commission; the Middle Rio Grande Conservancy District; the Red Bluff Water Power Control District; State of Colorado, Division of Water Resources; the Rio Grande Compact Commission; the Delta Lake Irrigation District; the Del Rio City Water Department; the Eagle Pass City Water Department; the Laredo City Water Department; the Del Mar Conservation District; Central Power and Light Company; the City of El Paso; the Maverick County Control and Improvement District No. 1; the Ministry of Agriculture and Hydraulic Resources of Mexico; the National Water Commission of Mexico; the Meteorological Service of Mexico; the Meteorological Service of the State of Chihuahua, Mexico; Federal Power Commission of Mexico; Potable Water Board of Piedras Negras, Coahuila; Federal Board of Public Improvement Works of Nuevo Laredo, Tamaulipas; and the Water and Drainage Board of Cd. Acuna, Coahuila.

Additional contributions have been made by individuals and corporations; and specific notation is made for such, as well as for those of the above-named agencies, where the data appear. The courtesy and cooperation of those who made these contributions are acknowledged with appreciation.

Period Averages

In Water Bulletins Nos. 1 through 29, normal or average discharge volumes shown for the various gaging stations were based on a period beginning in 1924, or thereafter when records became available.

Beginning with Water Bulletin No. 30, the periods have been revised to include only the years following completion of major projects below which the flow of the Rio Grande or a major tributary was modified, or later when records became available. The revised periods are based on the completion of Caballo Dam in 1938, irrigation projects on the Rio Conchos and its tributaries in 1947, International Falcon Dam in 1953, and International Amistad Dam and Luis L. Leon Dam in 1968.

For purposes of comparison with the average flows in the Rio Grande below Caballo Dam, records of average discharge in the Rio Grande below Elephant Butte Dam have also been revised to include the same period.

The period of record used to determine the average diversions from the Rio Grande to the United States below Falcon Dam published herein was restricted to begin in 1957, the first complete year of record after United States' waters in Falcon Reservoir were placed under the jurisdiction of the 93rd District Court of Texas.

FOREWORD

Units of Measure

This Bulletin is published in System International (SI) units which are based on the metric system. The following conversion constants may be used to convert to the English system of measurement. Data collected by the Mexican Section are computed and published in a Spanish version of the water bulletin in metric units.

METRIC TO ENGLISH CONVERSION CONSTANTS

METRIC UNITS				ENGLISH UNITS
LENGTH				
Millimeters	x	0.03937	=	Inches
Meters	x	3.28084	=	Feet
Kilometers	x	0.62137	=	Miles
AREA				
Square Meters	x	10.76391	=	Square Feet
Hectares	x	2.47105	=	Acres
Square Kilometers	x	0.38610	=	Square Miles
VOLUME				
Cubic Meters	x	35.31467	=	Cubic Feet
1,000 Cubic Meters	x	0.81071	=	Acre-Feet
WEIGHT				
Kilograms	x	2.20462	=	Pounds
Megagrams	x	1.10231	=	Tons (2,000 lbs.)
TEMPERATURE				
Degrees Celsius	x	1.8 + 32	=	Degrees Fahrenheit

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

GENERAL HYDROLOGIC CONDITIONS FOR 2006

Along and Adjacent to the International Portion of the Rio Grande

During the year 2006, temperatures were about 1.36 degrees Celsius above average on the watershed of the Rio Grande below El Paso, Texas. Evaporation was 117% of average. Precipitation was 54% of average from El Paso to Amistad Dam, 72% of average from Amistad Dam to Falcon Dam, 107% of average from Falcon Dam to Rio Grande City, and 86% of average in the Lower Rio Grande Valley on the United States side.

The yearly volume of flow of the Rio Grande was below average from El Paso to the confluence of the Rio Conchos with the Rio Grande and below average from the Rio Conchos confluence to the Gulf of Mexico. In the reach between El Paso and the confluence of the Rio Conchos, the flow was 81% of average, ranging from 88% of average above Rio Conchos to 70% at El Paso; in the reach between the confluence of the Rio Conchos and Amistad Reservoir, where most of the flows normally originate from releases from Luis L. Leon Reservoir (El Granero) on the Rio Conchos, the flow was 61% of average; and in the reach between Amistad Dam and Falcon Reservoir, where flows mostly originate from releases from Amistad Reservoir, the flow was 58% of average. Most of the flows passing the Rio Grande stations below Falcon Dam originated from releases from Falcon Reservoir, which in 2006 amounted to 2,055,914 thousand cubic meters, or 76% of the average for the fifty-three years of operation, 1954-2006. The estimated volume of flow passing to the Gulf of Mexico was 395,475 thousand cubic meters, which is 50% of the average for this fifty-third year period.

The total annual flow of all measured tributaries below Fort Quitman was 65% of average. The total flow of these tributaries in the United States was 495,181 thousand cubic meters, or 69% of average. For Mexico, the measured tributary flow, excluding Rio Alamo and Rio San Juan, was 674,030 thousand cubic meters, or 47% of average. The flows of the Rio Alamo and Rio San Juan were 48% and 139% of their respective averages.

Return flow to the Rio Grande at Maverick Power Plant near Eagle Pass was 910,571 thousand cubic meters, or 106% of the thirty-nine year average. Return flow to the Rio Grande through various drains in the Maverick County Irrigation District, excluding storm inflow, amounted to 32,935 thousand cubic meters, or 34% of the thirty-nine year average.

Major flooding occurred on the Rio Grande in August 2006 in the El Paso, Texas area due to runoff from rains on July 28th-August 5th. A peak flow of 220 cubic meters per second was recorded at the Below American Dam gaging station on August 1st. The highest peak flows recorded on the Rio Grande were, above Falcon Dam, 402 cubic meters per second at Laredo, Texas and Nuevo Laredo, Tamaulipas and below Falcon Dam, 364 cubic meters per second at Rio Grande City, Texas near Camargo, Tamaulipas.

For all reservoirs in the Rio Grande basin having a capacity greater than 18,500 thousand cubic meters, except for Amistad and Falcon International Reservoirs, the average amount of water in storage in 2006 was 6,181,800 thousand cubic meters, or 94% of the average 6,571,300 thousand cubic meters. In the United States, stored water in these reservoirs was 64% of average, while in Mexico it was 110% of average.

In International Amistad Reservoir there was a net decrease in storage during the year of 252,000 thousand cubic meters. Storage ranged from a high of 3,422,400 thousand cubic meters on January 9 to a low of 2,898,200 thousand cubic meters on August 1-2 and averaged 3,148,100 thousand cubic meters during the year, or 101% of the average for the period 1969 through 2006. In International Falcon Reservoir, there was a net decrease in storage during the year of 687,200 thousand cubic meters. The storage ranged from a high of 1,998,900 thousand cubic meters on January 1 to a low of 1,017,700 thousand cubic meters on September 11 and averaged 1,455,500 thousand cubic meters during the year, or 70% of the average for the period 1954 through 2006.

Diversions from the Rio Grande in the United States were 102% of average. Diversions into the American Canal were 80% of average, into the Maverick Canal, 95% of average and in the United States below Falcon Dam, 114% of the average for the period 1958-2006. In Mexico, diversions were 79% of average. Diversions into the Acequia Madre were 54% of average, while diversions through the Anzalduas Canal in Mexico were 81% of the 1952-2006 average.

In 2006, the total reported irrigated area from the Rio Grande and its tributaries below Caballo Dam showed a 4% increase from the previous year. On the United States side, there was an increase of about 8% above Falcon Dam and a decrease of about 0.1% below Falcon Dam, for an overall average increase of 2%. On the Mexican side, there was an increase of about 10% reported above Falcon Dam and an increase of about 5% below Falcon Dam, for an overall increase of 5%.

08-3610.00 RIO GRANDE BELOW ELEPHANT BUTTE DAM, NEW MEXICO

DESCRIPTION: Concrete wall control, bubbler gage, water-stage recorder, and data collection platform located on the left bank 30 meters upstream from the cableway at latitude 33 08'55", longitude 107 12'20", and river kilometer 2,236; 1.6 river kilometers downstream from Elephant Butte Dam, 2.4 river kilometers upstream from Cuchillo Negro River, and 217 river kilometers upstream from the American Dam at El Paso, Texas. The zero of the gage is 1,292.68 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 19 current-meter measurements during the year and a continuous record of gage heights. Records were furnished by the United States Geological Survey. Records available: 1915 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. Beginning December 1940, hydroelectric power generation facilities for 27,000 kva were placed in operation at Elephant Butte Dam. The data collection platform is operated by U. S. Geological Survey and relays gage height data by radio via satellite.

EXTREME FLOWS FROM RECORDS:

Average Flow in Cubic Meters per Second

Daily:	Max.	233	May 22, 1942	Min.	0	Occasionally	
Monthly:	Max.	215	May 1942	Min.	0.03	Nov.	1971
Yearly:	Max.	71.1	1942	Min.	7.16		1964

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.06	0.09	0.37	41.9	* 42.2	43.6	49.8	30.3	0.57	0.85	0.23	* 0.21
2	.06	.10	.62	42.2	42.8	39.9	50.1	* 24.8	.59	.85	.23	.19
3	.07	.16	.51	* 42.5	42.2	43.3	50.1	25.1	.57	.85	.24	.18
4	* .07	.16	.48	42.8	42.8	43.3	50.4	25.3	.57	.85	.24	.18
5	.06	.16	.48	42.8	42.8	43.3	* 50.7	25.5	.57	.85	.23	.18
6	.06	.16	13.8	42.5	43.0	43.6	50.4	25.8	.57	.85	.23	.19
7	.06	* .16	* 27.0	42.5	43.0	43.6	36.2	25.9	.57	.85	.23	.19
8	.06	.16	35.7	42.2	43.0	43.9	38.5	25.7	.59	.85	.23	.19
9	.06	.23	* 39.9	42.2	43.0	* 43.9	29.2	26.4	.62	1.16	.22	.20
10	.07	.31	40.2	42.2	43.6	43.9	27.5	26.3	.62	.65	.22	.20
11	.07	.31	40.2	42.5	43.3	44.2	16.4	26.3	* .65	.42	.22	.19
12	.07	.31	40.2	42.5	43.6	44.2	4.13	25.7	.71	.40	.22	.19
13	.08	.31	40.2	42.5	43.6	44.7	1.36	29.2	.79	.40	* .22	.19
14	.08	.45	40.2	42.5	43.6	45.0	25.3	36.0	.76	.40	.22	.19
15	.08	4.25	40.5	42.2	* 43.9	45.3	54.4	38.5	.76	.42	.22	.19
16	.08	.37	40.2	42.2	44.2	44.7	53.8	18.7	.76	.40	.22	.19
17	.08	.34	40.8	42.2	44.2	45.6	53.5	.51	.79	.48	.20	.21
18	.08	.34	40.8	42.2	44.5	45.6	53.2	.42	.85	.40	.20	.20
19	.08	.34	40.8	42.5	44.5	52.7	53.5	1.16	.85	.40	.20	.21
20	.08	.34	40.2	* 42.5	44.7	56.1	53.2	2.78	.85	.37	* .20	.20
21	.08	.34	41.1	42.2	44.5	56.1	* 53.2	4.45	.82	.40	.20	.20
22	.08	.31	41.1	42.2	44.5	56.4	53.5	16.9	.82	.40	.19	.20
23	.08	* .34	41.1	41.9	44.7	56.4	53.5	6.66	.82	.40	.20	.20
24	.08	.34	41.1	42.2	44.7	56.6	53.8	.65	.82	.31	.20	.20
25	.08	.34	41.3	42.5	43.9	56.1	53.8	.62	.85	.24	.20	.20
26	.08	.34	41.3	43.6	43.6	* 53.8	54.4	.62	.85	.23	.20	.20
27	.08	.34	41.3	43.6	43.6	49.6	54.9	.62	.88	.23	.20	.21
28	.08	.34	41.6	42.2	43.6	49.8	46.7	.59	.88	.24	.20	.23
29	.08		41.6	42.2	43.6	49.8	32.9	.54	.88	.24	.20	.22
30	.08		41.9	41.9	43.6	49.8	38.2	.54	.88	.23	.19	.22
31	.08		41.9		43.6		38.5	* .54		.23		.22
Sum	11.74	2.29	1,272.1	1,018.46	1,434.8	1,352.4	1,335.09	473.10	22.11	15.85	6.40	6.17

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second @ High Day	@ High	@ Low Day	@ Low	Average	Total	Period 1938-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.			!13	0.08	! 1	0.06	0.07	198	27,878	147,406	198
Feb.			15	4.25	1	.09	.42	1,014	52,164	207,297	232
Mar.			!30	41.9	1	.37	32.9	87,995	91,873	174,074	1,261
April			!26	43.6	! 1	41.9	42.4	109,909	104,798	199,454	13,824
May			!20	44.7	! 1	42.2	43.6	116,847	115,260	576,485	632
June			24	56.6	2	39.9	47.8	123,967	129,269	447,576	20,862
July			27	54.9	13	1.36	43.1	115,352	124,872	305,796	51,006
Aug.			15	38.5	18	.42	15.3	40,876	93,785	178,200	11,761
Sept.			!27	.88	! 1	.57	.74	1,910	45,290	159,174	201
Oct.			9	1.16	!26	.23	.51	1,369	19,897	154,731	183
Nov.			! 3	.24	!22	.19	.21	553	14,978	195,408	91.5
Dec.			28	.23	! 3	.18	.20	533	20,878	160,055	112
Yearly				56.6		0.06	19.0	600,523	840,942	2,243,367	226,236

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-3625.00 RIO GRANDE BELOW CABALLO DAM, NEW MEXICO

DESCRIPTION: Cableway, gravity well, water-stage recorder, and data collection platform located on the left bank at latitude 32 53'05", longitude 107 17'30", and river kilometer 2,190; 1.3 river kilometers downstream from Caballo Dam, about 5.0 kilometers northeast of Arrey, New Mexico, 8.0 kilometers south of Caballo, New Mexico, and 172 river kilometers upstream from the American Dam at El Paso, Texas. The zero of the gage is 1,262.15 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 42 current-meter measurements during the year and a continuous record of gage heights. Records were furnished by the El Paso office of the United States Bureau of Reclamation. Records available: 1938 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. In addition to the outflow from Caballo Dam listed below, 1,170 TCM of water were diverted in 2006 into Bonita Lateral, a small irrigation canal just below Caballo Dam. Prior to 1938, discharge records were kept at Percha Dam, a low diversion dam about 2.4 kilometers downstream from this station. Small accretions to the river take place between the station and Percha Dam. The data collection platform is operated by U. S. Bureau of Reclamation and relays gage heights and flow data by radio via satellite.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second				
Daily:	Max.	217	May 20, 1942	Min.	0	1954, 1955 and 1972
Monthly:	Max.	190	May 1942	Min.	0	Nov. 1955
Yearly:	Max.	70.2	1942	Min.	8.04	1964

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.03	0.03	0.06	37.2	22.9	36.8	35.9	29.8	24.3	24.7	0.08	0.06
2	.03	.03	.06	37.1	* 20.1	* 37.9	35.9	19.2	25.4	23.3	.08	.06
3	.03	.03	.06	35.7	21.7	38.0	35.9	7.08	23.3	* 23.0	.08	.06
4	.03	.03	.06	33.0	25.5	38.0	36.3	2.41	12.7	21.4	.08	.06
5	.03	.03	.06	35.4	* 26.1	39.5	35.2	.25	.14	18.5	.08	.06
6	.03	.03	.06	36.3	25.0	40.7	33.4	.28	.14	* 18.3	.08	.06
7	.03	.03	.06	* 35.5	25.1	41.7	* 22.2	.74	.14	16.8	.08	.06
8	.03	.03	* 5.18	36.4	25.2	41.5	25.8	6.71	.14	16.8	.08	.06
9	.03	.06	18.2	36.6	26.1	* 40.7	25.9	* 19.9	.14	12.9	.08	.06
10	.03	.06	18.3	33.8	28.0	39.1	28.7	26.2	.14	5.07	.08	.06
11	.03	.06	18.4	* 30.1	32.8	38.3	* 33.2	27.1	13.7	.62	.08	.06
12	.03	.06	18.4	27.4	* 31.9	39.6	35.7	28.5	* 23.2	.08	.08	.06
13	.03	.06	18.5	25.2	28.8	42.8	36.3	28.6	23.5	.08	.08	.06
14	.03	.06	* 21.2	* 25.4	29.0	47.4	* 38.5	29.3	18.4	.08	.08	.06
15	.03	.06	24.4	26.0	30.1	50.1	40.9	24.8	* 15.1	.08	.08	.06
16	.03	.06	26.1	26.3	* 31.5	* 47.7	40.8	11.2	15.3	.08	.06	.06
17	.03	.06	* 28.5	30.8	32.3	46.0	40.8	1.33	15.2	.08	.06	.06
18	.03	.06	31.5	* 35.6	33.4	46.0	40.7	20.2	15.9	.08	.06	.06
19	.03	.06	31.4	33.7	* 30.1	47.1	41.3	17.6	18.0	.08	.06	.06
20	.03	.06	44.6	30.5	27.3	* 46.1	41.1	.17	* 21.3	.08	.06	.06
21	.03	.06	50.9	* 28.3	27.4	44.2	* 36.8	.14	22.7	.08	.06	.06
22	.03	.06	55.0	25.6	26.4	44.2	34.4	.14	* 22.9	.08	.06	.06
23	.03	.06	53.2	25.9	* 26.1	* 46.6	34.5	.14	22.8	.08	.06	.06
24	.03	.06	47.7	25.7	* 30.1	48.9	40.2	1.87	22.7	.08	.06	.06
25	.03	.06	* 46.1	* 29.3	31.5	48.9	46.6	15.1	22.1	.08	.06	.06
26	.03	.06	46.0	32.9	* 31.5	47.0	48.1	22.2	* 21.4	.08	.06	.06
27	.03	.06	45.7	33.7	31.5	* 45.3	48.9	23.4	22.5	.08	.06	.06
28	.03	.06	* 45.9	* 26.9	31.3	44.2	40.6	25.0	23.0	.08	.06	.06
29	.03		46.8	24.6	31.0	42.2	33.0	24.8	22.9	.08	.06	.06
30	.03		47.2	24.8	* 32.7	* 38.4	27.8	24.3	24.8	.08	.06	.06
31	.03		41.8		34.1		22.0	23.6		.08		.06
Sum	1.44	0.93	925.7	831.40	1,294.9	886.5	1,117.4	462.06	493.94	182.99	2.10	1.86

	Current Year 2006						Period 1938-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	Day @ High	High	Day @ Low	Low	Average	Total	Average	Maximum	Minimum
Jan.			! 1	0.03	! 1	0.03	0.03	80.4	5,128	146,403	23.7
Feb.			! 9	.06	! 1	.03	.05	124	17,168	138,207	14.4
Mar.			22	55.0	! 1	.06	26.8	71,833	110,349	200,839	28,934
April			1	37.2	29	24.6	30.9	79,980	99,031	261,905	26,228
May			31	34.1	2	20.1	28.6	76,594	100,622	508,691	92.8
June			15	50.1	1	36.8	43.2	111,879	136,624	436,371	31,193
July			27	48.9	31	22.0	36.0	96,543	143,442	309,079	34,748
Aug.			1	29.8	!21	.14	14.9	39,922	126,775	220,412	25,320
Sept.			2	25.4	! 5	.14	16.5	42,676	67,205	223,812	8,335
Oct.			1	24.7	!12	.08	5.90	15,810	13,401	151,369	19.1
Nov.			! 1	.08	!16	.06	.07	181	3,266	101,642	8.8
Dec.			! 1	.06	! 1	.06	.06	161	4,445	180,557	7.5
Yearly				55.0		0.03	17.0	535,783	827,456	2,215,231	254,198

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-3640.00 RIO GRANDE AT EL PASO, TEXAS

DESCRIPTION: Cableway, bubbler gage, water-stage recorder and data collection platform with GOES high data rate telemetry located on the left bank 60 meters upstream from the Courchesne Bridge at latitude 31 48'10", longitude 106 32'25", and river kilometer 2,021; 8.9 river kilometers upstream from the Paso del Norte Bridge between El Paso, Texas and Cd. Juarez, Chihuahua and 2.7 kilometers upstream from the American Dam at El Paso, Texas. The zero of the gage is 1,134.56 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on 20 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1889 through 2006.
REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station.
EXTREME FLOWS FROM RECORDS: Momentary: Max. 680 CMS on June 12, 1905. Min. occasionally no flow. Since Elephant Butte Dam was closed in 1915, the largest peak flow to pass this station was 382 CMS on September 3, 1925.

Average Flow in Cubic Meters per Second

Daily:	Max.	671	June 12, 1905	Min.	0	Occasionally
Monthly:	Max.	405	June 1905	Min.	0	Occasionally
Yearly:	Max.	78.7	1905	Min.	1.99	1902

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.30	0.78	0.68	19.2	11.3	13.5	22.2	* 81.7	32.4	5.90	2.57	1.55
2	1.18	* .77	* .75	16.9	* 10.7	* 14.7	20.9	38.9	30.4	6.44	2.57	1.54
3	1.17	.75	.69	14.1	9.35	14.8	20.4	* 48.4	50.6	8.28	* 2.46	1.56
4	* 1.13	.70	.69	13.6	7.04	15.8	19.5	19.7	84.8	7.48	2.43	* 1.53
5	1.11	.66	.68	* 12.8	7.09	18.1	19.6	13.8	36.1	6.74	2.34	1.47
6	1.08	.67	.69	10.4	6.35	17.7	24.2	10.8	31.4	* 6.10	2.30	1.51
7	1.08	.68	.71	8.47	8.24	17.8	24.8	9.08	20.6	5.69	2.26	1.50
8	1.08	.71	.75	10.2	9.47	18.1	28.5	7.03	15.3	5.82	2.19	1.45
9	1.05	.70	.74	10.2	8.78	18.0	19.5	5.18	12.9	7.21	2.16	1.45
10	1.10	.70	.78	14.1	8.85	16.5	17.5	4.02	11.7	8.55	2.10	1.37
11	1.11	.69	.81	15.3	7.09	16.5	* 19.4	3.04	13.0	17.4	2.00	1.37
12	1.01	.68	6.11	14.2	8.12	18.2	16.3	9.24	9.85	14.9	1.96	1.33
13	.99	.69	11.6	11.2	8.18	19.6	15.9	10.3	7.94	11.5	1.99	1.29
14	1.01	.69	12.5	11.2	8.32	18.7	17.5	13.5	18.5	7.86	1.93	1.29
15	.98	.63	12.5	10.2	9.14	19.0	18.3	17.4	36.3	7.82	1.85	1.25
16	.97	.60	* 13.6	11.6	9.87	18.4	19.5	* 61.9	23.8	7.07	1.74	1.18
17	.96	.61	13.6	14.4	9.45	18.8	22.9	38.7	16.3	12.9	1.74	1.12
18	.93	.62	14.7	13.5	9.67	22.0	24.8	25.1	13.7	8.25	1.74	1.18
19	.93	.65	17.5	12.7	* 9.85	22.1	22.8	22.1	12.6	5.54	1.69	1.13
20	.93	.65	18.8	15.7	10.0	23.0	23.0	16.5	10.0	* 4.54	1.65	1.04
21	.89	.64	18.0	15.3	10.2	* 21.5	22.6	26.1	9.31	4.04	1.65	1.16
22	.86	.63	18.7	13.0	8.59	21.0	22.3	34.8	10.9	3.76	1.68	1.41
23	.87	.65	21.4	12.3	8.17	18.9	19.3	55.5	10.7	3.43	1.68	1.31
24	.86	.70	25.0	10.9	9.43	18.0	18.4	26.7	11.6	3.78	1.67	1.23
25	.87	.72	24.5	* 11.4	7.54	19.3	18.3	16.2	11.3	3.68	1.64	1.19
26	.86	.69	20.0	11.6	9.89	22.7	* 20.2	10.9	10.8	3.28	1.67	1.13
27	.81	.65	18.3	11.8	10.9	23.0	23.7	7.80	10.2	2.90	1.61	1.05
28	.79	.65	17.0	14.8	12.6	24.5	26.3	8.62	6.81	2.76	1.61	1.09
29	.80		17.8	13.8	15.0	24.5	22.9	* 55.2	5.56	2.69	1.63	1.11
30	.80		19.0	12.9	14.9	24.3	22.7	38.6	4.85	2.71	1.61	1.05
31	.78		19.2		14.5		32.3	30.6		2.62		1.03
Sum	30.29	18.96	347.78	387.77	298.58	579.0	666.5	767.41	580.22	201.64	58.12	39.87

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1938-2006: Average	Maximum	Minimum
Jan.	1.010	0.920	1.98	1	0.74	31	0.98	2,617	10,625	150,048	271
Feb.	.930	.890	.84	2	.55	16	.68	1,638	12,775	122,304	167
Mar.	1.730	.885	29.6	25	.63	4	11.2	30,048	48,256	140,433	2,204
April	1.555	1.230	20.6	1	7.77	7	12.9	33,503	50,995	171,563	8,414
May	1.445	1.180	16.1	29	5.92	6	9.63	25,797	54,979	439,894	644
June	1.690	1.345	25.9	28	12.5	1	19.3	50,026	68,957	375,353	7,421
July	1.935	1.415	44.9	31	14.7	12	21.5	57,586	78,185	244,070	11,904
Aug.	2.830	.900	198	1	.79	11	24.8	66,304	72,119	194,405	6,007
Sept.	2.625	1.095	162	4	4.50	30	19.3	50,131	49,357	211,481	2,995
Oct.	1.570	1.005	21.5	11	2.48	31	6.50	17,422	22,996	163,710	186
Nov.	1.025	.920	3.09	6	1.46	28	1.94	5,022	12,252	124,457	282
Dec.	.965	.875	2.23	6	.94	28	1.29	3,445	11,997	197,341	254
Yearly	2.830	0.875	198		0.55		10.9	343,539	493,493	1,923,317	70,867

* Discharge measurement(s) made on this day

08-3645.00 DIVERSIONS FROM THE RIO GRANDE
AMERICAN CANAL AT EL PASO, TEXAS

DESCRIPTION: Concrete control consisting of two triangular-shaped wingwalls extending toward the center of the canal about one-fourth of the canal width and downstream at a 30 angle with the canal side walls, bubbler gage, water-stage recorder, and data collection platform with GOES high data rate telemetry located on the right bank of the concrete-lined canal at El Paso, Texas, latitude 31 46'40", longitude 106 31'35", and about 0.7 kilometer downstream from the headgates of the American Dam which are located at river kilometer 2,018. The zero of the gage is 1,131.45 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 12 current-meter measurements during the year, a stable rating curve at medium and high flows, and a continuous record of gage heights. Records available: June 2, 1938 through 2006.

REMARKS: This canal diverts water from the Rio Grande at the American Dam at El Paso, Texas, 3.4 river kilometers upstream from the International Dam at Cd. Juarez, Chihuahua. Water from this canal discharges into the American Canal Extension and into the Franklin Canal. The transmitter relays gage height data via GOES satellite.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 52.1 CMS on March 27, 1944. Min. frequently no flow.

		Average Flow in Cubic Meters per Second				
Daily:	Max.	42.8	Aug. 13, 1945	Min.	0	Frequently
Monthly:	Max.	34.3	Aug. 1943	Min.	0	Frequently since 1952
Yearly:	Max.	21.2	1943	Min.	0.24	1990

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.79	1.15	0.59	14.8	7.07	14.0	18.0	16.0	24.6	5.93	3.30	* 1.77
2	1.67	* 1.12	.89	12.8	6.64	15.1	17.0	13.0	22.2	7.52	* 3.17	1.68
3	1.68	1.09	* .78	9.69	8.07	15.0	17.2	* 22.2	24.9	8.81	2.99	1.74
4	1.72	.99	.85	8.87	* 6.46	15.7	16.9	18.3	16.3	7.83	2.96	1.78
5	* 1.71	.89	.76	8.26	6.60	* 18.1	15.4	19.1	* 16.5	7.49	2.90	1.83
6	1.73	.85	.73	* 6.03	5.76	17.6	18.7	15.5	21.4	7.69	2.88	1.83
7	1.72	.88	.75	3.64	7.62	17.5	22.0	14.6	19.9	8.53	2.81	1.78
8	1.74	.96	.79	5.12	10.0	17.8	23.5	13.2	15.3	8.99	2.76	1.73
9	1.67	.94	.20	5.44	8.98	17.9	14.8	8.93	13.1	10.3	2.71	1.80
10	1.60	.98	0	9.41	9.14	16.8	12.8	6.45	12.0	11.4	2.61	1.74
11	1.71	.99	0	11.1	6.23	15.5	* 14.4	5.27	13.1	19.6	2.43	1.75
12	1.61	.93	4.05	9.94	7.45	15.6	11.5	11.2	9.80	17.3	2.42	1.62
13	1.61	.92	11.5	6.84	7.86	15.4	10.9	13.8	8.68	12.8	1.78	1.45
14	1.64	.76	13.2	6.73	7.76	14.6	12.6	15.1	19.7	8.72	1.53	1.45
15	1.57	.65	12.9	6.01	8.82	14.8	13.1	15.6	34.3	8.74	2.50	1.32
16	1.58	.66	13.6	6.96	9.79	14.6	15.4	17.2	24.9	8.08	2.67	1.37
17	1.49	.61	13.6	10.0	9.18	15.1	18.7	20.1	17.4	14.4	2.61	1.28
18	1.55	.56	14.7	9.35	9.49	18.3	19.4	23.6	14.2	9.35	2.31	1.20
19	1.52	.64	17.2	8.25	9.87	18.3	17.5	21.8	12.8	6.39	2.12	1.13
20	1.61	.63	18.7	11.6	10.4	20.1	17.9	16.4	10.5	* 5.43	2.01	1.19
21	1.51	.57	17.8	11.4	10.4	17.7	17.8	25.0	9.73	4.85	2.06	1.26
22	1.41	.56	18.3	8.81	8.54	17.0	17.6	15.7	11.5	4.36	2.12	1.68
23	1.39	.60	21.1	8.20	8.21	13.9	14.7	23.3	11.2	4.10	2.07	1.52
24	1.36	.76	22.5	6.64	9.46	12.8	13.9	24.2	11.7	4.64	2.03	1.42
25	1.47	.78	21.8	6.89	7.21	14.7	14.2	15.3	11.4	4.92	1.99	1.28
26	1.40	.65	17.3	7.02	10.2	18.7	15.9	9.83	11.0	4.24	1.96	1.31
27	1.41	.60	14.7	7.03	11.7	18.7	19.6	7.36	10.6	3.81	1.95	1.14
28	1.32	.59	13.2	10.6	13.6	19.8	22.4	8.01	6.92	3.62	1.90	1.23
29	1.27		13.5	9.65	16.6	19.5	19.0	14.5	5.77	3.52	1.95	1.19
30	1.17		14.7	8.72	14.8	19.3	18.7	16.7	5.15	3.45	1.93	1.06
31	1.20		15.0		14.1		25.2	22.6		3.32		.98
Sum	47.83	22.31	315.69	255.80	288.01	499.9	526.7	489.85	446.55	240.13	71.43	45.51

	Current Year 2006							Period 1939-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	1.110	0.935	1	2.32	30	0.68	1.54	4,133	5,229	51,241	0
Feb.	1.050	.840	2	1.72	18	.33	.80	1,928	9,027	62,253	0
Mar.	2.660	0	25	25.5	! 9	0	10.2	27,276	40,013	69,130	0
April	2.220	1.260	1	16.3	7	3.11	8.53	22,101	35,517	87,408	0
May	2.370	1.455	29	17.6	6	5.18	9.29	24,884	34,915	85,163	0
June	2.530	2.030	20	21.4	24	12.3	16.7	43,191	46,833	80,984	0
July	2.945	1.845	31	31.6	11	9.17	17.0	45,507	54,496	87,171	0
Aug.	3.355	.980	1	42.4	1	.87	15.8	42,323	52,601	92,064	0
Sept.	3.115	1.365	15	36.8	30	4.61	14.9	38,582	37,305	77,877	0
Oct.	2.585	1.170	11	24.1	30	2.95	7.75	20,747	18,287	59,131	0
Nov.	1.380	.765	1	5.00	13	.12	2.38	6,172	8,468	37,208	0
Dec.	1.140	.920	9	2.50	19	.60	1.47	3,932	7,721	55,112	0
Yearly	3.355	0		42.4		0	8.90	280,776	350,412	668,068	7,603

* Discharge measurement(s) made on this day ! And other days

08-3650.00 RIO GRANDE BELOW AMERICAN DAM AT EL PASO, TEXAS AND CD. JUAREZ, CHIHUAHUA

DESCRIPTION: Cableway, bubbler gage, water-stage recorder and data collection platform with GOES high data rate telemetry located on the left bank of the river at latitude 31 46'35", longitude 106 31'20", and river kilometer 2,017; 2.4 river kilometers upstream from the International Dam, 5.0 river kilometers upstream from the Paso del Norte Bridge between El Paso, Texas and Cd. Juarez, Chihuahua, and 1.0 river kilometer downstream from the American Dam. The zero of the gage is 1,131.51 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 40 current-meter measurements during the year, and a continuous record of gage heights. Computations by shifting control methods. Records available: June 1938 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. The operation of the American Dam began June 2, 1938. Part of the flow above the dam is diverted into the American Canal, and the remainder, including excess flood flows, passes below the dam.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 320 CMS on September 14, 1958 with a gage height of 4.42 meters. Min. occasionally no flow.

Average Flow in Cubic Meters per Second

Daily:	Max.	171	May 20, 1942	Min.	0	Occasionally
Monthly:	Max.	138	May 1942	Min.	0	Occasionally
Yearly:	Max.	42.8	1942	Min.	0.39	1956

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.05	0.04	0.02	4.08	* 4.09	0.17	4.04	107	* 3.29	0.19	0.08	0.06
2	.05	.04	.02	4.12	4.50	* .19	3.99	46.4	2.72	* .25	.09	.06
3	.05	.03	.02	* 4.07	1.55	.17	4.00	40.2	15.4	.20	.09	.06
4	.05	.04	.02	4.10	.16	.14	3.97	* 6.02	77.5	.17	.08	.06
5	.06	.04	.02	4.16	* .31	.10	* 3.92	1.01	16.9	.13	.08	.06
6	.06	.04	.02	4.14	.33	.09	3.58	1.41	7.09	.13	.08	.06
7	.06	.04	.02	* 4.12	.33	.09	* 3.62	.74	.23	.11	.08	.06
8	.06	.04	.02	4.13	.35	.08	4.47	* .54	.14	.11	.08	.06
9	.06	.04	.44	4.13	.35	.07	4.29	.74	.10	.12	.08	.06
10	.06	.04	.81	* 4.14	.34	.07	* 4.07	.80	.09	.13	.08	.05
11	.04	.04	.65	4.06	.36	.07	4.33	.74	.09	.43	.08	.04
12	.04	.04	.69	4.00	.34	* 3.20	* 4.22	.83	.09	.16	.08	.04
13	.04	.04	.80	3.99	.33	4.07	4.11	.96	.29	.04	.84	.05
14	.04	.04	* .69	* 3.97	.34	4.10	* 4.11	1.01	.83	.03	1.26	.05
15	.04	.04	.52	3.91	.33	4.05	3.95	2.68	.80	.09	.05	.04
16	.04	.03	.65	3.96	.30	* 4.05	3.85	53.7	.55	.08	.07	.04
17	.04	.04	.83	* 3.93	.32	4.01	* 3.88	20.2	.41	.08	.07	.04
18	.04	.04	.78	3.92	* .35	3.96	3.91	.49	.36	.08	.07	.04
19	.04	.04	.72	4.07	.41	* 4.00	3.75	.18	.34	.08	.07	.05
20	.04	.04	.60	4.11	.41	3.97	3.95	.15	.31	.08	.07	.04
21	.04	.04	.54	* 4.12	.40	3.98	* 3.96	.11	.30	.08	.06	.04
22	.04	.04	.44	4.09	.36	3.97	4.13	19.7	.29	.08	.06	.04
23	.04	.04	.44	4.08	.39	* 3.95	4.15	* 32.2	.28	.08	.06	.04
24	.04	.04	* 2.61	* 4.06	.43	4.00	* 4.14	.43	.26	.09	.06	.04
25	.04	.04	4.04	3.99	.40	4.04	4.06	.26	.25	.09	.05	.04
26	.04	.04	3.92	3.96	.36	* 4.07	4.05	.20	.24	.09	.04	.04
27	.04	.04	* 3.87	3.94	.29	4.07	4.06	.15	.24	.09	.04	.05
28	.04	.03	3.97	* 3.95	.26	4.14	* 3.89	.19	.20	.09	.04	.04
29	.04		3.98	3.98	.26	4.11	3.89	* 44.0	.20	.09	.04	.04
30	.04		3.96	4.00	.24	* 4.09	3.98	17.9	.17	.09	.05	.04
31	.04		* 3.99		.22		* 5.25	3.64		.08		.05
Sum	1.09	1.40	121.28	40.10	77.07	19.41	125.57	404.58	129.96	3.64	3.98	1.48

	Current Year 2006						Period 1939-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	1.335	1.300	! 1	0.06 / 30	0.03	0.05	121	5,513	98,781	0
Feb.	1.310	1.295	! 1	.04 / ! 2	.03	.04	94.2	3,708	60,041	0
Mar.	1.845	1.290	26	5.69 / ! 8	.01	1.29	3,465	7,605	79,572	99.8
April	1.865	1.720	17	5.88 / 17	2.98	4.04	10,479	14,754	91,915	2,752
May	1.820	1.390	3	5.51 / 4	.11	.63	1,677	19,235	369,945	31.1
June	1.925	1.385	12	7.82 / !11	.06	2.57	6,659	21,254	308,855	0
July	2.120	1.705	31	12.1 / 7	2.63	4.05	10,849	23,604	191,605	1,193
Aug.	4.705	1.340	1	220 / 4	.05	13.1	34,956	18,893	140,115	46.3
Sept.	4.290	1.435	4	159 / !11	.08	4.33	11,229	11,208	152,960	66.4
Oct.	1.870	1.395	11	3.37 / !13	.03	.12	314	4,582	104,679	22.2
Nov.	1.880	1.310	13	3.50 / 14	0	.13	344	3,820	87,256	0
Dec.	1.365	1.310	7	.07 / 20	.03	.05	128	4,302	142,194	0
Yearly	4.705	1.290		220 /	0	2.55	80,315	138,478	1,349,111	12,337

* Discharge measurement(s) made on this day ! And other days

08-3655.00 DIVERSIONS FROM THE RIO GRANDE
ACEQUIA MADRE AT CD. JUAREZ, CHIHUAHUA

DESCRIPTION: Bridge for making discharge measurements, gravity well, and water-stage recorder located on the right bank of the canal at Cd. Juarez, Chihuahua, latitude 31 45'36", longitude 106 30'32", about 80 meters downstream from the canal intake at the International Dam at Cd. Juarez, Chihuahua, which is located at river kilometer 2,015 and 3.4 river kilometers downstream from the American Dam at El Paso, Texas.

RECORDS: Flow records provided by Mexican Section. Records available: 1938 through 2006. These records, showing the water diverted by Mexico, do not necessarily reflect the quantities of water made available to Mexico in the bed of the river by the United States under the terms of the Convention of 1906. Such quantities of water are included in the record of "Rio Grande below American Dam at El Paso, Texas" on the preceding page of this bulletin.

REMARKS: Based on 34 current-meter measurements and a continuous record of stage.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 13.6 CMS on July 21, 1944 with a gage height of 1.83 meters. Min. no flow during several months throughout the year.

Average Flow in Cubic Meters per Second

Daily:	Max.	9.61	May 10, 1942	Min.	0	Several months each year
Monthly:	Max.	7.42	May 1942	Min.	0	Several months each year
Yearly:	Max.	3.28	1942	Min.	0.26	1964

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	0	3.94	4.34	0	3.83	1.22	4.20	0	0	0
2	0	0	0	3.99	* 4.39	0	3.85	0	3.37	0	0	0
3	0	0	0	* 3.93	1.58	0	* 3.86	0	4.08	0	0	0
4	0	0	0	3.98	0	0	3.83	0	1.23	0	0	0
5	0	0	0	* 4.07	0	0	* 3.89	0	0	0	0	0
6	0	0	0	4.07	0	0	3.82	0	0	0	0	0
7	0	0	0	* 4.11	0	0	* 4.57	0	0	0	0	0
8	0	0	0	4.10	0	0	4.99	0	0	0	0	0
9	0	0	0	4.17	0	0	4.79	0	0	0	0	0
10	0	0	0	* 4.22	0	0	* 4.59	0	0	0	0	0
11	0	0	0	4.15	0	0	4.72	0	0	0	0	0
12	0	0	0	* 4.15	0	* 2.57	* 4.57	0	0	0	0	0
13	0	0	0	4.20	0	3.83	4.27	0	0	0	0	0
14	0	0	0	4.19	0	* 3.84	* 4.26	0	0	0	0	0
15	0	0	0	4.13	0	3.83	4.85	0	0	0	0	0
16	0	0	0	4.00	0	* 3.83	4.41	0	0	0	0	0
17	0	0	0	* 3.76	0	3.80	* 4.42	0	0	0	0	0
18	0	0	0	4.00	0	3.79	4.47	0	0	0	0	0
19	0	0	0	* 4.22	0	* 3.83	* 4.33	0	0	0	0	0
20	0	0	0	4.25	0	3.84	4.38	0	0	0	0	0
21	0	0	0	* 4.23	0	* 3.84	* 4.32	0	0	0	0	0
22	0	0	0	4.27	0	3.83	4.19	0	0	0	0	0
23	0	0	0	4.28	0	* 3.80	4.26	0	0	0	0	0
24	0	0	* 1.83	* 4.27	0	3.82	4.38	0	0	0	0	0
25	0	0	3.53	4.17	0	3.82	4.32	0	0	0	0	0
26	0	0	3.59	* 4.14	0	* 3.91	4.32	0	0	0	0	0
27	0	0	* 3.66	4.14	0	3.96	4.31	0	0	0	0	0
28	0	0	3.81	* 4.21	0	* 4.02	5.46	0	0	0	0	0
29	0		* 3.87	4.25	0	4.05	5.01	0	0	0	0	0
30	0		3.91	4.27	0	* 4.06	4.81	0	0	0	0	0
31	0		* 3.87		0		2.47	3.98		0		0
Sum	0	0	28.07	123.86	10.31	72.27	134.55	5.20	12.88	0	0	0

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second: Day @ High	Day @ Low	Average	Volume-Thousand Cubic Meters: Total	Period 1938-2006: Average	Maximum	Minimum
Jan.	0	0	! 1	0 ! 1	0	0	0	36.3	2,504	0
Feb.	0	0	! 1	0 ! 1	0	0	0	134	9,264	0
Mar.	1.090	0	26	4.00 !24	0	.91	2,425	2,687	9,807	0
April	1.160	.875	10	4.50 17	2.75	4.13	10,702	10,531	15,274	0
May	1.150	0	2	4.45 3	0	.33	891	9,991	19,869	0
June	1.240	0	12	4.70 12	0	2.41	6,244	11,117	19,360	0
July	1.960	0	6	6.85 31	0	4.34	11,625	11,617	18,714	0
Aug.	1.200	.740	31	3.98 1	0	.17	449	10,865	15,665	0
Sept.	1.240	.740	1	4.20 4	0	.43	1,113	5,155	15,269	0
Oct.	0	0	! 1	0 ! 1	0	0	0	52.9	1,743	0
Nov.	0	0	! 1	0 ! 1	0	0	0	0	0	0
Dec.	0	0	! 1	0 ! 1	0	0	0	0	0	0
Yearly	1.960	0		6.85	0	1.06	33,449	62,186	103,511	8,207

* Discharge measurement(s) made on this day ! And other days

08-3705.00 RIO GRANDE AT FORT QUITMAN, TEXAS
NEAR COLONIA LUIS LEON, CHIHUAHUA

DESCRIPTION: Cableway, bubbler gage, water-stage recorder and data collection platform with GOES high data rate telemetry located on the left bank of the rectified channel of the Rio Grande at latitude 31 05'10", longitude 105 36'30", and river kilometer 1,888; 2.4 river kilometers downstream from Old Fort Quitman, 14.5 kilometers southeast of Esperanza, Texas, and 28.2 kilometers southeast of McNary, Texas. The zero of the gage is 1,052.35 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on 25 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1889 through 2006.
REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station.
EXTREME FLOWS FROM RECORDS:** Momentary: Max. 300 CMS October 5, 1946 with a gage height of 3.05 meters. Min. frequently no flow.

Average Flow in Cubic Meters per Second**

Daily:	Max.	167	May 19, 1942	Min.	0	Frequently
Monthly:	Max.	142	May 1942	Min.	0	Several months since 1951
Yearly:	Max.	49.8	1942	Min.	0.07	1965

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.22	* 2.97	* 0.90	0.98	1.19	* 0.58	0.32	12.7	20.9	5.35	* 4.89	3.65
2	3.15	3.38	.86	1.03	1.02	.54	.32	* 25.0	15.3	3.66	6.27	3.84
3	* 3.02	3.04	1.16	1.21	* 1.15	.30	.44	28.9	14.7	2.34	6.55	4.62
4	2.47	2.81	1.14	* .42	.60	.20	.37	24.3	19.0	* 3.42	6.82	4.63
5	2.02	3.32	1.26	.07	1.25	.22	6.46	37.6	23.8	4.35	7.68	* 4.51
6	1.99	3.21	1.34	.06	1.17	.17	* 1.76	46.1	* 27.9	4.07	7.58	4.16
7	2.50	2.88	1.18	.12	1.19	.12	1.27	40.9	45.1	3.95	6.96	4.46
8	2.48	2.82	1.20	.14	1.56	.11	.84	33.5	39.9	5.21	5.59	5.48
9	2.49	2.81	.98	.06	1.61	.13	.61	26.8	33.1	9.28	6.03	5.30
10	2.12	1.99	1.15	.11	1.56	.08	.49	* 22.5	28.9	7.59	6.71	5.16
11	1.68	1.63	1.27	.17	1.58	.05	.29	29.7	21.8	7.74	6.13	5.81
12	* 1.78	1.92	1.13	.31	1.67	.04	.15	20.7	16.8	8.45	7.57	5.73
13	1.75	1.83	.94	.32	1.47	.03	.79	11.8	13.4	10.8	6.93	5.10
14	1.62	2.09	.86	.58	2.26	* .13	1.05	14.6	11.2	15.1	6.03	5.12
15	2.35	* 1.45	* 1.04	.86	2.74	.16	.87	7.09	14.9	18.3	* 4.87	4.95
16	2.90	1.36	1.15	.73	2.32	.14	.69	29.8	23.4	15.1	4.37	4.69
17	2.58	1.25	1.10	.79	* 1.82	.15	.71	12.6	26.0	14.2	4.17	4.56
18	2.13	1.07	1.06	1.00	.97	.11	.49	17.8	* 26.4	* 10.7	4.09	4.30
19	1.82	1.02	1.01	* .79	.56	.14	* .29	22.7	26.7	11.0	5.14	4.04
20	2.03	1.21	.97	.80	.38	.20	.30	34.0	23.5	11.3	5.21	4.05
21	2.36	1.41	.92	.90	.36	.16	.32	28.2	20.8	10.2	5.18	5.01
22	2.42	1.09	.88	1.80	.33	.12	.23	21.2	16.6	8.72	4.63	4.56
23	2.65	1.00	* .79	2.10	.33	.12	.38	19.7	13.4	7.71	4.29	4.78
24	2.42	1.19	.73	2.16	.73	.19	.35	17.4	12.1	6.54	4.19	4.86
25	2.02	1.29	.82	1.45	.32	.17	.29	* 22.6	11.1	6.86	4.09	4.74
26	2.07	1.38	.86	1.06	.21	.21	.25	27.4	10.5	6.68	3.95	4.42
27	2.42	1.30	.75	1.11	.19	.20	1.03	23.6	10.0	6.46	3.89	4.24
28	3.15	1.08	.69	.89	.18	.20	3.55	20.5	8.09	6.75	3.71	4.25
29	3.52		.61	.55	.17	.21	18.5	14.1	7.12	6.70	4.27	4.22
30	3.27		.86	.93	.16	.34	13.1	10.7	6.55	6.11	3.83	4.16
31	2.93		.97		1.30		12.8	12.2		4.87		4.09
Sum	75.33	53.80	30.58	23.50	32.35	5.52	69.31	716.69	588.96	249.51	161.62	143.49

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Total	Period 1938-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	1.765	1.505	3.64	29	0.96	12	2.43	6,509	11,188	96,674	0
Feb.	1.770	1.495	3.78	2	.96	24	1.92	4,648	8,671	68,720	0
Mar.	1.545	1.400	1.59	6	.53	28	.99	2,642	7,820	72,889	0
April	1.730	1.275	3.28	24	.02	! 4	.78	2,030	9,810	94,942	0
May	2.220	1.305	12.8	31	.14	31	1.04	2,795	14,748	381,665	0
June	1.475	1.260	.96	1	0	13	.18	477	13,194	295,595	0
July	3.735	1.235	171	5	.05	13	2.24	5,988	19,150	173,266	4.7
Aug.	4.130	1.360	129	3	.51	2	23.1	61,922	18,924	158,563	20.6
Sept.	3.395	2.070	57.8	8	6.31	30	19.6	50,886	20,962	181,266	0
Oct.	3.110	1.650	39.8	9	1.45	4	8.05	21,558	21,219	114,377	0
Nov.	2.180	1.875	7.91	5	3.45	28	5.39	13,964	14,481	106,523	0
Dec.	2.060	1.865	6.06	11	3.33	20	4.63	12,398	14,558	152,593	0
Yearly	4.130	1.235	171		0		5.89	185,817	174,725	1,569,390	2,050

* Discharge measurement(s) made on this day ! And other days

08-3712.00 RIO GRANDE NEAR CANDELARIA, TEXAS AND SAN ANTONIO DEL BRAVO, CHIHUAHUA

DESCRIPTION: Cableway, bubbler gage, DCP with GOES high data rate telemetry, and water stage digital recorder located on the left bank of the Rio Grande at San Antonio Diversion Dam, latitude 30 10'30", longitude 104 41'10" and river kilometer 1,672, 0.5 river kilometer upstream from Capote Creek and about 4.0 kilometers north of Candelaria, Presidio County, Texas and San Antonio, Chihuahua. The zero of the gage is 871.16 meters above mean sea level, U.S.C. & G.S. datum.

RECORDS: Based on 26 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: November 19, 1975 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the flow at this station. Prior to June 1979 the zero of the gage was 871.07 meters above mean sea level, U. S. C. & G. S. datum. From June 1979 to June 25, 2003 the zero of the gage was 871.11 meters above mean sea level, U. S. C. & G. S. datum. On June 25, 2003, a flash flood destroyed the station. A new station at the same site was constructed on November 13, 2003.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 561 CMS on September 30, 1978 with a gage height of 3.31 meters. Min. frequently no flow.

Average Flow in Cubic Meters per Second

Daily:	Max.	222	Dec. 23, 1986	Min.	0	Frequently
Monthly:	Max.	72.2	Dec. 1986	Min.	0	Frequently
Yearly:	Max.	37.7	1987	Min.	0.59	1977

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3.77	2.82	1.67	0.72	0.17	0	0	21.3	48.4	9.15	6.75	3.75
2	3.74	2.99	* 1.71	.70	.13	0	0	11.5	48.4	* 8.28	6.71	3.66
3	3.74	3.08	1.64	.70	.09	0	0	1.83	44.7	7.79	6.62	3.76
4	3.66	2.99	1.43	.62	.06	0	0	11.4	38.8	7.85	6.28	* 3.73
5	* 3.55	3.02	1.30	* .56	.03	0	0	16.9	* 30.8	7.20	5.72	3.61
6	3.48	* 3.17	1.26	.51	.15	0	0	15.0	31.1	6.73	* 5.57	3.74
7	3.38	3.07	1.26	.44	.06	0	.17	* 7.32	33.2	6.56	5.67	4.13
8	3.21	2.92	1.27	.48	* .01	0	.23	6.23	31.7	6.39	5.85	4.39
9	2.96	2.98	1.22	.60	0	0	.20	6.01	30.0	6.44	6.03	4.41
10	2.80	3.03	1.21	.57	0	0	.17	6.36	24.6	6.05	6.15	4.28
11	2.87	2.85	1.14	.50	.23	0	.34	6.41	22.6	6.17	6.10	4.25
12	2.89	2.72	1.06	.50	.25	0	.17	6.55	21.6	6.58	5.66	4.67
13	2.85	2.62	.95	.44	.09	0	* .74	7.26	21.1	7.39	* 5.32	* 4.94
14	2.72	2.31	.89	.38	0	0	.74	7.81	22.1	9.94	5.55	4.91
15	2.45	2.07	.94	.29	0	0	3.11	7.94	24.4	15.7	5.45	5.02
16	2.24	2.04	.97	.24	0	0	2.72	21.3	27.7	* 11.9	5.61	5.09
17	2.06	1.96	1.02	* .20	0	0	.32	* 47.9	30.1	10.9	5.88	4.99
18	* 1.95	1.94	.99	.17	0	0	.10	31.9	29.8	8.88	5.73	4.84
19	2.12	1.76	.96	.15	0	0	.03	16.6	28.8	8.90	5.25	4.74
20	2.39	1.66	* .97	.13	0	0	0	22.3	* 28.0	8.89	4.68	4.55
21	2.44	* 1.59	.96	.12	0	0	0	* 24.6	30.2	8.79	4.36	4.41
22	2.36	1.58	.89	.10	0	.89	0	21.6	27.8	8.69	4.05	4.32
23	2.20	1.67	.82	.07	0	0	0	19.6	21.4	8.48	4.25	4.09
24	2.22	1.73	.82	.08	0	0	0	19.8	19.8	* 8.36	4.55	3.98
25	2.35	1.78	.88	.11	0	0	0	20.2	19.1	8.48	4.65	4.25
26	2.42	1.59	.88	.09	0	0	0	20.5	18.9	8.49	4.56	4.35
27	2.52	1.47	.92	.20	0	0	0	21.5	18.2	8.18	4.32	4.40
28	2.57	1.56	.85	.41	0	0	1.01	22.0	16.3	7.90	4.14	4.51
29	2.42		.81	.35	0	0	.11	23.6	13.7	7.49	4.03	4.56
30	2.41		.81	.23	0	0	2.47	28.0	10.9	7.20	3.81	4.49
31	2.54		.77		0		10.2	34.8		6.95		4.29
Sum	85.28	64.97	33.27	10.66	1.27	0.89	22.83	536.02	814.2	256.70	159.30	135.11

	Current Year 2006							Period 1975-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	1.875	1.750	1	3.89	18	1.85	2.75	7,368	18,211	183,420	0
Feb.	1.850	1.705	6	3.33	27	1.39	2.32	5,613	13,516	122,892	0
Mar.	1.735	1.665	2	1.76	31	.74	1.07	2,875	11,172	101,919	0
April	1.665	1.485	1	.75	23	.05	.36	921	11,060	91,771	10.5
May	1.550	1.210	!11	.30	! 1	0	.04	110	13,133	169,009	0
June	2.240	1.210	22	24.1	! 1	0	.03	76.9	15,992	186,724	76.9
July	2.300	1.210	31	27.0	! 1	0	.74	1,973	20,789	148,433	97.6
Aug.	3.280	1.635	16	58.8	3	1.57	17.3	46,312	23,255	88,466	491
Sept.	3.490	2.045	9	76.2	30	9.92	27.1	70,347	27,769	166,806	386
Oct.	2.450	1.875	15	21.4	10	5.93	8.28	22,179	29,622	125,676	0
Nov.	1.900	1.745	1	6.87	22	3.63	5.31	13,764	22,831	132,602	0
Dec.	1.815	1.735	17	5.35	5	3.47	4.36	11,674	19,829	187,408	0
Yearly	3.490	1.210		76.2		0	5.81	183,213	227,179	1,191,590	18,685

* Discharge measurement(s) made on this day ! And other days

08-3715.00 RIO GRANDE ABOVE RIO CONCHOS NEAR PRESIDIO, TEXAS AND OJINAGA, CHIHUAHUA

DESCRIPTION: Cableway, bubbler gage, and water-stage recorder (graphic and digital), DCP with GOES high data rate telemetry, located on the left bank at latitude 29 36'15", longitude 104 27'05", and river kilometer 1,551; 8.0 river kilometers upstream from the international highway bridge between Presidio, Texas and Ojinaga, Chihuahua and 3.8 river kilometers upstream from the confluence with the Rio Conchos. Effective June 29, 2006 the zero of the gage is 783.29 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 28 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1889 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. Prior to 1978 the zero of the gage was 785.37 meters above mean sea level, U. S. C. & G. S. datum.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 396 CMS on June 14, 1905. Highest flow recorded since 1924 was 146 CMS, with a gage height of 3.22 meters, on May 26, 1942. Min. frequently no flow.

Average Flow in Cubic Meters per Second**

Daily:	Max.	388	June 13 & 14, 1905	Min.	0	Frequently	
Monthly:	Max.	287	June 1905	Min.	0	Frequently	
Yearly:	Max.	55.8	1907	Min.	0.04		1964

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.01	2.16	1.78	0.70	0.56	0.29	1.49	0.82	12.4	15.1	7.26	2.66
2	3.97	* 2.25	* 1.37	.94	* .22	.02	.69	2.34	13.2	* 14.8	* 6.83	2.51
3	* 3.88	2.51	1.77	* .93	.46	.37	.26	4.24	13.9	13.5	6.65	3.34
4	3.80	2.70	1.83	.68	.54	.67	.12	9.91	14.2	11.3	6.50	3.38
5	3.75	2.75	1.87	.36	.08	* .60	.02	17.4	* 14.3	9.00	6.45	3.76
6	3.66	2.60	1.96	.39	.05	.16	* .28	12.5	14.5	7.65	6.35	* 3.56
7	3.65	2.62	1.49	.34	.05	.04	.29	7.12	14.9	7.07	5.77	3.26
8	3.67	2.70	1.24	.30	.16	0	.41	6.34	15.4	6.60	5.33	3.20
9	3.66	2.62	1.31	.45	.09	0	.55	* 6.44	16.0	6.44	5.57	3.66
10	3.35	2.55	1.28	.33	.68	0	.65	7.28	16.7	9.01	5.76	4.23
11	2.95	2.86	1.21	.24	.27	0	.60	6.46	17.8	8.09	5.80	4.21
12	* 2.90	2.95	1.40	.75	.08	0	.34	5.63	18.9	6.18	6.26	3.79
13	2.95	2.77	1.19	.69	.07	0	.84	5.23	19.7	5.71	* 6.20	3.70
14	3.03	2.72	.89	.28	.02	0	.76	5.86	20.6	5.39	5.64	4.19
15	3.13	2.49	.96	.26	* .12	0	.31	5.95	21.0	15.5	4.85	4.74
16	2.93	2.33	.85	.73	.13	0	.80	10.2	19.9	* 10.2	4.87	5.00
17	2.66	1.98	.82	* .25	.01	0	.75	11.4	17.8	10.1	5.37	5.24
18	2.57	1.92	1.06	.17	.12	0	.76	11.6	* 16.3	10.3	5.78	5.67
19	2.44	1.86	1.32	.10	.02	0	* .65	7.52	15.4	11.5	6.05	5.35
20	2.15	1.87	1.38	.09	.02	0	.34	7.97	* 15.3	12.0	5.61	* 4.60
21	2.43	* 1.74	* 1.26	.09	.02	0	.01	8.97	16.0	10.4	4.82	4.51
22	2.65	1.70	1.39	.74	.03	0	.01	9.84	17.2	9.16	4.22	4.26
23	2.49	1.99	1.00	.32	* .03	.03	.01	10.2	17.8	8.70	3.61	4.67
24	2.42	1.96	1.09	.26	.03	.04	.01	* 10.8	18.5	8.37	3.42	4.86
25	2.32	1.74	1.30	.58	.01	6.90	.01	11.1	19.6	8.39	3.79	4.52
26	2.14	2.62	1.25	.30	.01	1.33	.01	14.6	20.4	8.27	4.16	4.19
27	2.42	2.47	1.29	.04	.01	.84	.01	13.3	20.5	8.12	3.85	4.50
28	2.50	2.19	.83	.16	.02	* .05	3.79	13.2	20.2	7.98	3.35	4.61
29	2.61		.96	.53	.52	* .11	.54	13.4	18.1	8.08	3.29	5.33
30	2.49		.94	.57	.09	.22	.66	13.5	15.8	7.96	3.04	6.03
31	2.25		.86		.02		.31	12.6		7.66		5.75
Sum	91.83	65.62	39.15	12.57	4.54	11.67	16.28	283.72	512.3	288.53	156.45	133.28

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1938-2006: Average	Maximum	Minimum
Jan.	0.535	0.410	4.11	1	1.94	25	2.96	7,934	11,860	183,420	0
Feb.	.510	.400	3.17	12	1.59	24	2.34	5,670	9,101	122,892	0
Mar.	.465	.310	2.40	1	.62	29	1.26	3,383	7,042	101,919	0
April	.565	.065	4.38	22	.01	27	.42	1,086	6,224	91,771	0
May	.310	0	1.08	10	.01	!14	.15	392	10,944	169,009	0
June	1.305	0	15.4	25	0	! 2	.39	1,008	12,546	186,724	0
July	1.870	.955	9.45	28	.01	! 5	.53	1,407	16,548	148,433	0
Aug.	3.270	1.230	29.6	4	.14	1	9.15	24,513	17,950	88,466	0
Sept.	2.925	2.290	21.3	15	12.2	1	17.1	44,263	20,445	166,806	0
Oct.	2.600	1.700	17.7	15	4.79	14	9.31	24,929	21,193	125,676	0
Nov.	1.905	1.565	7.63	1	2.54	30	5.22	13,517	12,812	132,602	0
Dec.	1.705	1.535	6.31	30	2.04	1	4.30	11,515	12,474	187,408	0
Yearly	3.270	0	29.6		0		4.43	139,617	159,139	1,191,590	1,174

* Discharge measurement(s) made on this day ! And other days

** Period June 1900-March 1914; September 1919-March 1920; and 1924-2006

08-3730.00 RIO CONCHOS NEAR OJINAGA, CHIHUAHUA

DESCRIPTION: Cableway, gravity well, and water-stage recorder located on the right bank at latitude 29 34'57", longitude 104 25'52", 1.0 river kilometer from the confluence with the Rio Grande, 4.0 kilometers northwest of Ojinaga, Chihuahua, and 6.0 kilometers northwest of Presidio, Texas. This stream enters the Rio Grande at river kilometer 1,547, 18.7 river kilometers upstream from the "Rio Grande below Rio Conchos" Gaging Station. The zero of the gage is 780.40 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 148 discharge measurements during the year. Records available: 1896 through 1913; 1924 through 2006. Prior to April 4, 1954, flow records were determined from records of the Rio Grande at stations located upstream and downstream from the Rio Conchos confluence.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. La Boquilla Reservoir, La Colina Reservoir, and Luis L. Leon Reservoir are located 405, 393, and 183 river kilometers, respectively, upstream from this station. Francisco I. Madero Reservoir is located on the Rio San Pedro, a tributary which enters the Rio Conchos 283 river kilometers upstream from this station. Power generation facilities: La Boquilla 14,647 kw., La Colina 3,620 kw., Francisco I. Madero and Luis L. Leon, none. The station was relocated on January 20, 1978 incident to the Rio Grande channel rectification in the Presidio-Ojinaga area.

EXTREME FLOWS FROM RECORDS: Momentary: Max. (period 1968-2000) 2,020 CMS, on September 30, 1978 with a 7.53 meter gage height. The greatest recorded flow occurred September 11, 1904 with a peak flow estimated at 4,590 CMS. Min. 0.21 CMS on June 12, 1995 with a 0.46 meter gage height. During the period 1996 to 1998, it is very probable that a minimum momentary flow smaller than the referenced one occurred; however, that data is not available.

Average Flow in Cubic Meters per Second**

Daily:	Max.	1,490	Oct. 1, 1978	Min.	0.09	June 11, 1996
Monthly:	Max.	496	Sept. 1991	Min.	0.29	November 2001
Yearly:	Max.	83.6	1991	Min.	2.38	1995

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.50	* 0.58	0.60	10.8	12.2	* 0.99	1.60	* 14.0	10.3	* 72.0	* 7.76	1.61
2	* .50	.50	* .50	11.2	11.2	1.58	1.78	7.69	6.82	* 67.0	7.57	1.71
3	.47	* .58	.54	11.6	* 10.8	1.21	* 1.33	* 11.2	61.9	* 59.4	7.19	1.46
4	* .43	.50	.54	* 11.6	11.0	1.04	1.04	28.1	* 21.7	* 47.2	6.31	* 1.82
5	.36	.39	.50	11.4	11.0	* .94	* .84	77.9	28.2	* 30.2	5.44	1.97
6	* .43	.50	* .50	* 10.6	11.0	.94	.70	54.0	* 20.5	* 37.8	* 4.96	* 2.13
7	.47	.50	.54	9.80	10.8	* .80	* .94	* 11.8	7.79	* 36.6	4.62	* 2.30
8	.46	* .39	* .50	9.80	* 11.8	.75	1.27	5.35	* 5.19	* 34.2	* 3.72	* 2.52
9	.58	.43	.50	10.6	11.8	* .75	1.04	* 4.03	4.49	* 40.6	3.84	2.62
10	* .54	* .47	* .50	* 11.0	* 11.8	.75	1.04	1.65	4.12	* 32.6	* 3.38	2.66
11	.47	.36	.47	10.4	11.0	.70	* 15.2	* 1.51	21.4	* 26.4	3.27	2.62
12	* .75	.36	2.39	* 11.2	* 10.4	.66	4.93	1.15	89.2	* 23.8	3.12	* 1.97
13	1.09	.36	7.53	10.6	5.40	* .66	* 3.81	.84	130	* 22.4	3.16	1.79
14	.99	* .36	* 7.84	10.6	2.65	.66	1.39	1.39	147 *	21.3	* 2.38	* 1.82
15	1.09	.66	7.04	11.4	2.23	* .66	1.04	* 1.21	163	104	2.40	1.75
16	* .94	* 1.15	* 8.36	12.5	* 1.85	.66	5.41	28.7	172 *	* 34.6	* 2.45	1.68
17	.94	.75	8.02	14.1	1.71	.58	9.27	* 16.6	178 *	23.4	2.38	1.51
18	* .84	.62	8.53	* 12.7	* 1.51	.54	1.51	4.96	186	* 19.7	2.36	1.23
19	.75	.58	9.61	11.6	1.39	* .58	.84	4.03	197 *	19.4	2.28	1.16
20	* .70	* .70	* 10.6	* 12.2	1.39	.58	* .70	2.00	211 *	* 19.1	2.30	1.08
21	.50	.62	10.8	12.7	1.39	* .58	.66	* 1.51	213 *	17.7	* 2.21	1.23
22	.47	* .58	10.2	12.5	* 1.45	.58	.62	1.33	207 *	16.6	2.02	1.31
23	.50	.66	* 11.0	12.7	1.45	* .84	.58	1.09	166 *	15.6	* 1.89	1.33
24	* .70	* .66	14.1	* 13.4	* 1.39	.80	.58	.84	134 *	* 14.4	1.89	1.29
25	1.15	.70	14.8	12.5	* 1.15	3.65	.58	* 1.51	122 *	14.3	1.97	1.23
26	* 1.58	.70	14.6	* 12.0	* 1.04	.89	.54	.75	115 *	* 14.1	2.42	1.29
27	.84	.84	* 12.9	11.4	1.15	* .80	.75	22.5	* 98.2	13.2	* 1.48	1.23
28	.70	* .66	11.8	* 11.4	1.04	.75	1.86	63.4	* 89.8	13.1	1.52	1.12
29	.80		* 11.6	11.4	.99	* .66	5.89	* 26.4	* 83.2	13.1	* 1.42	1.75
30	* .75		11.2	13.4	* .98	.80	6.24	16.9	* 76.7	* 12.6	1.29	2.05
31	.84		* 11.2		.94		11.7	* 13.2		11.8		2.38
Sum	22.13	16.16	209.81	349.10	165.90	26.38	85.68	427.54	2,970.51	928.2	99.00	53.62

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1968-2006: Average	Maximum	Minimum
Jan.	0.235	0.090	1.85	26	0.36	! 5	0.71	1,912	35,319	263,658	937
Feb.	.220	.085	1.65	15	.33	11	.58	1,396	33,067	210,479	975
Mar.	.670	.105	15.1	!24	.47	!10	6.77	18,128	42,657	248,201	870
April	.705	.540	16.9	30	9.43	! 7	11.6	30,162	37,542	110,860	1,158
May	.610	.155	12.2	! 9	.89	31	5.35	14,334	47,707	211,231	1,047
June	.745	.115	19.1	25	.54	22	.88	2,279	58,997	361,843	2,279
July	1.035	.110	33.9	16	.50	27	2.76	7,403	67,410	297,613	5,603
Aug.	2.385	.140	136	5	.75	!14	13.8	36,939	113,109	708,584	7,205
Sept.	4.070	.315	215	20	3.73	10	99.0	256,652	160,612	1,285,546	3,982
Oct.	2.895	.590	135	15	11.5	31	29.9	80,196	102,794	809,127	1,255
Nov.	.600	.320	7.96	1	1.23	30	3.30	8,554	38,410	169,500	758
Dec.	.420	.290	2.75	11	.92	28	1.73	4,633	24,649	81,372	1,014
Yearly	4.070	0.085	215		0.33		14.7	462,588	762,273	2,636,721	75,095

* Discharge measurement(s) made on this day ! And other days

08-3740.00 ALAMITO CREEK NEAR PRESIDIO, TEXAS

DESCRIPTION: Gravity well and water-stage recorder (graphical and digital), and DCP with GOES high data rate telemetry located on the left bank 91.4 meters upstream from the highway bridge on Farm-to-Market Road 170 at latitude 29 31'25", longitude 104 17'15", about 610 meters upstream from the confluence with the Rio Grande, and about 9.7 kilometers southeast of Presidio, Texas. This stream enters the Rio Grande near the lower end of the Presidio Valley at river kilometer 1,529, 13.8 river kilometers downstream from the international highway bridge between Presidio, Texas and Ojinaga, Chihuahua. Measurements of high flows are made from the highway bridge. The zero of the gage is 771.785 meters above mean sea level U. S. C. & G. S. datum.

RECORDS: Based on 24 current-meter measurements during the year at low and medium flows, a high flow rating curve determined by slope-area calculations, and a continuous record of gage heights. Computations by shifting control methods. Records available: 1932 through 2006.

REMARKS: This station was relocated to its current site from the downstream side of the highway bridge on Farm-to-Market Road 170 on August 26, 2003. A small irrigation reservoir (San Esteban) 16.9 kilometers south of Marfa, Presidio County, Texas and irrigation diversions below the reservoir modify the flow of this spring-fed creek. Backwater from the Rio Grande begins to affect the station record when the flow at the station on the Rio Grande below Rio Conchos reaches about 991 CMS.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,600 CMS, determined by slope-area calculations, on September 2, 1962, with a gage height of 4.13 meters. Min. no flow occasionally.

Average Flow in Cubic Meters per Second

Daily:	Max.	351	Sept. 21, 1974	Min.	0	Occasionally
Monthly:	Max.	28.3	Sept. 1974	Min.	0	Oct. 2001
Yearly:	Max.	2.75	1974	Min.	0.01	2001

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02
2	.03	.03	.03	.02	.02	.01	.01	.63	.01	.01	.02	.02
3	.03	.03	.03	.02	* .02	.01	.01	.01	.01	.01	.02	.02
4	.03	.03	.03	.02	.02	.01	.01	.01	.01	.01	.02	.02
5	.03	.03	.03	* .02	.02	.01	.01	.12	.01	* .01	.02	.02
6	.03	.03	.03	.02	.01	* .01	.01	.01	.01	.01	* .02	* .02
7	.03	* .03	* .03	.02	.01	.01	.01	.01	* .01	.01	.02	.02
8	.03	.03	.03	.02	.01	.01	.01	.01	.01	.02	.02	.02
9	.03	.03	.03	.02	.01	.01	.02	* .01	.01	.01	.02	.02
10	* .03	.03	.03	.02	.01	.01	* .01	.01	.01	1.28	.02	.02
11	.03	.03	.02	.02	.01	.01	.01	.14	.01	.01	.02	.02
12	.03	.03	.03	.02	.01	.01	.01	.01	.01	.01	.02	.02
13	.03	.03	.03	.02	.01	.01	.01	.01	.01	.01	.02	.02
14	.03	.03	.02	.02	.01	.01	.01	.01	.01	.01	.02	.02
15	.03	.03	.02	.02	.01	0	.01	.01	.01	1.00	.02	.02
16	.03	.03	.02	.02	* .01	0	.01	.01	.01	.06	* .02	.02
17	.03	.03	.02	.02	.01	0	.01	.01	.02	.02	.02	.02
18	.03	.03	.02	.02	.01	0	.01	.18	.02	.02	.02	.02
19	.03	.03	.02	* .02	.01	0	.01	.01	.02	* .02	.02	.02
20	.03	.03	.02	.02	.01	0	* .01	.01	.03	.02	.02	* .02
21	.03	.03	.02	.02	.01	0	.01	.01	* .03	.02	.02	.02
22	.03	.03	* .02	.02	.01	.01	.01	.01	.03	.02	.02	.02
23	* .03	* .03	.02	.02	.01	.01	.01	.01	.02	.02	.02	.02
24	.03	.03	.02	.02	.01	.01	.01	* .01	.02	.02	.02	.02
25	.03	.03	.02	.02	.01	.01	0	.03	.02	.02	.02	.02
26	.03	.03	.02	.02	.01	.01	0	.03	.02	.02	.02	.02
27	.03	.03	.02	.02	.01	.01	0	.01	.01	.02	.02	.02
28	.03	.03	.02	.02	.01	.02	0	.01	.01	.02	.02	.02
29	.03		.02	.02	.01	.02	.01	.01	.01	.02	.02	.02
30	.03		.02	.02	.01	.28	4.87	.01	.01	.02	.02	.02
31	.03		.02		.01		0	.02		.02		.02
Sum	0.93	0.84	0.74	0.60	0.36	0.52	5.13	1.39	0.43	2.78	0.60	0.62

	Current Year 2006							Period 1932-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	1.815	1.805	!25	0.04	! 1	0.03	0.03	80.4	152	615	26.8
Feb.	1.810	1.805	! 1	.03	! 1	.03	.03	72.6	185	3,853	24.2
Mar.	1.810	1.790	! 1	.03	!11	.02	.02	63.9	175	1,401	26.8
April	1.800	1.785	! 1	.02	! 1	.02	.02	51.8	265	4,550	25.9
May	1.800	1.775	! 1	.02	! 6	.01	.01	31.1	830	10,530	15.6
June	1.985	1.640	30	2.16	!14	0	.02	44.9	2,110	15,607	25.9
July	2.500	1.625	30	113	!22	0	.17	443	3,234	22,813	11.7
Aug.	2.035	1.665	2	5.57	! 1	0	.04	120	3,226	20,167	26.8
Sept.	1.870	1.760	1	.11	! 1	.01	.01	37.2	4,939	73,244	9.5
Oct.	2.240	1.755	10	24.4	! 1	.01	.09	240	1,956	23,731	0
Nov.	1.835	1.825	! 1	.02	! 1	.02	.02	51.8	240	3,554	18.1
Dec.	1.845	1.830	29	.03	20	.01	.02	53.6	152	503	26.8
Yearly	2.500	1.625		113		0	0.04	1,290	17,464	86,682	376

* Discharge measurement(s) made on this day ! And other days

08-3742.00 RIO GRANDE BELOW RIO CONCHOS NEAR PRESIDIO, TEXAS AND OJINAGA, CHIHUAHUA

DESCRIPTION: Cableway, bubbler gage, water-stage recorders (graphic and digital), DCP with GOES high data rate telemetry, located on the left bank at latitude 29 31'10", longitude 104 17'10", and river kilometer 1,529; 0.6 river kilometer downstream from Alamito Creek and 14.4 river kilometers downstream from the international highway bridge between Presidio, Texas and Ojinaga, Chihuahua. The zero of the gage is 771.75 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 33 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1955 through 2006. Records are also available from 1896 through June 13, 1932 for a station located about 19.5 river kilometers downstream from the Rio Conchos and 2.1 kilometers upstream from Alamito Creek; and from June 14, 1932 through 1954 for a station about 3.2 river kilometers downstream from the Rio Conchos and 18.3 river kilometers upstream from Alamito Creek.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. Prior to December 1, 1979 the zero of the gage was 772.97 meters above mean sea level, U. S. C. & G. S. datum. A concrete control weir at this station was partially removed in December 1991.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,730 CMS on September 30, 1978, with a gage height of 4.70 meters. The greatest recorded flow occurred September 11, 1904, with a peak flow estimated at 4,590 CMS at a station 19.0 kilometers upstream. Min. 0.01 CMS several days in July 1955 and June 30, 1958.

Average Flow in Cubic Meters per Second**

Daily:	Max.	1,510	Oct. 1, 1978	Min.	0.15	June 21, 2003
Monthly:	Max.	544	Sept. 1991	Min.	0.50	Apr. 2003
Yearly:	Max.	98.1	1991	Min.	5.53	2003

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.74	5.56	2.63	13.1	15.4	2.36	2.14	* 14.8	33.0	82.4	* 17.3	* 6.30
2	4.63	* 2.79	2.27	13.6	12.9	* 2.37	2.41	5.90	22.0	78.7	16.3	6.33
3	* 4.56	3.18	2.21	* 14.3	12.8	2.24	2.18	11.8	65.2	73.6	15.6	6.38
4	4.29	3.26	2.35	13.7	12.8	2.03	1.64	14.9	56.3	63.5	14.5	6.68
5	4.00	3.29	2.40	13.1	12.7	1.87	* 1.44	88.8	45.9	* 44.9	13.4	6.81
6	3.74	3.33	* 2.43	12.3	12.6	* 1.63	2.63	77.4	44.3	48.3	12.6	6.84
7	3.65	3.14	2.38	11.4	11.9	1.32	1.46	27.8	* 25.9	46.9	12.7	6.70
8	3.71	3.15	1.93	11.0	12.8	1.23	2.18	11.2	19.9	43.8	11.2	7.03
9	3.79	3.06	2.16	11.8	12.8	1.17	2.27	10.2	17.2	49.1	11.3	7.38
10	3.58	2.98	2.06	12.6	13.4	1.16	2.31	6.87	15.7	47.3	10.8	7.70
11	3.13	3.28	2.03	12.1	13.2	1.07	14.1	7.23	23.7	39.3	11.0	7.83
12	3.27	3.37	2.50	12.6	12.0	1.05	6.06	5.80	86.2	35.0	10.2	* 7.15
13	4.12	3.35	7.05	12.3	8.14	1.00	6.44	5.92	118	31.1	10.6	7.02
14	4.12	3.23	* 9.22	12.1	4.40	.87	3.32	7.06	132	27.8	9.64	7.25
15	4.32	2.97	9.26	13.3	3.63	.85	2.22	6.65	151	115	9.33	7.33
16	4.27	3.49	9.92	14.1	* 3.15	.84	2.27	* 28.4	170	49.0	9.31	7.19
17	* 3.81	3.00	9.96	15.1	2.67	.75	13.4	42.3	184	* 36.8	9.51	7.13
18	3.67	2.94	10.6	14.0	2.45	.71	* 3.48	22.4	196	31.2	9.44	7.13
19	3.30	2.98	11.7	13.3	2.43	.70	2.53	12.8	200	29.7	9.49	* 7.00
20	3.08	3.09	* 12.6	13.6	2.40	* .72	2.01	10.9	204	30.8	9.65	6.57
21	2.90	3.06	12.4	14.5	2.32	.75	1.54	10.6	207 *	27.8	* 9.40	6.73
22	3.39	* 2.84	12.3	13.8	2.53	10.5	1.24	11.2	204	24.7	8.47	6.78
23	3.26	2.79	11.7	15.3	2.42	1.62	1.16	11.4	179	22.7	8.04	6.80
24	3.39	2.89	14.0	15.2	2.10	1.18	1.13	11.3	131	20.6	7.88	6.94
25	4.23	2.57	15.0	14.9	1.95	5.83	1.06	* 12.4	114	20.1	7.94	6.80
26	5.00	2.75	15.1	14.0	1.80	1.71	.89	14.3	110	20.4	8.92	6.71
27	3.82	3.21	15.8	13.1	1.82	1.39	.84	22.4	105	19.4	7.51	6.62
28	3.47	2.92	14.5	13.1	1.72	1.24	2.76	101	99.8	18.9	7.08	6.58
29	3.61		13.7	13.2	1.82	1.10	4.12	60.5	94.0	19.5	6.56	7.12
30	* 3.86		13.6	14.7	1.85	1.48	12.6	39.4	87.9	19.3	6.27	8.07
31	4.87		13.5		1.69		7.40	31.7		18.6		8.54
Sum	119.58	88.47	259.26	401.2	206.59	52.74	111.23	745.33	3,142.0	1,236.2	311.94	217.44

	Current Year 2006								Period 1968-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters			
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	1.450	1.315	31	5.99	12	2.59	3.86	10,332	49,887	277,577	9,935
Feb.	1.405	1.050	1	6.53	2	.76	3.16	7,644	43,443	223,569	2,764
Mar.	1.485	1.160	27	16.1	8	1.84	8.36	22,400	51,435	275,997	3,745
April	1.505	1.405	23	17.8	8	10.6	13.4	34,664	45,911	199,909	1,296
May	1.495	1.135	1	17.4	26	1.56	6.66	17,849	56,999	243,287	2,826
June	2.260	1.090	22	70.9	!18	.67	1.76	4,557	73,104	383,789	4,557
July	2.125	1.085	30	60.4	27	.80	3.59	9,610	87,271	325,218	7,577
Aug.	3.165	1.320	28	170	2	3.74	24.0	64,397	140,701	866,134	15,800
Sept.	3.585	1.580	21	209	11	14.9	105	271,469	265,931	1,410,221	5,648
Oct.	2.845	1.460	15	138	31	17.6	39.9	106,808	134,176	871,689	7,398
Nov.	1.460	1.250	1	17.7	30	6.10	10.4	26,952	54,754	197,536	3,906
Dec.	1.315	1.245	30	8.79	3	5.92	7.01	18,787	41,337	229,318	2,659
Yearly	3.585	1.050		209		0.67	18.9	595,469	1,044,949	3,092,559	174,514

* Discharge measurement(s) made on this day ! And other days ** Period 1968-2006

08-3745.00 TERLINGUA CREEK NEAR TERLINGUA, TEXAS

DESCRIPTION: Cableway, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorder (graphical and digital) located on the left bank at latitude 29 12'10", longitude 103 37'10", 4.3 creek kilometers upstream from its confluence with the Rio Grande, and about 13.6 kilometers south of Terlingua, Brewster County, Texas. This creek enters the Rio Grande at river kilometer 1,425, the lower end of Santa Helena Canyon. The zero of the gage is 670.83 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 29 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1932 through 2006.

REMARKS: Irrigation diversions upstream of the station modify the flow of this spring-fed creek.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 988 CMS on May 24, 1935 with a gage height of 5.36 meters on a gage 0.5 kilometer downstream. Min. no flow on several occasions in 1986.

Average Flow in Cubic Meters per Second**

Daily:	Max.	487	June 1, 1937	Min.	0	August 14 and 15, 1986
Monthly:	Max.	32.6	Sept. 1974	Min.	0.01	Several months 1995-96
Yearly:	Max.	5.97	2004	Min.	0.10	1994

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.12	* 0.11	* 0.10	0.27	0.08	* 0.57	0.08	* 9.92	0.38	0.11	* 0.12	0.11
2	.12	.11	.09	.22	.08	.33	.07	26.9	.32	.11	.12	.11
3	.12	.11	.09	.14	.07	.26	.07	18.6	.26	* .10	.16	.11
4	* .11	.10	.09	* .09	.07	.22	.07	52.4	.20	.11	.21	.10
5	.11	.10	.09	.10	.07	.17	.06	22.4	.15	.12	.22	* .10
6	.11	.10	.09	.10	.08	.14	.10	4.15	* .11	.13	.21	.11
7	.11	.10	.10	.10	.08	* .09	.07	2.79	.06	.14	.20	.10
8	.11	.10	.10	.09	* .08	.07	.05	2.20	.01	.16	.19	.13
9	.10	.10	.09	.09	.10	.08	.05	.60	.15	.21	.18	.11
10	.11	.10	.10	.07	.10	.08	.08	.52	5.30	2.99	.17	.11
11	.11	.09	.10	.07	.12	.08	* .15	.50	1.79	2.47	.16	.11
12	.11	.10	.10	* .08	.12	.08	.11	.48	.51	.68	.15	.12
13	.11	.10	.10	.08	.13	.08	.07	3.52	* .30	.37	.14	.12
14	.10	.10	.10	.08	.14	.08	.07	* 45.3	.17	.07	* .12	* .12
15	.11	.10	.10	.08	.14	.08	.07	14.9	.16	.08	.09	.13
16	.10	* .10	.09	.07	* .12	.09	.19	3.57	.15	5.04	.10	.16
17	.10	.09	.09	.07	.08	.08	.07	1.39	.15	.93	.10	.18
18	.11	.09	.09	.07	.09	.09	* .07	.49	.27	* .50	.10	.20
19	.10	.09	.10	.07	.11	.09	.07	.34	.21	.30	.11	.21
20	.10	.09	.09	.08	.13	.09	.08	.26	.11	.12	.11	.23
21	.10	.09	.09	.09	.15	.08	.10	.17	.10	.07	.11	.25
22	.10	.09	.09	20.7	.17	.09	.11	* .12	.10	.05	.10	.27
23	.10	.10	.08	4.23	.20	.08	.12	.16	.10	.03	.10	.28
24	* .11	.10	.08	* .17	.32	.08	.13	.21	.10	.02	.11	.30
25	.11	.10	.08	.10	1.00	.08	.14	.27	* .11	.02	.11	.31
26	.10	.10	.08	.10	.46	.08	1.31	.33	.10	.01	.12	.33
27	.10	.10	* .08	.09	.40	.08	5.74	.41	.10	.02	.12	.37
28	.10	.10	.07	.09	.38	.11	2.01	* 22.3	.10	.07	.12	.41
29	.10		.06	.08	.40	.08	1.09	34.7	.10	.08	.12	.46
30	.12		.05	.08	.42	.08	2.87	17.1	.11	.10	.12	.49
31	.11		.19		5.21		3.79	* 1.16		.13		.51
Sum	2.76		27.75		11.10	3.69	19.06	288.16	11.78	15.34	4.09	6.65

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High Day	High	Low Day	Low	Average	Total	Period 1932-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	1.020	0.975	12	0.21	25	0.06	0.11	287	237	1,102	26.8
Feb.	1.010	.990	10	.15	!11	.08	.10	238	271	5,431	25.1
Mar.	1.125	.940	31	.63	16	0	.09	246	320	3,151	26.8
April	2.885	.990	22	375	!10	.05	.93	2,398	1,584	23,016	25.9
May	1.990	1.130	31	47.0	! 5	.06	.36	959	3,812	32,095	100
June	1.235	1.130	1	.97	! 7	.06	.12	319	7,793	67,640	73.4
July	2.465	1.115	27	158	10	.02	.61	1,647	9,180	35,429	141
Aug.	2.485	1.065	14	207	22	.04	9.30	24,897	8,855	79,182	80.4
Sept.	2.290	1.070	10	99.3	! 8	0	.39	1,018	10,642	84,339	62.2
Oct.	1.710	1.125	16	13.1	!14	0	.49	1,325	4,770	46,834	62.7
Nov.	1.290	1.220	! 4	.24	14	.03	.14	353	615	7,190	80.1
Dec.	1.315	1.250	31	.54	5	.09	.21	575	339	3,800	92.4
Yearly	2.885	0.940		375		0	1.09	34,262	48,418	188,835	3,032

* Discharge measurement(s) made on this day ! And other days

08-3750.00 RIO GRANDE AT JOHNSON RANCH NEAR CASTOLON, TEXAS AND SANTA ELENA, CHIHUAHUA

DESCRIPTION: Cableway, gravity well, DCP with GOES high data rate telemetry, water-stage recorder (graphical and digital), located on the left bank at latitude 29 02'05", longitude 103 23'25", and river kilometer 1,388; 2.2 river kilometers upstream from the old Johnson Ranch headquarters, 9.7 river kilometers downstream from Smoky Creek, and 14.8 river kilometers upstream from Chizos Crossing and the Chihuahua-Coahuila state line. The zero of the gage is 623.41 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 26 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: April 1936 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 2,040 CMS, on September 30, 1978 with a gage height of 8.66 meters. A flow estimated at 2,750 CMS with a stage of 7.50 meters occurred at this station site on October 3, 1932. Min. no flow several days in 1953, 1955, 1957, and 1958.

Average Flow in Cubic Meters per Second**

Daily:	Max.	1,850	Oct. 1, 1978	Min.	0.09	June 11, 1996
Monthly:	Max.	470	Sept. 1991	Min.	1.21	May 1996
Yearly:	Max.	97.0	1991	Min.	6.74	2001

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.38	* 3.91	* 3.36	11.2	* 11.2	* 4.27	1.38	18.6	40.7	91.7	* 18.6	7.06
2	5.38	3.83	3.48	10.7	12.8	2.70	1.13	66.1	34.0	87.1	17.7	6.85
3	5.20	3.64	3.03	10.5	11.7	1.79	.75	47.7	24.8	* 82.6	16.5	6.82
4	* 5.01	3.59	2.73	* 11.4	10.3	1.66	.84	63.5	55.7	75.9	16.0	6.63
5	5.03	3.58	2.51	11.2	10.2	1.53	* 1.04	82.0	39.8	65.7	15.3	* 6.67
6	4.83	3.71	2.41	11.1	10.0	1.45	1.08	75.3	* 43.1	49.8	14.5	6.97
7	4.72	3.67	2.27	10.4	9.76	1.36	1.06	53.2	37.6	51.7	13.5	7.25
8	4.49	3.72	2.39	10.4	9.29	1.23	.92	* 27.8	28.8	49.5	12.8	7.56
9	4.50	3.71	2.14	10.1	9.65	1.10	1.76	20.3	28.1	48.0	12.5	7.51
10	4.43	3.58	2.08	10.2	10.0	.98	1.42	17.4	31.8	52.4	11.6	7.60
11	4.34	3.37	2.14	10.7	10.3	.88	2.35	15.1	35.8	53.3	11.3	7.85
12	4.26	3.45	2.08	10.7	10.1	.79	2.75	12.9	38.5	42.1	11.0	7.97
13	4.10	3.49	2.14	10.6	9.84	.70	9.87	11.2	78.4	36.8	11.1	7.76
14	4.04	3.67	2.03	10.9	9.01	* .63	4.49	41.0	95.9	33.6	* 11.2	* 7.37
15	4.07	3.88	5.61	10.1	6.16	.53	4.74	25.9	107	50.1	10.7	7.30
16	4.04	* 3.72	7.04	10.2	* 4.62	.41	3.27	26.3	118	107	9.97	7.40
17	4.06	3.59	7.06	11.0	3.77	.53	2.44	21.1	135	* 48.2	9.80	7.22
18	4.18	3.57	8.06	11.6	3.37	.54	* 3.46	22.5	144	37.7	9.75	7.22
19	4.11	3.58	8.38	11.3	3.07	.43	5.97	13.7	148 *	33.2	9.64	6.63
20	3.95	3.51	9.01	* 11.2	2.68	.32	3.17	12.1	155	30.6	9.79	6.96
21	3.64	3.67	9.88	11.0	2.41	.27	1.87	10.9	164	30.9	9.63	6.86
22	3.64	3.70	10.3	11.3	2.02	.24	1.25	9.84	178	28.6	9.71	6.44
23	3.37	3.76	* 10.3	31.9	1.77	.22	1.20	* 8.69	186	25.9	9.24	6.59
24	* 3.66	3.35	9.53	14.9	1.64	8.26	.92	9.17	181	24.8	8.39	6.53
25	3.58	2.96	10.7	12.0	2.98	3.35	.65	8.68	135 *	23.0	8.44	6.67
26	3.73	3.03	12.0	12.4	2.44	1.68	.47	8.80	116	21.8	8.22	6.67
27	3.61	2.97	12.3	12.0	1.69	2.60	4.02	14.0	111	21.1	8.43	6.80
28	3.92	2.83	13.2	11.2	1.62	2.68	17.5	57.9	107	20.4	8.54	6.74
29	4.10		12.7	10.5	1.57	3.53	12.1	138 *	102	19.7	7.98	6.82
30	3.81		11.7	10.5	1.50	2.03	24.2	73.7	96.5	19.8	7.55	6.79
31	3.69		11.5		6.77		26.0	43.0		19.3		7.15
Sum	130.87	99.04	204.06	353.2	194.23	48.69	144.07	1,056.38	2,796.5	1,382.3	339.38	218.66

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Total	Period 1968-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	1.170	1.075	5.53	2	3.18	23	4.22	11,307	51,218	306,158	10,167
Feb.	1.135	1.075	4.07	1	2.69	28	3.54	8,557	43,126	239,000	4,002
Mar.	1.410	1.015	13.7	28	1.84	10	6.58	17,631	49,289	261,098	3,713
April	2.745	1.315	94.2	23	9.81	7	11.8	30,516	43,697	183,591	805
May	1.565	.960	23.4	31	1.43	31	6.27	16,781	58,929	228,534	3,230
June	1.425	.825	14.6	24	.19	23	1.62	4,207	81,638	442,109	3,899
July	2.300	.875	65.1	28	.40	27	4.65	12,448	117,805	785,117	12,448
Aug.	3.760	1.000	183	29	1.82	23	34.1	91,271	147,364	818,986	20,615
Sept.	3.810	1.510	188	!23	21.7	4	93.2	241,618	107,308	1,217,635	5,619
Oct.	3.075	1.480	120	16	19.1	31	44.6	119,431	154,934	927,275	4,125
Nov.	1.480	1.185	19.1	1	7.18	30	11.3	29,322	57,530	183,566	5,632
Dec.	1.215	1.155	8.06	12	6.27	24	7.05	18,892	42,740	220,460	4,434
Yearly	3.810	0.825	188		0.19		19.1	601,981	955,578	3,058,852	212,557

* Discharge measurement(s) made on this day ! And other days ** Period 1968-2006

08-3772.00 RIO GRANDE AT FOSTER RANCH NEAR LANGTRY, TEXAS AND RANCHO SANTA ROSA, COAHUILA

DESCRIPTION: Cableway, bubbler gage, DCP with GOES high data rate telemetry, concrete control weir, and water-stage recorder (graphic and digital) located on the left bank at latitude 29 46'50", longitude 101 45'30", and river kilometer 1,058; 152 meters downstream from the Terrell-Val Verde County line, 8.8 kilometers downstream from Lozier Canyon, and about 19.8 kilometers west of Langtry, Val Verde County, Texas. The zero of the gage is 352.71 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 36 current-meter measurements during the year, 26 by the United States Section and 10 by the Mexican Section of the Commission, and a continuous record of gage heights. Computations for medium and high flows by shifting control methods. Low flow computations based on a stable control weir rating curve defined by current-meter measurements. Records available: September 1961 through 2006.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. The concrete control weir was placed in operation on February 21, 1967.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 4,190 CMS on November 5, 1978 with a gage height of 11.63 meters. Min. 2.54 CMS on October 12, 2000.

Average Flow in Cubic Meters per Second**

Daily:	Max.	2,310	Sept. 20, 1974	Min.	2.66	October 11, 2000
Monthly:	Max.	443	Sept. 1991	Min.	6.00	May 2000
Yearly:	Max.	110	1991	Min.	12.9	2001

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	14.5	11.1	11.4	18.2	* 16.5	7.40	8.89	17.2	* 86.0	109	27.7	15.1
2	14.0	11.1	11.4	17.6	16.3	7.25	11.1	37.0	42.5	103 *	27.1	14.7
3	13.4	11.1	11.4	* 17.1	15.9	7.10	10.3	27.8	39.9	97.0	26.5	14.5
4	13.4	11.1	11.4	16.6	15.9	7.89	9.49	66.6	40.0	91.8	25.8	* 14.2
5	13.4	11.0	11.4	16.4	16.9	* 10.6	* 8.52	66.8	30.0	84.7	25.1	14.2
6	13.2	* 10.6	* 11.4	16.1	16.8	9.22	7.63	66.2	45.4	76.2	* 24.2	14.5
7	13.1	10.9	11.1	16.4	15.6	8.09	7.57	* 95.0	55.6	65.7	23.1	14.6
8	13.0	10.9	10.6	16.3	15.4	7.34	6.89	95.0	42.9	51.2	22.2	14.4
9	* 12.9	10.9	10.2	16.1	15.2	6.94	6.60	71.0	49.4	47.2	21.3	14.8
10	12.7	11.0	9.75	15.7	14.9	6.56	6.35	43.8	43.2	56.7	* 20.5	15.6
11	12.7	11.0	9.48	15.6	14.5	6.73	6.33	27.9	37.2	* 49.7	19.7	16.0
12	12.5	11.1	9.31	15.6	13.9	6.59	6.18	21.9	35.4	50.9	19.4	15.9
13	12.4	11.1	9.09	15.3	14.9	6.38	6.70	18.6	37.1	57.3	18.6	16.0
14	12.2	11.1	8.82	15.7	15.9	6.22	12.2	17.0	32.1	48.5	18.2	16.1
15	12.1	11.1	8.51	15.8	* 15.3	5.94	8.97	19.4	77.7	44.1	17.3	16.4
16	12.1	11.1	8.51	15.7	14.8	5.80	7.92	54.7	106	* 42.1	17.0	16.4
17	11.9	* 11.3	8.42	* 15.7	14.5	6.15	* 11.7	49.4	118	53.0	16.9	16.2
18	11.7	11.4	8.31	15.4	13.3	6.51	10.0	53.7	127 *	119	17.1	* 16.1
19	11.8	11.4	9.56	15.0	* 11.7	* 6.39	9.85	34.3	136	68.6	16.6	15.9
20	11.7	11.4	* 12.5	15.6	10.6	5.96	9.07	41.0	146	* 50.1	* 15.9	15.8
21	11.6	11.3	12.6	16.3	9.79	5.71	8.31	* 31.8	150	44.9	15.7	* 15.5
22	11.6	11.3	12.8	16.3	9.14	5.65	7.92	25.7	154	39.7	15.5	15.1
23	* 11.5	11.3	13.2	16.2	8.78	7.88	9.84	20.2	160	38.5	15.5	14.7
24	11.6	11.3	14.0	33.4	8.48	6.44	9.24	18.5	167	37.6	15.4	14.8
25	11.3	11.3	14.8	37.4	8.29	6.10	8.30	* 16.7	174 *	35.8	15.3	15.4
26	11.2	11.4	15.3	24.3	7.97	6.12	7.75	15.9	179	35.8	15.1	14.1
27	* 11.2	11.4	15.4	20.1	9.80	6.62	7.30	17.4	148	35.1	14.8	14.3
28	11.2	11.4	15.5	18.4	11.6	7.87	* 6.80	27.9	125	31.0	14.9	14.4
29	11.1		17.0	17.6	7.75	9.64	6.61	45.8	118*	29.8	15.0	14.2
30	11.2		17.7	17.0	7.86	* 9.49	6.78	64.6	113	29.1	14.8	14.3
31	11.1		* 18.3		7.85		11.6	131		28.5		14.3
Sum	379.3	312.4	369.16	538.9	396.11	212.58	262.71	1,339.8	2,815.4	1,751.6	572.2	468.5

	Current Year 2006							Period 1968-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	0.575	0.525	1	14.8	!23	10.9	12.2	32,772	69,990	259,502	27,740
Feb.	.530	.525	!18	11.4	6	10.5	11.2	26,991	62,224	289,215	22,677
Mar.	.615	.500	31	18.6	!18	8.22	11.9	31,895	69,586	277,246	21,622
April	.965	.580	24	68.1	!18	14.9	18.0	46,561	65,233	192,692	16,484
May	.605	.480	27	17.4	30	7.05	12.8	34,224	84,332	289,647	16,069
June	.640	.455	23	22.8	!21	5.34	7.09	18,367	110,599	477,792	18,367
July	.595	.465	31	16.8	13	5.91	8.47	22,698	122,802	435,732	22,016
Aug.	1.435	.570	31	136	1	14.0	43.2	115,759	173,251	929,405	23,366
Sept.	1.720	.690	26	180	5	27.5	93.8	243,251	214,832	1,147,133	22,748
Oct.	1.300	.680	18	127	31	28.1	56.5	151,338	197,817	1,112,382	19,780
Nov.	.690	.575	1	28.8	30	14.4	19.1	49,438	89,193	441,434	29,091
Dec.	.585	.555	16	17.2	! 3	13.6	15.1	40,478	63,421	217,549	24,491
Yearly	1.720	0.455		180		5.34	25.8	813,772	1,323,280	3,465,652	405,582

* Discharge measurement(s) made on this day ! And other days

08-4474.10 PECOS RIVER NEAR LANGTRY, TEXAS

DESCRIPTION: Cableway, concrete control weir, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorder (graphic and digital), located on the right bank at latitude 29 48'10", longitude 101 26'45", about 12.1 kilometers east of Langtry, Texas, 15.3 river kilometers upstream from the Pecos High Railroad Bridge; 24.1 river kilometers upstream from its confluence with the Rio Grande. This stream enters the Rio Grande at river kilometer 991, 38.0 river kilometers downstream from Langtry, Val Verde County, Texas. The zero of the gage is 345.36 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 32 current-meter measurements during the year, 24 by the United States Section and 8 by the Mexican Section of the Commission, and a continuous record of gage heights. Computations for high flows by shifting control methods. Low and medium flow computations based on stable control weir rating curves defined by current-meter measurements. Records available: July 1967 through 2006. Records are also available for Pecos River near Comstock, 15.3 river kilometers downstream, from March 17 through December 3, 1898 and May 1900 through October 7, 1954; for Pecos River near Shumla, 5.6 river kilometers upstream, from October 8, 1954 through June 1967; and for Pecos River at Mouth near Comstock, from March 1961 through July 2, 1968.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 16,300 CMS on September 20, 1974, with a gage height of 22.95 meters. The greatest flood of record, which exceeded a gage height of 30.5 meters at this station, occurred on June 28, 1954. The peak discharge was 26,800 CMS at the gaging station located near the railroad bridge 15.3 river kilometers downstream. Min. 1.14 CMS on August 4, 1998 with a gage height of 0.425 meters.

Average Flow in Cubic Meters per Second

Daily:	Max.	4,330	Sept. 20 , 1974	Min.	1.19	August 4, 1998
Monthly:	Max.	382	Sept. 1974	Min.	1.53	July 1998
Yearly:	Max.	42.5	1974	Min.	3.27	1999

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.60	5.11	5.14	4.74	* 3.82	2.95	3.26	2.31	* 2.80	3.38	4.04	3.87
2	5.55	5.14	5.11	5.51	3.70	3.37	3.18	2.31	2.73	3.34	3.99	3.94
3	5.54	5.13	5.06	* 5.49	3.85	3.28	3.14	2.61	2.84	* 3.31	3.96	4.04
4	5.55	5.12	5.00	4.97	3.80	3.06	3.18	2.76	2.94	3.29	3.95	* 4.02
5	5.47	5.19	5.06	4.65	3.72	* 2.90	* 3.16	2.65	3.26	3.30	4.05	3.99
6	5.45	* 5.13	* 5.09	4.58	3.78	2.75	3.12	2.64	3.40	3.29	* 4.11	4.01
7	5.45	5.09	5.04	4.48	3.70	2.73	3.00	2.59	3.17	3.25	4.08	4.08
8	5.47	5.05	5.08	4.29	3.64	2.83	2.95	* 2.53	3.11	3.19	4.02	4.08
9	* 5.48	5.06	5.04	4.23	3.66	2.87	2.90	2.49	3.18	3.18	3.99	4.08
10	5.44	5.10	5.06	4.18	3.56	2.78	2.78	2.46	3.15	3.34	* 3.96	4.10
11	5.41	5.11	5.09	4.21	3.85	2.70	2.71	2.45	4.84	3.71	3.82	4.15
12	5.45	5.03	5.11	4.29	3.61	2.69	2.63	2.42	16.1	3.54	3.74	4.17
13	5.44	5.03	4.99	4.27	3.43	2.73	2.55	2.34	5.60	3.38	3.77	4.14
14	5.37	5.00	4.90	4.23	3.42	2.73	2.53	2.32	4.75	4.25	3.82	4.11
15	5.34	5.04	4.83	4.19	* 3.33	2.62	2.51	2.41	4.38	6.82	3.74	4.11
16	5.41	5.06	4.89	4.22	3.25	2.51	2.52	2.52	4.29	* 6.76	3.64	4.16
17	5.41	* 4.99	4.98	* 4.24	3.25	2.60	* 2.53	2.50	4.24	5.87	3.69	4.15
18	5.35	4.91	5.04	4.21	3.21	2.75	2.47	2.42	* 4.25	5.22	3.75	* 4.17
19	5.34	4.96	5.20	4.09	* 3.17	* 3.06	2.43	2.36	4.04	4.86	3.76	4.34
20	5.36	5.01	5.39	4.14	3.05	2.98	2.41	2.36	3.89	4.63	* 3.72	4.98
21	5.35	5.08	* 5.16	4.26	2.98	2.80	2.40	* 2.40	3.90	4.47	3.68	* 4.63
22	5.30	5.14	5.14	4.08	2.97	2.76	2.41	2.44	3.86	4.35	3.68	4.37
23	* 5.26	5.15	4.97	4.06	2.96	2.80	2.63	2.42	3.74	4.20	3.75	4.31
24	5.20	5.11	4.89	4.03	3.02	2.97	2.59	2.37	3.55	4.15	3.80	4.28
25	5.18	5.18	4.87	4.00	3.06	3.09	2.52	* 2.34	3.43	4.28	3.80	4.23
26	5.13	5.15	4.75	3.91	2.97	3.39	2.46	2.35	3.40	4.36	3.84	4.16
27	* 5.12	5.17	4.73	3.81	2.92	3.26	2.43	2.35	3.34	4.24	3.88	4.19
28	5.18	5.17	4.82	4.00	3.11	3.29	* 2.38	2.43	3.34	4.12	3.92	4.19
29	5.22		4.83	4.69	3.15	3.23	2.37	2.78	3.36	4.09	3.98	4.28
30	5.18		4.72	4.48	2.95	* 3.24	2.36	2.76	3.36	4.07	3.96	4.39
31	5.13		* 4.70		2.94		2.33	2.84		4.09		4.31
Sum	166.13	142.41	154.68	130.53	103.83	87.72	82.84	76.93	122.24	128.33	115.89	130.03

	Current Year 2006								Period 1967-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters			
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	0.605	0.590	1	5.68	26	5.01	5.36	14,354	14,914	36,067	8,714
Feb.	.600	.590	25	5.31	18	4.84	5.09	12,304	13,571	31,348	7,452
Mar.	.600	.575	20	5.58	!30	4.65	4.99	13,364	14,233	31,835	8,331
April	.620	.545	2	5.93	27	3.72	4.35	11,278	14,849	64,098	7,956
May	.555	.510	3	4.04	27	2.78	3.35	8,971	17,806	56,812	5,182
June	.545	.495	2	3.69	16	2.46	2.92	7,579	16,285	56,469	5,200
July	.520	.485	1	3.33	31	2.27	2.67	7,157	18,160	94,844	4,767
Aug.	.510	.485	29	2.93	13	2.22	2.48	6,647	19,683	199,892	4,747
Sept.	.915	.495	12	31.6	! 1	2.65	4.07	10,562	43,532	992,293	4,479
Oct.	.645	.520	!15	7.08	! 8	3.14	4.14	11,088	26,255	140,507	6,198
Nov.	.555	.540	6	4.16	16	3.60	3.86	10,013	18,592	73,681	6,979
Dec.	.590	.545	20	5.21	1	3.77	4.19	11,235	15,975	46,697	8,187
Yearly	0.915	0.485		31.6		2.22	3.95	124,552	233,855	1,341,805	103,647

* Discharge measurement(s) made on this day ! And other days

08-4474.20 DEADMANS CANYON NEAR COMSTOCK, TEXAS

To determine storm runoff previously included with flows measured on the Pecos River at a gaging station which was relocated upstream due to completion of Amistad Dam, a gaging station was established at Deadmans Canyon in 1968.

DESCRIPTION: Cableway, control weir, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorder (graphic and digital), located on the left bank of the canyon at latitude 29 47'05", longitude 101 19'25", 3.7 kilometers upstream from its confluence with the Pecos River, which is 15.3 kilometers upstream from the Pecos River confluence with the Rio Grande. The zero of the gage is 359.05 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on current-meter measurements, a continuous record of gage heights, and the weir discharge rating. Records available: March 1968 through 2006.

REMARKS: This stream is normally dry, its flow being confined to periods of storm runoff from its 228 square kilometers of watershed area. Only the days of flow are shown below.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,070 CMS on September 17, 1974, with a gage height of 3.90 meters. Maximum volumes: Monthly, 35,973 TCM in September 1974; yearly, 37,654 TCM in 1974.

Average Flow in Cubic Meters per Second

Daily:	Max.	166	Sept. 18, 1974	Min.	
Monthly:	Max.	13.9	Sept. 1974	Min.	see REMARKS
Yearly:	Max.	1.20	1974	Min.	

Mean Daily Discharge in CMS 2006

Month and Day			
	No Flow during 2006		

Annual Summary

Month	Maximum Gage and Discharge			Thousand Cubic Meters
	Day	Meters	CMS	
Yearly				

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

08-4494.00 DEVILS RIVER AT PAFFORD CROSSING NEAR COMSTOCK, TEXAS

DESCRIPTION: Concrete control wall with rectangular notch opening of 25.5 CMS capacity, cableway, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorders (graphic & digital), located on the left bank at latitude 29 40'35", longitude 101 00'00", about 18.5 kilometers east of Comstock, Val Verde County, Texas, and 41.0 river kilometers upstream from its confluence with the Rio Grande. The confluence is located at river kilometer 925, 1.1 river kilometer upstream from Amistad Dam. The zero of the gage is 345.00 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 35 current-meter measurements during the year, 24 by the United States Section and 11 by the Mexican Section of the Commission, a stable rating curve based on current-meter measurements, and a continuous record of gage heights. Records available: 1960 through 2006. Records are also available from May 1900 through March 1914 for a station 38.3 river kilometers downstream; from December 1923 through September 1932 for a station 36.7 river kilometers downstream; from September 2, 1932 through August 1957 for a station 33.8 river kilometers downstream; from August 7, 1954 through January 1958 for a station 8.7 river kilometers upstream; and from August 1954 through May 31, 1968 for a station at the mouth 39.8 river kilometers downstream.

REMARKS: At this station the flow of this spring-fed stream is very uniform during periods of dry weather and is not modified by diversions or storage.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 7,080 CMS on September 18, 1974 with a gage height of 6.04 meters. Min. 1.38 CMS on August 20, 1969.

Average Flow in Cubic Meters per Second

Daily:	Max.	3,480	Sept. 18, 1974	Min.	1.52	August 20, 1969
Monthly:	Max.	240	Sept. 1974	Min.	1.82	August 1964
Yearly:	Max.	27.7	1974	Min.	2.83	1968

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.00	8.45	8.63	8.10	* 7.58	6.72	7.19	* 6.19	6.13	5.95	6.04	5.89
2	8.96	8.50	8.64	8.10	7.55	6.72	7.22	6.22	5.97	* 5.86	5.94	6.01
3	8.95	8.50	8.61	* 7.96	7.53	6.73	7.34	6.33	5.88	5.83	5.92	6.07
4	8.91	8.53	8.66	7.82	7.63	6.67	7.35	* 6.89	5.80	5.84	5.97	* 6.06
5	8.84	8.61	8.84	7.85	7.48	* 6.61	* 7.18	6.72	* 7.29	5.89	6.05	6.07
6	8.84	* 8.44	* 8.55	7.99	7.47	6.54	6.86	6.62	7.07	5.82	* 6.12	6.14
7	8.91	8.49	8.22	7.85	7.32	6.59	6.84	6.52	6.59	5.80	6.03	6.11
8	8.93	8.52	8.21	7.73	7.30	6.65	6.86	6.42	* 6.73	5.79	5.98	6.00
9	* 8.88	8.51	8.07	7.90	7.31	* 6.54	6.96	6.40	6.78	5.84	5.99	6.02
10	8.81	* 8.47	* 8.03	7.91	7.06	6.46	6.87	6.37	6.72	6.36	5.92	6.07
11	8.83	8.37	8.10	7.97	6.92	6.47	6.81	6.31	6.69	6.38	5.78	6.10
12	8.92	8.42	8.07	8.08	6.82	6.47	6.72	6.29	6.73	6.25	5.80	6.07
13	8.83	8.34	7.84	8.06	6.86	6.50	6.72	6.25	7.75	6.03	5.96	6.00
14	8.76	8.38	7.77	7.99	6.91	6.49	* 6.70	* 6.46	7.09	6.21	6.01	6.00
15	8.84	8.44	7.77	8.01	* 6.83	6.36	6.76	6.36	6.97	6.41	5.81	5.99
16	8.93	8.48	7.94	8.10	6.74	6.34	6.74	6.40	7.04	* 6.54	5.80	5.99
17	8.86	8.39	* 7.95	* 8.14	6.75	6.92	* 6.34	6.26	7.27	6.34	5.91	5.98
18	8.84	8.29	7.96	8.07	6.68	6.98	6.10	6.18	* 7.31	6.33	5.99	* 6.00
19	8.86	8.38	8.36	8.01	6.62	* 6.76	6.09	6.14	7.03	6.17	6.02	6.23
20	* 8.92	8.47	8.18	8.25	6.49	6.68	6.09	6.19	6.75	6.08	* 6.03	6.28
21	8.80	* 8.48	8.00	8.41	6.48	6.65	6.09	6.24	6.66	6.15	5.98	6.06
22	8.80	8.52	7.90	8.04	6.47	6.73	6.21	6.26	6.65	6.09	6.00	5.96
23	* 8.83	8.49	7.87	7.94	6.44	6.87	6.35	6.27	6.58	6.07	6.04	6.03
24	8.80	8.44	7.89	7.92	6.40	7.00	6.38	6.23	6.34	6.13	* 6.04	6.11
25	8.70	8.43	7.89	7.82	6.39	7.20	6.20	6.19	6.28	6.48	6.03	6.02
26	8.57	8.40	7.84	7.68	6.42	7.20	6.24	6.14	6.23	6.42	6.06	6.03
27	8.64	8.41	8.00	7.73	6.52	7.03	6.20	6.12	6.19	* 6.07	6.09	6.10
28	9.43	8.58	8.10	* 7.86	7.02	7.00	6.22	6.19	6.16	5.97	6.11	* 6.15
29	8.78		8.05	8.07	6.65	7.06	6.22	6.69	6.05	5.99	6.07	6.38
30	8.57		8.09	7.88	6.48	7.09	6.18	6.56	6.01	6.02	5.90	6.35
31	8.41		8.07		6.45		6.19	6.32		6.07		6.25
Sum	273.95	236.73	252.10	239.24	213.57	202.03	204.22	196.73	198.74	189.18	179.39	188.52

	Current Year 2006							Period 1960-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	0.720	0.690	28	9.81	31	8.32	8.84	23,669	20,438	42,198	5,732
Feb.	.705	.685	21	8.99	13	8.10	8.45	20,453	18,656	52,636	4,933
Mar.	.705	.675	19	9.22	15	7.58	8.13	21,781	18,736	49,620	5,163
April	.690	.670	!20	8.59	8	7.53	7.97	20,670	18,564	47,831	5,575
May	.695	.650	3	8.59	!20	6.39	6.89	18,452	20,117	49,101	5,572
June	.675	.640	25	7.79	15	6.11	6.73	17,455	21,798	67,011	5,253
July	.665	.640	4	7.53	19	5.94	6.59	17,645	25,883	230,071	4,976
Aug.	.665	.635	30	7.18	! 1	6.02	6.35	16,997	43,792	504,380	4,878
Sept.	.740	.635	13	12.0	4	5.68	6.62	17,171	46,495	621,065	6,167
Oct.	.660	.635	16	6.84	7	5.68	6.10	16,345	38,227	272,093	6,172
Nov.	.645	.630	! 6	6.20	15	5.64	5.98	15,499	27,493	206,634	5,590
Dec.	.650	.630	29	6.61	1	5.76	6.08	16,288	21,478	55,071	5,794
Yearly	0.740	0.630		12.0		5.64	7.05	222,425	321,677	872,184	89,420

* Discharge measurement(s) made on this day ! And other days

08-4494.40 BIG SATAN CREEK NEAR COMSTOCK, TEXAS

To determine storm runoff previously included with flows measured on the Devils River at a gaging station which was relocated upstream due to completion of Amistad Dam, a gaging station was established at Big Satan Creek in 1968.

DESCRIPTION: Cableway, control weir, bubbler gage, DCP with GOES high data rate telemetry, water stage recorders (graphic and digital) located on the right bank of the creek at latitude 29 39'50", longitude 100 57'50", 1.8 kilometers upstream from its confluence with the Devils River, which is 34.1 kilometers upstream from the Devils River confluence with the Rio Grande. The zero of the gage is 345.64 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on current-meter measurements, a continuous record of gage heights, and the weir discharge rating. Records available: May 1968 through 2006.
REMARKS: This creek is normally dry, its flow being confined to periods of storm runoff from its 109 square kilometers of watershed area. Only the days of flow are shown below.
EXTREME FLOWS FROM RECORDS: Momentary: Max. 2,280 CMS on August 23, 1998, with a gage height of 4.420 meters. Maximum volumes: Monthly, 30,502 TCM in August 1998; yearly, 30,502 TCM in 1998.

Average Flow in Cubic Meters per Second

Daily:	Max.	249	Aug. 23, 1998	Min.	
Monthly:	Max.	11.4	Aug. 1998	Min.	see REMARKS
Yearly:	Max.	0.97	1998	Min.	

Mean Daily Discharge in CMS 2006

Month and Day

No Flow during 2006

Annual Summary

Month	Maximum Gage and Discharge			Thousand Cubic Meters
	Day	Meters	CMS	
Yearly				

08-4494.80 ROUGH CANYON NEAR DEL RIO, TEXAS

To determine storm runoff previously included with flows measured on the Devils River at a gaging station which was relocated upstream due to completion of Amistad Dam, a gaging station was established at Rough Canyon in 1968.

DESCRIPTION: Cableway, control weir, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorders (graphic and digital), located on the right bank at latitude 29 34'40", longitude 100 56'00", 6.3 kilometers upstream from its confluence with the Devils River, which is 17.9 kilometers upstream from the Devils River confluence with the Rio Grande. The zero of the gage is 314.12 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on current-meter measurements, a continuous record of gage heights, and the weir discharge rating. Records available: January 1968 through 2006.
REMARKS: This stream is normally dry, its flow being confined to periods of storm runoff from its 62.2 square kilometers of watershed area. Only the days of flow are shown below.
EXTREME FLOWS FROM RECORDS: Momentary: Max. 438 CMS on August 24, 1998, with a gage height of 2.870 meters. Maximum volumes: Monthly, 11,697 TCM in August 1998; yearly, 11,697 TCM in 1998.

Average Flow in Cubic Meters per Second

Daily:	81.9	Aug. 24, 1998		Min.	
Monthly:	4.37	Aug. 1998		Min.	see REMARKS
Yearly:	0.37	1998		Min.	

Mean Daily Discharge in CMS 2006

Month and Day

No Flow during 2006

Annual Summary

Month	Maximum Gage and Discharge			Thousand Cubic Meters
	Day	Meters	CMS	
Yearly				

08-4494.85 NORTH FORK SAN PEDRO CREEK NEAR DEL RIO, TEXAS

To determine storm runoff previously included with flows measured on the Devils River at a gaging station which was relocated upstream due to completion of Amistad Dam, a gaging station was established at the north fork of San Pedro Creek in 1968.

DESCRIPTION: Cableway, control weir, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorders (graphic and digital), located on the right bank of the creek at latitude 29 31'20", longitude 100 53'00", 4.8 kilometers upstream from its confluence with the Middle Fork Branch, which is 10.1 kilometers upstream from its confluence with Devils River which itself is 7.2 river kilometers above Devils River confluence with the Rio Grande. The zero of the gage is 343.49 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on current-meter measurements, a continuous record of gage heights, and the weir discharge rating. Records available: January 1968 through 2006.
REMARKS: This creek is normally dry, its flow being confined to periods of storm runoff from its 44 square kilometers of watershed area. Only the days of flow are shown below.
EXTREME FLOWS FROM RECORDS: Momentary: Max. 253 CMS on August 23 & 24, 1998, with a gage height of 3.750 meters. Maximum volumes: Monthly, 10,670 TCM in August 1998; yearly,10,670 TCM in 1998.

Average Flow in Cubic Meters per Second

Daily:	Max.	67.1	Aug. 23, 1998	Min.	
Monthly:	Max.	3.98	Aug. 1998	Min.	see REMARKS
Yearly:	Max.	0.34	1998	Min.	

Mean Daily Discharge in CMS 2006

Month and Day			
No Flow during 2006			

Annual Summary

Month	Maximum Gage and Discharge: Day	Meters	CMS	Thousand Cubic Meters
Yearly				

08-4494.90 MIDDLE FORK SAN PEDRO CREEK NEAR DEL RIO, TEXAS

To determine storm runoff previously included with flows measured on the Devils River at a gaging station which was relocated upstream due to completion of Amistad Dam, a gaging station was established at the middle fork of San Pedro Creek in 1968.

DESCRIPTION: Cableway, control weir, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorders (graphic and digital), located on the right bank of the creek at latitude 29 29'30", longitude 100 52'50", 5.1 kilometers upstream from its confluence with the North Fork Branch, which is 10.1 kilometers above the confluence with Devils River, which itself is 7.2 river kilometers above the Devils River confluence with the Rio Grande. The zero of the gage is 346.56 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on current-meter measurements, a continuous record of gage heights, and the weir discharge rating. Records available: December 1967 through 2006.
REMARKS: This creek is normally dry, its flow being confined to periods of storm runoff from its 31 square kilometers of watershed area. Only the days of flow are shown below.
EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,560 CMS on August 23, 1998, with a gage height of 3.425 meters. Maximum volumes: Monthly, 18,121 TCM in August 1998; yearly, 18,121 TCM in 1998.

Average Flow in Cubic Meters per Second

Daily:	Max.	96.8	Aug. 23, 1998	Min.	
Monthly:	Max.	6.77	Aug. 1998	Min.	see REMARKS
Yearly:	Max.	0.57	1998	Min.	

Mean Daily Discharge in CMS 2006

Month and Day			
No Flow during 2006			

Annual Summary

Month	Maximum Gage and Discharge: Day	Meters	CMS	Thousand Cubic Meters
Yearly				

08-4495.90 EVANS CREEK NEAR COMSTOCK, TEXAS

To determine storm runoff previously included with flows measured on the Devils River at a gaging station which was relocated upstream due to completion of Amistad Dam, a gaging station was established at Evans Creek in 1968.

DESCRIPTION: Cableway, control weir, bubbler gage, DCP with GOES high data rate telemetry, water-stage recorder (graphic and digital), located on the left bank of the creek at latitude 29 32'15", longitude 101 06'10", 17.7 kilometers upstream from its confluence with the Devils River, which is 5.1 kilometers upstream from the Devils River confluence with the Rio Grande. The zero of the gage is 354.34 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on current-meter measurements, a continuous record of gage heights, and the weir discharge rating. Records available: December 1967 through 2006.

REMARKS: This creek is normally dry, its flow being confined to periods of storm runoff from its 192 square kilometers of watershed area. Only the days of flow are shown below.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 714 CMS on August 23, 1998, with a gage height of 2.180 meters. Maximum volumes: Monthly, 23,342 TCM in August 1998; yearly, 23,342 TCM in 1998.

Average Flow in Cubic Meters per Second

Daily:	212	Aug. 23,	1998	Min.	
Monthly:	8.71	Aug.	1998	Min.	see REMARKS
Yearly:	0.74		1998	Min.	

Mean Daily Discharge in CMS 2006

Month and Day			
No Flow during 2006			

Annual Summary

Month	Maximum Gage and Discharge			Thousand Cubic Meters
	Day	Meters	CMS	
Yearly				

08-4508.05 CARMINA SPRINGS NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Cipolletti weir of 2.00 CMS capacity and staff gage located on a creek about 40 meters upstream from its confluence with the Rio Grande, at latitude 29 26'37", longitude 101 03'27", and about 17.7 kilometers northwest of Cd. Acuna, Coahuila. This creek enters the Rio Grande from Mexico at river kilometer 923, 0.4 river kilometer downstream from Amistad Dam and 20.3 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The elevation of the zero of the gage has not been determined.

RECORDS: Based on a continuous record of gage heights and the weir rating table. Records available: 1969 through 2006.

REMARKS: At least 104 separate springs have emerged on the watershed of this small creek since operation of Amistad Dam began in May 1968. Prior to this time, flow in this creek was exclusively from storm runoff. All storm water from surface runoff passing this station is deducted and is not included in the tabulation below. On September 24, 1971, a flood destroyed part of the weir.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.82	1.82	1.78	1.76	1.70	1.64	1.64	1.64	1.64	1.66	1.70	1.70
2	1.82	1.82	1.76	1.76	1.70	1.64	1.64	1.64	1.64	1.66	1.70	1.70
3	1.82	1.81	1.76	1.76	1.70	1.64	1.64	1.64	1.64	1.67	1.70	1.70
4	1.82	1.81	1.76	1.76	1.70	1.64	1.64	1.64	1.64	1.67	1.70	1.70
5	1.82	1.80	1.76	1.73	1.70	1.64	1.64	1.64	1.64	1.66	1.70	1.68
6	1.82	1.80	1.76	1.70	1.70	1.64	1.64	1.64	1.64	1.66	1.70	1.67
7	1.82	1.79	1.76	1.73	1.70	1.64	1.64	1.64	1.64	1.64	1.70	1.67
8	1.82	1.79	1.76	1.73	1.70	1.64	1.64	1.64	1.64	1.64	1.70	1.67
9	1.82	1.79	1.76	1.73	1.70	1.64	1.64	1.64	1.64	1.64	1.70	1.67
10	1.82	1.79	1.76	1.73	1.70	1.64	1.64	1.64	1.63	1.64	1.70	1.67
11	1.82	1.79	1.76	1.73	1.70	1.64	1.64	1.64	1.63	1.64	1.70	1.67
12	1.82	1.79	1.76	1.72	1.70	1.64	1.64	1.64	1.62	1.64	1.70	1.67
13	1.79	1.79	1.76	1.70	1.69	1.64	1.64	1.64	1.62	1.64	1.70	1.67
14	1.79	1.79	1.76	1.70	1.69	1.64	1.64	1.64	* 1.61	1.64	1.70	1.67
15	1.79	1.79	1.76	1.70	1.69	1.64	1.64	1.64	1.61	1.67	1.70	1.67
16	1.79	1.79	1.76	1.70	1.69	1.64	1.64	1.64	1.60	1.67	1.70	1.70
17	1.80	1.79	1.76	1.70	1.68	1.64	1.64	1.64	1.60	1.67	1.70	1.70
18	1.82	1.79	1.76	1.70	1.68	1.64	1.64	1.64	1.59	1.68	1.70	1.70
19	1.82	1.79	1.76	1.70	1.68	1.64	1.64	1.64	1.59	1.70	1.70	1.70
20	1.82	1.79	1.76	1.70	1.68	1.64	1.64	1.64	1.58	1.70	1.70	1.68
21	1.82	1.79	1.76	1.70	1.68	1.64	1.64	1.64	1.58	1.70	1.70	1.67
22	1.82	1.79	1.76	1.70	1.67	1.64	1.64	1.64	1.58	1.67	1.70	1.67
23	1.82	1.79	1.76	1.70	1.67	1.64	1.64	1.64	1.58	1.68	1.70	1.67
24	1.82	1.79	1.76	1.70	1.67	1.64	1.64	1.64	1.60	1.70	1.70	1.67
25	1.82	1.79	1.76	1.70	1.67	1.64	1.64	1.64	1.61	1.70	1.70	1.67
26	1.82	1.79	1.76	1.70	1.66	1.64	1.64	1.64	1.63	1.70	1.70	1.67
27	1.82	1.79	1.76	1.70	1.66	1.64	1.64	1.64	1.64	1.70	1.70	1.70
28	1.82	1.79	1.76	1.70	1.65	1.64	1.64	1.64	1.64	1.70	1.70	1.70
29	1.82		1.76	1.70	1.65	1.64	1.64	1.64	1.65	1.70	1.70	1.70
30	1.82		1.76	1.70	1.64	1.64	1.64	1.64	1.65	1.70	1.70	1.70
31	1.82		1.76		1.64		1.64	1.64		1.70		1.68
Sum	50.24	51.44	49.20	50.84	51.84	52.16	56.28	54.58	52.14	50.84	48.60	51.00

	Current Year 2006							Period 1969-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day		Low Day		Average	Total	Average	Maximum	Minimum
Jan.	0.440	0.435	! 1	1.82	!13	1.79	1.82	4,863	3,376	5,155	449
Feb.	.440	.435	! 1	1.82	! 7	1.79	1.79	4,341	3,068	4,603	460
Mar.	.435	.430	1	1.79	! 1	1.76	1.76	4,716	3,354	5,047	648
April	.430	.420	! 1	1.76	! 5	1.70	1.71	4,444	3,178	4,873	776
May	.420	.410	! 1	1.70	!21	1.64	1.68	4,505	3,168	4,908	874
June	.410	.405	! 1	1.64	12	1.61	1.64	4,251	3,013	4,746	738
July	.410	.405	! 1	1.64	6	1.61	1.64	4,393	3,098	4,925	658
Aug.	.410	.405	! 1	1.64	6	1.61	1.64	4,393	3,149	4,902	666
Sept.	.415	.400	!29	1.65	!20	1.58	1.62	4,199	3,116	4,717	731
Oct.	.420	.410	!18	1.70	! 1	1.64	1.67	4,479	3,382	4,943	1,024
Nov.	.420	.415	! 1	1.70	!10	1.67	1.70	4,406	3,322	4,716	1,189
Dec.	.420	.415	! 1	1.70	! 6	1.67	1.68	4,507	3,481	5,019	1,329
Yearly	0.440	0.400		1.82		1.58	1.70	53,497	38,705	58,122	11,201

* Discharge measurement(s) made on this day ! And other days

LOURDES AND HILDA SPRINGS NEAR CD. ACUNA, COAHUILA

08-4508.20 LOURDES SPRING

DESCRIPTION: Rectangular sharp-crested weir of 0.82 CMS capacity and staff gage located at latitude 29 26'35", longitude 101 03'30", at the base of the high bank of the Rio Grande, and about 17.9 kilometers northwest of Cd. Acuna, Coahuila This creek enters the Rio Grande from Mexico at river kilometer 922, 19.6 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 282.33 meters above mean sea level U. S. C. & G. S. datum.
RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: 1969 through 2006.
REMARKS: This spring emerged since operation of Amistad Dam began in May 1968. All storm water from surface runoff passing this station is deducted.

	Current Year 2006							Period 1969-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters			
Month	High	Low	Day	@ High	Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.090	0.085	!19	0.05	! 1	0.04	0.04	118	142	199	107
Feb.	.090	.090	! 1	.05	! 1	.05	.05	121	130	228	96.8
Mar.	.090	.090	! 1	.05	! 1	.05	.05	134	143	258	107
April	.095	.090	! 1	.05	! 1	.05	.05	130	138	171	95.0
May	.095	.095	! 1	.05	! 1	.05	.05	134	139	176	80.4
June	.095	.090	! 1	.05	! 1	.05	.05	130	134	181	77.8
July	.090	.090	! 1	.05	! 1	.05	.05	134	138	187	55.3
Aug.	.090	.090	! 1	.05	! 1	.05	.05	134	139	187	53.6
Sept.	.090	.090	! 1	.05	! 1	.05	.05	130	135	181	36.3
Oct.	.090	.085	! 1	.05	! 1	.05	.05	134	139	187	26.8
Nov.	.085	.085	! 1	.05	!19	.04	.05	119	134	181	20.7
Dec.	.095	.085	! 1	.05	! 1	.04	.04	118	136	187	0
Yearly	0.095	0.085		0.05		0.04	0.05	1,536	1,647	2,085	793

@ Mean daily ! And other days

08-4508.30 HILDA SPRING

DESCRIPTION: Rectangular sharp-crested weir of 1.50 CMS capacity and staff gage located on a creek about 100 meters upstream from its confluence with the Rio Grande, at latitude 29`26'20 ", longitude 101`03'35", and about 17.7 kilometer northwest of Cd. Acuna, Coahuila. This creek enters the Rio Grande from Mexico at river kilometer 922, 19.0 kilometer upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 276.80 meters above mean sea level, U. S. C. & G. S. datum.
RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: 1969 through 2006.
REMARKS: This spring emerged since operation of Amistad Dam began in May 1968. All storm water from surface runoff passing this station is deducted.

	Current Year 2006							Period 1969-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters			
Month	High	Low	Day	@ High	Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.065	0.055	! 1	0.04	! 1	0.04	0.04	107	158	321	26.8
Feb.	.055	.055	! 1	.04	! 1	.04	.04	96.8	142	290	24.1
Mar.	.075	.055	!28	.06	! 1	.04	.05	130	152	297	26.8
April	.090	.075	!19	.07	! 1	.06	.06	166	144	278	25.9
May	.090	.060	! 1	.07	!21	.05	.06	158	144	268	26.8
June	.065	.055	! 1	.05	! 2	.04	.04	113	135	259	25.9
July	.070	.060	! 1	.05	!20	.04	.05	124	136	285	26.8
Aug.	.065	.055	! 1	.04	! 1	.04	.04	107	133	295	26.8
Sept.	.065	.055	! 1	.04	!21	.03	.04	95.0	133	289	25.9
Oct.	.055	.050	!18	.04	! 1	.03	.03	92.4	147	299	26.8
Nov.	.060	.055	! 1	.04	! 1	.04	.04	104	148	311	25.9
Dec.	.060	.055	! 1	.04	!21	.03	.04	97.6	156	321	26.8
Yearly	0.090	0.050		0.07		0.03	0.04	1,391	1,728	3,345	315

@ Mean daily ! And other days

08-4509.00 RIO GRANDE BELOW AMISTAD DAM NEAR CD. ACUNA, COAHUILA AND DEL RIO, TEXAS

DESCRIPTION: Cableway, gravity well, concrete control weir, and water-stage recorders (graphic and digital), located on the left bank at latitude 29 25'30", longitude 101 02'25", and river kilometer 920, 3.4 river kilometers downstream from Amistad Dam and 17.4 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 274.00 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 23 current-meter measurements during the year, 11 by the Mexican Section and 12 by the U.S. Section, and a continuous record of gage heights. Computations for high flows by shifting control methods. Low and medium flow computations based on a stable control weir rating curve defined by current-meter measurements. Records available: September 1954 through 2005. Records are also available from May 1900 through April 1915 for a station 3.1 kilometers upstream; from December 1919 through March 1920 for a station 2.7 kilometers downstream near McKee's Switch; from July 2, 1941 through August 1954 and October 1960 through 1967 for a station at the international highway bridge; and from December 1923 through July 2, 1941, and 1968 through 2006 for a station approximately 17.1 kilometers downstream.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. On May 31, 1968 Amistad Dam started impounding water. After this day, flow at this station is controlled largely by releases from Amistad Reservoir, 3.4 river kilometers upstream. A computerized radio telemetry system relays gage height data to the Amistad Dam office.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 32,790 CMS on June 28, 1954, determined by slope-area computation, with a gage height of 16.98 meters at the old station site 152 meters downstream. This is the greatest rate of discharge recorded at any point on the Rio Grande. Max. since Amistad Dam, 1,760 CMS on Sept. 21, 1974. Min. 0.63 CMS on February 14, 1969, with a gage height of 0.33 meters.

Average Flow in Cubic Meters per Second**

Daily:	Max.	1,730	Sept. 23, 1974	Min.	1.32	August 13, 1998
Monthly:	Max.	609	Sept. 1974	Min.	1.72	October 1971
Yearly:	Max.	140	1974	Min.	13.9	2004

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	22.1	36.4	54.4	55.6	86.0	54.3	56.5	33.6	22.8	22.5	22.8	57.6
2	23.6	52.9	53.9	56.5	88.1	54.4	38.4	34.7	22.9	22.5	22.8	58.5
3	22.2	54.1	54.6	55.1	86.4	54.7	36.8	35.6	22.9	21.9	22.8	56.6
4	24.1	54.0	54.0	55.1	89.2	53.1	35.3	36.1	22.8	22.2	23.5	56.2
5	23.8	52.7	55.1	52.1	87.2	53.5	34.3	36.5	23.8	22.8	23.7	56.6
6	24.8	51.8	55.5	54.3	89.4	53.6	34.3	35.6	25.0	23.2	22.6	56.1
7	25.6	55.8	52.6	53.9	88.8	54.0	34.4	37.7	25.3	22.8	22.6	56.1
8	38.6	52.2	* 53.8	53.1	90.4	34.5	33.9	35.6	25.2	23.3	21.8	59.2
9	41.0	55.8	54.2	54.0	91.7	35.8	35.2	* 35.1	25.1	23.8	22.7	61.5
10	40.5	54.1	52.8	54.5	83.0	55.4	35.1	* 35.3	24.3	24.1	22.3	19.9
11	39.9	54.8	54.7	55.5	85.7	55.0	34.0	35.6	24.7	22.2	22.1	20.8
12	56.9	55.0	55.1	55.2	85.9	35.6	* 37.1	35.1	24.1	23.2	21.7	20.3
13	66.9	55.1	55.6	* 55.0	88.0	35.9	36.9	35.2	* 25.6	23.3	22.6	21.3
14	39.4	53.7	54.8	53.7	89.0	35.7	36.8	35.0	24.7	22.5	21.7	20.2
15	38.5	* 55.0	58.2	54.3	86.9	34.2	36.4	35.2	26.8	23.1	* 22.0	20.7
16	63.7	54.8	53.9	55.5	87.1	36.0	36.4	33.3	27.5	23.2	* 22.0	20.0
17	71.0	* 54.8	56.0	55.9	77.0	38.6	34.7	34.3	25.6	22.9	23.1	20.5
18	* 27.7	54.9	54.4	55.5	55.7	34.9	36.8	35.7	25.7	* 22.6	21.8	19.7
19	39.6	55.4	51.8	* 55.1	55.4	38.0	32.9	34.2	26.1	* 22.6	21.7	20.5
20	* 38.9	55.0	58.8	56.2	55.2	37.7	35.6	35.4	25.6	23.8	21.6	* 19.8
21	39.6	55.4	54.2	56.0	56.3	34.2	36.3	34.6	25.3	22.1	21.5	20.1
22	39.0	55.7	54.9	56.2	55.0	34.8	37.7	34.9	25.5	22.3	21.6	20.1
23	40.1	54.7	* 56.7	55.2	* 55.3	33.9	37.0	34.8	24.0	22.9	21.7	20.9
24	39.0	54.3	55.1	57.2	57.3	59.2	37.0	36.7	23.5	24.1	22.1	20.4
25	39.3	56.5	50.6	55.1	54.4	59.8	36.3	36.1	23.1	22.3	21.9	20.0
26	39.1	55.1	51.5	58.6	54.6	* 57.8	36.6	36.1	23.0	24.6	21.6	20.2
27	39.9	55.2	52.6	54.5	55.1	59.0	* 36.8	36.0	22.1	23.8	22.8	20.7
28	39.9	54.6	54.2	54.9	58.0	56.0	35.8	28.4	* 23.3	22.8	23.0	19.0
29	36.2		56.1	54.0	55.3	56.8	36.5	23.3	23.4	21.6	22.5	20.7
30	41.2		54.1	86.1	52.8	57.2	35.5	22.9	22.5	23.5	55.4	20.5
31	39.0		57.5		* 53.5		33.4	22.9		22.9		20.2
Sum	1,509.8		1,683.9		1,393.6		1,051.5		711.4		964.9	
	1,201.1	1,691.7		2,253.7		1,130.7		732.2		702.0		

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High Day	Low Day	Average	Volume-Thousand Cubic Meters Total	Period 1968-2006: Average	Maximum	Minimum
Jan.	0.780	0.110	12	135	!28	2.75	38.7	103,775	102,964	258,803	6,560
Feb.	.730	.130	27	118	! 2	4.06	53.9	130,447	134,800	576,288	15,378
Mar.	.740	.110	29	121	! 6	2.66	54.6	146,163	166,941	530,496	8,969
April	.730	.105	!10	119	! 8	2.47	56.1	145,489	186,893	511,229	34,007
May	.875	.115	9	168	!18	3.08	72.7	194,720	258,514	665,712	29,773
June	.750	.110	27	125	! 7	2.75	46.5	120,407	188,473	495,331	20,251
July	.740	.100	1	122	26	2.29	36.5	97,692	156,215	452,036	28,595
Aug.	.720	.110	23	116	! 1	2.71	33.9	90,850	170,627	816,834	19,229
Sept.	.515	.105	!16	60.8	28	2.44	24.4	63,262	193,244	1,578,960	14,565
Oct.	.515	.105	!10	60.8	20	2.44	22.9	61,465	175,159	1,002,326	4,606
Nov.	.690	.105	30	107	! 9	2.44	23.4	60,653	105,682	619,574	5,599
Dec.	.715	.100	6	114	13	2.62	31.1	83,367	93,954	266,786	5,994
Yearly	0.875	0.100		168		2.29	41.2	1,298,290	1,933,466	4,398,694	440,239

* Discharge measurement(s) made on this day ! And other days

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

08-4509.04 SPRING M-15 NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Rectangular sharp-crested weir of 0.23 CMS capacity and staff gage located at latitude 29 25'20", longitude 101 02'40", about 0.4 kilometer upstream from its confluence with the Rio Grande and about 15.1 kilometers northwest of Cd. Acuna, Coahuila. This creek enters the Rio Grande from Mexico at river kilometer 919, 16.5 river kilometers upstream from the international highway bridge between Del Rio, Texas, and Cd. Acuna, Coahuila. The zero of the gage is 281.98 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: 1969 through 2006.

REMARKS: This spring emerged since operation of Amistad Dam began in May 1968. All storm water from surface runoff passing this station is deducted and is not included in the tabulation below.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.03	0.01
2	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
3	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
4	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
5	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
6	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
7	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
8	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
9	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01
10	.02	.02	.02	.01	.01	.01	.01	.01	.02	.01	.02	.01
11	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.01
12	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.01
13	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02
14	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02
15	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02
16	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02
17	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02
18	.02	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02
19	.02	.02	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02
20	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02	.02
21	.02	.02	.01	.01	.01	.01	.01	.02	.01	.02	.02	.02
22	.02	.02	.01	.01	.01	.01	.01	.02	.01	.02	.02	.02
23	.02	.02	.01	.01	.01	.01	.01	.02	.01	.02	.02	.02
24	.02	.02	.01	.01	.01	.01	.01	.02	.01	.02	.02	.02
25	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.02	.02
26	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.02	.02
27	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.02	.03
28	.02	.02	.01	.01	.01	.01	.01	.02	.01	.03	.01	.03
29	.02		.01	.01	.01	.01	.01	.02	.01	.03	.01	.03
30	.02		.01	.01	.01	.01	.01	.02	.01	.03	.01	.03
31	.02		.01		.01		.01	.02		.03		.03
Sum	0.62	0.56	0.49	0.30	0.31	0.30	0.31	0.43	0.50	0.59	0.66	0.55

	Current Year 2006						Period 1969-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.070	0.065	! 1	0.02	! 1	0.02	0.02	53.6	70.3	162	0
Feb.	.065	.055	! 1	.02	! 1	.02	.02	48.4	64.1	152	0
Mar.	.055	.040	! 1	.02	!21	.01	.02	42.3	62.6	150	0
April	.040	.035	! 1	.01	! 1	.01	.01	25.9	58.5	130	0
May	.045	.035	! 1	.01	! 1	.01	.01	26.8	61.3	139	0
June	.050	.040	! 1	.01	! 1	.01	.01	25.9	53.5	149	0
July	.040	.035	! 1	.01	! 1	.01	.01	26.8	53.3	131	0
Aug.	.070	.035	!20	.02	! 1	.01	.01	37.2	54.4	150	0
Sept.	.075	.040	! 1	.02	!21	.01	.02	43.2	58.2	204	0
Oct.	.045	.030	!25	.03	! 1	.01	.02	51.0	68.6	402	0
Nov.	.055	.045	! 1	.03	!28	.01	.02	57.0	66.4	249	0
Dec.	.055	.055	!27	.03	! 1	.01	.02	47.5	66.1	162	0
Yearly	0.075	0.030		0.03		0.01	0.02	486	737	1,680	13.0

@ Mean daily ! And other days

08-4509.05 ARROYO DE LOS JABONCILLOS NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Cipolletti weir of 2.00 CMS capacity and staff gage located at latitude 29 24'25", longitude 101 02'20", about 200 meters upstream from its confluence with the Rio Grande, and about 13.8 kilometers northwest of Cd. Acuna, Coahuila. This creek enters the Rio Grande from Mexico at river kilometer 918, 15.3 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The elevation of the zero of the gage has not been determined.

RECORDS: Based on periodic staff gage readings during the year. Mean daily discharge determined by prorating between readings. Records available: 1969 through 2006.

REMARKS: At least 70 separate springs have emerged along this creek since operation of Amistad Dam began in May 1968. Prior to this time, flow in this creek was exclusively from storm runoff. All storm water from surface runoff passing this station is deducted and is not included in the tabulation below.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.35	1.35	1.35	1.24	1.24	1.15	1.16	1.05	1.10	1.16	1.22	1.28
2	1.35	1.35	1.34	1.24	1.24	1.15	1.16	1.05	1.10	1.16	1.22	1.28
3	1.35	1.35	1.34	1.24	1.24	1.14	1.16	1.06	1.11	1.16	1.23	1.29
4	1.35	1.35	1.33	1.24	1.24	1.14	1.16	1.06	1.12	1.16	1.23	1.29
5	1.35	1.35	1.33	1.24	1.24	1.13	1.16	1.07	1.12	1.16	1.23	1.29
6	1.35	1.35	1.32	1.24	1.24	1.13	1.15	1.07	1.13	1.16	1.23	1.29
7	1.35	1.35	1.32	1.23	1.24	1.12	1.15	1.08	1.13	1.16	1.24	1.29
8	1.35	1.35	1.31	1.23	1.24	1.12	1.14	1.08	1.14	1.16	1.24	1.30
9	1.35	1.35	1.31	1.23	1.24	1.12	1.14	1.09	1.14	1.16	1.24	1.30
10	1.35	1.35	1.30	1.23	1.24	1.12	1.13	1.09	1.15	1.16	1.24	1.30
11	1.35	1.35	1.30	1.22	1.24	1.12	1.13	1.09	1.15	1.16	1.24	1.31
12	1.35	1.35	1.29	1.22	1.23	1.12	1.12	1.09	1.16	1.16	1.24	1.31
13	1.35	1.35	1.29	1.22	1.23	1.12	1.11	1.09	1.16	1.16	1.24	1.31
14	1.35	1.35	1.28	1.22	* 1.23	1.12	1.11	1.09	* 1.16	1.18	1.24	1.31
15	1.35	1.35	1.28	1.22	1.23	1.12	1.10	1.09	1.16	1.20	1.24	1.31
16	1.35	1.35	1.27	1.22	1.22	1.12	1.09	1.09	1.16	1.20	1.25	1.31
17	1.35	1.35	1.27	1.22	1.22	1.12	1.08	1.09	1.16	1.20	1.25	1.31
18	1.35	1.35	1.26	1.22	1.22	1.12	1.08	1.09	1.16	1.20	1.26	1.31
19	1.35	1.35	1.26	1.22	1.21	1.12	1.07	1.09	1.16	1.20	1.26	1.31
20	1.35	1.35	1.25	1.22	1.21	1.12	1.07	1.09	1.16	1.20	1.27	1.31
21	1.35	1.35	1.25	1.23	1.21	1.12	1.07	1.09	1.16	1.20	1.27	1.31
22	1.35	1.35	1.24	1.23	1.21	1.13	1.07	1.09	1.16	1.20	* 1.28	1.31
23	1.35	1.35	1.24	1.23	1.20	1.13	1.07	1.09	1.16	1.20	1.28	1.31
24	1.35	1.35	1.24	1.24	1.20	1.14	1.07	1.09	1.16	1.20	1.28	1.31
25	* 1.35	1.35	1.24	1.24	1.19	1.14	1.07	1.07	1.16	* 1.20	1.28	1.31
26	1.35	1.35	1.24	1.24	1.19	1.15	1.07	1.07	1.16	1.20	1.28	1.31
27	1.35	1.35	1.24	1.24	1.18	1.15	1.07	1.07	1.16	1.21	1.28	1.31
28	1.35	1.35	1.24	1.24	1.18	1.16	1.06	1.09	1.16	1.21	1.28	1.31
29	1.35		1.24	1.24	1.17	1.16	1.06	1.09	1.16	1.21	1.28	1.31
30	1.35		1.24	1.24	1.17	1.16	1.06	1.09	1.16	1.21	1.28	1.31
31	1.35		1.25		1.16		1.06	1.09		1.22		1.31
Sum	41.85	37.80	39.66	36.93	37.70	33.96	34.20	33.53	34.43	36.72	37.60	40.42

	Current Year 2006						Period 1969-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	0.510	0.505	! 1	1.35	3	1.33	1.35	3,616	3,495	5,822	431
Feb.	.510	.500	! 1	1.35	17	1.31	1.35	3,266	3,181	5,189	470
Mar.	.510	.480	1	1.35	!22	1.24	1.28	3,427	3,453	5,642	649
April	.480	.475	! 1	1.24	!12	1.22	1.23	3,191	3,227	5,359	785
May	.480	.460	! 1	1.24	!29	1.16	1.22	3,257	3,207	5,600	792
June	.460	.450	!28	1.16	7	1.12	1.13	2,934	2,966	5,021	715
July	.460	.430	! 1	1.16	!28	1.06	1.10	2,955	2,973	5,387	631
Aug.	.440	.430	! 9	1.09	! 1	1.05	1.08	2,897	2,949	5,330	625
Sept.	.460	.445	!12	1.16	! 1	1.10	1.15	2,975	3,037	5,448	600
Oct.	.475	.465	31	1.22	! 1	1.16	1.18	3,173	3,355	6,428	684
Nov.	.490	.475	!22	1.28	! 1	1.22	1.25	3,249	3,384	5,979	685
Dec.	.500	.490	!11	1.31	! 1	1.28	1.30	3,492	3,534	5,808	749
Yearly	0.510	0.430		1.35		1.05	1.22	38,432	38,761	63,943	9,381

* Discharge measurement(s) made on this day ! And other days

08-4509.06 SPRING M-5 NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Rectangular sharp-crested weir of 0.50 CMS capacity and staff gage located at latitude 29 25'20", longitude 101 02'35", at the base of the high bank of the Rio Grande, and about 14.8 kilometers northwest of Cd. Acuna, Coahuila. This creek enters the Rio Grande from Mexico at river kilometer 919, 16.2 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 284.19 meters above mean sea level U. S. C. & G. S. datum.

RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: 1969 through 2006.

REMARKS: This spring emerged since operation of Amistad Dam began in May 1968. All storm water from surface runoff passing this station is deducted and is not included in the tabulation below.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.04	0.05	0.04	0.05	0.04
2	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
3	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
4	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
5	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
6	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
7	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
8	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
9	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
10	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
11	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
12	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
13	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
14	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
15	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
16	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
17	.05	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04
18	.05	.05	.05	.05	.04	.05	.05	.04	.05	.05	.05	.04
19	.05	.05	.05	.05	.04	.05	.05	.04	.05	.05	.04	.04
20	.05	.05	.05	.04	.04	.05	.04	.05	.05	.05	.04	.04
21	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
22	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
23	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
24	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
25	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
26	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
27	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
28	.05	.05	.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
29	.05		.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
30	.05		.05	.04	.05	.05	.04	.05	.04	.05	.04	.03
31	.05		.05		.05		.04	.05		.05		.03
Sum	1.40	1.55	1.39	1.55	1.35	1.50	1.43	1.36	1.40	1.38	1.38	1.13

	Current Year 2006						Period 1969-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.085	0.085	! 1	0.05	! 1	0.05	0.05	134	164	241	80.4
Feb.	.090	.085	! 1	.05	! 1	.05	.05	121	149	213	72.6
Mar.	.090	.085	! 1	.05	! 1	.05	.05	134	160	227	80.1
April	.085	.085	! 1	.05	!20	.04	.05	120	155	220	66.5
May	.085	.085	!21	.05	! 1	.04	.04	117	159	229	64.8
June	.085	.085	! 1	.05	! 1	.05	.05	130	150	223	51.8
July	.085	.080	! 1	.05	!20	.04	.05	124	151	213	54.0
Aug.	.085	.080	!20	.05	! 1	.04	.04	118	153	241	53.6
Sept.	.085	.085	! 1	.05	!21	.04	.05	121	151	233	52.1
Oct.	.085	.080	!18	.05	! 1	.04	.04	119	158	241	53.6
Nov.	.085	.085	! 1	.05	!19	.04	.05	119	154	233	51.8
Dec.	.085	.085	! 1	.04	!21	.03	.04	97.6	161	241	76.9
Yearly	0.090	0.080		0.05		0.03	0.05	1,455	1,865	2,650	813

@ Mean daily ! And other days

08-4509.10 ARROYO DEL BUEY NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Cipolletti weir of 1.00 CMS capacity, located at latitude 29 24'20", longitude 101 02'25", 0.3 kilometer upstream from its confluence with the Rio Grande, and about 13.7 kilometers northwest of Cd. Acuna, Coahuila. This creek enters the Rio Grande from Mexico at river kilometer 918, 5.6 river kilometers downstream from Amistad Dam and 15.1 kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The elevation of the zero of the gage has not been determined.

RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: November 1961 through 2006.

REMARKS: The flow of this stream is not modified by diversions or storage. Prior to 1969 discharges were based on a continuous record of gage heights and the weir discharge table. Storm flow is deducted and not included in the tabulation below. This station was established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir will have on the flow of this stream. At approximately 0.5 creek kilometer upstream from the weir, four springs have emerged since Amistad Reservoir storage began. Backwater from the Rio Grande will affect the flow of this stream when the flow in the river is approximately 566 CMS.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.17	0.18	0.17
2	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
3	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
4	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
5	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
6	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
7	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
8	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
9	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
10	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
11	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
12	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
13	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
14	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
15	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
16	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
17	.18	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17
18	.18	.18	.18	.18	.18	.18	.17	.18	.18	.18	.18	.17
19	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.17	.17
20	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.17	.17
21	.18	.18	.18	.18	.18	.18	.18	.18	.17	.18	.17	.16
22	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
23	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
24	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
25	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
26	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
27	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
28	.18	.18	.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
29	.18		.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
30	.18		.18	.18	.18	.17	.18	.18	.17	.18	.17	.16
31	.18		.18		.18		.18	.18		.18		.16
Sum	5.04	5.58	5.40	5.58	5.31	5.40	5.58	5.58	5.30	5.41	5.28	5.16

	Current Year 2006							Period 1961-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.210	0.210	! 1	0.18	! 1	0.18	0.18	482	445	651	8.4
Feb.	.210	.210	! 1	.18	! 1	.18	.18	435	408	624	6.7
Mar.	.215	.210	! 1	.18	! 1	.18	.18	482	444	725	11.5
April	.215	.215	! 1	.18	! 1	.18	.18	467	456	937	7.8
May	.215	.215	! 1	.18	! 1	.18	.18	482	485	1,092	13.4
June	.215	.205	! 1	.18	!22	.17	.18	459	439	664	7.8
July	.210	.205	!19	.18	! 1	.17	.17	467	432	657	8.0
Aug.	.210	.210	! 1	.18	! 1	.18	.18	482	450	653	8.3
Sept.	.210	.205	! 1	.18	!21	.17	.18	458	458	648	8.1
Oct.	.210	.205	!18	.18	! 1	.17	.17	467	480	671	8.0
Nov.	.210	.200	! 1	.18	!19	.17	.18	456	445	638	7.8
Dec.	.210	.200	! 1	.17	!21	.16	.17	446	449	664	8.0
Yearly	0.215	0.200		0.18		0.16	0.18	5,583	5,391	7,674	268

@ Mean daily ! And other days

08-4511.20 MARIS SPRING NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Cipolletti weir of 3.00 CMS capacity and staff gage located at the spring about 30 meters from the right bank of the Rio Grande at latitude 29 24'00", longitude 101 01'55", and about 12.9 kilometers northwest of Cd. Acuna, Coahuila. This spring enters the Rio Grande from Mexico at river kilometer 917, 14.3 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila and 6.4 river kilometers downstream from Amistad Dam. The elevation of the zero of the gage has not been determined.

RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: November 14, 1961 through February 1984 and September 1985 through 2006.

REMARKS: The flow of this spring is very uniform during periods of dry weather and is not modified by diversions or storage. This station was established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir may have on the flow of this spring. All storm water from surface runoff passing this station is deducted and is not included in the tabulation below. Prior to May 1969 the weir had a 0.32 CMS capacity. Beginning March 1, 1984, discharge computations were temporarily discontinued due to leakage under the weir. Discharge computations were resumed on August 14, 1985.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.32	0.31	0.29	0.30	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.29
2	.32	.31	.29	.29	.28	.28	.28	.28	.28	.28	.28	.29
3	.32	.31	.29	.29	.28	.28	.28	.28	.28	.28	.28	.28
4	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
5	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
6	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
7	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
8	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
9	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
10	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
11	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
12	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
13	.32	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
14	.32	.31	.29	.28	.28 *	.28	.28	.28	.28	.28	.28	.28
15	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
16	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
17	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
18	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
19	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
20	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
21	.31	.31	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
22	.31	.31	.30	.28	.28	.28	.28	.28	.28	.28	.28	.28
23	.31	.31	.30	.28	.28	.28	.28	.28	.28	.28	.28	.28
24	.31	.30	.30	.28	.28	.28	.28	.28	.28	.28	.28	.28
25	.31	.30	.30	.28	.28	.28	.28	.28	.28 *	.28	.28	.28
26	.31	.30	.31	.28	.28	.28	.28	.28	.28	.28	.28	.28
27	.31	.30	.31	.28	.28	.28	.28	.28	.28	.28	.28	.28
28	.31	.29	.31	.28	.28	.28	.28	.28	.28	.28	.28	.28
29	.31		.31	.28	.28	.28	.28	.28	.28	.28	.29	.28
30	.31		.31	.28	.28	.28	.28	.28	.28	.28	.29	.28
31	.31		.30		.28		.28	.28		.28		.28
Sum	9.75	8.62	9.14	8.44	8.68	8.40	8.68	8.68	8.40	8.68	8.42	8.70

	Current Year 2006						Period 1961-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	Day	@ High	Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.150	0.140	! 1	0.32	18	0.31	0.31	842	699	1,152	5.4
Feb.	.140	.130	! 1	.31	28	.29	.31	745	626	1,136	5.0
Mar.	.140	.130	!29	.31	! 1	.29	.29	790	688	1,179	7.0
April	.135	.115	1	.30	!27	.28	.28	729	686	1,217	10.4
May	.120	.115	2	.28	! 1	.28	.28	750	738	1,624	10.7
June	.120	.110	! 1	.28	! 7	.27	.28	726	714	1,719	7.4
July	.120	.115	1	.28	! 1	.28	.28	750	735	1,693	9.8
Aug.	.120	.115	! 1	.28	!30	.28	.28	750	747	1,524	7.6
Sept.	.120	.115	! 6	.28	! 1	.28	.28	726	757	1,434	13.3
Oct.	.125	.120	!18	.28	! 1	.28	.28	750	821	1,752	13.4
Nov.	.130	.120	!29	.30	! 1	.28	.28	727	769	1,650	12.7
Dec.	.130	.120	! 1	.29	! 3	.28	.28	752	728	1,464	10.7
Yearly	0.150	0.110		0.32		0.27	0.29	9,037	8,708	16,058	74.3

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4511.30 EIGHT MILE CREEK NEAR DEL RIO, TEXAS

DESCRIPTION: Concrete wall with 90 V-notch weir of 0.20 CMS capacity at latitude 29 24'00", longitude 101 00'55", 1.3 creek kilometers upstream from its confluence with the Rio Grande, and about 12.9 kilometers northwest of Del Rio, Val Verde County, Texas. This stream enters the Rio Grande from the United States at river kilometer 916, 7.4 river kilometers downstream from Amistad Dam and 13.4 kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The elevation of the zero of the gage is 278.58 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 12 current-meter measurements or observations of no flow during the year. Mean daily discharges determined by prorating between measurements. Records available: March 1961 through 2006.

REMARKS: The source of flow of this stream is from surface runoff during rainy periods and the subsequent flow from underground seepage as a result of such rains. All storm water from surface runoff passing this station is deducted and is not included in the tabulation below. This station was established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir may have on the flow of this stream. Bubbler gage and water-stage recorder were removed April 1, 1985.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second				
Daily:	Max.	0.45	July 23 & 24, 1976	Min.	0	Occasionally
Monthly:	Max.	0.18	July 1976	Min.	0	Occasionally
Yearly:	Max.	0.11	1974 & 1975	Min.	0	Several years

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.06	0.04	0.04	0.08	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	.06	.03	.04	.08	.03	.02	.02	* .02	.02	.02	* .02	.02
3	.06	.03	.04	* .08	.03	.02	.02	.02	.02	.02	.02	.02
4	.06	.03	.04	.08	* .03	.02	.02	.02	.02	.02	.02	.02
5	.06	.03	.04	.08	.03	.02	.02	.02	.02	* .02	.02	.02
6	.06	* .03	* .04	.08	.03	* .02	.02	.02	.02	.02	.02	* .02
7	.05	.03	.04	.07	.03	.02	.02	.02	.02	.02	.02	.02
8	.05	.03	.04	.07	.03	.02	.02	.02	* .02	.02	.02	.02
9	* .05	.03	.04	.07	.03	.02	.02	.02	.02	.02	.02	.02
10	.05	.03	.05	.07	.03	.02	.02	.02	.02	.02	.02	.02
11	.05	.03	.05	.07	.03	.02	.02	.02	.02	.02	.02	.02
12	.05	.03	.05	.07	.03	.02	* .02	.02	.02	.02	.02	.02
13	.05	.03	.05	.06	.03	.02	.02	.02	.02	.02	.02	.02
14	.05	.03	.05	.06	.03	.02	.02	.02	.02	.02	.02	.02
15	.05	.03	.05	.06	.03	.02	.02	.02	.02	.02	.02	.02
16	.05	.03	.05	.06	.03	.02	.02	.02	.02	.02	.02	.02
17	.05	.03	.06	.06	.03	.02	.02	.02	.02	.02	.02	.02
18	.05	.03	.06	.06	.03	.02	.02	.02	.02	.02	.02	.02
19	.05	.03	.06	.05	.03	.02	.02	.02	.02	.02	.02	.02
20	.04	.03	.06	.05	.02	.02	.02	.02	.02	.02	.02	.02
21	.04	.03	.06	.05	.02	.02	.02	.02	.02	.02	.02	.02
22	.04	.03	.06	.05	.02	.02	.02	.02	.02	.02	.02	.03
23	.04	.03	.06	.05	.02	.02	.02	.02	.02	.02	.02	.03
24	.04	.03	.07	.05	.02	.02	.02	.02	.02	.02	.02	.03
25	.04	.03	.07	.04	.02	.02	.02	.02	.02	.02	.02	.03
26	.04	.03	.07	.04	.02	.02	.02	.02	.02	.02	.02	.03
27	.04	.04	.07	.04	.02	.02	.02	.02	.02	.02	.02	.03
28	.04	.04	.07	.04	.02	.02	.02	.02	.02	.02	.02	.03
29	.04		.07	.04	.02	.02	.02	.02	.02	.02	.02	.03
30	.04		.07	.04	.02	.02	.02	.02	.02	.02	.02	.03
31	.04		.08		.02		.02	.02		.02		.03
Sum	1.49	0.87	1.70	1.80	0.81	0.60	0.62	0.62	0.60	0.62	0.60	0.72

	Current Year 2006						Period 1961-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.			! 1 0.06	!20 0.04	0.05	129	114	363	0
Feb.			! 1 .04	! 2 .03	.03	75.2	106	396	0
Mar.			31 .08	! 1 .04	.05	147	112	386	0
April			! 1 .08	!25 .04	.06	156	104	313	0
May			! 1 .03	!20 .02	.03	70.0	103	412	0
June			! 1 .02	! 1 .02	.02	51.8	88.0	264	0
July			! 1 .02	! 1 .02	.02	53.6	88.0	481	0
Aug.			! 1 .02	! 1 .02	.02	53.6	86.2	369	0
Sept.			! 1 .02	! 1 .02	.02	51.8	85.6	296	0
Oct.			! 1 .02	! 1 .02	.02	53.6	97.0	412	0
Nov.			! 1 .02	! 1 .02	.02	51.8	100	396	0
Dec.			! 1 .03	! 1 .02	.02	62.2	107	349	0
Yearly			.08	0.02	0.03	956	1,191	3,567	0

* Discharge measurement(s) made on this day ! And other days

08-4511.40 MCKEE SPRING NEAR DEL RIO, TEXAS

DESCRIPTION: This spring is located on the left floodplain of the Rio Grande at latitude 29 23'35", longitude 101 01'15", about 46 meters from the edge of the low-flow channel and about 12.9 kilometers northwest of Del Rio, Texas. Water from this spring enters the Rio Grande from the United States at river kilometer 916, 7.7 river kilometers downstream from Amistad Dam.

RECORDS: Based on 12 current-meter measurements during the year. Mean daily discharges determined by prorating between measurements. Records available: November 1961 through 2006.

REMARKS: The flow of this spring is uniform during periods of dry weather and is modified by periodic residential pumping. It is estimated that backwater from the Rio Grande will reach the emergence of this spring when the river flow is approximately 396 CMS. This station was established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir may have on the flow of this spring.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second					
Daily:	Max.	0.31	Feb. 16, 1983	Min.	0	Occasionally	
Monthly:	Max.	0.26	Feb. 1983	Min.	0	Occasionally	
Yearly	Max.	0.22	1979	Min.	0		1963

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.15	0.14	0.12	0.10	0.15	0.12	0.13	0.13	0.12	0.12	0.13	0.11
2	.15	.14	.11	.10	* .15	.12	.13	* .13	.12	.12	* .13	.11
3	.15	.14	.11	* .10	.15	.12	.13	.13	.12	.12	.13	.11
4	.15	.14	.11	.10	.15	.12	.13	.13	.12	.12	.13	.11
5	.15	.14	.11	.10	.15	.12	.13	.13	.12	* .12	.13	.11
6	.15	* .14	* .11	.11	.15	* .12	.13	.13	.12	.12	.13	* .11
7	.15	.14	.11	.11	.15	.12	.13	.13	.12	.12	.13	.11
8	* .15	.14	.11	.11	.14	.12	.13	.13	* .12	.12	.13	.11
9	.15	.14	.11	.11	.14	.12	.13	.13	.12	.12	.13	.11
10	.15	.14	.11	.11	.14	.12	.13	.13	.12	.12	.13	.11
11	.15	.13	.11	.11	.14	.12	.13	.13	.12	.12	.12	.11
12	.15	.13	.11	.12	.14	.12	* .13	.13	.12	.12	.12	.11
13	.15	.13	.11	.12	.14	.12	.13	.13	.12	.12	.12	.11
14	.15	.13	.11	.12	.14	.12	.13	.13	.12	.12	.12	.11
15	.15	.13	.11	.12	.14	.12	.13	.13	.12	.12	.12	.11
16	.15	.13	.11	.12	.14	.12	.13	.13	.12	.12	.12	.11
17	.15	.13	.11	.12	.14	.12	.13	.13	.12	.12	.12	.11
18	.15	.13	.11	.13	.14	.12	.13	.13	.12	.12	.12	.11
19	.15	.13	.11	.13	.14	.12	.13	.13	.12	.12	.12	.11
20	.15	.13	.11	.13	.13	.12	.13	.13	.12	.13	.12	.11
21	.15	.12	.10	.13	.13	.12	.13	.12	.12	.13	.12	.11
22	.15	.12	.10	.13	.13	.12	.13	.12	.12	.13	.12	.12
23	.15	.12	.10	.13	.13	.12	.13	.12	.12	.13	.12	.12
24	.14	.12	.10	.14	.13	.13	.13	.12	.12	.13	.12	.12
25	.14	.12	.10	.14	.13	.13	.13	.12	.12	.13	.12	.12
26	.14	.12	.10	.14	.13	.13	.13	.12	.12	.13	.12	.12
27	.14	.12	.10	.14	.13	.13	.13	.12	.12	.13	.12	.12
28	.14	.12	.10	.14	.13	.13	.13	.12	.12	.13	.11	.12
29	.14		.10	.14	.13	.13	.13	.12	.12	.13	.11	.12
30	.14		.10	.15	.13	.13	.13	.12	.12	.13	.11	.12
31	.14		.10		.12		.13	.12		.13		.12
Sum	4.57	3.66	3.31	3.65	4.28	3.67	4.03	3.92	3.60	3.84	3.67	3.51

	Current Year 2006						Period 1961-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.			! 1	0.15	!24	0.14	0.15	395	310	649	0
Feb.			! 1	.14	!21	.12	.13	316	289	628	0
Mar.			! 1	.12	!21	.10	.11	286	311	650	0
April			30	.15	! 1	.10	.12	315	304	604	0
May			! 1	.15	31	.12	.14	370	326	633	.7
June			!24	.13	! 1	.12	.12	317	300	580	0
July			! 1	.13	! 1	.13	.13	348	308	692	0
Aug.			! 1	.13	!21	.12	.13	339	312	622	0
Sept.			! 1	.12	! 1	.12	.12	311	301	591	0
Oct.			!20	.13	! 1	.12	.12	332	311	640	0
Nov.			! 1	.13	!28	.11	.12	317	298	636	0
Dec.			!22	.12	! 1	.11	.11	303	305	596	0
Yearly				0.15		0.10	0.13	3,949	3,675	6,978	0.7

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4511.50 ARROYO DE LA TREINTA Y UNA NEAR CD. ACUNA, COAHUILA

DESCRIPTION: Cipolletti weir of 1.00 CMS capacity, located at latitude 29 22'35", longitude 101 01'15", 966 creek meters upstream from its confluence with the Rio Grande, and about 10.5 kilometers northwest of Cd. Acuna, Coahuila. This stream enters the Rio Grande from Mexico at river kilometer 913, 10.1 river kilometers downstream from Amistad Dam and 10.6 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The elevation of the zero of the gage has not been determined.

RECORDS: Based on periodic staff gage readings and the weir discharge table. Mean daily discharges determined by prorating between readings. Records available: November 1961 through 2006.

REMARKS: The flow of this stream is very uniform during periods of dry weather and is not modified by diversions or storage. Prior to 1969 discharges were based on a continuous record of gage heights and the weir discharge table. Storm flow is deducted and not included in the tabulation below. This station was established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir may have on the flow of this stream. It is estimated that backwater from the Rio Grande will affect the flow at this station only during times of extremely high release.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.06
2	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
3	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
4	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
5	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
6	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
7	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
8	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
9	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
10	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
11	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
12	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
13	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
14	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
15	.07	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
16	.07	.07	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
17	.07	.07	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06
18	.07	.07	.07	.07	.07	.07	.07	.07	.06	.07	.07	.06
19	.08	.07	.07	.07	.07	.07	.07	.07	.06	.07	.06	.06
20	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
21	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
22	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
23	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
24	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
25	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
26	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
27	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
28	.08	.07	.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
29	.08		.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
30	.08		.07	.07	.07	.07	.07	.06	.06	.07	.06	.07
31	.08		.07		.07		.07	.06		.07		.07
Sum	2.11	2.30	2.10	2.17	2.10	2.17	2.05	2.17	2.00	1.80	1.98	1.98

	Current Year 2006						Period 1961-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0.120	0.110	!19	0.08	! 1	0.07	0.07	199	196	348	18.7
Feb.	.120	.115	! 1	.08	!16	.07	.08	182	180	317	17.1
Mar.	.115	.110	! 1	.07	! 1	.07	.07	187	198	403	17.5
April	.110	.110	! 1	.07	! 1	.07	.07	181	203	373	13.0
May	.115	.110	! 1	.07	! 1	.07	.07	187	200	323	7.3
June	.115	.110	! 1	.07	! 1	.07	.07	181	191	313	5.2
July	.110	.110	! 1	.07	! 1	.07	.07	187	185	312	0
Aug.	.110	.105	! 1	.07	!20	.06	.07	177	190	398	0
Sept.	.105	.100	! 1	.06	! 1	.06	.06	156	198	337	16.2
Oct.	.110	.100	!18	.07	! 1	.06	.06	173	211	348	14.9
Nov.	.110	.105	! 1	.07	!19	.06	.07	171	200	382	17.5
Dec.	.110	.105	!20	.07	! 1	.06	.06	171	203	382	18.7
Yearly	0.120	0.100		0.08		0.06	0.07	2,152	2,355	4,026	308

@ Mean daily ! And other days

08-4513.00 CANTU SPRING NEAR DEL RIO, TEXAS

DESCRIPTION: Concrete enclosure located at the spring source in the channel of a small tributary to Cienegas Creek at latitude 29 23'15", longitude 100 56'00", about 4.0 kilometers northwest of Del Rio, Texas and 5.6 creek kilometers upstream from the confluence of Cienegas Creek with the Rio Grande. Cienegas Creek enters the Rio Grande at river kilometer 906, 3.0 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila.

RECORDS: Based on 12 current-meter measurements during the year. Mean daily discharges determined by prorating between measurements. Records available: March 1961 through 2006.

REMARKS: The flow of this spring is very uniform and is not modified by diversions or storage. A weir was installed on May 24, 1961 and removed November 21, 1962. This station was established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir may have on the flow of this spring.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second				
Daily:	Max.	0.37	March 2, 1989	Min.	0	Occasionally
Monthly:	Max.	0.34	March 1989	Min.	0	Occasionally
Yearly:	Max.	0.24	1989	Min.	0	1963

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.33	0.29	0.24	0.25	0.25	0.25	0.23	0.23	0.24	0.29	0.21	0.20
2	.33	.29	.24	.25	* .25	.25	.23	* .23	.24	.29	* .20	.20
3	.33	.29	.24	* .25	.25	.25	.23	.23	.24	.30	.20	.20
4	.34	.28	.23	.25	.25	.25	.23	.23	.24	.30	.20	.20
5	.34	.28	.23	.25	.25	.25	.23	.23	.24	* .30	.20	.20
6	.34	* .28	* .23	.25	.25	* .25	.23	.23	.24	.30	.20	* .20
7	.34	.28	.23	.25	.25	.25	.22	.23	.24	.29	.20	.20
8	.34	.28	.23	.25	.25	.25	.22	.23	* .24	.29	.20	.20
9	* .34	.27	.23	.25	.25	.25	.22	.23	.24	.29	.20	.20
10	.34	.27	.23	.25	.25	.25	.22	.23	.24	.28	.20	.20
11	.34	.27	.23	.25	.25	.25	.22	.23	.25	.28	.20	.21
12	.33	.27	.23	.25	.25	.25	* .22	.23	.25	.27	.20	.21
13	.33	.27	.24	.25	.25	.24	.22	.23	.25	.27	.20	.21
14	.33	.27	.24	.25	.25	.24	.22	.23	.25	.27	.20	.21
15	.33	.26	.24	.25	.25	.24	.22	.23	.26	.26	.20	.21
16	.32	.26	.24	.25	.25	.24	.22	.23	.26	.26	.20	.21
17	.32	.26	.24	.25	.25	.24	.22	.23	.26	.26	.20	.21
18	.32	.26	.24	.25	.25	.24	.22	.23	.26	.25	.20	.21
19	.32	.26	.24	.25	.25	.24	.22	.23	.26	.25	.20	.21
20	.32	.26	.24	.25	.25	.24	.22	.23	.27	.25	.20	.21
21	.31	.25	.24	.25	.25	.24	.22	.24	.27	.24	.20	.22
22	.31	.25	.24	.25	.25	.24	.22	.24	.27	.24	.20	.22
23	.31	.25	.24	.25	.25	.24	.23	.24	.27	.24	.20	.22
24	.31	.25	.24	.25	.25	.24	.23	.24	.28	.23	.20	.22
25	.31	.25	.24	.25	.25	.23	.23	.24	.28	.23	.20	.22
26	.30	.24	.24	.25	.25	.23	.23	.24	.28	.22	.20	.22
27	.30	.24	.25	.25	.25	.23	.23	.24	.28	.22	.20	.22
28	.30	.24	.25	.25	.25	.23	.23	.24	.28	.22	.20	.22
29	.30		.25	.25	.25	.23	.23	.24	.29	.21	.20	.22
30	.29		.25	.25	.25	.23	.23	.24	.29	.21	.20	.22
31	.29		.25		.25		.23	.24		.21		.23
Sum	9.96	7.42	7.40	7.50	7.75	7.26	6.97	7.24	7.76	8.02	6.01	6.53

	Current Year 2006						Period 1961-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.			! 4	0.34	!30	0.29	0.32	861	441	861	0
Feb.			! 1	.29	!26	.24	.27	641	396	749	0
Mar.			!27	.25	! 4	.23	.24	639	431	907	0
April			! 1	.25	! 1	.25	.25	648	407	780	0
May			! 1	.25	! 1	.25	.25	670	416	765	0
June			! 1	.25	!25	.23	.24	627	389	682	0
July			! 1	.23	! 7	.22	.22	602	398	772	0
Aug.			!21	.24	! 1	.23	.23	626	402	792	0
Sept.			!29	.29	! 1	.24	.26	670	404	722	0
Oct.			! 3	.30	!29	.21	.26	693	441	784	0
Nov.			1	.21	! 2	.20	.20	519	420	768	0
Dec.			31	.23	! 1	.20	.21	564	433	856	0
Yearly				0.34		0.20	0.25	7,760	4,978	8,778	0

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4515.00 CIENEGAS CREEK NEAR DEL RIO, TEXAS

DESCRIPTION: Measurement sections, one each, located on Cienegas Creek at latitude 29 21'10", longitude 100 56'35", 0.8 creek kilometer upstream from its confluence with the Rio Grande; and for the Briggs Farm ditch, latitude 29 21'40", longitude 100 56'30", 884 meters downstream from the ditch intake which branches off the right bank of Cienegas Creek immediately upstream of a small diversion dam across the creek, and about 4.0 kilometers west of Del Rio, Val Verde County Texas. The point of diversion is 2.9 creek kilometers upstream from the confluence of Cienegas Creek with the Rio Grande. Cienegas Creek enters the Rio Grande at river kilometer 906, 3.0 river kilometers upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila.

RECORDS: Based on 12 current-meter measurements at Cienegas Creek and 12 current-meter measurements at Briggs Farm ditch, respectively, during the year. Mean daily discharge computations determined by combining the two records for the total yield of the springs. Records available: March 1965 through 2006. Discharge measurement data available since November 1962. Records are also available from September 1931 through June 1935 for a station 0.5 creek kilometer downstream. The station was moved 0.3 creek kilometer upstream in June 1983.

REMARKS: Low flow of this stream is from springs, one of which is Cantu Spring, whose discharge is shown on the previous page. The flow of this stream is modified by irrigation diversions through the Briggs Farm ditch. All storm flow passing this station is deducted and is not included in the tabulation. These stations were established for investigational purposes in connection with Amistad Dam to determine what effect storage in Amistad Reservoir may have on the flow of these springs.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second					
Daily:	Max.	1.21	August 12, 1972	Min.	0.01	April 21, 1966
Monthly:	Max.	0.70	July 1976	Min.	0.02	August 1967
Yearly:	Max.	0.51	1977	Min.	0.03	1968

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.45	0.46	0.45	0.44	0.45	0.52	0.41	0.30	0.35	0.34	0.37	0.35
2	.45	.46	.45	.44	* .45	.52	.40	* .30	.36	.34	* .37	.34
3	.45	.46	.45	* .44	.45	.52	.40	.30	.36	.34	.37	.34
4	.45	.46	.45	.44	.45	.53	.40	.30	.36	.34	.37	.34
5	.45	.46	.45	.44	.46	.53	.39	.30	.36	* .34	.37	.34
6	.45	* .46	* .45	.44	.46	* .53	.39	.31	.36	.34	.37	* .34
7	.45	.46	.45	.44	.46	.53	.38	.31	.37	.34	.36	.34
8	.45	.46	.45	.44	.46	.52	.38	.31	* .37	.34	.36	.35
9	* .45	.46	.45	.44	.47	.52	.37	.31	.37	.35	.36	.35
10	.45	.46	.45	.44	.47	.51	.37	.31	.37	.35	.36	.35
11	.45	.46	.45	.45	.47	.51	.36	.32	.37	.35	.36	.35
12	.45	.46	.45	.45	.47	.50	* .36	.32	.37	.35	.36	.36
13	.45	.46	.44	.45	.48	.50	.36	.32	.36	.35	.36	.36
14	.45	.46	.44	.45	.48	.49	.35	.32	.36	.35	.36	.36
15	.45	.46	.44	.45	.48	.49	.35	.32	.36	.35	.35	.36
16	.45	.46	.44	.45	.48	.49	.34	.32	.36	.36	.35	.37
17	.45	.46	.44	.45	.48	.48	.34	.33	.36	.36	.35	.37
18	.45	.46	.44	.44	.49	.48	.35	.33	.36	.36	.35	.37
19	.45	.46	.44	.44	.49	.47	.34	.33	.36	.36	.36	.37
20	.45	.46	.44	.44	.49	.47	.34	.33	.36	.35	.36	.38
21	.45	.45	.45	.44	.49	.46	.34	.33	.36	.35	.36	.38
22	.45	.45	.45	.44	.50	.46	.33	.34	.35	.35	.36	.38
23	.45	.45	.45	.44	.50	.45	.33	.34	.35	.36	.36	.39
24	.46	.45	.45	.44	.50	.44	.32	.34	.35	.36	.35	.39
25	.46	.45	.45	.45	.50	.44	.32	.34	.35	.36	.35	.39
26	.46	.45	.45	.45	.50	.43	.32	.34	.35	.36	.35	.39
27	.46	.45	.44	.45	.51	.43	.31	.35	.35	.36	.35	.40
28	.46	.45	.44	.45	.51	.42	.32	.35	.35	.36	.35	.40
29	.46		.44	.45	.51	.42	.32	.35	.35	.36	.35	.40
30	.46		.44	.45	.51	.41	.31	.35	.35	.37	.35	.40
31	.46		.44		.52		.31	.35		.37		.41
Sum	14.03	12.80	13.82	13.33	14.94	14.47	10.91	10.07	10.76	10.92	10.75	11.42

	Current Year 2006						Period 1965-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.			!24	0.46	! 1	0.45	0.45	1,212	977	1,532	163
Feb.			! 1	.46	!21	.45	.46	1,106	898	1,512	121
Mar.			! 1	.45	!13	.44	.45	1,194	944	1,563	85.6
April			!11	.45	! 1	.44	.44	1,152	876	1,440	59.2
May			31	.52	! 1	.45	.48	1,291	880	1,430	81.7
June			! 4	.53	30	.41	.48	1,250	827	1,322	18.1
July			1	.41	!30	.31	.35	943	801	1,884	9.3
Aug.			!27	.35	! 1	.30	.32	870	797	1,531	8.0
Sept.			! 7	.37	! 1	.35	.36	930	797	1,287	16.2
Oct.			!30	.37	! 1	.34	.35	943	906	1,400	19.1
Nov.			! 1	.37	!15	.35	.36	929	901	1,378	31.1
Dec.			31	.41	! 2	.34	.37	987	946	1,441	78.6
Yearly				0.53		0.30	0.41	12,807	10,550	15,992	856

* Discharge measurement(s) made on this day @ Mean daily ! And other days

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

08-4518.00 RIO GRANDE AT DEL RIO, TEXAS AND CD. ACUNA, COAHUILA

DESCRIPTION: Cableway, bubbler gage, concrete control weir, water-stage recorders (graphic and digital), and DCP with GOES high data rate telemetry located on the left bank at latitude 29 20'07", longitude 100 55'41", and river kilometer 903, 360 meters upstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila and 20.4 river kilometers downstream from Amistad Dam. The zero of the gage is 264.93 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 35 current-meter measurements during the year, 24 by the United States Section and 11 by the Mexican Section of the Commission, and a continuous record of gage heights. Computations for high flows by shifting control methods. Low and medium flow computations based on a stable control weir rating curve defined by current-meter measurements. Records available: December 1923 through July 2, 1941 and January 1968 through 2006. Records are available from May 1900 through April 1915 for a station 19.6 kilometers upstream; from December 1919 through March 1920 for a station 14.0 kilometers upstream near McKee's Switch; from July 2, 1941 through 1954 and October 1960 through 1967 for a station 366 meters downstream at the international highway bridge; and from September 1954 through the current year for a station, Rio Grande below Amistad Dam, 17.0 kilometers upstream.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. Except for tributary inflows and small intervening diversions below Amistad Dam, flow at this station after May 31, 1968 is controlled largely by releases from Amistad Reservoir.

EXTREME FLOWS FROM RECORDS: The greatest recorded flow of 32,300 CMS occurred on June 28, 1954, with a gage height of 11.66 meters at a station 360 meters downstream. The lowest recorded flow was 3.51 CMS which occurred March 5 and 6, 1969, with a gage height of 0.38 meters.

Average Flow in Cubic Meters per Second**

Daily:	Max.	1,810	Sept. 22, 1974	Min.	4.64	Aug. 13, 1971
Monthly:	Max.	632	Sept. 1974	Min.	5.32	October 1971
Yearly:	Max.	146	1974	Min.	18.4	2004

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	26.2	40.1	57.9	60.0	90.0	56.0	59.8	40.3	24.7	25.7	26.6	69.5
2	26.4	52.6	57.6	63.5	* 90.2	56.4	46.4	* 35.2	24.6	26.3	26.0	69.7
3	26.1	55.2	58.3	60.3	91.0	55.5	37.0	39.1	24.5	26.0	26.4	67.6
4	26.1	54.8	56.8	* 60.7	88.2	55.1	37.2	* 40.0	24.7	* 25.9	25.6	69.7
5	* 26.0	54.8	57.5	59.5	90.1	54.1	37.8	39.6	27.7	26.4	26.0	68.6
6	26.1	54.7	56.9	59.1	91.9	* 55.3	33.0	39.4	26.0	26.5	27.0	* 68.6
7	25.8	* 55.4	54.2	58.5	91.9	59.3	37.7	39.9	28.4	26.4	25.2	69.2
8	33.5	54.6	* 54.7	58.9	92.7	36.0	37.5	38.4	* 26.2	26.6	* 26.2	69.4
9	44.5	56.1	54.5	57.9	98.7	* 35.5	38.0	41.5	29.2	26.5	26.4	72.6
10	40.7	* 56.5	* 54.9	59.0	82.6	51.5	38.4	37.7	25.0	26.9	26.4	26.7
11	40.4	56.6	54.9	57.9	86.0	53.2	38.2	37.6	28.9	27.8	26.0	25.1
12	51.4	56.9	55.9	58.7	88.8	40.7	* 43.7	38.4	25.5	26.8	26.1	21.7
13	72.0	58.3	58.8	57.5	89.6	39.8	39.9	37.7	29.0	27.2	26.6	23.0
14	43.6	57.7	53.8	58.1	89.3	43.3	* 40.2	38.3	25.9	27.8	26.6	24.3
15	41.3	59.1	56.9	57.6	89.5	38.5	39.6	* 37.7	28.4	28.1	26.1	25.7
16	58.8	59.3	56.9	57.8	* 87.4	40.4	39.8	35.6	29.0	28.6	27.2	22.1
17	85.4	59.6	57.1	57.8	81.7	42.4	39.9	36.5	29.5	* 26.2	* 26.3	25.6
18	* 24.6	60.3	58.2	58.1	57.5	40.8	39.9	38.1	26.3	24.8	27.0	22.8
19	45.7	60.6	57.9	* 56.1	56.1	46.6	35.1	37.3	31.1	24.3	26.2	* 26.0
20	* 40.6	60.5	57.3	58.7	56.2	* 45.9	* 39.2	39.8	31.1	23.9	27.0	22.2
21	41.6	* 61.5	57.8	58.0	55.4	36.1	38.7	34.9	* 27.6	24.2	26.6	23.5
22	40.8	60.2	* 57.9	58.1	55.4	37.3	39.2	37.4	26.1	24.9	26.6	23.4
23	41.1	60.5	59.0	57.9	57.4	39.0	38.3	40.2	29.0	25.2	26.8	25.5
24	40.5	59.3	60.6	58.9	64.3	60.0	38.9	38.9	29.6	25.6	* 26.3	21.7
25	40.7	59.5	54.2	57.5	56.9	74.5	38.0	38.6	26.2	25.3	26.5	25.0
26	40.3	58.7	55.2	60.4	57.0	64.5	45.5	38.8	23.1	25.8	26.4	21.5
27	40.6	58.8	56.5	57.6	57.5	66.2	37.2	38.7	26.0	* 24.8	26.6	25.7
28	40.7	57.7	57.8	* 57.7	58.5	53.9	39.4	29.0	24.9	25.6	26.9	* 21.4
29	35.4		57.0	56.2	57.0	61.9	39.6	25.7	28.5	23.2	26.4	24.9
30	45.2		60.7	78.8	56.5	62.1	39.9	24.9	25.8	26.5	59.7	22.0
31	40.2		61.1		52.8		40.0	24.7		25.6		25.3
Sum	1,599.9	1,776.8	1,501.8	1,139.9	805.4	1,150.0	1,252.3	1,768.8	2,318.1	1,233.0	812.5	825.7

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1968-2006: Average	Maximum	Minimum
Jan.	0.880	0.445	116	12	9.95	8	40.4	108,199	109,217	272,866	17,882
Feb.	.885	.480	122	21	13.5	6	57.1	138,231	139,669	552,852	22,983
Mar.	.890	.440	123	29	9.40	20	57.1	152,824	171,938	489,370	21,337
April	.890	.440	122	! 4	9.95	29	59.2	153,516	193,618	566,611	41,748
May	.985	.460	163	9	11.6	29	74.8	200,284	264,995	669,284	38,149
June	.935	.440	141	!25	9.62	28	50.1	129,756	192,731	512,957	28,546
July	.915	.430	132	1	8.54	3	39.8	106,531	160,811	452,566	38,823
Aug.	.895	.440	121	23	9.29	!21	36.8	98,487	178,152	827,137	35,556
Sept.	.735	.415	66.7	16	7.02	28	27.1	70,200	201,199	1,637,441	45,438
Oct.	.725	.420	64.9	10	8.12	18	26.0	69,587	183,629	1,005,540	14,281
Nov.	.905	.435	127	30	9.29	! 7	27.5	71,340	114,076	650,690	16,830
Dec.	.920	.430	134	8	8.22	13	37.1	99,360	100,759	282,187	17,168
Yearly	0.985	0.415	163		7.02		44.3	1,398,315	2,010,794	4,617,893	581,230

* Discharge measurement(s) made on this day ! And other days ** Period 1968-2006

\# Values for January 1968 are Rio Grande near Del Rio less Arroyo de las Vacas flow

08-4520.00 ARROYO DE LAS VACAS AT CD. ACUNA, COAHUILA

DESCRIPTION: Cableway, concrete wall with a V-shape concrete control weir of 10 CMS capacity, gravity well, and water-stage recorder located on the left bank at Cd. Acuna, Coahuila, latitude 29 19'45", longitude 100 57'20" and 2.9 creek kilometers upstream from its confluence with the Rio Grande. This stream enters the Rio Grande at river kilometer 903 on the upstream side of the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila and 20.7 river kilometers downstream from Amistad Dam. The zero of the gage is 270.00 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 43 current-meter measurements during the year, 38 by the Mexican Section and 5 by the U.S. Section, and a continuous record of gage heights. Computations by shifting control methods for flows exceeding the capacity of the weir. Records available: Occasional estimates from June 1935 to March 19, 1938 and a continuous record from March 20, 1938 through 2006.

REMARKS: Low flow of this stream is from springs and is modified by irrigation diversions upstream. On June 17, 1961, a flood destroyed the station, leaving the control wall under several feet of silt. The station was reconstructed in September and a V-shape concrete control weir with a capacity of 10 CMS, constructed at this station, started operating December 14, 1961. On June 28, 1954, backwater from the Rio Grande reached an elevation of 275.08 meters at this station. Records prior to 1965 were published under the title "Arroyo Las Vacas near Cd. Acuna, Coahuila."

EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,800 CMS with a gage height of 7.70 meters on June 17, 1961. Min. no flow on several occasions.

Average Flow in Cubic Meters per Second

Daily:	Max.	678	June 17, 1998	Min.	0	Frequently
Monthly:	Max.	29.8	June 1961	Min.	0.01	Occasionally
Yearly:	Max.	2.77	1961	Min.	0.08	1952

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.34	0.32	0.30	0.26	0.14	0.11	0.09	0.06	0.05	0.08	0.10	0.12
2	.34	.29	.29	.26	.14	.10	.08	.06	.08	.08	.10	.12
3	.33	.32	.29	.24	1.14	.11	.07	.06	.10	.08	.10	.12
4	.27	.28	.29	.21	6.95	.13	.07	.08	.13	.08	.11	.12
5	.26	.28	.30	.19	.30	.13	.07	.06	.77	.08	.12	.13
6	* .29	.28	.30	* .18	.21	.12	* .08	.06	.18	* .08	.11	.13
7	.28	.28	.30	.16	.18	.12	.07	.06	* .10	.08	.11	.12
8	.29	.28	.30	.16	.16	.11	.07	.06	.10	.08	.11	.14
9	.27	* .30	.32	.16	.16	.10	.07	.06	.10	.08	* .11	.14
10	.27	.30	.35	.16	.15	.10	.06	* .06	.09	.08	.11	.14
11	.30	.30	.35	.16	* .14	.10	.06	* .06	.09	.08	.11	.15
12	.30	.30	.35	.16	.14	.08	.06	.06	.08	* .08	.11	.14
13	.30	.30	.26	.16	.19	.08	.06	.06	.08	.08	.11	* .14
14	.30	.30	.22	.16	.24	.08	.08	.08	.08	.09	.11	* .15
15	.28	.30	.21	.15	.16	.07	.06	.06	.08	.11	.10	.16
16	.28	.30	.22	.16	.13	.07	.06	.06	.12	.11	.11	.16
17	.27	.28	.23	.18	.13	.07	.06	.06	.16	.09	.11	.16
18	.28	.30	.23	.14	.12	.07	.06	.06	.09	.09	.11	.16
19	.27	.30	.23	.14	.12	.07	.06	.06	.08	.09	.11	.16
20	.27	.30	.22	.18	.11	.07	.06	.06	.08	.09	.11	.17
21	.26	.30	.20	.18	.11	.06	.06	.05	.08	.09	.11	.17
22	.28	.30	.19	.14	.11	.06	.06	.06	.08	.09	.11	.17
23	.27	.28	.18	.14	.10	.06	.06	.06	.08	.09	* .11	.21
24	.28	.28	* .21	.15	.11	.07	.06	* .06	.08	.09	.11	.22
25	.30	.28	.25	.16	.09	.08	.06	.06	.08	.09	.11	.19
26	* .33	.30	.26	.16	.10	.07	.06	.06	.08	* .09	.11	.21
27	.35	* .30	.27	.15	.13	.07	.06	.07	.09	.09	.11	.19
28	.35	.30	.28	.16	.19	.07	.06	.06	.16	.09	.11	.19
29	.33		.27	.16	* .12	.08	.06	.08	.11	.09	.11	.21
30	.33		.26	.15	.11	.10	.06	.05	.09	.09	.11	.21
31	.30		.25		.10		* .06	* .04		.10		.21
Sum	9.17	8.25	8.18	5.12	12.28	2.61	2.01	1.89	3.57	2.71	3.27	5.01

	Current Year 2006						Period 1938-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	0.180	0.145	!26	0.35	4	0.21	0.30	792	524	1,420	38.9
Feb.	.180	.160	1	.35	3	.26	.29	713	615	7,339	40.6
Mar.	.180	.135	! 9	.35	23	.18	.26	707	741	3,214	72.6
April	.200	.115	20	.45	!18	.12	.17	442	1,482	20,483	93.3
May	1.020	.100	4	32.4	!23	.09	.40	1,061	1,522	11,194	111
June	.145	.080	!30	.21	!21	.06	.09	226	2,486	77,118	53.6
July	.120	.080	14	.14	!10	.06	.06	174	1,507	20,240	31.0
Aug.	.140	.065	29	.19	21	.04	.06	163	1,865	31,967	51.8
Sept.	.420	.070	5	2.79	1	.04	.12	308	2,810	61,139	45.8
Oct.	.140	.090	16	.19	2	.07	.09	234	2,298	25,218	27.6
Nov.	.115	.100	5	.12	! 1	.09	.11	283	541	3,521	25.9
Dec.	.155	.110	24	.24	1	.11	.16	433	489	1,372	26.8
Yearly	1.020	0.065		32.4		0.04	0.18	5,536	16,880	86,384	2,554

* Discharge measurement(s) made on this day ! And other days

08-4528.00 SAN FELIPE SPRINGS AT DEL RIO, TEXAS

DESCRIPTION: Two large and at least two smaller springs rise near the northeast city limits of Del Rio, Texas in or near the channel of San Felipe Creek at latitude 29 22'20" and longitude 100 53'00". The total yield of these springs consists of waters measured in the Val Verde Canal at Del Rio, Texas and in San Felipe Creek at Moore Park, Del Rio, Texas and diversions by the city of Del Rio. Diversions by the San Felipe Irrigation Company through the Val Verde Canal are measured at a gaging station consisting of a paved measuring section, gravity well and graphic water-stage recorder located on the left side of the canal under the US Highway 277 Bridge across San Felipe Creek at latitude 29 21'55" and longitude 100 53'10". The bridge is located about 1.0 creek kilometer downstream from the source of the springs and 6.3 creek kilometers upstream from the confluence of the creek with the Rio Grande. The gaging station on San Felipe Creek at Moore Park consists of gravity well and graphic water-stage recorder located on the left bank about 91 meters downstream from the US Highway 277 Bridge at latitude 29 21'50" and longitude 100 53'10". This stream enters the Rio Grande at river kilometer 902, 0.8 river kilometer downstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zeros of the gages for the two stations are, respectively, 287.30 meters and 283.70 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Records for the Val Verde Canal and San Felipe Creek at Moore Park are based on 25 and 52 current-meter measurements at each station respectively, during the year, and continuous records of gage heights at Val Verde Canal. Flows at San Felipe Creek at Moore Park are pro-rated between current-meter measurements. Computations are by shifting control methods. Records for the Del Rio Pumping Plant are furnished by the City of Del Rio Water Department. Records available: Total yield of the springs, February 1961 through 2006.

REMARKS: The flows tabulated below represent only the total yield of the springs. All storm runoff has been eliminated from the tabulations.

Average Flow in Cubic Meters per Second

Daily:	Max.	5.23	November 23, 2004	Min.	0.83	July 29, 1964
Monthly:	Max.	4.46	Nvember 2004	Min.	0.97	August 1964
Yearly:	Max.	4.22	1977	Min.	1.43	1963

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.27	4.01	4.26	3.93	4.23	3.44	3.81	* 3.93	4.43	3.54	4.20	3.83
2	4.27	4.10	4.31	3.97	* 4.26	3.36	3.81	3.94	4.51	3.58	4.12	3.86
3	* 4.20	4.05	4.24	3.99	4.22	3.33	3.84	3.77	4.64	3.70	4.01	3.91
4	4.22	4.09	4.26	* 4.05	4.18	3.42	3.85	3.63	4.83	3.84	3.95	3.85
5	4.13	4.16	4.36	4.14	4.11	3.72	3.93	3.59	4.19	* 3.93	3.95	* 3.86
6	4.16	4.16	4.36	4.23	4.17	* 3.81	* 3.90	3.64	3.91	3.86	3.92	3.81
7	4.13	* 4.20	* 4.58	4.23	4.24	3.83	3.91	3.67	* 4.04	3.87	* 3.85	3.80
8	4.14	4.17	4.63	4.24	4.35	3.89	3.86	* 3.90	3.87	3.86	3.81	3.69
9	4.13	4.22	4.54	4.41	* 4.44	3.63	3.86	4.02	3.77	3.89	3.71	3.64
10	* 4.10	4.16	4.45	4.27	4.48	3.63	3.82	4.11	3.76	* 3.90	3.63	3.66
11	4.18	4.15	4.30	4.25	4.49	3.66	* 3.77	4.15	3.62	3.98	3.59	3.62
12	4.21	4.25	4.23	* 4.29	4.41	3.70	3.92	4.23	* 3.73	4.07	3.53	* 3.76
13	4.21	4.22	4.13	4.33	4.31	* 3.65	4.01	4.26	3.73	3.83	3.50	4.11
14	4.27	* 4.30	* 4.01	4.31	4.20	3.69	3.93	4.15	3.80	3.75	* 3.64	4.32
15	4.32	4.28	3.97	4.29	4.06	3.76	3.83	* 4.00	3.75	3.83	3.82	4.32
16	4.39	4.27	4.20	4.27	* 4.02	3.67	3.86	4.00	3.76	3.87	3.91	4.34
17	* 4.43	4.16	4.14	4.31	4.20	3.65	3.87	4.03	3.77	* 3.94	3.96	4.44
18	4.39	4.14	4.07	* 4.16	4.27	3.69	* 3.86	3.83	3.81	3.91	3.92	4.19
19	4.35	4.27	4.13	4.06	4.20	3.84	3.88	3.72	* 3.83	4.05	3.93	* 3.99
20	4.31	4.19	4.02	4.18	4.11	3.87	3.93	3.74	3.76	4.00	3.92	3.91
21	4.25	* 4.21	* 3.96	4.25	4.14	3.88	3.65	3.71	3.68	3.92	* 3.88	3.71
22	4.25	4.16	3.95	4.23	4.10	* 3.94	3.56	* 3.86	3.63	3.89	3.91	3.58
23	4.22	4.14	3.99	4.33	* 4.07	3.99	3.73	4.15	3.48	3.85	3.91	3.53
24	* 4.18	4.14	3.92	* 4.39	4.06	4.11	3.78	4.33	3.39	* 3.73	3.93	3.57
25	4.16	4.15	4.00	4.35	3.95	4.25	* 3.98	4.21	3.58	3.68	3.98	3.56
26	4.11	4.22	4.04	4.56	3.65	4.36	4.19	4.16	3.58	3.72	4.06	* 3.59
27	4.10	* 4.21	4.00	4.30	3.61	* 4.39	4.20	4.22	* 3.71	3.77	3.84	3.60
28	4.03	4.28	* 4.05	4.13	3.57	4.12	4.19	4.13	3.78	3.91	* 3.82	3.39
29	4.05		4.10	4.08	3.66	4.10	4.25	* 4.05	3.52	4.04	3.81	3.59
30	4.02		4.07	4.17	3.76	3.96	4.26	4.10	3.44	4.17	3.77	3.60
31	4.02		4.05		* 3.75		3.89	4.28		* 4.28		3.67
Sum	130.20	117.06	129.32	126.70	127.27	114.34	121.13	123.51	115.30	120.16	115.78	118.30

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second @ High Day		@ Low Day		Average	Total	Period 1961-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.			17	4.43	!30	4.02	4.20	11,249	8,838	11,558	2,805
Feb.			14	4.30		4.01	4.18	10,114	7,854	10,129	2,614
Mar.			8	4.63	24	3.92	4.17	11,173	8,582	11,173	2,917
April			26	4.56	1	3.93	4.22	10,947	8,352	10,947	2,826
May			11	4.49	28	3.57	4.11	10,996	8,643	11,471	3,506
June			27	4.39	3	3.33	3.81	9,879	8,334	11,162	3,060
July			30	4.26	22	3.56	3.91	10,466	8,607	11,523	2,731
Aug.			24	4.33	5	3.59	3.98	10,671	8,489	11,751	2,608
Sept.			4	4.83	24	3.39	3.84	9,962	8,318	11,038	3,152
Oct.			31	4.28	1	3.54	3.88	10,382	8,806	11,408	3,094
Nov.			1	4.20	13	3.50	3.86	10,003	8,603	11,571	2,941
Dec.			17	4.44	28	3.39	3.82	10,221	8,910	11,800	2,948
Yearly				4.83		3.33	4.00	126,063	102,336	133,083	45,119

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4530.00 SAN FELIPE CREEK NEAR DEL RIO, TEXAS

DESCRIPTION: Bubbler gage, water-stage recorders (graphic and digital), and DCP with GOES high data rate telemetry located on the left bank at latitude 29 19'50", longitude 100 53'20", immediately upstream from the Silos Farm road bridge, 1.8 creek kilometers upstream from its confluence with the Rio Grande, and about 3.2 kilometers south-southeast of Del Rio, Val Verde County, Texas. This stream enters the Rio Grande at river kilometer 902, 0.8 river kilometer downstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 267.44 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 33 current-meter measurements during the year, 24 by the United States Section and 9 by the Mexican Section of the Commission, and a continuous record of gage heights. Computations by shifting control methods. Records available: September 1931 through 2006.

REMARKS: The flow of this spring-fed creek is greatly modified by municipal and irrigation diversions upstream from the station. Backwater from the Rio Grande reaches this station when the Rio Grande at Del Rio reaches a stage of 4.6 meters, or a flow of about 1,700 CMS. On June 28, 1954 combined creek flow and backwater from the Rio Grande reached a stage of 7.47 meters at this station.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 3,340 CMS on August 24, 1998, with a gage height of 7.705 meters. Min. 0.01 CMS on July 20, 1953.

Average Flow in Cubic Meters per Second

Daily:	Max.	464	August 24, 1998	Min.	0.04	July 21, 1953
Monthly:	Max.	22.8	June 1935	Min.	0.13	July 1953
Yearly:	Max.	3.97	1998	Min.	0.71	1953

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.35	4.54	3.98	3.74	3.33	3.36	3.79	* 2.93	2.73	3.39	3.45	3.41
2	4.32	4.54	3.97	3.71	* 3.27	3.47	3.78	2.83	2.71	3.49	3.51	3.39
3	4.34	4.54	3.96	3.58	3.28	3.46	3.70	3.24	2.72	3.48	3.50	3.34
4	4.34	4.56	3.99	* 3.46	4.06	3.54	3.58	3.46	2.67	3.13	3.55	3.39
5	* 4.37	4.47	3.93	3.43	3.81	3.21	3.43	3.21	* 4.15	* 3.18	3.52	* 3.40
6	4.38	4.40	3.90	3.28	3.84	* 2.95	* 3.35	3.16	3.28	3.15	3.41	3.37
7	4.41	* 4.44	* 3.61	3.17	3.85	2.79	3.19	3.08	3.30	3.24	* 3.42	3.36
8	4.42	4.48	3.45	3.20	3.67	* 2.76	3.26	2.94	3.49	3.23	3.42	3.39
9	4.42	4.47	3.43	3.19	3.55	2.78	3.23	2.81	3.46	3.16	3.49	3.48
10	4.45	4.45	3.41	3.27	3.41	2.82	3.09	* 2.80	3.47	3.17	3.48	3.45
11	4.44	4.44	3.44	3.37	3.27	2.84	3.04	2.83	3.44	3.14	3.54	3.44
12	4.45	4.38	3.48	3.39	3.25	2.68	2.85	2.86	3.28	3.08	3.57	3.25
13	4.47	4.32	3.40	3.29	3.34	2.68	* 2.75	2.86	3.29	3.34	3.54	2.94
14	4.51	4.29	3.31	3.23	3.56	2.63	2.73	3.10	3.30	3.60	3.35	2.79
15	4.53	4.24	3.21	3.24	3.51	2.67	2.77	* 3.16	3.35	3.59	3.14	2.80
16	4.53	* 4.23	3.12	3.27	* 3.38	2.71	2.80	3.06	3.51	3.66	3.08	2.78
17	* 4.52	4.23	3.09	3.17	3.15	2.84	2.68	2.98	3.69	* 3.58	3.07	2.83
18	4.51	4.22	3.23	* 3.11	3.14	2.95	* 2.56	3.06	3.63	3.52	3.05	2.95
19	4.51	4.19	3.21	3.10	3.06	2.85	2.38	3.18	* 3.65	3.32	3.08	* 3.28
20	4.53	4.13	3.27	3.24	3.02	2.94	2.46	3.22	3.68	3.22	3.05	3.45
21	4.55	* 4.10	* 3.28	3.14	3.09	3.10	2.69	3.14	3.70	3.24	* 3.07	3.77
22	4.54	4.09	3.28	3.11	3.18	* 3.33	2.87	2.94	3.49	3.23	2.98	3.88
23	4.44	4.07	3.42	3.18	3.19	3.06	2.99	2.70	3.44	3.15	3.04	3.91
24	4.36	4.08	3.52	3.13	3.04	3.02	2.84	2.60	3.53	3.07	3.03	3.91
25	4.46	4.07	3.60	3.16	3.09	3.12	2.66	2.50	3.32	3.19	3.03	3.91
26	4.53	4.06	3.69	3.03	3.15	3.24	2.55	2.64	3.31	3.43	3.03	3.86
27	4.54	4.03	3.75	* 3.14	3.36	3.34	2.54	2.69	3.07	3.56	3.21	3.85
28	4.60	4.01	3.81	3.42	3.59	3.31	2.57	2.62	5.81	3.54	3.37	3.90
29	4.54		3.68	3.55	3.52	3.35	2.68	2.77	3.47	3.54	3.22	3.94
30	4.53		* 3.66	3.45	3.64	3.94	2.73	2.84	3.25	3.51	* 3.37	3.94
31	4.56		3.61		3.53		2.90	2.79		3.44		3.96
Sum	138.45	120.07	109.69	98.75	105.13	91.74	91.44	91.00	103.19	103.57	98.57	107.32

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Total	Period 1932-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	1.535	1.465	4.81	28	4.16	! 3	4.47	11,962	7,060	11,962	1,152
Feb.	1.530	1.465	4.79	5	3.89	28	4.29	10,374	5,975	10,642	601
Mar.	1.530	1.410	4.22	1	2.77	16	3.54	9,477	5,756	10,304	850
April	1.575	1.405	4.65	29	2.74	26	3.29	8,532	5,904	12,836	698
May	2.030	1.400	10.9	5	2.70	19	3.39	9,083	6,606	21,697	912
June	2.105	1.375	12.3	30	2.47	15	3.06	7,926	6,666	59,059	370
July	1.495	1.365	4.01	2	2.30	20	2.95	7,900	5,774	27,232	352
Aug.	1.745	1.375	6.65	3	2.42	25	2.94	7,862	5,867	47,764	432
Sept.	2.870	1.385	30.1	28	2.52	! 1	3.44	8,916	6,651	35,373	1,076
Oct.	1.565	1.400	4.63	16	2.68	3	3.34	8,948	7,059	17,551	1,233
Nov.	1.485	1.395	3.88	14	2.79	!22	3.29	8,516	6,276	12,570	649
Dec.	1.510	1.390	4.14	!25	2.56	!13	3.46	9,272	6,490	10,660	612
Yearly	2.870	1.365	30.1		2.30		3.45	108,768	76,084	125,323	22,441

* Discharge measurement(s) made on this day ! And other days

08-4539.00 DIVERSIONS FROM THE RIO GRANDE
MAVERICK CANAL AT MILE 13 NEAR QUEMADO, TEXAS

DESCRIPTION: Foot bridge for making current-meter measurements, water-stage recorder (graphic and digital), and DCP with GOES high data rate telemetry, located on the left bank of a gunnite-lined section of the canal at latitude 29 03'00", longitude 100 39'40", 0.8 canal kilometer downstream from the Tequesquite Creek Siphon, 5.6 canal kilometers upstream from the Las Moras Creek Siphon, about 12.1 kilometers north-northwest of Quemado, Maverick County, Texas and 20.6 kilometers downstream from the canal intake. The canal intake is at river kilometer 875, 28.0 river kilometers downstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The elevation of the zero of the gage has not been determined.

RECORDS: Based on 116 current-meter measurements during the year and a continuous record of gage heights. 24 measurements were made by the U.S. Section, and 92 measurements were made by the Maverick County Water Control and Improvement District No. 1. Computations by shifting control methods. Gage heights at this station are affected by gate operation at Las Moras Siphon. Records available: June 21, 1949 through 2006.

REMARKS: At canal kilometer 51.2 a portion of the diverted water returns to the river through the Maverick Power Plant, and the remainder enters the Maverick Canal Extension. In 2006, 5,069 hectares of land were irrigated between this station and the power plant, and 10,073 hectares were irrigated from the extension, making a total of 15,142 hectares. A total of 943,506 TCM returned to the Rio Grande at the power plant and through irrigation system returns published in the following pages of this bulletin.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 52.4 CMS on February 15, 1989. Min. no flow several days in June, July, and November 1954; and October 1978.

Average Flow in Cubic Meters per Second**

Daily:	Max.	50.4	Aug. 19, 1990	Min.	0	Several days, 1978, 2003	
Monthly:	Max.	47.5	April 1990	Min.	8.35	Feb.	1977
Yearly:	Max.	42.2	1980	Min.	17.9		1972

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	31.5	38.6	39.2	35.6	40.2	37.1	35.7	30.7	28.0	24.8	27.0	25.8
2	31.9	38.6	* 39.6	36.1	* 40.2	37.0	36.0	30.4	27.1	24.9	27.3	29.7
3	* 32.4	38.9	39.9	36.7	40.8	37.1	34.0	* 29.7	26.7	* 24.0	27.0	31.0
4	* 32.7	39.0	39.5	* 36.4	* 41.6	37.1	32.2	30.9	26.1	* 25.4	26.0	30.8
5	* 32.9	38.2	39.4	* 37.7	41.0	* 36.5	* 31.4	31.5	25.7	24.8	26.2	* 31.3
6	32.7	38.6	* 39.5	* 37.7	40.8	* 35.5	* 31.2	31.9	27.2	25.2	* 26.5	31.2
7	31.8	* 38.5	* 37.8	37.7	41.7	36.1	31.8	* 31.8	* 27.1	24.4	* 26.6	31.3
8	31.2	39.6	* 39.2	37.2	41.7	* 35.8	32.9	31.4	* 26.6	25.3	25.2	31.6
9	* 35.1	40.3	* 38.0	37.4	41.3	* 32.3	32.6	* 31.7	* 26.4	25.1	26.7	32.9
10	* 38.4	* 41.2	38.5	* 37.8	40.2	32.2	33.1	31.5	27.6	* 25.4	* 26.4	33.6
11	37.4	41.3	38.4	* 38.9	39.5	35.8	32.4	* 30.6	26.8	24.8	26.3	* 28.5
12	37.5	41.5	38.1	* 37.4	40.1	36.4	30.9	30.4	28.0	25.6	24.9	27.4
13	41.0	41.6	38.6	* 36.5	40.2	32.6	32.0	30.6	* 26.9	24.9	* 25.6	* 27.3
14	39.6	* 40.5	* 39.0	37.3	39.7	* 31.5	30.9	31.1	27.5	25.9	* 24.6	* 27.6
15	37.5	* 33.1	37.8	38.0	38.9	32.3	* 31.1	31.4	26.5	26.1	* 25.7	28.6
16	* 37.2	32.2	36.9	38.6	* 39.0	* 31.1	31.2	31.1	26.8	26.9	25.3	26.7
17	* 41.0	33.6	37.4	38.2	38.9	30.9	* 30.3	* 30.2	27.2	* 25.5	* 27.1	26.4
18	35.7	40.1	36.9	* 36.9	* 38.1	31.5	* 28.5	30.2	27.5	25.6	26.0	* 25.6
19	32.1	40.2	38.7	36.9	* 36.0	* 31.6	* 30.8	30.0	* 27.0	* 26.0	26.2	* 26.3
20	37.5	* 40.3	39.0	37.4	35.7	* 30.3	31.1	30.3	* 28.1	26.5	24.8	* 26.9
21	37.8	40.7	* 36.3	38.1	35.2	30.3	32.7	* 30.3	27.3	25.9	* 25.4	27.1
22	38.0	* 39.8	36.4	37.3	36.2	30.4	32.6	30.1	26.9	26.9	* 23.6	27.0
23	38.0	* 40.6	* 37.2	37.9	36.1	31.0	32.9	31.5	25.7	25.9	23.8	27.3
24	* 37.4	40.1	* 37.3	38.0	36.3	31.3	32.4	31.6	* 26.3	* 26.3	24.3	26.9
25	37.6	40.1	37.9	* 38.8	35.4	32.7	* 32.6	33.1	26.6	25.6	25.3	26.8
26	37.6	39.7	36.1	* 39.1	35.6	* 34.5	* 32.1	33.2	24.7	26.4	23.9	25.5
27	* 37.5	39.3	36.8	37.8	36.5	* 34.8	* 31.1	34.5	22.1	* 26.4	* 25.3	25.8
28	37.3	* 38.9	* 36.5	37.3	36.8	* 35.5	27.7	35.4	* 24.2	26.4	24.7	26.6
29	36.9		35.8	37.0	36.7	* 34.9	30.4	* 34.0	21.5	26.2	* 25.3	25.5
30	* 37.8		35.5	37.2	36.3	35.4	31.2	31.8	24.8	* 26.2	24.0	26.1
31	38.6		* 34.8		* 36.6		31.4	29.1		26.3		26.3
Sum	1,095.1	1,121.6	1,172.0	1,124.9	1,193.3	1,011.5	987.2	972.0	790.9	795.6	767.0	871.4

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1968-2006 Average	Maximum	Minimum
Jan.	2.930	2.220	43.2	13	26.5	1	36.2	96,906	83,925	120,225	25,730
Feb.	2.965	2.420	44.3	14	30.5	16	39.1	94,617	82,987	113,996	20,233
Mar.	2.945	2.530	42.7	6	30.5	29	37.8	101,261	94,277	122,230	34,141
April	2.940	2.490	42.1	11	30.4	29	37.5	97,191	95,439	123,587	50,229
May	3.015	2.530	42.8	! 4	30.3	25	38.5	103,101	101,267	126,490	49,910
June	2.910	2.275	39.6	12	26.2	!21	33.7	87,394	93,382	116,310	15,408
July	2.755	2.210	37.6	2	25.0	28	31.8	85,294	92,763	120,518	18,700
Aug.	2.650	2.270	38.2	28	26.3	22	31.4	83,981	93,395	119,784	30,325
Sept.	2.410	1.850	29.6	20	18.1	29	26.4	68,334	88,709	117,876	35,450
Oct.	2.345	2.060	29.1	27	22.4	3	25.7	68,740	88,130	121,971	27,426
Nov.	2.360	1.935	30.0	1	20.8	26	25.6	66,269	81,927	115,209	27,737
Dec.	2.630	2.020	35.0	9	21.7	1	28.1	75,289	82,196	120,494	29,007
Yearly	3.015	1.850	44.3		18.1		32.6	1,028,377	1,078,397	1,337,047	565,712

* Discharge measurement(s) made on this day ! And other days ** Period 1968-2006

08-4550.00 PINTO CREEK NEAR DEL RIO, TEXAS

DESCRIPTION: Solid ledge rock and concrete control, bubbler gage, DCP with GOES high data rate telemetry, and water-stage recorder (graphic and digital), located on the right bank at latitude 29 08'45", longitude 100 43'05", 2.6 creek kilometers upstream from its confluence with the Rio Grande, and about 30.6 kilometers southeast of Del Rio, Val Verde County, Texas. This stream enters the Rio Grande at river kilometer 864, 9.1 river kilometers downstream from the Maverick County Water Control and Improvement District No. 1 diversion dam. The zero of the gage is 248.01 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 30 current-meter measurements during the year, 25 by the United States Section and 5 by the Mexican Section of the Commission, and a continuous record of gage heights. Records available: September 1955 through 2006 at this station, and November 22, 1928 through August 1955 at a site 6.3 kilometers upstream.

REMARKS: Flow of this spring-fed creek is modified by small irrigation diversions upstream from the station. When flow in the Rio Grande exceeds about 2,270 CMS at the mouth of this creek, backwater may reach the station. At this station during the Rio Grande flood of June 1954, backwater reached a gage height of 8.78 meters, or an elevation of 256.79 meters above mean sea level.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 5,270 CMS on June 24, 1948 with a gage height of 9.75 meters. Min. frequently no flow.

Average Flow in Cubic Meters per Second

Daily:	Max.	799	June 24, 1948	Min.	0	Frequently
Monthly:	Max.	27.0	June 1948	Min.	0	Frequently
Yearly:	Max.	2.97	1932	Min.	0.04	1980

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.65	0.48	0.38	0.30	0.12	0.01	0.01	0	0	0	0	0
2	.64	.47	.38	.18	* .12	.02	.01	0	0	0	0	0
3	* .62	.46	.38	.19	.11	.02	.01	0	0	0	0	0
4	.60	.43	.35	* .19	.10	.02	0	0	0	0	0	0
5	* .59	.43	.34	.18	.10	.02	0	0	0	0	0	0
6	.57	.46	.34	.19	.11	* .02	0	0	0	0	0	0
7	.57	* .43	* .35	.18	.10	.01	0	0	0	0	0	0
8	.58	.43	.35	.17	.10	* .01	0	0	0	0	0	0
9	.58	.44	.32	.16	.10	.01	0	0	0	0	0	0
10	.57	.46	.30	.14	.08	.01	0	0	0	0	0	0
11	.57	.43	.30	.11	.06	.01	0	0	0	0	0	0
12	.58	.41	.31	.10	.05	.01	0	0	0	0	0	0
13	.58	.39	.31	.18	.05	.01	0	0	0	0	0	0
14	.55	.40	.27	.13	.06	* .01	0	0	0	0	0	0
15	.55	.42	.23	.13	.08	.01	0	0	0	0	0	0
16	.56	* .44	.24	.14	* .05	.01	0	0	0	0	0	0
17	.55	.43	.30	.13	.04	.01	0	0	0	0	0	0
18	.53	.39	.31	.11	.03	.01	0	0	0	0	0	0
19	.54	.38	.32	.10	.03	.01	0	0	0	0	0	0
20	* .54	.40	.24	* .28	.02	.01	0	0	0	0	0	.01
21	.52	.43	* .07	.23	.02	.01	0	0	0	0	0	* .03
22	.51	* .46	.11	.20	.02	* .01	0	0	0	0	0	.04
23	.51	.46	.18	.18	.02	.01	0	0	0	0	0	.05
24	.51	.45	.29	.17	.01	.01	0	0	0	0	0	.05
25	.51	.46	.21	.17	.01	.01	0	0	0	0	0	.03
26	.51	.43	.11	.15	.01	.01	0	0	0	0	0	.02
27	.51	.42	.30	* .12	.01	.01	0	0	0	0	0	.04
28	.52	.40	.35	.12	.01	.01	0	0	0	0	0	.04
29	.51		.18	.14	.01	.01	0	0	0	0	0	.03
30	.50	*	.20	.12	.01	.01	0	0	0	0	0	.02
31	.47		.15		.01		0	0		0		.01
Sum	17.10	12.09	8.47	4.89	1.65	0.35	0.03	0.00	0.00	0.00	0.00	0.37

	Current Year 2006							Period 1929-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	0.415	0.365	! 1	0.66	31	0.46	0.55	1,477	774	3,278	0
Feb.	.370	.335	1	.50	!13	.38	.43	1,045	789	7,106	0
Mar.	.340	.220	27	.40	!20	.05	.27	732	746	3,561	0
April	.305	.205	20	.38	28	.07	.16	422	1,414	33,464	0
May	.235	.185	1	.13	!23	.01	.05	143	1,959	36,248	0
June	.190	.170	24	.03	!23	0	.01	30.2	4,026	69,981	0
July	.180	.170	! 1	.01	! 1	0	0	2.6	383	37,030	0
Aug.	.170	.170	! 1	0	! 1	0	0	0	2,120	60,070	0
Sept.	.170	.170	! 1	0	! 1	0	0	0	2,130	60,397	0
Oct.	.170	.170	! 1	0	! 1	0	0	0	1,516	15,227	0
Nov.	.170	.170	! 1	0	! 1	0	0	0	768	9,950	0
Dec.	.205	.170	23	.08	! 1	0	.01	32.0	801	5,308	0
Yearly	0.415	0.170		0.66		0	0.12	3,884	17,426	94,053	1,178

* Discharge measurement(s) made on this day ! And other days

08-4555.00 RIO SAN DIEGO NEAR JIMENEZ, COAHUILA

DESCRIPTION: Cableway, masonry and concrete Cipolletti weir of 22 CMS capacity, gravity well, and water-stage recorder located on the left bank of Rio San Diego, and gravity well and water-stage recorder on Acequia de Dolores, an irrigation canal that runs along the left bank of the river under the cable, located at latitude 29 04'20", longitude 100 47'35", about 6.0 kilometers west of Jimenez, Coahuila, and 7.0 river kilometers upstream from its confluence with the Rio Grande. Part of the canal flow measured here returns to the river downstream. This stream enters the Rio Grande at river kilometer 856, 16.8 river kilometers downstream from Maverick County Water Control and Improvement District No. 1 diversion dam and 46.4 river kilometers downstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 253.51 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 75 current meter measurements, 70 measurements by the Mexican Section, and 5 by the U. S. Section, the weir discharge table and a continuous record of gage heights. Records available: October 1932 through 2006.

REMARKS: Reservoirs and irrigation diversions upstream from these stations modify the flow of this spring-fed stream. On December 24, 1955, the zero of the gage was raised 0.80 meters; in November 1961 an additional 0.06 meters, and the capacity of the weir was increased from 20 CMS to 22 CMS.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 2,320 CMS on June 17, 1961 with a gage height of 6.31 meters. Min. no flow occurred on several occasions.

Average Flow in Cubic Meters per Second

Daily:	Max.	1,040	July 18, 1975	Min.	0	Occasionally
Monthly:	Max.	67.5	Oct. 1932	Min.	0.07	July 1996
Yearly:	Max.	17.6	1976	Min.	0.68	1956

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	5.84	1.26	2.77	0.86	0.56	0.14	0.99	0.39	0.55	2.27	0.61	0.68
2	5.84	* 1.14	2.77	.86	.55	.16	.99	.49	.44	1.88	.61	.68
3	5.73	1.24	2.77	.86	.49	.20	.92	.52	.44	* 1.63	.78	.68
4	5.62	1.77	2.77	* .80	.49	.16	.78	.76	.83	1.60	.78	.71
5	5.47	1.97	2.77	.77	.49	.16	.73	.76	1.22	1.29	.61	.68
6	5.40	2.06	2.77	.67	.44	* .12	.73	.73	1.29	1.22	.73	.68
7	5.40	* 2.75	* 2.77	.55	.41	.26	.68	.67	1.14	1.07	* .73	.68
8	5.40	3.70	2.77	.49	.41	.31	.61	* .55	.99	.99	.73	.68
9	5.40	3.94	2.77	.49	* .44	.29	.61	.52	.86	.99	.73	.73
10	* 5.40	4.11	2.42	.44	.44	.29	.55	* .55	.73	* .94	.73	.73
11	6.04	4.02	1.80	* .46	* .44	.31	* .49	.55	.61	.80	.61	.73
12	5.84	4.11	1.54	.49	.39	.30	.49	.55	* .55	* .73	.61	* .71
13	5.73	4.04	1.37	.49	.39	* .35	.49	.59	.55	.73	.66	* .68
14	5.41	* 4.11	1.22	.49	.50	.32	.49	.86	.49	.73	* .61	.68
15	4.73	4.11	1.22	.54	.73	.29	.49	1.48	.39	.73	.66	.68
16	4.45	3.76	1.22	.52	* .61	.29	.49	1.28	.50	.86	.61	.73
17	* 4.23	3.21	1.26	.49	.47	.39	.49	.99	.68	* .78	.61	.68
18	4.15	2.86	1.22	* .49	.34	.39	* .39	* .84	.49	.73	.61	.68
19	3.78	1.98	1.11	.53	.29	.39	.29	.66	* .64	.73	.61	* .73
20	3.45	1.62	1.06	.61	.20	.39	.39	.49	.73	.67	.61	.73
21	2.99	* 1.45	.92	.55	.29	.36	.44	.49	.73	.61	.61	.73
22	2.44	1.37	.86	.49	.29	* .33	.49	* .49	.81	.61	.73	.73
23	2.07	1.23	.86	.49	.24	.39	.49	.39	.95	.61	.73	.73
24	1.94	1.17	.86	.54	.20	.49	.49	.39	3.40	* .61	.73	.73
25	1.79	1.22	.80	* .61	.20	.49	.39	.35	1.29	.73	.73	.73
26	* 1.71	1.35	.73	.55	.20	.49	.29	.35	* 1.29	.73	.73	.73
27	1.62	1.97	.77	.55	.20	.39	.29	.35	1.29	.67	.73	.73
28	1.62	* 1.98	* .80	.61	.20	.39	.29	.39	1.50	.55	* .73	.73
29	1.62		.86	.64	.20	* .39	.29	* .41	2.33	.61	.73	.73
30	1.54		.86	.61	* .16	.64	.29	.86	2.95	.55	.60	.73
31	* 1.45		.86		.15		.29	.67		* .61		.73
Sum	124.10	69.50	49.55	17.54	11.41	9.87	16.13	19.37	30.66	28.26	20.29	21.99

	Current Year 2006						Period 1932-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High	Low	Average	Total	Average	Maximum	Minimum
Jan.	0.185	0.065	11	6.48	!30 1.45	4.00	10,722	10,074	44,937	2,300
Feb.	.130	.050	!10	4.11	1 .99	2.48	6,005	7,912	31,769	1,279
Mar.	.100	.040	! 1	2.77	!25 .73	1.60	4,281	7,325	33,352	797
April	.045	.025	! 1	.86	!10 .39	.58	1,515	8,122	49,678	698
May	.045	.010	14	.86	30 .12	.37	986	13,129	148,269	395
June	.045	.010	30	.86	1 .12	.33	853	14,314	133,550	282
July	.050	.020	! 1	.99	!18 .29	.52	1,394	16,239	167,938	179
Aug.	.070	.020	15	1.62	1 .29	.62	1,674	14,210	112,553	392
Sept.	.290	.025	24	12.5	!14 .39	1.02	2,649	19,666	116,770	843
Oct.	.100	.030	1	2.77	!28 .49	.91	2,442	25,997	180,878	1,011
Nov.	.050	.030	! 3	.94	30 .49	.68	1,753	17,463	84,231	990
Dec.	.040	.030	! 7	.73	! 1 .49	.71	1,900	12,415	55,901	1,389
Yearly	0.290	0.010		12.5		0.12	1.15	36,174	166,866	557,477	21,508

* Discharge measurement(s) made on this day ! And other days

08-4557.00 RIO GRANDE NEAR JIMENEZ, COAHUILA AND QUEMADO, TEXAS

DESCRIPTION: Cableway, control weir of 36 CMS capacity, gravity well, and water-stage recorder located on the right bank at latitude 29 03'00", longitude 100 39'50", and river kilometer 853; 2.4 kilometers south-southeast of Jimenez, Coahuila, 3.0 river kilometers downstream from Rio San Diego, about 12.1 kilometers north-northwest of Quemado, Maverick County, Texas, 19.8 river kilometers downstream from the Maverick County Water Control and Improvement District No. 1 diversion dam, and 49.4 river kilometers downstream from the international highway bridge between Del Rio, Texas and Cd. Acuna, Coahuila. The zero of the gage is 234.39 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 26 current-meter measurements during the year, 14 by the Mexican Section and 12 by the United States Section of the Commission, and a continuous record of gage heights. Computations by shifting control methods prior to completion of the weir and for flows exceeding the capacity of the weir thereafter. Computations for flows within the capacity of the weir were based on a stable control weir rating curve defined by current-meter measurements. Records available 1968 through 2006. Records, excluding some high flow periods, are also available from 1956 through May 1965 for a station 14.0 river kilometers upstream. Records prior to 1976 were published under title "Rio Grande below Maverick Dam near Quemado, Texas."

REMARKS: This station was placed in operation January 1, 1965 and replaces the station "Rio Grande below Maverick Dam near Del Rio, Texas," which stopped operating June 1, 1965. Irrigation diversions 21.5 river kilometers upstream largely control the flow at this station. The weir was placed in operation June 1, 1967, at which time the zero of the gage was set 1.00 meter higher.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 4,250 CMS on August 24, 1998, with a gage height of 12.1 meters. Min. 0.05 CMS on September 21, 1995, with a gage height of 0.055 meters.

Average Flow in Cubic Meters per Second

Daily:	Max.	3,220	August 24, 1998	Min.	0.08	April	1983
Monthly:	Max.	602	Sept. 1974	Min.	0.80	June	1969
Yearly:	Max.	124	1974	Min.	8.09		1968

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.11	12.2	24.1	24.5	47.7	19.3	26.9	10.3	3.13	6.34	5.11	35.4
2	8.31	11.3	25.4	23.4	49.6	21.0	24.5	10.3	2.52	5.80	4.23	32.8
3	7.93	23.4	23.7	25.2	52.2	21.0	13.3	9.17	2.30	5.19	4.10	31.5
4	8.03	23.7	25.2	22.8	56.4	21.1	9.62	11.7	2.22	5.92	3.98	30.3
5	* 7.44	24.6	25.8	23.6	54.4	21.3	10.1	11.6	2.89	4.60	4.77	32.3
6	6.96	24.0	26.5	22.3	51.7	21.0	9.88	11.7	5.08	4.63	5.05	32.4
7	7.20	24.0	26.6	22.8	52.8	20.9	7.54	11.3	5.02	4.42	* 5.04	33.1
8	8.17	26.3	24.3	22.2	51.7	* 22.9	8.34	12.0	3.76	5.26	4.59	35.0
9	14.8	24.9	24.5	24.1	52.8	10.1	8.43	10.7	6.06	4.69	5.63	38.0
10	17.3	26.5	23.4	22.6	53.0	9.78	8.23	* 11.2	6.63	4.58	4.43	32.5
11	18.0	26.0	22.8	23.8	43.8	21.6	8.63	9.53	5.58	4.55	4.93	4.80
12	17.3	26.0	25.9	23.1	47.9	22.0	9.62	9.85	5.96	6.03	4.46	* 3.69
13	38.7	25.6	25.1	25.3	46.8	10.5	* 10.8	10.4	5.41	4.76	5.31	2.92
14	25.0	26.6	22.8	23.5	48.8	9.78	10.2	9.97	4.72	5.31	* 5.64	2.32
15	17.7	35.7	24.7	22.6	53.4	9.43	10.1	10.6	4.88	4.77	5.11	2.58
16	16.4	* 35.9	28.0	21.9	* 48.9	8.02	10.3	10.3	5.58	5.42	4.31	2.67
17	* 62.2	34.2	24.7	22.1	48.5	9.98	10.9	* 9.35	8.51	* 5.20	4.69	3.74
18	25.5	25.7	25.1	* 23.1	37.0	10.9	* 12.2	9.02	7.29	6.03	4.59	4.06
19	10.1	24.8	26.9	23.9	21.3	9.46	10.3	10.1	* 6.07	* 5.13	5.04	* 3.73
20	16.1	25.1	18.3	23.9	20.6	9.60	8.24	9.77	6.19	5.66	5.35	2.44
21	15.0	23.1	* 25.3	25.0	21.8	11.1	8.91	11.5	5.95	5.08	5.03	2.78
22	15.1	* 23.8	24.5	23.2	20.9	8.43	9.13	9.02	5.79	5.63	5.90	2.16
23	14.6	23.1	23.7	23.2	20.6	7.60	10.2	9.89	5.38	5.27	6.47	2.06
24	14.8	23.7	25.8	23.4	22.1	8.72	9.96	10.8	16.1	5.15	6.69	2.13
25	13.9	23.1	23.8	22.7	22.8	25.7	9.59	10.9	7.37	4.55	5.41	2.49
26	14.4	23.7	20.0	21.6	22.3	* 28.7	9.24	10.9	5.15	5.47	6.75	2.06
27	13.9	23.7	22.7	* 23.4	20.0	25.9	13.6	10.8	5.41	4.49	5.59	2.85
28	15.0	24.4	22.6	22.6	22.0	27.0	11.6	11.0	6.78	4.73	* 6.64	2.58
29	15.3		24.8	22.9	22.8	22.3	10.9	5.43	11.3	4.05	5.72	2.10
30	12.2		* 27.5	22.2	22.9	24.1	10.3	4.80	9.83	4.42	6.29	2.06
31	14.3		21.7		21.6		10.6	5.18		* 3.86		1.94
Sum	695.1	696.9	499.20	309.08	156.99	391.46	499.75	756.2	1,179.1	342.16	178.86	156.85

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1968-2006: Average	Maximum	Minimum
Jan.	0.775	0.145	17	79.1	30	4.60	16.1	43,178	52,191	216,588	5,954
Feb.	.790	.140	15	84.0	2	4.40	24.8	60,057	81,120	495,046	7,139
Mar.	.770	.130	16	77.4	!22	4.01	24.4	65,336	101,144	486,605	2,805
April	.745	.135	13	69.0	30	4.17	23.2	60,212	124,461	502,502	6,204
May	.875	.125	10	109	28	3.82	38.0	101,874	191,618	608,342	8,109
June	.760	.115	26	73.6	! 9	3.45	16.6	43,131	131,102	489,197	2,061
July	.725	.120	1	60.7	7	3.57	11.0	29,563	108,395	384,578	2,864
Aug.	.430	.120	1	21.2	31	3.64	9.97	26,705	130,072	876,848	6,347
Sept.	.590	.075	24	35.9	4	2.10	5.96	15,454	149,127	1,559,261	14,929
Oct.	.235	.115	12	8.67	!29	3.45	5.06	13,564	154,528	1,025,395	13,564
Nov.	.305	.115	26	12.5	! 1	3.42	5.23	13,552	69,428	615,686	10,933
Dec.	.820	.070	9	92.7	!23	1.94	12.6	33,822	49,296	223,396	9,234
Yearly	0.875	0.070		109		1.94	16.1	506,448	1,342,482	3,909,913	256,561

* Discharge measurement(s) made on this day ! And other days

08-4571.00 RIO SAN RODRIGO AT EL MORAL, COAHUILA

DESCRIPTION: Bubbler gage, control weir of 130 cms capacity, and water-stage recorder located on the left bank at El Moral, Coahuila, latitude 28 53'20", longitude 100 37'55", 1.6 river kilometers from the confluence with the Rio Grande, and about 25 kilometers northwest of Piedras Negras, Coahuila. This stream enters the Rio Grande at river kilometer 834, 39.3 river kilometers downstream from the Maverick County Water Control and Improvement District No. 1 diversion dam and 35.2 river kilometers upstream from the international highway bridge between Eagle Pass, Texas and Piedras Negras Coahuila. The zero of the gage is 228.89 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 17 current-meter measurement during the year, 12 by the United States Section, and 5 by the Mexican Section, and a continuous record of gage heights. Computations by shifting control methods. Records available: 1962 through 2006.

REMARKS: Prior to 1976 this station was published under the heading "Rio San Rodrigo near Mouth at El Moral, Coahuila." The flow of this spring-fed stream is modified by diversions above this station. La Fragua Dam, located about 19 river kilometers upstream from this station, began operation in 1991. The concrete control weir, placed in operation on November 25, 1969, was destroyed by the flood of July 12, 1976, and the station was relocated on October 15, 1976.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 3,970 CMS on July 18, 1975, with a gage height of 5.62 meters. Min. frequently no flow.

Average Flow in Cubic Meters per Second

Daily:	Max.	1,260	July 18, 1975	Min.	0	Frequently
Monthly:	Max.	209	July 1976	Min.	0	Frequently
Yearly:	Max.	23.7	1976	Min.	0.07	1996

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.21	0	0	0.08	0.03	0	0	0	0	0.11	0	0
2	.20	0	0	.08	* .03	0	0	0	0	0	0	0
3	* .19	0	0	* .08	.03	0	0	0	0	0	0	0
4	.18	0	0	.07	.03	0	0	0	0	0	0	0
5	.17	0	0	.06	.03	0	0	0	0	0	0	0
6	.16	0	0	.05	.03	0	0	0	0	0	0	0
7	.14	0	.08	.05	.03	0	0	0	0	0	0	0
8	.13	0	.08	.04	.03	0	0	0	0	0	0	0
9	.12	0	.08	.03	0	0	0	0	0	0	0	0
10	* .11	0	.08	* .02	0	0	0	0	0	0	0	0
11	.11	0	.08	.02	0	0	0	0	0	0	0	0
12	.10	0	.08	.01	0	0	0	0	0	0	0	0
13	* .10	0	.08	.01	0	0	0	0	0	0	0	0
14	.10	0	.08	.01	0	0	0	0	0	0	0	0
15	.10	0	.08	.01	0	0	0	0	0	0	0	0
16	.09	0	.08	0	0	0	0	0	0	0	0	0
17	* .09	0	.08	0	0	0	0	0	8.06	0	0	0
18	.08	0	* .08	0	0	0	0	0	* .19	0	0	0
19	.07	0	.08	0	0	0	0	0	0	0	0	0
20	.06	0	.08	0	0	0	0	0	0	0	0	0
21	.05	0	.08	1.54	0	0	0	0	0	0	0	0
22	.04	0	.08	.08	0	0	0	0	0	0	0	0
23	* .03	0	.08	.05	0	0	0	0	0	0	0	0
24	.03	0	.08	* .04	0	0	0	0	0	0	0	0
25	.03	0	* .08	.04	0	0	0	0	0	0	0	0
26	.03	0	.08	.04	0	0	0	0	0	0	0	0
27	.03	0	* .08	.04	0	0	0	0	0	0	0	0
28	.03	0	.08	.04	0	0	0	0	15.3	0	0	0
29	.03		.08	.03	0	0	0	0	6.80	0	0	0
30	0		.08	.03	0	0	0	0	.39	0	0	0
31	0		.08		0		0	0		0		0
Sum	2.81	0	2.00	2.55	0.24	0	0	0.00	30.74	0.11	0	0.00

Current Year 2006								Period 1962-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	Day	High	Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	0.780	0.730	1	0.21	!30	0	0.09	243	4,300	20,066	0
Feb.	.725	.725	! 1	0	!28	0	0	0	3,019	12,251	0
Mar.	.760	.730	!12	.08	! 1	0	.06	173	2,875	18,325	0
April	1.320	.730	21	9.15	!16	0	.09	220	6,482	99,436	0
May	.740	.700	! 1	.70	31	0	.01	20.7	4,738	36,113	0
June	.720	.580	26	0	15	0	0	0	7,599	127,224	0
July	.495	.495	! 1	0	! 1	0	0	0	27,471	560,796	0
Aug.	.495	.495	! 1	0	! 1	0	0	0	11,650	109,801	0
Sept.	2.905	.500	28	105	! 1	0	1.02	2,656	16,429	65,176	0
Oct.	.785	.495	1	.17	9	0	0	9.5	17,613	84,319	0
Nov.	.495	.495	! 1	0	! 1	0	0	0	9,920	103,632	0
Dec.	.495	.495	! 1	0	! 1	0	0	0	6,031	25,993	0
Yearly	2.905	0.495		105		0	0.11	3,322	118,127	748,140	2,288

* Discharge measurement(s) made on this day ! And other days

08-4575.00 RETURN FLOW TO THE RIO GRANDE FROM THE MAVERICK CANAL AT MAVERICK POWER PLANT NEAR EAGLE PASS, TEXAS

DESCRIPTION: A part of the water diverted from the river into the Maverick Canal is returned to the Rio Grande through the hydroelectric power plant located on the left bank of the Rio Grande at latitude 28 49'50", longitude 100 33'10", about 14.5 kilometers north-northwest of Eagle Pass, Maverick County, Texas, and about 51.8 canal kilometers downstream from the point of diversion. The return enters the Rio Grande at river kilometer 816.

RECORDS: Based on records furnished by the Maverick County Water Control and Improvement District No. 1 (MCWCID No. 1) showing hourly discharge in cubic feet per second based on hourly manometer readings, through each turbine at the Central Power and Light Company hydroelectric power plant. The mean daily discharges computed from the manometer readings have been multiplied by a factor to make them agree with periodic current-meter measurements of flows made under stable flow conditions by hydrographers of the Commission and MCWCID No. 1. There were 80 current-meter measurements made during the year. 24 measurements were made by U.S. Section of the Commission and 56 measurements were made by MCWCID No. 1. Records available: 1949 through 2006.

REMARKS: This power plant began operating April 16, 1932 with hydroelectric power generating facilities for 12,000 kw. Because the September 1932 flood washed out the upper end of the Maverick Canal, this plant did not operate from September 2, 1932 until March 17, 1937, for 44 days in 1953 when shortage of water prevented operation, and from June 30 through July 19, during flood of 1954 and while the canal was being repaired. Since then, the plant has operated continuously except during maintenance operations on the power plant, canal, headworks, and during the sales negotiations of the plant between the MCWCID No. 1 and SEMPRA Energy, San Diego, CA between June 2005 and August 2005. The plant's operation is governed by the amount of water released from Amistad Reservoir, which began operations on May 31, 1968.

Average Flow in Cubic Meters per Second**

Daily:	Max.	48.1	April 28, 1990	Min.	0	Occasionally	
Monthly:	Max.	44.4	April 1990	Min.	1.20	Dec.	1971
Yearly:	Max.	36.7	1990	Min.	6.57		1972

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	29.9	35.3	36.9	32.0	37.7	* 30.9	31.0	24.4	18.5	23.0	* 22.0	22.2
2	31.1	* 35.6	* 36.7	32.8	37.6	31.4	33.2	23.9	19.7	23.2	22.7	27.5
3	30.7	* 36.1	37.2	33.7	* 36.7	31.4	32.6	* 23.0	21.5	22.6	23.4	31.1
4	* 30.7	37.2	36.5	32.7	* 38.0	32.6	30.0	24.9	21.6	22.6	22.4	31.4
5	* 29.9	37.5	36.2	31.8	37.7	32.1	28.5	26.6	21.6	* 22.4	23.9	31.5
6	29.3	36.6	51.9	* 31.8	37.3	30.3	* 26.7	27.8	* 22.7	22.4	23.7	* 30.5
7	29.3	36.9	40.2	32.5	38.1	29.6	26.0	27.4	21.9	22.2	23.9	30.8
8	29.0	36.3	* 35.3	31.9	39.4	28.5	27.7	26.8	21.4	22.5	23.0	* 30.6
9	* 30.5	37.1	35.5	31.9	* 38.9	24.0	28.0	26.8	21.8	* 22.5	23.0	31.2
10	* 36.1	* 37.6	35.6	31.4	37.1	23.1	29.0	27.0	22.9	21.9	* 23.2	32.4
11	* 35.2	37.7	35.7	* 31.1	35.7	25.7	28.1	25.6	23.5	21.5	23.6	28.4
12	34.4	38.1	35.8	31.3	35.1	* 28.6	26.8	25.4	* 25.5	21.8	22.9	* 26.4
13	35.7	36.7	34.8	30.2	35.9	25.9	16.3	25.5	* 24.8	21.5	23.4	25.8
14	37.6	39.4	34.8	30.7	36.5	* 22.8	26.0	26.4	25.5	22.4	* 21.8	* 25.5
15	35.4	* 33.2	* 33.9	33.0	38.2	22.8	25.1	26.6	24.5	23.4	* 21.6	26.0
16	35.1	30.5	33.5	34.0	38.4	22.2	25.0	25.2	24.0	* 24.4	* 21.3	24.6
17	36.7	29.8	33.5	33.0	* 37.1	22.9	* 26.1	* 24.2	24.7	24.6	22.9	24.5
18	36.5	35.3	33.2	31.1	* 36.1	24.1	24.0	24.0	26.1	* 24.2	22.9	24.0
19	* 29.2	37.2	34.1	* 30.0	33.9	24.6	23.7	23.2	* 26.0	24.1	23.1	* 23.8
20	* 35.6	37.1	* 37.2	32.0	34.0	23.3	* 24.1	24.1	26.1	23.9	22.3	* 24.3
21	35.5	37.2	34.9	33.9	33.4	* 23.3	25.1	23.4	* 26.2	23.7	22.8	* 23.6
22	35.6	37.7	33.5	34.5	* 33.9	23.2	25.1	21.6	26.4	23.7	21.3	24.4
23	34.8	37.4	* 33.4	36.6	34.0	24.0	26.8	22.3	25.7	24.1	21.6	25.0
24	* 34.2	* 37.7	* 34.0	34.8	33.4	25.5	26.3	22.0	26.2	23.1	22.1	25.3
25	* 34.4	38.4	35.7	* 35.7	32.9	27.8	* 26.1	21.5	26.1	22.9	23.4	25.0
26	34.8	38.4	34.1	36.2	31.5	29.7	24.7	22.0	* 24.2	22.7	22.6	24.7
27	* 34.7	38.0	* 34.0	35.8	32.8	* 28.6	* 23.7	23.2	22.3	22.7	* 23.0	24.1
28	34.7	38.2	33.3	34.5	33.9	29.3	20.5	22.5	21.7	22.8	* 23.0	25.3
29	34.4		31.8	34.8	33.3	29.0	22.2	21.1	22.2	22.9	23.0	22.5
30	34.5		31.6	34.0	31.7	* 30.3	24.1	22.6	20.6	* 22.3	* 23.0	23.5
31	35.7		* 32.5		31.5		24.0	20.6		22.3		24.4
Sum	1,024.2	1,041.2	1,097.3	989.7	1,101.7	807.5	806.5	751.6	705.9	710.3	682.8	820.3

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second @ High Day	@ High	@ Low Day	@ Low	Average	Volume-Thousand Cubic Meters: Total	Period 1968-2006: Average	Maximum	Minimum
Jan.			14	37.6	8	29.0	33.6	89,960	70,878	116,090	6,108
Feb.			14	39.4	17	29.8	36.6	88,491	70,959	108,078	6,008
Mar.			6	51.9	30	31.6	35.4	94,807	74,883	109,909	7,047
April			23	36.6	19	30.0	33.0	85,510	73,536	115,145	5,305
May			8	39.4	!26	31.5	35.5	95,187	81,655	113,668	17,131
June			4	32.6	16	22.2	26.9	69,768	70,138	102,070	7,177
July			2	33.2	13	16.3	26.0	69,682	67,571	96,639	4,318
Aug.			6	27.8	31	20.6	24.2	64,938	68,451	97,044	22,766
Sept.			22	26.4	1	18.5	23.5	60,990	72,216	111,197	16,949
Oct.			17	24.6	!11	21.5	22.9	61,370	73,462	109,382	13,750
Nov.			! 5	23.9	!16	21.3	22.8	58,994	68,518	106,644	3,951
Dec.			10	32.4	1	22.2	26.5	70,874	69,000	112,566	3,217
Yearly				51.9		16.3	28.9	910,571	861,267	1,158,234	207,661

* Discharge measurement(s) made on this day @ Mean daily ! And other days

** Period 1968-2006

08-4577.00 RETURN FLOW TO THE RIO GRANDE FROM THE MAVERICK IRRIGATION DISTRICT ABOVE EAGLE PASS, TEXAS

DESCRIPTION: Part of the water diverted from the Rio Grande into the Maverick Canal is returned to the river through various drains and spillways of the irrigation system located between Maverick Diversion Dam and Eagle Pass, Maverick County Texas. These return flows are measured at gaging stations consisting of sharp-crested Cipolletti weirs or control structures equipped with continuous water-stage recorders located at Hughes Ranch, Lateral 1, Lateral 2 Spill, Canon Grande, Quemado Creek, Lateral 15 Spill, Houchin Spill, and Elm Creek; and a Parshall flume at the Lateral 2 Sand Trap Spill into Las Moras Creek immediately below the canal siphon. Gate leakage at Las Moras Creek which is measured periodically and mean daily discharges are determined by prorating between current-meter measurements.

RECORDS: Based on the weir discharge table and a continuous record of gage heights. All storm flow occurring at these stations is deducted from the records and is not shown below. Records available: April 1959 through 2006. Records computed by the U.S. Section of the Commission prior to 1996. Beginning in 1996, the Maverick County Irrigation District computes and provides the discharge data through the Texas Commission on Environmental Quality. Records prior to 1976 were published under the title "Return Flow to the Rio Grande from Maverick Canal-Maverick Dam to Eagle Pass, Texas".

REMARKS: In addition to the flows listed below, water from the Maverick Canal is returned to the Rio Grande in this reach at the Maverick Power Plant shown on a prior page of this bulletin.

EXTREME FLOWS FROM RECORDS:

Average Flow in Cubic Meters per Second**

Daily:	Max.	26.3	Sept. 29, 1975	Min.	0.07	Aug. 4 & 8, 1985
Monthly:	Max.	4.36	June 1968	Min.	0.14	Sept. 1985
Yearly:	Max.	3.57	1968	Min.	0.41	1985

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.35	1.01	0.77	0.99	0.41	0.45	0.63	0.92	0.86	0.85	1.09	0.55
2	1.14	1.08	.80	.95	.43	.48	.64	.93	.88	.85	1.10	.59
3	1.19	1.03	.80	.84	.48	.54	.57	.95	.85	.86	1.10	.71
4	1.20	1.02	.80	.79	.54	.59	.49	.99	.78	.86	1.07	.78
5	1.20	.97	.81	.81	.51	.53	.50	1.06	1.07	.86	.75	.89
6	1.14	.94	.83	.79	.50	.53	.52	1.30	1.12	.82	.63	1.27
7	1.20	.94	.80	.73	.45	.60	.55	1.25	1.13	.82	.63	1.38
8	1.25	.97	.83	.73	.45	.85	.61	1.22	1.11	.83	.61	1.34
9	1.22	1.10	.87	.81	.45	.69	.55	1.20	1.14	.83	.63	1.31
10	1.25	1.16	.94	.78	.45	.78	.50	1.23	1.17	.84	.61	1.30
11	1.22	1.26	.87	.75	.47	.91	.52	1.29	1.17	.84	.64	1.30
12	1.20	1.23	.81	.86	.50	.68	.56	1.24	1.15	.84	.63	1.30
13	1.21	1.10	.80	.91	.48	.49	.59	1.08	1.15	.84	.67	1.31
14	1.21	1.01	.87	.85	.44	.46	.56	1.28	1.14	.84	.63	1.30
15	1.25	.96	.97	.80	.47	.48	.61	1.13	1.05	.84	.62	1.23
16	1.29	1.05	.83	.74	.45	.57	.55	1.19	.80	.84	.62	.82
17	1.29	1.02	.77	.73	.42	.54	.51	1.16	.86	.83	.60	.76
18	1.35	1.01	.73	.79	.42	.60	.56	1.12	1.01	.82	.65	.74
19	1.32	1.00	.73	.85	.40	.53	.54	1.05	1.02	.82	.70	.76
20	1.27	1.02	.79	.87	.36	.48	.59	1.29	1.01	.79	.68	1.20
21	1.25	1.04	.80	.80	.37	.48	.78	1.46	1.00	.77	.67	1.33
22	1.25	1.07	.90	.78	.39	.47	.87	1.65	.99	.77	.69	1.35
23	1.26	1.11	1.24	.75	.41	.60	.97	1.53	.98	.78	.71	1.40
24	1.31	1.14	1.18	.71	.48	.71	1.09	1.54	.97	.83	.73	1.51
25	1.46	1.14	1.05	.70	.43	.57	1.10	1.46	.96	.83	.70	1.45
26	1.51	1.14	1.03	.71	.51	.56	1.09	1.25	.94	.79	.64	1.40
27	1.42	1.14	.91	.71	.51	.58	1.18	1.11	.94	.76	.62	1.54
28	1.33	1.14	.92	.69	.46	.64	1.19	1.16	.93	.75	.62	1.80
29	1.22		1.26	.66	.43	.71	1.05	1.23	.92	.75	.62	1.54
30	1.25		.99	.70	.43	.76	.99	1.24	.91	.78	.57	1.30
31	1.33		.97		.44		1.00	1.04		.87		1.25
Sum	38.34	29.80	27.67	23.58	13.94	17.86	22.46	37.55	30.01	25.40	21.23	36.71

Month	Current Year 2006: Extreme Gage Meters High	Extreme Gage Meters Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Period 1968-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.			26	1.51	1	0.35	1.24	3,313	3,119	9,424	804
Feb.			11	1.26	6	.94	1.06	2,575	2,942	7,556	745
Mar.			29	1.26	18	.73	.89	2,391	3,849	7,940	642
April			1	.99	29	.66	.79	2,037	4,101	9,615	622
May			4	.54	20	.36	.45	1,204	3,916	10,087	599
June			11	.91	1	.45	.60	1,543	3,859	11,334	640
July			28	1.19	4	.49	.72	1,941	4,051	10,060	405
Aug.			22	1.65	1	.92	1.21	3,244	4,137	11,423	486
Sept.			!10	1.17	4	.78	1.00	2,593	3,559	9,472	356
Oct.			31	.87	!28	.75	.82	2,195	3,632	8,097	1,337
Nov.			! 2	1.10	30	.57	.71	1,834	3,386	10,726	898
Dec.			28	1.80	1	.55	1.18	3,172	3,104	7,122	860
Yearly				1.80		0.35	0.89	28,042	43,655	112,857	12,834

@ Mean daily ! And other days ** Period 1968-2006

08-4580.00 RIO GRANDE AT PIEDRAS NEGRAS, COAHUILA AND EAGLE PASS, TEXAS

DESCRIPTION: Cableway, gravity well, water-stage recorder, and data collection platform located on the left bank at latitude 28 42'50", longitude 100 30'25", and river kilometer 800, 1.0 river kilometer upstream from the international highway bridge between Eagle Pass, Texas and Piedras Negras, Coahuila and 124 river kilometers downstream from Amistad Dam. The zero of the gage is 208.15 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 57 discharge measurements during the year, 45 by the Mexican Section, and 12 by the United States Section, and a continuous record of gage heights. Computations by shifting control methods. Records available: May 1900 through March 1914; August 1914 through April 1916; September 1916; September and October 1917; October 1918; September and October 1919; August and September 1920; June 1922; September, November, and December 1923; and 1924 through 2006. Records prior to 1976 were published under the title "Rio Grande at Eagle Pass, Texas."

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. The data collection platform is coupled to leased telephone circuits. This system is operated in cooperation with the National Weather Service.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 27,300 CMS, determined by slope-area calculations, on June 29, 1954, with a gage height of 16.31 meters. Well-authenticated information indicates the occurrence of a flood in June 1865 with an estimated discharge of 35,000 CMS and a gage height of 17.07 meters on the present gage, and also that these were the only floods since 1745 with flows greater than 23,400 CMS. Min. 0.69 CMS on June 22, 1953, with a gage height of 0.02 meters.

Average Flow in Cubic Meters per Second**

Daily:	Max.	3,810	Aug. 25, 1998	Min.	4.90	April 25, 1984
Monthly:	Max.	622	Sept. 1974	Min.	9.16	June 1969
Yearly:	Max.	147	1974	Min.	27.4	1972

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.5	44.7	61.5	56.7	74.2	* 48.7	62.0	38.7	33.5	31.7	29.2	38.4
2	37.9	* 44.3	* 62.3	55.5	86.0	* 53.5	63.2	39.2	33.0	* 31.7	28.9	65.5
3	38.0	* 52.4	62.8	* 59.7	89.1	52.6	* 58.8	38.3	32.5	30.6	28.5	67.0
4	37.9	58.7	62.4	56.0	* 92.8	53.3	46.1	39.4	32.0	29.4	28.2	* 65.6
5	* 36.7	60.3	61.2	55.1	95.1	53.0	42.5	42.6	31.5	* 28.3	27.8	67.1
6	35.8	60.8	* 62.8	* 53.3	90.0	51.2	40.8	43.9	31.0	27.5	* 27.5	66.2
7	35.4	59.3	62.5	53.5	91.9	49.9	39.9	* 44.4	30.5	26.7	28.1	* 67.8
8	35.2	60.1	58.9	52.3	* 93.7	51.2	39.4	43.3	30.0	25.9	28.6	67.1
9	* 36.0	61.4	59.2	52.7	94.7	44.9	40.3	* 44.0	29.5	* 25.1	29.2	67.5
10	49.1	62.1	59.1	* 51.7	96.6	34.8	* 41.1	43.0	29.0	25.4	29.8	71.7
11	50.5	62.9	58.9	52.1	82.1	37.0	40.5	43.0	* 28.5	25.7	30.4	* 47.1
12	50.1	62.7	58.5	51.8	82.3	* 49.2	38.9	41.8	28.5	26.0	* 30.9	29.2
13	56.4	* 63.4	* 59.4	52.2	83.3	48.3	38.8	42.0	28.5	26.2	* 31.5	26.7
14	79.5	63.9	58.4	52.5	93.2	35.6	40.1	* 44.2	* 28.5	26.5	31.4	25.8
15	52.3	64.2	55.2	53.2	* 96.0	34.7	39.8	44.0	28.1	26.8	31.2	25.2
16	* 48.9	63.4	58.8	54.6	92.0	34.4	41.6	43.4	27.8	* 27.1	31.1	25.0
17	64.6	63.2	56.1	* 54.0	87.4	33.2	* 41.4	42.5	27.4	27.1	31.0	23.8
18	94.6	61.2	56.9	52.0	80.9	35.9	40.8	41.0	* 27.0	27.1	30.8	* 24.3
19	39.8	62.3	57.8	52.6	60.2	* 38.5	40.7	39.9	27.6	27.1	30.7	24.0
20	41.3	* 61.7	* 59.8	53.8	55.3	37.9	* 39.9	41.9	28.3	27.0	30.5	25.5
21	47.1	60.9	55.3	59.7	55.2	37.3	39.0	* 41.6	28.9	* 27.0	* 30.4	24.6
22	46.7	62.1	56.1	57.9	* 54.5	38.6	40.2	41.3	29.5	27.0	29.5	24.7
23	* 46.5	61.2	55.7	56.4	54.9	37.3	42.2	40.4	30.1	27.0	28.7	24.9
24	45.5	61.5	56.6	* 57.0	54.6	38.0	* 42.9	39.7	30.8	27.4	27.8	25.0
25	45.3	62.3	58.1	56.4	57.5	43.6	40.3	40.2	* 31.4	27.8	26.9	24.5
26	45.5	61.8	53.5	55.9	55.2	63.4	39.5	41.4	31.4	28.2	26.1	* 24.0
27	45.1	62.6	* 53.7	59.0	54.3	58.2	37.6	42.2	31.5	28.7	* 25.2	23.1
28	46.0	63.2	54.2	56.9	56.0	59.3	38.8	* 43.0	31.5	29.1	27.8	24.5
29	45.6		54.0	56.3	55.8	54.3	37.9	42.3	60.6	29.5	27.5	22.3
30	* 44.5		53.0	54.3	54.2	59.6	39.2	37.1	31.6	* 29.9	26.8	23.1
31	45.0		55.4		52.6		38.9	34.7		29.6		23.1
Sum	1,459.3	1,688.6	1,798.1	1,645.1	2,321.6	1,367.4	1,313.1	1,284.4	930.0	860.1	872.0	1,184.3

Current Year 2006							Period 1968-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High	Day	Low	Day	Average	Total	Average	Maximum	Minimum
Jan.	1.480	1.035	18	113	9		33.0	47.1	126,084	134,218	352,875	32,306
Feb.	1.360	1.090	15	88.6	2		40.8	60.3	145,895	156,882	552,787	43,917
Mar.	1.350	1.070	! 6	86.6	30		38.1	58.0	155,356	182,431	563,328	25,779
April	1.320	1.070	21	81.2	!13		38.1	54.8	142,137	204,450	570,326	29,641
May	1.710	1.085	14	157	31		40.8	74.9	200,586	278,285	726,365	44,643
June	1.315	1.030	26	79.7	!14		32.3	45.6	118,143	217,964	594,778	23,750
July	1.315	1.035	2	80.0	!28		33.1	42.4	113,452	210,796	961,969	32,194
Aug.	1.130	1.030	7	47.6	31		32.4	41.4	110,972	215,038	916,834	70,131
Sept.	1.385	1.140	29	93.6	18		27.0	31.0	80,352	242,361	1,611,965	63,668
Oct.	1.105	1.090	! 1	31.7	9		25.1	27.7	74,313	253,568	1,099,958	59,953
Nov.	1.010	.990	13	31.5	27		25.2	29.1	75,341	154,649	704,160	56,497
Dec.	1.405	.940	8	97.6	29		20.3	38.2	102,324	133,989	356,400	32,314
Yearly	1.710	0.940		157			20.3	45.8	1,444,955	2,384,631	4,629,385	870,435

* Discharge measurement(s) made on this day ! And other days

08-4581.50 RIO ESCONDIDO AT VILLA DE FUENTE, COAHUILA

DESCRIPTION: Cableway, gravity well, concrete control weir of 50 CMS capacity and water-stage recorder located on the right bank of the Rio Escondido on the outskirts of Villa de Fuente, Coahuila, at latitude 28 40'05", longitude 100 31'00", about 5.0 kilometers southwest of Piedras Negras, Coahuila, 8.0 river kilometers from the confluence with the Rio Grande, and 10.9 river kilometers downstream from the confluence of Rio San Antonio with Rio Escondido. Rio Escondido enters the Rio Grande at river kilometer 794, 5.0 river kilometers downstream from the international highway bridge between Eagle Pass, Texas and Piedras Negras, Coahuila. The zero of the gage is 218.96 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 49 discharge measurements during the year, 44 by the Mexican Section and 5 by the U.S. Section, and a continuous record of gage heights. Records available: October 1932 through 2006.

REMARKS: Diversions and drainage returns modify the flow of this spring-fed stream at this station. Backwater from the Rio Grande reached an elevation of 222.48 meters during the flood of June 1954. Prior to November 1954, the gage well was located at the present cableway site. The weir was destroyed by a flood on September 24, 1964. On November 25, 1969, the concrete control weir was finished and placed in operation.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,600 CMS on April 5,2004 with a stage of 227.88 meters above mean sea level. Min. frequently no flow.

Average Flow in Cubic Meters per Second

Daily:	Max.	883	Apr. 5, 2004	Min.	0	Occasionally
Monthly:	Max.	67.6	Apr. 2004	Min.	0.01	Sept. 1965
Yearly:	Max.	10.0	2004	Min.	0.07	1956

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	* 1.48	1.46	1.51	0.80	0.52	0.22	0.55	0.05	0.03	0.22	0.25	0.26
2	1.46	1.46	1.35	.80	.65	* .21	.27	.04	.04	* .18	.27	.29
3	1.37	* 1.46	* 1.22	* .76	1.94	.20	* .22	.12	.04	.15	.30	.31
4	1.36	1.46	1.17	.72	.63	.18	.22	.65	.03	.15	.32	* .31
5	1.36	1.46	1.21	.72	.57	.16	.20	.15	.03	.15	.34	.34
6	* 1.36	1.46	1.21	.72	.54	.15	.17	.12	.03	.15	* .26	.34
7	1.36	1.46	1.16	.72	.47	.14	.16	* .08	.03	.15	.24	.36
8	1.36	1.46	1.16	.70	* .46	.12	.16	.07	.03	.14	.20	.39
9	1.41	1.46	1.16	.68	.46	.10	.17	.07	.03	* .14	.20	.39
10	1.41	1.46	1.16	* .64	.42	.10	* .10	* .05	.03	.14	.18	.39
11	1.42	1.46	1.16	.64	.36	.10	.10	.04	* .09	.14	.17	* .39
12	1.41	1.46	1.06	.64	.36	* .09	.10	.04	.05	* .14	.17	.39
13	* 1.46	* 1.46	* .86	.64	.38	.09	.10	.05	.11	.14	* .20	* .40
14	1.46	1.46	.84	.64	1.12	.11	.10	* .05	.06	.18	.24	.42
15	1.48	1.48	.84	.64	* 1.42	.10	.13	.04	.06	.22	.36	.44
16	1.48	1.66	.89	.74	.65	.14	.15	.05	.07	* .29	.42	.45
17	1.46	1.63	.93	* .68	.49	.14	* .12	.05	.13	.24	.43	.42
18	1.46	1.64	.92	.62	.43	.14	.11	.04	* .19	.24	.32	* .39
19	1.46	1.69	.82	.75	.38	* .13	.11	.03	.21	.22	.30	.39
20	1.46	* 1.69	* .80	.83	.36	.08	.11	.04	.13	.22	.30	.39
21	1.46	1.71	.80	1.03	.34	.07	.10	* .04	.11	.23	* .27	.39
22	1.46	1.71	.80	.76	* .33	.06	.08	.04	.09	.22	.24	.39
23	* 1.46	1.69	.80	.66	.31	.06	.16	.04	.09	* .22	.24	.42
24	1.46	1.69	.80	* .60	.30	.06	* .11	.04	.12	.23	.23	.49
25	1.46	1.69	.80	.60	* .29	.08	.08	.04	* .09	.28	.24	.45
26	1.46	1.69	.80	.60	.30	.08	.05	.04	.07	.30	.24	.44
27	1.46	1.63	* .80	.62	.30	.08	.05	.04	.07	.27	* .24	.45
28	1.46	1.63	.84	.61	.32	.08	.06	* .04	3.34	.25	.24	.45
29	1.46		.89	.58	.24	.07	.06	.03	3.05	.25	.25	.45
30	* 1.46		.89	.54	.23	.60	.06	.03	.33	* .24	.24	.45
31	1.46		.80		.22		.06	.02		.25		.45
Sum	44.54	43.67	30.45	20.68	15.79	3.94	4.22	2.23	8.78	6.34	7.90	12.29

	Current Year 2006						Period 1932-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High Day	Low Day	Average	Total	Average	Maximum	Minimum
Jan.	0.355	0.340	! 1	1.48 3	1.34	1.44	3,848	3,954	23,350	53.6
Feb.	.375	.350	!21	1.75 ! 1	1.46	1.56	3,773	3,129	17,803	48.4
Mar.	.360	.280	1	1.58 !18	.80	.98	2,631	2,714	14,070	114
April	.460	.240	19	2.97 30	.51	.69	1,787	5,072	175,246	100
May	.660	.175	14	7.38 31	.20	.51	1,364	4,508	31,418	190
June	.485	.110	30	3.40 23	.05	.13	340	3,516	31,888	74.3
July	.285	.110	1	.84 !25	.05	.14	365	3,100	32,694	64.8
Aug.	.420	.080	4	2.35 !28	.02	.07	193	4,312	37,135	0
Sept.	1.220	.080	28	33.9 5	.02	.29	759	5,788	60,665	21.6
Oct.	.200	.150	!25	.30 ! 9	.13	.20	548	6,101	49,084	53.6
Nov.	.230	.160	17	.45 15	.16	.26	683	4,705	31,743	53.6
Dec.	.340	.190	!24	1.36 1	.25	.40	1,062	4,185	27,140	82.9
Yearly	1.220	0.080		33.9	0.02	0.55	17,353	51,084	316,876	2,163

* Discharge measurement(s) made on this day ! And other days

08-4586.00 RETURN FLOW TO THE RIO GRANDE FROM THE MAVERICK IRRIGATION DISTRICT BELOW EAGLE PASS, TEXAS

DESCRIPTION: Part of the water diverted from the Rio Grande into the Maverick Canal is returned to the river through various drains and spillways of the irrigation system located between Eagle Pass, Texas and the El Indio Gaging Station. These return flows are measured at gaging stations consisting of sharp-crested Cipolletti weirs or control structures equipped with continuous water-stage recorders located at Canon Diablo, Lateral 50 Spill, Rosita Creek, Lateral 60-K Spill, Sauz Creek, Indio Creek, and Cuervo Creek.

RECORDS: Based on the weir discharge table, stable station control rating tables, and a continuous record of gage heights. All storm flow occurring at these stations is deducted from the records and is not shown below. Records available: April 1959 through 2006. Records computed by the U.S. Section of the Commission prior to 1996. Beginning in 1996, the Maverick County Irrigation District computes and provides the discharge data through the Texas Commission on Environmental Quality. Records prior to 1976 were published under the "Return Flow to the Rio Grande from Maverick Canal, Eagle Pass to San Antonio Crossing".

EXTREME FLOWS FROM RECORDS:

Average Flow in Cubic Meters per Second**

Daily:	Max.	9.91	July 5, 1968	Min.	0	Occasionally
Monthly:	Max.	7.00	July 1968	Min.	0	Nov. 2003
Yearly:	Max.	5.10	1971	Min.	0.03	2004

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.01	0.05	0.09	0.02	0.03	0.20	0.11	0.12	0.02	0.10	0.05	0.04
2	.02	.05	.07	.03	.03	.20	.11	.13	.02	.10	.05	.06
3	.03	.05	.05	.10	.02	.20	.11	.15	.01	.10	.22	.07
4	.06	.02	.05	.15	.02	.20	.12	.20	.01	.10	.37	.07
5	.05	.02	.08	.08	.06	.20	.12	.79	.07	.10	.28	.05
6	.04	.02	.10	.05	.05	.20	.12	.27	.13	.10	.17	.05
7	.09	.04	.10	.04	.09	.20	.12	.26	.17	.10	.10	.07
8	.04	.07	.06	.04	.10	.20	.12	.25	.16	.10	.06	.05
9	.05	.08	.07	.03	.09	.10	.12	.21	.10	.10	.03	.04
10	.12	.09	.07	.01	.08	.10	.12	.19	.09	.10	.02	.07
11	.11	.10	.03	.08	.04	.20	.12	.16	.07	.10	.01	.03
12	.05	.09	.03	.08	.03	.50	.13	.13	.13	.10	.01	.03
13	.03	.12	.03	.02	.03	.70	.14	.11	.17	.10	.01	.03
14	.03	.12	.02	.01	.03	0	.12	.10	.16	.10	0	.03
15	.08	.11	.06	.02	.03	0	.12	.12	.11	.10	.01	.06
16	.15	.07	.03	.02	.03	0	.12	.13	.07	.11	.07	.10
17	.16	.06	.03	.02	.03	0	.12	.10	.06	.12	.05	.10
18	.25	.06	.03	.03	.03	0	.12	.07	.12	.12	.04	.08
19	.35	.04	.03	.04	.03	0	.12	.07	.20	.12	.04	.08
20	.30	.03	.06	.03	.02	.10	.12	.05	.17	.12	.05	.08
21	.17	.07	.05	.03	.02	.80	.12	.05	.14	.11	.04	.05
22	.10	.07	.05	.04	.02	3.50	.12	.05	.12	.10	.03	.04
23	.09	.08	.06	.06	.02	2.50	.12	.09	.11	.10	.03	.04
24	.07	.09	.07	.05	.05	1.10	.12	.11	.10	.10	.03	.03
25	.05	.08	.10	.03	.11	.70	.14	.04	.10	.10	.08	.03
26	.03	.07	.10	.02	.12	.50	.13	.08	.10	.10	.10	.04
27	.02	.22	.11	.06	.07	1.50	.12	.11	.10	.10	.11	.05
28	.02	.23	.15	.14	.04	2.40	.12	.12	.10	.12	.14	.07
29	.11		.10	.09	.03	5.00	.12	.08	.10	.15	.16	.07
30	.18		.07	.05	.02	6.30	.13	.07	.10	.17	.15	.05
31	.11		.05		.02		.15	.08		.15		.04
Sum	2.97	2.20	2.00	1.47	1.39	27.60	3.79	4.49	3.11	3.39	2.51	1.70

	Current Year 2006						Period 1968-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.			19	0.35	1	0.01	0.10	257	4,357	15,700	8.6
Feb.			28	.23	! 4	.02	.08	190	3,633	13,204	0
Mar.			28	.15	14	.02	.06	173	4,749	14,401	0
April			4	.15	!10	.01	.05	127	5,152	18,066	44.9
May			26	.12	! 3	.02	.04	120	4,818	17,672	0
June			30	6.30	!14	0	.92	2,385	5,058	17,742	22.5
July			31	.15	! 1	.11	.12	327	4,912	18,723	31.1
Aug.			5	.79	25	.04	.14	388	4,617	14,290	60.5
Sept.			19	.20	! 3	.01	.10	269	3,898	11,301	51.8
Oct.			30	.17	! 1	.10	.11	293	3,634	10,138	23.3
Nov.			4	.37	14	0	.08	217	3,720	13,309	6.0
Dec.			16	.10	!11	.03	.05	147	3,893	15,785	34.6
Yearly				6.30		0	0.16	4,893	52,441	161,048	877

@ Mean daily ! And other days ** Period 1968-2006

08-4587.00 RIO GRANDE NEAR EL INDIO, TEXAS AND VILLA GUERRERO, COAHUILA

DESCRIPTION: Cableway, bubbler gage, concrete control weir, DCP with GOES high data rate telemetry and water-stage recorders (graphic and digital), located on the left bank at latitude 28 20'45", longitude 100 18'35", and river kilometer 741, 0.9 river kilometer downstream from Cuervo Creek, which marks the lower end of the Maverick County Water Control and Improvement District No. 1, 3.1 river kilometers upstream from Tovar Creek, 8.0 kilometers northeast of Villa Guerrero, Coahuila, about 18.5 kilometers south of El Indio, Maverick County, Texas, and 57.8 river kilometers downstream from the international highway bridge between Eagle Pass, Texas and Piedras Negras, Coahuila. The zero of the gage is 176.78 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 24 current-meter measurements during the year and a continuous record of gage heights. Computations for high flows by shifting control methods. Low and medium flow computations based on a stable control weir rating curve defined by current-meter measurements. Records available: March, April, May, October, November, and December 1952 with some days missing; January through August 20, 1953; September 23, 1953 through June 14, 1954; and May 27, 1955 through 2006 with several days missing prior to September 1955. Records prior to 1976 were published under the title "Rio Grande at San Antonio Crossing near El Indio, Texas."

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 25,800 CMS in June 1954, was determined by slope-area computation, with an elevation of 190.29 meters. Min. 1.54 CMS occurred on June 24, 1953 with an elevation of 177.38 meters at a station 518 meters upstream from the present site.

Average Flow in Cubic Meters per Second**

Daily:	Max.	4,310	August 25, 1998	Min.	9.26	June 29 & 30, 1972
Monthly:	Max.	617	Sept. 1974	Min.	14.2	June 1969
Yearly:	Max.	150	1974	Min.	35.0	1972

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	38.9	* 49.4	* 63.6	54.4	52.6	50.9	62.8	30.3	22.8	33.6	* 25.4	27.8
2	37.9	47.0	62.1	57.3	80.2	48.0	61.6	* 29.9	22.0	30.1	26.1	54.7
3	38.9	46.5	63.8	57.4	* 88.0	49.4	60.5	30.4	21.3	28.1	26.9	66.1
4	* 38.5	58.7	63.6	57.4	86.5	50.3	46.6	37.0	21.7	* 26.9	27.1	65.1
5	37.0	62.1	64.3	* 55.3	89.3	50.6	38.4	34.1	21.6	26.8	26.3	61.0
6	36.0	61.6	64.2	53.3	86.7	50.5	35.5	35.0	* 21.9	26.1	27.4	* 60.5
7	34.9	61.4	64.7	51.9	84.6	* 48.5	* 33.3	35.2	23.2	25.2	27.6	60.4
8	34.9	59.7	63.3	52.9	85.7	47.4	31.4	35.4	24.3	25.0	27.8	62.0
9	35.2	61.4	60.8	52.3	86.6	49.0	31.8	34.3	24.1	25.0	26.6	61.1
10	42.9	61.4	60.7	52.9	86.0	31.2	31.9	35.9	23.5	25.6	27.0	64.6
11	52.7	62.7	59.6	52.4	81.1	29.2	31.5	33.9	33.0	25.5	27.7	65.9
12	51.4	62.2	60.1	52.8	74.5	44.2	30.0	32.0	29.2	24.9	27.1	34.9
13	49.6	62.0	60.6	52.7	76.3	48.2	27.3	31.2	30.1	25.4	26.7	27.3
14	77.4	61.6	58.5	53.6	86.8	33.5	28.7	31.9	28.1	26.7	27.3	26.4
15	64.5	* 61.3	57.3	54.1	112	28.5	28.5	33.6	26.9	26.7	* 25.0	25.9
16	52.2	62.6	* 56.7	55.4	88.2	29.5	29.2	* 32.3	26.1	27.2	26.0	25.8
17	49.9	63.0	58.7	56.0	* 85.0	28.5	30.0	31.5	33.6	28.1	25.4	25.8
18	96.6	63.6	55.6	54.6	81.6	29.9	30.9	30.8	72.9	* 28.6	27.4	25.0
19	* 61.6	62.3	56.8	* 53.9	70.4	32.5	* 30.9	29.8	36.1	28.2	27.2	25.2
20	38.4	62.3	60.0	57.7	51.8	31.9	29.4	29.2	* 31.5	27.7	28.1	* 25.9
21	51.4	62.0	54.4	59.0	50.6	* 30.1	28.7	30.2	30.3	27.7	27.0	25.4
22	49.9	61.3	57.7	62.0	50.8	31.3	28.6	29.3	30.4	27.4	28.2	25.2
23	50.0	62.3	55.8	57.9	50.7	30.3	29.8	28.8	30.1	26.9	26.1	26.2
24	46.9	61.4	56.4	57.0	51.0	30.5	33.9	28.0	30.1	27.1	27.9	29.2
25	46.1	62.9	57.7	56.9	51.0	33.2	32.5	27.5	36.6	28.0	29.1	27.7
26	45.7	62.1	57.6	56.7	52.6	51.9	31.2	28.1	33.3	28.7	30.7	27.0
27	46.5	62.3	53.8	55.4	51.0	60.6	28.9	28.8	28.8	27.4	29.0	26.5
28	47.4	62.6	56.2	56.6	52.1	56.1	30.1	29.8	26.4	27.2	31.0	25.4
29	47.8		54.1	54.3	54.2	57.2	27.6	30.3	39.8	27.1	28.7	27.3
30	48.9		54.9	52.4	53.7	52.2	29.9	30.3	43.3	26.8	28.6	25.3
31	45.3		56.0		52.7		31.1	25.1		26.0		26.0
Sum	1,495.3	1,689.7	1,829.6	1,656.5	2,204.3	1,245.1	1,062.5	969.9	903.0	841.7	822.4	1,182.6

	Current Year 2006								Period 1968-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters			
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	2.290	1.900	18	113	10	32.9	48.2	129,194	143,163	344,184	44,366
Feb.	2.175	1.960	17	82.9	3	42.5	60.3	145,990	165,727	548,741	57,378
Mar.	2.170	1.965	7	83.6	31	39.8	59.0	158,077	189,929	567,475	46,184
April	2.150	1.950	22	80.7	7	38.7	55.2	143,122	218,105	584,928	46,115
May	2.440	1.940	15	168	1	38.0	71.1	190,452	294,675	740,332	62,566
June	2.095	1.830	27	78.4	15	25.7	41.5	107,577	232,345	681,150	36,768
July	2.085	1.805	2	76.8	29	23.5	34.3	91,800	220,030	972,830	45,920
Aug.	1.910	1.800	4	40.7	31	23.6	31.3	83,799	224,635	1,016,428	77,147
Sept.	2.245	1.775	18	117	3	20.6	30.1	78,019	254,181	1,598,663	72,300
Oct.	1.890	1.805	1	36.3	! 8	23.5	27.2	72,723	264,560	1,064,503	54,458
Nov.	1.870	1.800	28	32.6	15	21.9	27.4	71,055	166,200	681,981	54,285
Dec.	2.155	1.820	3	83.8	18	23.3	38.1	102,177	140,852	341,125	46,189
Yearly	2.440	1.775		168		20.6	43.6	1,373,985	2,514,402	4,731,321	1,105,710

* Discharge measurement(s) made on this day ! And other days ** Period 1968-2006

08-4590.00 RIO GRANDE AT LAREDO, TEXAS AND NUEVO LAREDO, TAMAULIPAS

DESCRIPTION: Bubbler gage and water-stage recorder (graphic and digital), DCP with GOES high data rate telemetry located at the Lincoln Juarez International Bridge on the left bank at latitude 27 30'05", longitude 99 30'13" and river kilometer 580. The zero of the gage is 107.12 meters above mean sea level U. S. C. & G. S. datum.

RECORDS: Based on 22 current-meter measurements during the year made from the bridge and a continuous record of gage heights. Computations by shifting control methods. Records available: May 1900 through 1913 (gage height records only) January through March 1914; May, June, and October 1914; September 1916; September and October 1917; October 1918; September and October 1919; August and September 1920; June, November, and December 1922; 1923 through March 2, 1989 at a station 1.3 kilometers downstream of present site; March 3, 1989 through May 1990 at a station 0.5 kilometer upstream of present site; and June 1990 through 2006 at the present site.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 20,300 CMS on June 30, 1954 was determined by slope-area calculations, with a gage height of 18.44 meters at a site 0.5 kilometer upstream. Well authenticated information established the occurrence of a greater flood in 1865 with a gage height of 19.05 meters on a gage 1.3 kilometers downstream with a discharge of approximately 27,000 CMS. These were only floods since 1745 with flows greater than 17,000 CMS. Min. No flow several days in June and July 1953, and July 24, 1956.

Average Flow in Cubic Meters per Second**

Daily:	Max.	3,270	June 30, 1971	Min.	7.00	July 2, 1972
Monthly:	Max.	579	Sept. 1974	Min.	14.1	June 1969
Yearly:	Max.	152	1974	Min.	38.2	1972

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.6	* 51.1	* 72.3	51.4	59.5	54.0	53.3	29.4	25.4	48.0	* 26.8	28.7
2	41.4	51.3	71.5	51.0	* 61.2	* 54.3	56.8	* 28.7	22.9	31.7	26.3	28.9
3	39.5	49.2	68.1	52.4	96.3	50.9	55.1	27.4	21.7	29.0	25.9	31.5
4	* 40.0	47.7	70.6	51.5	125	51.8	55.1	30.6	21.2	* 25.8	26.5	64.4
5	40.2	57.2	70.6	* 54.0	124	52.1	50.6	39.2	20.5	25.2	27.1	* 68.0
6	40.4	64.5	71.0	51.6	122	52.9	* 41.0	34.1	* 21.1	24.6	27.1	67.5
7	38.8	65.8	68.8	50.9	116	53.0	35.5	32.2	21.6	24.5	27.1	73.4
8	37.6	65.3	69.0	48.9	118	51.8	33.4	33.2	21.3	24.2	28.4	76.5
9	37.1	64.5	67.8	49.1	121	48.5	32.2	33.2	22.2	23.8	28.2	74.7
10	37.4	66.1	63.4	49.4	96.5	49.2	29.7	32.3	23.9	23.8	29.1	73.2
11	38.0	67.2	63.9	50.0	75.0	44.8	30.0	32.2	27.0	23.5	27.5	76.1
12	52.9	68.3	62.8	49.7	73.5	32.6	30.3	31.9	34.7	23.0	27.9	81.1
13	53.1	68.5	63.2	49.3	64.1	32.0	29.7	32.1	81.3	79.2	28.5	56.8
14	51.2	69.4	* 57.8	48.4	113	45.8	28.2	30.1	35.1	140	28.7	41.1
15	68.5	* 68.0	54.2	48.7	143	40.3	27.0	30.2	31.1	43.7	* 28.4	37.7
16	83.5	67.9	55.2	49.2	156	26.9	28.6	* 30.8	28.3	27.7	28.1	37.8
17	54.4	69.7	54.5	50.8	* 97.5	24.8	28.3	31.0	34.5	28.6	26.4	37.1
18	* 52.0	70.2	57.1	51.1	91.5	24.9	28.6	30.0	37.8	* 29.0	27.6	37.9
19	95.2	69.5	54.5	* 50.9	87.5	24.6	28.9	29.3	100	30.1	27.6	39.1
20	93.2	69.0	55.8	49.2	74.9	25.4	28.3	28.2	* 43.7	29.2	29.7	* 39.9
21	44.9	69.2	56.8	53.4	53.2	26.3	27.0	27.1	32.9	29.2	29.2	39.4
22	49.1	69.3	55.5	54.2	50.9	25.5	27.0	26.4	29.2	29.1	30.5	39.6
23	53.5	69.0	54.8	59.5	50.9	25.1	26.8	27.6	28.0	29.2	29.2	51.6
24	52.9	70.7	53.5	55.0	51.1	25.9	28.3	27.0	93.9	28.6	30.2	51.1
25	51.8	71.3	53.4	55.5	51.7	25.6	29.2	25.6	32.7	28.4	27.3	42.6
26	50.7	71.7	54.5	56.7	50.9	28.3	32.5	25.1	29.5	28.9	28.8	42.9
27	50.9	69.8	56.0	55.3	53.8	33.5	29.6	24.9	34.8	29.4	30.5	40.8
28	51.4	69.6	51.6	56.0	52.2	52.3	29.9	25.3	28.7	28.2	32.1	40.4
29	52.0		58.4	60.8	52.3	47.7	29.6	25.6	74.9	27.2	30.3	39.8
30	52.2		53.6	59.5	55.1	50.8	29.3	26.2	63.4	27.2	31.7	43.5
31	52.2		52.4		55.5		28.8	27.3		26.8		40.7
Sum	1,831.0	1,597.6	1,872.6	1,573.4	2,593.1	1,181.6	1,048.6	914.2	1,123.3	1,046.8	852.7	1,543.8

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Total	Period 1968-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	1.395	0.725	19	137	11	35.9	51.5	138,033	146,552	352,918	44,185
Feb.	1.040	.760	14	85.1	4	42.7	65.4	158,198	170,979	555,809	48,383
Mar.	1.050	.805	1	84.7	31	44.4	60.4	161,793	195,403	609,638	45,757
April	.980	.775	29	71.9	15	41.3	52.4	135,942	221,716	640,138	43,304
May	2.645	.770	14	402	23	45.7	83.6	224,044	314,594	817,599	110,911
June	.905	.525	29	62.2	!17	24.2	39.4	102,090	260,573	857,878	36,616
July	.930	.570	1	65.9	21	25.8	33.8	90,599	227,029	1,034,298	39,804
Aug.	.755	.535	4	44.2	26	24.1	29.5	78,987	231,398	979,770	67,452
Sept.	2.065	.485	24	284	5	20.3	37.4	97,053	267,348	1,500,845	77,026
Oct.	2.355	.540	13	341	!12	22.5	33.8	90,444	297,471	1,180,391	50,993
Nov.	.620	.520	28	33.6	3	25.2	28.4	73,673	169,087	723,165	53,153
Dec.	1.020	.550	23	92.6	3	26.7	49.8	133,384	143,770	379,380	48,064
Yearly	2.645	0.485		402		20.3	47.1	1,484,240	2,645,920	4,799,562	1,209,723

* Discharge measurement(s) made on this day ! And other days ** Period 1968-2006

08-4597.00 RIO SALADO NEAR LAS TORTILLAS, TAMAULIPAS

DESCRIPTION: Cableway, control weir with notch opening of 72 CMS capacity, gravity well, and water-stage recorder located on the right bank at latitude 26 50'10", longitude 99 33'50", 3 river kilometers downstream from the confluence of Rio Sabinas with Rio Salado, 10 kilometers southeast of the town of Las Tortillas, Tamaulipas, and 39.8 river kilometers from the confluence with the Rio Grande. This stream enters the Rio Grande at river kilometer 482, 39.8 river kilometers upstream from Falcon Dam. The zero of the gage is 99.28 meters above mean sea level, U . S. C. & G. S. datum. Since July 1996, the actual measurements and record of gage heights have been obtained at the Nuevo Laredo to Reynosa Highway Bridge approximately 39.7 kilometers downstream from the gaging station near Las Tortillas. The zero of the gage at the Bridge is at mean sea level, U.S.C. and G.S. datum.

RECORDS: Based on 7 discharge measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: September 9, 1953 through 2006. Records are also available for a station at old Cd. Guerrero, 30 kilometers downstream, from 1900 through 1913 and 1923 through September 8, 1953.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 1,840 CMS on September 16, 1971, with a gage height of 12.31 meters. Min. frequently no flow. Extreme flow data for the Rio Salado at Cd. Guerrero prior to September 8, 1953 may be found in previous bulletins.

Average Flow in Cubic Meters per Second**

Daily:	Max.	1,780	Sept. 16, 1971	Min.	0	Frequently
Monthly:	Max.	384	Sept. 1971	Min.	0	Frequently
Yearly:	Max.	93.9	1971	Min.	1.08	1994

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.18	2.08	1.80	2.58	2.40	* 1.08	0.84	0.90	0	35.7	1.63	1.23
2	2.15	2.00	1.80	2.15	1.93	.95	.70	.80	0	54.9	1.60	1.18
3	2.28	1.95	1.78	1.80	1.75	.83	.75	.80	0	21.6	1.60	1.18
4	2.30	1.93	1.68	1.60	* 1.53	.98	.93	.75	0	6.10	1.60	1.25
5	2.30	1.90	1.58	1.58	1.35	1.08	1.05	.65	0	4.26	1.59	1.30
6	2.30	1.95	1.50	1.43	1.35	.98	1.05	3.18	0	3.92	1.55	1.29
7	2.20	1.90	1.50	1.30	1.33	.93	1.55	5.21	0	6.51	1.51	1.34
8	2.08	1.90	1.58	1.28	1.65	.85	2.23	2.19	0	2.44	1.53	1.53
9	2.00	1.90	1.58	1.38	1.50	.70	2.15	1.83	0	1.98	1.50	1.65
10	2.03	1.93	1.55	1.33	1.38	.50	2.97	1.85	0	1.73	1.48	1.60
11	2.05	1.93	1.55	1.30	1.13	.30	2.16	1.58	0	1.65	1.39	1.60
12	2.10	1.90	1.48	1.33	1.05	.20	1.63	1.33	49.7	4.51	1.39	1.60
13	2.10	1.90	1.43	1.30	.93	.08	1.35	1.08	290 *	9.27	1.40	1.63
14	2.15	1.90	1.43	1.15	3.26	.18	1.18	.73	197 *	32.5	1.41	1.58
15	2.03	1.90	1.50	1.00	12.8	.25	.93	.53	* 44.6	18.5	1.38	1.50
16	1.93	1.83	1.58	1.03	13.5	.25	.85	.45	15.5	9.33	1.29	1.45
17	1.90	1.78	1.53	1.15	9.20	.13	.80	.50	12.2	6.97	1.31	1.40
18	1.90	1.78	1.63	* 1.15	4.19	.05	.75	.45	* 24.1	8.05	1.25	1.40
19	1.85	1.88	1.60	1.18	3.24	.05	.73	.35	25.0	3.23	1.25	1.40
20	1.88	1.90	1.58	1.05	4.00	.10	.60	.30	19.9	2.73	1.25	1.43
21	1.80	1.98	1.60	.93	2.70	0	.45	.25	9.92	2.50	1.29	1.40
22	1.80	2.08	1.65	.88	2.20	0	.33	0	5.32	2.33	1.26	1.40
23	1.80	2.13	1.68	.88	1.68	0	.23	0	3.25	2.28	1.25	1.40
24	1.80	2.05	1.70	.88	1.45	0	.18	0	5.55	2.12	1.23	1.93
25	1.88	2.00	1.70	.93	1.33	0	.23	0	22.4	1.98	1.23	2.27
26	1.93	1.93	1.73	4.76	1.20	1.30	.25	0	34.9	1.90	1.24	1.83
27	2.00	1.80	1.78	3.75	1.08	1.28	.80	0	57.5	1.99	1.28	1.63
28	2.00	1.83	1.85	3.64	.98	1.18	.95	0	65.7	2.98	1.26	1.58
29	2.00		1.93	1.99	.95	1.25	.83	0	66.2	1.91	1.26	1.48
30	2.08		1.85	1.79	1.00	1.10	.85	0	54.0	1.75	1.26	1.45
31	2.15		2.03		1.18		.93	0		1.67		1.50
Sum	62.95	53.94	51.16	48.50	85.22	16.58	31.23	25.71	1,002.74	259.29	41.47	46.41

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1953-2006: Average	Maximum	Minimum
Jan.	89.230	89.180	3.30	! 3	1.80	!20	2.03	5,439	9,242	73,777	0
Feb.	89.220	89.170	2.20	23	1.70	!17	1.93	4,660	7,386	82,495	0
Mar.	89.250	89.140	2.50	31	1.40	!12	1.65	4,420	5,148	36,628	0
April	89.660	89.080	10.8	26	.80	!22	1.62	4,190	12,286	250,373	0
May	89.810	89.070	14.5	16	.70	14	2.75	7,363	26,508	447,500	0
June	89.180	89.000	1.80	26	0	!19	.55	1,433	28,523	304,451	0
July	89.340	89.010	3.80	10	.10	!23	1.01	2,698	27,836	544,635	0
Aug.	89.590	89.000	8.80	6	0	!21	.83	2,221	22,086	259,070	0
Sept.	95.020	89.000	388	13	0	! 1	33.4	86,637	81,897	996,183	2,373
Oct.	90.440	89.160	71.4	2	1.60	!10	8.36	22,403	52,951	679,329	136
Nov.	89.165	89.120	1.65	1	1.20	!18	1.38	3,583	24,482	416,863	0
Dec.	89.250	89.115	2.50	24	1.15	3	1.50	4,010	14,790	217,244	0
Yearly	95.020	89.000	388		0		4.73	149,057	313,135	2,961,050	34,122

* Discharge measurement(s) made on this day ! And other days ** Period September 1953-2006

08-4613.00 RIO GRANDE BELOW FALCON DAM NEAR FALCON, TEXAS AND NUEVA CD. GUERRERO, TAMAULIPAS

DESCRIPTION: The discharges reported below represent water measured as it leaves Falcon Reservoir through turbine penstocks, bypass valves, spillway gates, and leakage. Falcon Dam, astride the Rio Grande, is located at latitude 26 33'35", longitude 99 10'00", and river kilometer 442; about 11.3 kilometers southwest of Falcon, Starr County, Texas and 139 river kilometers downstream from the old international highway bridge between Laredo, Texas and Nuevo Laredo, Tamaulipas. A bubbler gage and water stage recorder (graphic and digital), DCP with GOES high data rate telemetry located 4.1 river kilometers downstream, and a cableway located 1.6 kilometers farther downstream are used to measure the flow of this station at times when spillway gates are in operation.

RECORDS: Based on daily Simplex meter records of releases through the six turbines, established rating curves for the four hollow-jet bypass valves, estimates of gate leakage, measurements of flow at the cableway during spillway gate operations, and DCP with GOES high data rate telemetry. During 2006 there were 4 current-meter measurements made at the cableway by the United States Section. Records available: 1958 through 2006. Records are also available from December 17, 1952 through 1957 for a station at Chapeno, 4.1 kilometers downstream, where discharges included arroyo inflow below Falcon Dam. This inflow is eliminated from the records reported below.

REMARKS: Computation of flow was made jointly by the United States and Mexican Sections of the Commission from a consolidation of the basic data gathered by each Section incident to the international operation of Falcon Reservoir.

EXTREME FLOWS FROM RECORDS:** Momentary: Max. 2,340 CMS on September 18, 1971. Min. 0.04 CMS on March 24 and 25, 1957 (at Chapeno gaging station).

Average Flow in Cubic Meters per Second**

Daily:	Max.	2,160	Sept. 18, 1971	Min.	0.04	March 24 & 25, 1957
Monthly:	Max.	920	Oct. 1958	Min.	0.67	Nov. 1973
Yearly:	Max.	196	1958	Min.	22.5	2004

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	81.4	61.6	40.6	53.1	225	48.1	62.5	47.9	51.3	21.6	23.1	28.0
2	89.7	48.0	45.7	65.5	225	42.8	66.8	43.7	63.0	26.2	25.6	31.5
3	85.9	63.1	50.3	72.9	230	43.0	64.4	45.1	62.8	26.5	24.5	37.6
4	97.3	63.0	48.2	87.0	224	50.4	45.4	40.4	63.8	26.5	24.2	35.5
5	105	65.2	50.1	106	234	47.9	25.3	40.5	71.2	23.3	27.8	37.5
6	97.0	60.9	57.7	135	228	40.5	35.5	43.9	75.5	27.1	28.9	40.5
7	81.2	55.5	64.3	143	214	27.8	37.9	41.9	79.0	30.4	26.2	45.9
8	83.0	53.1	90.8	120	193	36.0	38.1	31.1	74.4	23.0	45.3	30.3
9	82.9	50.6	100	122	188	46.9	40.3	32.3	65.6	27.8	54.5	27.1
10	58.2	52.9	79.7	120	187	40.5	22.8	30.6	56.7	30.4	33.5	24.4
11	45.5	55.3	65.1	98.3	162	52.8	20.4	33.6	46.9	27.1	37.4	30.7
12	43.9	59.9	76.4	92.7	141	58.0	20.4	36.0	33.9	22.1	32.6	25.6
13	62.9	63.2	75.2	145	146	53.0	20.4	36.4	27.6	23.1	30.2	19.3
14	65.6	62.7	55.6	219	138	65.4	21.3	38.2	20.4	15.0	32.0	17.9
15	58.1	67.9	62.8	251	120	80.5	25.2	42.7	15.5	10.0	25.5	22.7
16	48.0	63.9	83.8	265	65.7	78.1	31.0	46.1	15.5	17.4	27.8	26.4
17	51.4	58.8	84.5	262	25.5	75.6	37.2	53.2	17.1	30.1	31.4	27.0
18	87.7	55.4	99.5	256	33.0	75.3	35.4	60.5	14.3	19.4	34.9	25.7
19	81.3	55.3	126	244	* 39.1	77.9	41.4	55.5	10.5	14.5	39.4	21.6
20	60.3	57.7	128	277	49.5	80.7	49.8	64.9	10.5	19.4	36.6	24.0
21	68.0	55.7	120	296	54.0	90.4	52.0	67.4	13.0	20.4	28.9	20.0
22	63.1	43.9	138	313	45.8	106	50.4	76.5	10.5	16.5	25.5	17.9
23	58.2	45.3	123	307	25.6	95.8	52.3	77.3	10.5	20.9	22.9	24.2
24	* 64.5	48.2	87.8	271	40.4	87.8	51.5	65.5	10.5	27.9	27.0	33.1
25	70.1	52.3	80.0	257	52.6	94.8	46.8	70.1	8.50	27.3	36.3	19.4
26	58.0	46.3	82.9	263	80.5	97.9	42.0	61.0	10.5	24.5	36.9	22.9
27	55.9	43.0	76.1	231	78.0	90.4	36.8	53.2	12.5	24.3	38.5	20.3
28	58.8	37.9	75.2	208	60.6	82.5	38.7	50.4	12.5	23.6	* 41.5	17.1
29	62.3		64.0	215	67.8	75.2	42.0	45.3	11.5	25.7	37.5	17.0
30	59.0		42.2	229	58.1	80.0	45.7	50.5	16.5	27.5	* 31.9	18.4
31	58.7		45.0		40.5		43.5	48.9		25.0		21.0
Sum	1,546.6	2,142.9	2,418.5	5,724.5	3,671.7	2,022.0	1,243.2	1,530.6	992.00	724.5	968.3	810.5

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second @ High Day	@ High	@ Low Day	@ Low	Average	Volume-Thousand Cubic Meters Total	Period 1954-2006: Average	Maximum	Minimum
Jan.			5	105	12	43.9	69.1	185,147	233,236	664,934	12,802
Feb.			15	67.9	28	37.9	55.2	133,626	161,814	453,153	13,796
Mar.			22	138	1	40.6	78.0	208,958	159,985	487,987	27,900
April			22	313	1	53.1	191	494,597	395,585	861,235	14,541
May			5	234	17	25.5	118	317,235	426,812	882,527	16,061
June			22	106	7	27.8	67.4	174,701	284,874	830,101	24,322
July			2	66.8	!11	20.4	40.1	107,412	183,549	482,117	15,837
Aug.			23	77.3	10	30.6	49.4	132,244	236,542	1,823,919	54,821
Sept.			7	79.0	25	8.50	33.1	85,709	165,793	1,333,232	1,761
Oct.			7	30.4	15	10.0	23.4	62,597	218,919	2,463,696	2,383
Nov.			9	54.5	23	22.9	32.3	83,661	118,437	1,391,291	1,727
Dec.			7	45.9	29	17.0	26.1	70,027	107,951	573,923	10,807
Yearly				313		8.50	65.2	2,055,914	2,693,497	6,188,898	712,668

* Discharge measurement(s) made on this day @ Mean daily ! And other days

** Period 1954-2006

08-4620.00 RIO ALAMO AT CD. MIER, TAMAULIPAS

DESCRIPTION: Cableway, reinforced concrete weir of 5 CMS capacity, gravity well, and water-stage recorder located on the right bank at a point called "El Paso del Cantaro," latitude 26 27'02", longitude 99 09'06", about 1.0 kilometer north of Cd. Mier, Tamaulipas, and 8.0 river kilometers from the confluence with the Rio Grande. This stream enters the Rio Grande at river kilometer 422, 20.0 river kilometers downstream from Falcon Dam. The weir is located about 91 meters downstream from the recorder. The zero of the gage is at mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on the weir discharge table at low flows, 7 current meter measurements during the year, and a continuous record of gage heights. High flow computations by shifting control methods. Records available: July 1923 through 2006.

REMARKS: Reservoirs and irrigation diversions modify the flow of this spring-fed stream at this station. Las Blancas Dam, located upstream from the station, was completed in 2001. This Dam diverts water to Marte Gomez Reservoir in the Rio San Juan Basin for additional conservation storage. On June 11, 1952, the zero of the gage was raised 0.40 meters to make it coincide with the weir crest elevation. Prior to January 1, 1969, the zero of the gage was 57.41 meters above mean sea level, U. S. C. & G. S. datum.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 4,100 CMS on September 11, 1948, with a stage of 67.64 meters above mean sea level. Min. periods of no flow occur frequently.

Average Flow in Cubic Meters per Second

Daily:	Max.	2,470	Sept. 11, 1948	Min.	0	Frequently
Monthly:	Max.	207	Sept. 1967	Min.	0	Frequently
Yearly:	Max.	23.7	1967	Min.	0.21	2000

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	4.50	3.75	3.25	0	1.10	* 1.08	1.09	0.60	2.13	1.20	1.20	1.20
2	4.50	3.62	3.25	0	1.10	1.10	1.10	.60	1.53	1.20	1.20	1.24
3	4.50	3.50	2.87	0	1.08	1.10	1.10	.60	1.38	1.21	1.20	1.29
4	4.50	3.50	3.13	0	* 1.00	1.10	1.09	.60	1.40	1.78	1.20	1.30
5	4.50	3.50	3.22	0	1.00	1.10	1.05	.60	1.40	4.18	1.20	1.30
6	4.50	3.50	3.37	0	1.00	1.10	1.05	.60	1.40	2.96	1.20	1.30
7	4.50	3.50	3.37	0	1.00	1.10	1.09	.60	1.40	1.48	1.20	1.38
8	4.50	3.50	3.12	0	1.00	1.10	1.10	.60	1.48	1.33	1.20	1.35
9	4.50	3.50	3.12	0	1.00	1.10	1.08	.58	3.72	1.30	1.20	1.30
10	4.50	3.50	3.06	0	1.00	1.10	1.03	.50	1.90	1.30	1.20	1.30
11	4.50	3.50	3.12	0	1.00	1.10	1.03	.50	1.40	1.30	1.20	1.30
12	4.31	3.50	3.12	0	1.00	1.10	1.03	.50	8.08	1.30	1.20	1.30
13	3.75	3.50	2.95	0	1.00	1.10	1.00	.50	3.48	10.6	1.20	1.30
14	3.75	3.50	3.00	0	1.00	1.10	1.03	.50	* 1.63	11.2	1.20	1.30
15	3.75	3.50	3.06	.30	1.00	1.10	1.04	.50	1.50	1.69	1.20	1.30
16	3.75	3.50	3.09	1.00	3.25	1.10	1.05	.50	1.50	1.50	1.20	1.30
17	3.75	3.50	3.12	1.00	1.50	1.10	1.05	.50	1.50	1.31	1.20	1.30
18	3.75	3.50	3.09	1.00	1.00	1.10	1.05	.50	1.50	1.25	1.20	1.30
19	3.75	3.50	3.00	1.00	1.00	.98	1.05	.55	1.50	1.21	1.20	1.30
20	3.75	3.50	3.00	* 1.00	1.00	1.00	1.04	.55	1.50	1.16	1.20	1.30
21	3.75	3.50	2.94	1.10	1.00	1.04	1.04	.58	1.50	1.17	1.20	1.30
22	3.75	3.47	3.03	1.08	1.00	1.05	1.05	.60	1.50	1.25	1.20	1.30
23	3.75	3.38	3.03	1.56	1.00	1.05	1.05	.60	1.50	1.25	1.20	1.38
24	3.75	3.38	3.00	1.08	1.00	1.05	1.09	.60	7.34	1.25	1.20	2.21
25	3.75	3.38	3.00	1.05	1.00	1.05	1.10	.60	4.61	1.29	1.20	1.30
26	3.75	3.38	3.00	1.05	1.00	1.05	1.10	.60	1.35	1.26	1.20	1.30
27	3.75	3.28	.95	1.03	1.00	1.08	1.08	.60	1.30	1.21	1.20	1.30
28	3.75	* 3.25	.05	1.10	1.00	1.09	.70	.60	1.30	1.20	1.20	1.30
29	3.75		0	1.00	1.00	1.09	.60	* .42	1.35	1.24	1.20	1.30
30	3.75		0	1.10	1.00	1.08	.60	* 2.03	1.23	1.25	1.20	1.31
31	3.75		0		1.00		.60	2.13		1.25		1.38
Sum	125.06	97.39	81.31	16.45	34.03	32.39	31.16	20.34	64.31	64.08	36.00	41.34

	Current Year 2006						Period 1924-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	High	Day	Low	Day	Average	Total	Average	Maximum	Minimum
Jan.	57.700	57.670	4.50	! 1	3.75	!12	4.03	10,805	2,139	43,079	0
Feb.	57.670	57.650	3.75	1	3.25	!27	3.48	8,414	2,549	65,959	0
Mar.	57.685	57.400	4.12	6	0	!28	2.62	7,025	2,088	24,456	0
April	57.710	57.400	4.75	23	0	! 1	.55	1,421	5,170	44,665	0
May	57.660	57.500	3.50	16	1.00	! 3	1.10	2,940	8,840	168,990	0
June	57.510	57.470	1.10	! 1	.70	19	1.08	2,798	10,097	102,675	0
July	57.510	57.460	1.10	! 1	.60	!28	1.01	2,692	7,438	93,487	0
Aug.	57.610	57.440	2.25	!30	.40	29	.66	1,757	16,662	253,778	0
Sept.	58.140	57.520	20.0	12	1.20	30	2.14	5,556	36,855	535,810	167
Oct.	58.850	57.440	66.0	13	.40	20	2.07	5,537	16,791	238,962	0
Nov.	57.700	57.520	1.20	2	1.20	! 1	1.20	3,110	3,664	31,041	0
Dec.	57.700	57.520	4.50	24	1.20	! 1	1.33	3,572	2,656	19,714	0
Yearly	58.850	57.400	66.0		0		1.76	55,627	114,949	747,096	6,479

* Discharge measurement(s) made on this day ! And other days

08-4642.00 RIO SAN JUAN AT CAMARGO, TAMAULIPAS

DESCRIPTION: Cableway, gravity well, and water-stage recorder located on the left bank opposite Camargo, Tamaulipas at latitude 26 18'40", longitude 98 50'15", 5.0 river kilometers from the confluence with the Rio Grande, and 15.0 river kilometers downstream from Marte R. Gomez Dam. This stream enters the Rio Grande at river kilometer 384; 6.0 river kilometers upstream from the Rio Grande at Rio Grande City gaging station, 58.1 river kilometers downstream from Falcon Dam. The zero of the gage is at mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on a continuous record of gage heights. Computations by shifting control methods. Discharge prorated between measurements during times of extremely low flow. Records available: 1954 through 2006.

REMARKS: Except for storm inflow, diversions, and drainage returns below Marte R. Gomez Dam, the flow at this station is controlled by spills from Marte R. Gomez Reservoir and leakage through the dam. Backwater from the Rio Grande frequently reaches this station. Prior to July 1, 1968 the zero of the gage was 39.76 meters above mean sea level, U. S. C. & G. S. datum.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 3,270 CMS on September 25,1967 with a stage of 52.57 meters above mean sea level. Min. no flow occurs frequently.

Average Flow in Cubic Meters per Second

Daily:	Max.	3,250	Sept. 25, 1967	Min.	0	Frequently
Monthly:	Max.	894	Sept. 1967	Min.	0	Frequently
Yearly:	Max.	113	1967	Min.	0.02	1992

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	18.2	0	* 34.3	98.0	0	0	0	0	0	0	0	0
2	10.5	0	35.4	102 *	0	0	0	0	0	0	0	0
3	6.75	0	* 35.6	107 *	0	0	0	0	0	0	0	0
4	3.15	0	* 38.7	106	0	0	0	0	0	0	0	0
5	2.85	0	* 42.5	105 *	0	0	0	0	0	0	0	0
6	3.30	0	* 41.4	103 *	0	0	0	0	0	0	0	0
7	2.85	0	39.0	128 *	0	0	0	0	0	0	0	0
8	2.25	0	* 40.8	208 *	0	0	0	0	0	0	0	0
9	9.80	0	59.6	213 *	0	0	0	0	0	0	0	0
10	32.9	0	* 76.2	183 *	0	0	0	0	0	0	0	0
11	22.8	0	* 94.8	119 *	0	0	0	0	0	0	0	0
12	31.6	0	121 *	104 *	0	0	0	0	6.80	0	0	0
13	52.8	0	121 *	123 *	0	0	0	0	6.58	0	0	0
14	46.8	0	107 *	104 *	0	0	0	0	2.53	0	0	0
15	34.6	0	* 99.2	* 65.6	0	0	0	0	0	0	0	0
16	25.4	0	95.2	47.5	0	0	0	0	0	0	0	0
17	23.0	0	101 *	* 24.7	0	0	0	0	0	0	0	0
18	21.9	0	102 *	14.9	0	0	0	0	0	0	0	0
19	27.8	0	101	* 3.00	0	0	0	0	0	0	0	0
20	34.0	0	101 *	.68	0	0	0	0	0	0	0	0
21	30.4	0	102	.23	0	0	0	0	0	0	0	0
22	25.4	8.81	107 *	0	0	0	0	0	0	0	0	0
23	21.0	* 17.5	105 *	0	0	0	0	0	0	0	0	0
24	17.5	* 26.1	* 98.6	0	0	0	0	0	26.1	0	0	0
25	12.0	30.2	103	0	0	0	0	0	1.43	0	0	0
26	2.25	* 31.2	102 *	0	0	0	0	0	0	0	0	0
27	1.80	* 31.4	102 *	0	0	0	0	0	0	0	0	0
28	1.80	32.2	106	0	0	0	0	0	0	0	0	0
29	1.80		103	0	0	0	0	0	0	0	0	0
30	1.80		102 *	0	0	0	0	0	0	0	0	0
31	1.28		* 98.9		0		0	0		0		0
Sum	177.41		1,959.61		0		0			0		0
	530.28		2,616.2		0		0		43.44		0	

Current Year 2006								Period 1954-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	High	Low	High Day	High	Low Day	Low	Average	Total	Average	Maximum	Minimum
Jan.	40.390	39.400	13	57.9	31	0	17.1	45,816	8,866	118,256	0
Feb.	39.970	39.400	28	33.2	! 1	0	6.34	15,328	4,939	79,341	0
Mar.	41.320	39.900	12	127	7	29.0	84.4	226,040	6,663	226,040	0
April	42.280	39.400	9	216	!19	0	65.3	169,310	10,393	200,756	0
May	39.400	39.400	! 1	0	! 1	0	0	0	11,013	422,237	0
June	39.400	39.400	! 1	0	! 1	0	0	0	16,904	412,734	0
July	39.400	39.400	! 1	0	! 1	0	0	0	24,592	421,148	0
Aug.	39.400	39.400	! 1	0	! 1	0	0	0	17,014	337,857	0
Sept.	40.270	39.400	24	50.8	! 1	0	1.45	3,753	103,046	2,316,989	0
Oct.	39.400	39.400	! 1	0	! 1	0	0	0	87,880	1,111,977	0
Nov.	39.400	39.400	! 1	0	! 1	0	0	0	24,568	283,859	0
Dec.	39.400	39.400	! 1	0	! 1	0	0	0	15,678	190,901	0
Yearly	42.280	39.400		216		0	14.6	460,247	331,556	3,566,125	648

* Discharge measurement(s) made on this day ! And other days

08-4645.00 CONTRIBUTIONS TO THE RIO GRANDE FROM THE LOWER RIO SAN JUAN IRRIGATION DISTRICT FALCON DAM TO RIO GRANDE CITY

DESCRIPTION: The Lower Rio San Juan Irrigation District in Mexico lies along the Rio Grande between Cd. Miguel Aleman and Rio Bravo, Tamaulipas and is irrigated with water impounded by Marte R. Gomez Dam situated on the Rio San Juan 20.0 river kilometers upstream from the confluence with the Rio Grande. The Rio San Juan enters the Rio Grande at river kilometer 384. Drain water from this irrigation district enters the Rio Grande between Falcon Dam and the Rio Grande City Gaging Station through the Rio San Juan channel, Rancherias Drain, and Los Fresnos Drain; and between the Rio Grande City Station and Anzalduas Dam through Puertecitos, Los Indios, Huizache, and Morillo Drains. Only the portion of water reaching the Rio Grande via drains located upstream from the Rio Grande City Gaging Station is shown below. Drain water reaching the Rio Grande through the Rio San Juan channel is included in the Rio San Juan tabulation.

RECORDS: Drain water determination based on staff gage readings during the year by the Mexican Section and the weir discharge tables. Water entering the Rio Grande through the Rio San Juan Channel, composed of spills and leakage from Marte R. Gomez Dam, storm inflow and drainage below the dam, is measured at the Rio San Juan Gaging Station at Camargo, Tamaulipas, 5.0 river kilometers upstream from the confluence with the Rio Grande. All storm water measured at these two drains was deducted and is not included in the tabulation below. Records available: 1953 through 2006. Records prior to 1976 include Rio San Juan flow.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	0	0	0.10	0.20	0.20	0.20	0.17	0.20	0.20	0.10
2	0	0	0	0	.10	.20	.20	.20	.20	.20	.20	.10
3	0	0	0	0	.10	.20	.40	.20	.20	.20	.20	.10
4	0	0	0	0	.10	.10	.40	.20	.18	.20	.20	.10
5	0	0	0	0	.10	.10	.30	.20	.20	.20	.20	.10
6	0	0	0	0	.10	.10	.30	.20	.20	.20	.20	.10
7	0	0	0	0	.10	.10	.30	.20	.20	.20	.20	.10
8	0	0	0	0	.10	.10	.20	.20	.18	.20	* .20	.10
9	0	0	0	0	.10	.10	.20	.20	.30	.20	.20	.10
10	0	0	0	0	.20	.10	.20	.20	.30	.20	.20	.10
11	0	0	0	0	.10	.10	.20	.20	.24	.20	.20	.10
12	0	0	0	0	.10	.10	.20	.20	.30	.20	.20	.10
13	0	0	0	0	.10	.10	.20	.20	.30	.30	.20	.10
14	0	0	0	0	.20	.10	.20	.20	.30	.30	.20	.10
15	0	0	0	0	.10	.10	.20	.20	.20	.20	.20	.10
16	0	0	0	0	.10	.10	.20	.20	.20	.20	.20	.10
17	0	0	0	0	* .77	.10	.20	.20	.20	.20	.20	.10
18	0	0	0	0	.10	.10	.20	.20	.40	.20	.20	.10
19	0	0	0	0	.10	.10	.20	.20	.20	.20	.20	.10
20	0	0	0	0	.10	.10	.20	.20	.20	.20	.20	.10
21	0	0	0	0	.10	.10	.20	.20	.20	.20	.20	.10
22	0	0	.20	0	.10	.10	.20	.20	.20	.20	.20	.10
23	0	0	.20	0	.10	.10	.20	.20	.20	.20	.20	.10
24	0	0	.20	0	.10	.10	.20	.20	.40	.20	.20	.10
25	0	0	.20	0	.10	.10	.20	.20	.30	.20	.20	.10
26	0	0	.20	0	.10	.10	.20	.20	.20	.20	.20	.10
27	0	0	.20	0	.10	.10	.20	.20	.20	.20	.20	.10
28	0	0	.20	0	.10	.10	.20	.20	.20	.20	.20	.10
29	0		.20	0	.10	.10	.20	.20	.20	.20	.20	.10
30	0		.20	0	.10	.10	.20	.20	.20	.20	.20	.10
31	0		.20		.10		.20	.20		.20		.10
Sum	0	0	2.00	0	3.97	3.30	6.90	6.20	6.97	6.40	6.00	3.10

Current Year 2006						Period 1954-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second			Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ Low Day	Average	Total	Average	Maximum	Minimum
Jan.			! 1 0	! 1 0	0	0	334	1,626	0
Feb.			! 1 0	! 1 0	0	0	403	1,157	0
Mar.			!22 .20	! 1 0	.06	173	302	952	0
April			! 1 0	! 1 0	0	0	404	1,338	0
May			17 .77	! 1 .10	.13	343	767	1,807	9.0
June			! 1 .20	! 4 .10	.11	285	644	1,551	0
July			! 3 .40	! 1 .20	.22	596	424	3,573	0
Aug.			! 1 .20	! 2 .20	.20	536	306	3,902	0
Sept.			!18 .40	1 .17	.23	602	327	2,416	0
Oct.			13 .30	! 1 .20	.21	553	211	983	0
Nov.			! 1 .20	! 2 .20	.20	518	174	794	0
Dec.			! 1 .10	! 2 .10	.10	268	157	610	0
Yearly			0.77	0	0.12	3,874	4,453	13,656	224

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4646.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, FALCON DAM TO RIO GRANDE CITY

Beginning June 1971, the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the jurisdiction of the 93rd District Court of Texas administered by its Special Watermaster.

During 2006, 1,509 irrigable hectares and several towns and rural homes were allotted Rio Grande water in the river reach between Falcon Dam and the Rio Grande City gaging station. Such irrigable area was 0.6% of the total irrigable area below Falcon Dam allotted Rio Grande water.

The total diversion during 2006 in this river reach was 12,985 TCM, or 0.95% of the total water diverted from the Rio Grande below Falcon Dam. Records of diversions in this river reach were determined by means of flow meters. More than one crop per year is often grown on parts of this land.

Records prior to 1976 were published under the title "Diversions from the Rio Grande, United States Side-Falcon Dam to Fort Ringgold."

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second				
Daily:	Max.	4.59	May 1, 1998	Min.	0	Occasionally
Monthly:	Max.	1.58	April 1984	Min.	0.06	March 1957
Yearly:	Max.	0.65	1989	Min.	0.20	1968

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.26	0.53	1.07	0.18	0.52	0.59	0.22	0.52	0.48	0.38	0.47	0.67
2	.33	.71	.87	.37	.52	.59	.19	.48	.43	.42	.47	.79
3	.33	.48	.84	.46	.69	.56	.18	.51	.45	.38	.47	.53
4	.33	.55	.95	.46	.72	.42	.20	.42	.48	.38	.43	.55
5	.33	.59	.62	.48	.57	.42	.24	.37	.47	.37	.33	.44
6	.33	.60	.77	.52	.57	.41	.22	.38	.43	.35	.39	.52
7	.32	.75	.71	.69	.44	.41	.20	.39	.43	.41	.40	.47
8	.30	.65	.61	.59	.56	.45	.20	.46	.45	.37	.42	.41
9	.33	.76	.68	.47	.54	.50	.30	.43	.43	.35	.44	.41
10	.40	.75	.72	.75	.55	.34	.30	.47	.37	.38	.47	.32
11	.39	.56	.66	.77	.61	.48	.28	.46	.32	.46	.47	.31
12	.36	.49	.57	.69	.59	.54	.31	.43	.32	.61	.43	.31
13	.36	.69	.55	.57	.36	.56	.26	.45	.32	.42	.50	.33
14	.33	.63	.46	.53	.35	.55	.29	.47	.31	.40	.50	.32
15	.33	.66	.64	.50	.34	.54	.26	.44	.33	.31	.54	.29
16	.37	.55	.61	.52	.35	.55	.28	.42	.33	.31	.42	.27
17	.32	.62	.59	.62	.43	.32	.30	.42	.32	.38	.40	.26
18	.35	.57	.54	.74	.47	.44	.28	.42	.32	.44	.39	.27
19	.34	.30	.39	.85	.44	.47	.30	.39	.35	.46	.33	.26
20	.32	.43	.55	.76	.40	.50	.31	.39	.33	.44	.38	.28
21	.33	.78	.71	.84	.42	.48	.40	.45	.30	.36	.35	.29
22	.38	.75	.60	.73	.37	.56	.35	.44	.31	.25	.44	.16
23	.37	.56	.56	.42	.47	.52	.28	.44	.34	.26	.37	.29
24	.35	.61	.54	.63	.57	.40	.29	.42	.30	.26	.47	.29
25	.41	.62	.52	.66	.65	0	.35	.40	.30	.29	.48	.29
26	.39	.13	.21	.59	.48	0	.29	.38	.30	.34	0	.29
27	.50	.26	.35	.48	.40	0	.50	.08	.30	.40	0	.29
28	.43	.25	.39	.49	.29	0	.52	.14	.33	.39	0	.29
29	0		.32	.60	.31	0	.50	.14	.33	.03	0	.31
30	0		.20	0	.20	0	0	.14	.30	.03	0	.38
31	.05		.10		.23		0	.24		0		0
Sum	9.94	15.83	17.90	16.96	14.41	11.60	8.60	11.99	10.78	10.63	10.76	10.89

	Current Year 2006					Period 1960-2006		
	Average Rainfall** Millimeters		Extreme-Cubic Meters per Second			Volume-Thousand Cubic Meters		
Month	2006	1960-2006	@ High	@ Low	Average	Total	Average	Maximum	Minimum
			Day	Day					
Jan.	0	23	27 0.50	!29 0	0.32	859	910	1,828	196
Feb.	3	26	21 .78	26 .13	.57	1,368	1,111	2,198	275
Mar.	13	16	1 1.07	31 .10	.58	1,466	1,547	2,558	549
April	38	35	19 .85	30 0	.57	1,465	1,589	4,088	440
May	29	60	4 .72	30 .20	.46	1,245	1,265	3,237	260
June	38	63	! 1 .59	!25 0	.39	1,002	1,105	3,217	258
July	46	39	28 .52	!30 0	.28	743	939	1,897	343
Aug.	12	52	1 .52	27 .08	.39	1,036	906	1,798	343
Sept.	166	115	! 1 .48	!21 .30	.36	931	751	1,745	220
Oct.	74	53	12 .61	31 0	.34	918	1,041	2,109	448
Nov.	0	29	15 .54	!26 0	.36	930	764	1,793	260
Dec.	103	23	2 .79	31 0	.35	941	717	1,490	179
Yearly	522	534	1.07	0	0.41	12,985	12,564	20,497	6,154

@ Mean daily ! And other days ** United States side - average of several stations in the reach

08-4647.00 RIO GRANDE AT RIO GRANDE CITY, TEXAS NEAR CAMARGO, TAMAULIPAS

DESCRIPTION: Cableway, bubbler gage, water-stage recorders (graphic and digital), and DCP with GOES high data rate telemetry, located on the left bank at Fort Ringgold, latitude 26 22'00", longitude 98 48'10", and river kilometer 378; about 1.6 kilometers downstream from Rio Grande City, Texas, and 6.0 river kilometers downstream from Rio San Juan. The zero of the gage is 30.48 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 24 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: January 1955 through 2006. Records prior to 1976 were published under the title "Rio Grande at Fort Ringgold, Rio Grande City, Texas." Records composed of the addition of discharges of the Rio Grande at Roma, Texas and the Rio San Juan at Santa Rosalia, Tamaulipas are available for May, June, and October 1914; September 1916; September and October 1917; October 1918; September and October 1919; August and September 1920; June 1922; September 1923; and 1924 through 1931. Records are also available for the station "Rio Grande near Rio Grande City" 4.8 kilometers downstream, for 1932 through 1954.

REMARKS: Reservoirs, diversions, and drainage returns modify the river flow at this station. Except for tributary inflows and intervening diversions below Falcon Dam, flow at this station is controlled largely by releases from Falcon Reservoir, 64.1 river kilometers upstream.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 6,230 CMS on September 22 and 23, 1967, with a gage height of 18.71 meters. Min. no flow occurred several days in June and July 1953.

Average Flow in Cubic Meters per Second**

Daily:	Max.	5,860	Sept. 23, 1967	Min.	0.36	March 5, 1985
Monthly:	Max.	1,400	Oct. 1958	Min.	6.66	March 1957
Yearly:	Max.	259	1958	Min.	43.3	1997

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	82.2	63.1	70.3	151	236 *	* 41.4	74.6	* 45.4	* 52.5	13.1	28.0	* 28.4
2	89.6	* 63.3	* 72.7	163	224	50.4	63.1	47.7	50.6	* 14.6	* 24.9	25.5
3	87.6	54.2	75.9	174 *	233	43.8	69.5	46.3	64.2	22.2	25.3	24.4
4	86.4	65.3	77.2	182	233	45.9	64.9	46.5	66.5	28.9	26.3	32.3
5	97.1	66.4	81.0	196	228	50.4	* 46.3	42.5	64.6	31.9	25.0	32.1
6	101 *	67.9	86.0	215	232	46.7	30.5	39.7	73.2	45.0	25.6	33.9
7	95.1	63.4	93.3	255	230	38.6	37.9	43.6	80.7	30.7	29.4	39.1
8	77.6	58.6	99.3	353	204	26.0	38.7	42.3	84.6	29.0	28.1	48.2
9	87.3	55.7	131	359	192	35.5	44.4	31.8	83.6	28.3	38.6	34.1
10	108	52.9	164	342	192	43.5	40.2	30.7	73.9	24.7	54.5	29.8
11	82.3	52.3	157	259	184	40.0	24.5	29.6	64.7	27.0	41.5	25.4
12	73.1	54.0	177	191	150	50.2	22.0	30.2	72.2	28.3	38.8	29.1
13	88.7	58.8	194	209	154	52.4	19.7	35.4	76.4	26.1	36.4	30.2
14	109	* 62.4	176	269	149	* 51.7	20.8	34.8	70.4	63.4	30.4	24.7
15	101	63.8	149	305	147	65.5	21.0	* 37.7	45.8	39.5	31.4	21.3
16	84.4	68.3	153 *	308	117 *	77.3	24.6	43.9	26.4	21.4	* 28.1	22.4
17	74.4	62.9	173	290	63.0	74.7	32.2	48.2	20.3	* 13.8	25.9	26.8
18	81.0	60.5	170	272 *	37.8	73.0	* 39.4	52.9	20.2	15.6	29.2	* 32.3
19	107 *	59.2	206	250	42.5	72.6	38.7	61.3	* 22.0	23.8	32.5	28.1
20	104	59.2	224	253	48.0	74.0	44.8	56.6	19.7	17.6	37.2	25.7
21	92.8	61.0	218	286	57.5	82.6	54.4	63.7	15.8	13.0	38.6	26.4
22	91.6	58.5	224	307	58.8	92.1	56.8	66.2	14.5	14.0	30.4	24.8
23	83.4	60.7	249	326	46.2	99.2	55.1	71.6	15.2	18.0	24.4	22.0
24	77.3	70.0	205	320	29.8	89.5	56.7	72.1	22.2	17.0	22.6	28.3
25	81.9	75.9	186	261	38.8	85.4	54.5	66.9	33.2	21.3	20.8	37.9
26	74.9	80.3	185	285	60.8	92.8	49.3	67.2	22.6	28.1	30.7	25.6
27	64.0	77.1	180	261	82.1	93.0	44.9	60.0	15.2	25.1	35.0	24.7
28	61.5	72.9	179	224	74.9	83.6	41.7	55.5	12.4	25.7	34.9	25.9
29	65.1		183	210	62.7	78.1	39.1	49.4	12.6	25.3	38.1	20.0
30	67.8		160	224	67.6	73.2	41.6	45.4	13.3	24.5	33.9	18.7
31	62.5		144		55.4		48.3	49.4		27.4		18.6
Sum	2,639.6	1,768.6	4,842.7	7,700	3,930.9	1,923.1	1,340.2	1,514.5	1,309.5	784.3	946.5	866.7

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Total	Period 1954-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	8.680	8.190	125	19	59.5	31	85.1	228,061	245,890	628,819	20,625
Feb.	8.440	8.125	82.1	27	49.5	10	63.2	152,807	184,852	464,530	31,488
Mar.	9.415	8.340	262	23	68.1	1	156	418,409	168,647	470,016	17,787
April	9.860	8.750	364	9	142	1	257	665,280	384,737	878,161	20,156
May	9.290	7.945	241	1	28.0	24	127	339,630	440,966	850,281	45,271
June	8.585	7.935	104	!22	23.8	8	64.1	166,156	321,085	811,943	97,028
July	8.415	7.860	79.6	1	18.7	13	43.2	115,793	211,191	707,768	27,479
Aug.	8.355	7.960	73.3	24	27.9	12	48.9	130,853	255,503	1,853,522	30,778
Sept.	8.460	7.740	92.4	12	12.0	28	43.7	113,141	307,638	3,346,077	52,327
Oct.	8.390	7.765	77.1	14	12.3	!21	25.3	67,764	318,210	3,758,177	37,009
Nov.	8.180	7.890	56.8	10	19.9	25	31.6	81,778	149,672	1,778,975	28,132
Dec.	8.155	7.805	51.3	8	17.4	29	28.0	74,883	131,466	665,515	39,434
Yearly	9.860	7.740	364		12.0		81.0	2,554,555	3,119,857	8,165,042	1,364,475

* Discharge measurement(s) made on this day ! And other days ** Period 1954-2006

08-4683.00 CONTRIBUTIONS TO THE RIO GRANDE FROM THE LOWER RIO SAN JUAN IRRIGATION DISTRICT RIO GRANDE CITY TO ANZALDUAS DAM

DESCRIPTION: The Lower Rio San Juan Irrigation District in Mexico lies along the Rio Grande between Cd. Miguel Aleman and Rio Bravo, Tamaulipas and is irrigated with water impounded by Marte R. Gomez Dam situated on the Rio San Juan 20.0 river kilometers upstream from the confluence with the Rio Grande. The Rio San Juan enters the Rio Grande at river kilometer 384. Drain water from this irrigation district enters the Rio Grande between Falcon Dam and the Rio Grande City Gaging Station through the Rio San Juan channel, Rancherias Drain, and Los Fresnos Drain; and between the Rio Grande City Station and Anzalduas Dam through Puertecitos, Los Indios, Huizache, and Morillo Drains. Only the portion of drain water from this irrigation district reaching the Rio Grande via drains located downstream from Rio Grande City Gaging Station is shown below.

RECORDS: Drain water reaching the Rio Grande through Morillo Drain was determined by hourly staff gage readings and the weir discharge table, and through Puertecitos and Los Indios Drains by prorating between frequent current meter measurements. All storm water measured at these drains was deducted and is not included in the tabulation below. Records available: 1953 through 2006.

REMARKS: Since July 9, 1969, some water has been diverted from Morillo Drain directly to the Gulf via the Morillo Drain Diversion Canal to reduce the salinity of Rio Grande waters.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0.94	* 9.47	0.78	11.3	5.61	10.9	10.5	8.38	* 9.58	6.69	0.62	0.25
2	1.89	9.49	.77	11.3	5.08	10.6	10.5	8.44	8.26	3.53	.52	.29
3	2.17	* 8.92	10.1	11.8	4.98	8.98	* 10.8	8.45	8.23	1.37	.72	.25
4	2.30	8.79	* 15.2	11.5	4.43	8.79	10.5	* 11.6	* 9.69	1.45	.54	.29
5	.82	8.86	20.3	13.5	4.63	* 11.1	* 17.4	8.41	8.30	3.86	.50	.25
6	.80	8.85	* 18.6	12.4	4.81	* 9.00	8.53	8.41	8.30	3.17	.50	.25
7	1.57	8.97	24.2	7.55	4.52	* 12.2	* 10.3	* 11.6	8.28	2.76	.54	.25
8	2.84	* 8.97	* 27.4	7.53	5.17	* 19.7	* 8.30	8.45	* 9.71	2.43	* .50	.30
9	3.08	8.90	25.1	3.47	5.08	* 23.1	8.30	8.35	8.52	3.45	.56	.31
10	2.60	* 8.78	* 23.6	5.02	5.23	22.1	8.70	* 11.5	8.52	3.23	.65	.30
11	2.60	8.66	13.6	5.44	5.03	22.5	8.70	8.37	* 9.60	1.69	.54	.30
12	2.53	8.59	1.98	5.02	5.03	* 21.7	8.39	8.53	9.88	1.58	.50	.32
13	2.24	8.21	1.56	3.96	5.31	22.3	8.37	8.43	10.3	1.51	.50	.30
14	1.70	8.35	1.12	3.88	5.23	* 21.4	* 9.31	* 9.26	9.87	1.51	.50	.31
15	1.41	8.35	7.02	4.33	5.35	19.1	8.87	8.30	8.73	1.07	.50	.36
16	1.24	8.28	11.2	3.78	10.7	* 16.4	8.67	8.38	5.92	1.06	.53	.30
17	1.17	8.17	* 15.9	4.08	* 19.0	10.6	* 11.0	8.34	5.87	1.16	.51	.30
18	1.30	8.07	9.20	4.79	17.9	10.7	8.61	* 9.05	10.6	1.18	.50	.30
19	1.91	8.06	2.30	4.74	* 18.4	* 12.9	8.52	8.29	9.82	1.21	.50	.30
20	1.42	8.07	1.89	4.12	17.5	10.4	8.36	8.31	* 9.16	1.16	.50	.30
21	1.24	* 8.10	2.20	4.05	17.8	* 12.7	* 10.7	* 9.07	7.12	1.15	.50	.42
22	1.81	8.10	2.72	4.33	* 18.1	10.4	8.40	8.29	* 7.55	1.12	.53	.54
23	1.40	8.10	6.30	4.35	16.7	* 12.3	8.54	8.29	6.29	1.12	.50	.50
24	1.00	6.00	8.87	5.55	* 15.7	10.3	* 10.9	8.29	9.61	1.06	.50	1.63
25	5.73	2.00	8.43	6.15	15.1	10.4	8.41	* 9.09	* 12.5	1.03	.50	3.30
26	8.76	.50	8.87	6.00	* 15.6	* 12.8	8.65	8.30	7.63	1.06	.50	2.60
27	8.79	.60	8.90	6.00	12.7	10.4	8.79	8.26	5.22	1.03	.50	1.92
28	8.76	.44	8.93	5.72	12.7	* 10.9	* 11.1	* 9.22	6.77	1.24	.50	.85
29	8.55		8.93	5.98	* 14.1	10.3	8.72	8.26	* 7.71	1.37	.50	.91
30	7.47		11.0	5.96	12.9	* 10.9	8.72	8.24	7.50	1.26	.54	1.62
31	9.47		* 11.4		* 15.1		* 10.7	8.24		1.02		1.88
Sum	99.51	206.65	318.37	193.60	325.49	415.87	296.26	272.40	255.04	57.53	15.80	22.00

Current Year 2006							Period 1954-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	Day @ High	Day @ Low	Average	Total	Average	Maximum	Minimum
Jan.			31 9.47	6 0.80	3.21	8,598	3,945	28,216	0
Feb.			2 9.49	28 .44	7.38	17,855	4,883	51,045	0
Mar.			8 27.4	2 .77	10.3	27,507	4,896	60,359	0
April			5 13.5	9 3.47	6.45	16,727	4,826	17,521	0
May			17 19.0	4 4.43	10.5	28,122	9,852	37,225	0
June			9 23.1	4 8.79	13.9	35,931	10,501	106,021	0
July			5 17.4	! 8 8.30	9.56	25,597	5,815	60,172	0
Aug.			4 11.6	!30 8.24	8.79	23,535	4,821	65,042	0
Sept.			25 12.5	27 5.22	8.50	22,035	4,244	52,186	0
Oct.			1 6.69	31 1.02	1.86	4,971	3,737	31,287	0
Nov.			3 .72	! 5 .50	.53	1,365	2,549	27,453	0
Dec.			25 3.30	! 1 .25	.71	1,901	2,668	41,991	0
Yearly			27.4	0.25	6.79	214,144	62,737	395,201	0

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4684.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, RIO GRANDE CITY TO ANZALDUAS DAM

Beginning June 1971, the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the the jurisdiction of the 93rd District Court of Texas administered by its Special Watermaster.

During 2006, 63,181 irrigable hectares and several towns and rural homes were allotted Rio Grande water in the river between the gaging station at Rio Grande City and Anzalduas Dam. Such irrigable area was 24.1% of the total irrigable area below Falcon Dam allotted Rio Grande water.

The total diversion during 2006 in this river reach was 217,965 TCM, or 15.89% of the total water diverted from the Rio Grande below Falcon Dam. Records of diversions in this river reach were determined by means of flowmeters and by a deflection meter developed by the International Boundary and Water Commission. More than one crop per year is often grown on parts of this land.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second				
Daily:	Max.	34.6	June 21, 1960	Min.	0	Occasionally
Monthly:	Max.	28.6	June 1960	Min.	0.29	March 1957
Yearly:	Max.	13.5	1989	Min.	4.40	2003

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.49	8.39	10.8	5.33	13.1	9.90	8.61	5.67	11.5	0	4.71	5.46
2	3.11	7.77	10.8	4.13	13.6	7.74	5.76	6.31	7.79	2.09	4.87	3.11
3	5.61	7.07	10.0	8.35	15.3	4.72	6.78	6.38	4.80	1.88	5.45	4.31
4	5.62	5.90	8.98	10.4	14.7	1.33	4.11	6.94	5.56	1.56	4.11	7.50
5	5.71	5.20	8.65	11.3	14.5	2.69	6.50	4.90	11.7	1.44	3.18	7.98
6	7.17	6.27	11.5	12.2	11.1	3.81	4.54	4.87	11.9	1.55	4.61	8.22
7	5.44	7.86	11.8	10.8	8.46	3.40	3.61	7.12	11.6	.68	4.51	8.53
8	3.64	6.30	11.7	9.23	12.0	3.26	3.12	7.45	11.5	1.13	3.52	6.06
9	6.41	6.07	12.2	6.87	12.9	3.22	2.26	8.31	9.05	2.36	3.34	3.28
10	6.97	5.71	12.8	11.2	13.8	1.60	2.22	8.05	5.33	2.42	4.75	2.83
11	7.87	7.91	11.2	12.2	13.3	2.14	2.46	6.65	7.98	1.86	3.71	4.13
12	9.06	8.07	9.75	11.8	11.3	7.71	3.54	4.18	6.19	2.18	3.59	4.99
13	8.24	10.7	11.6	11.6	9.10	8.44	4.59	4.37	5.08	3.41	5.51	3.93
14	5.62	11.5	12.1	8.56	7.19	8.81	3.90	8.94	1.83	1.30	6.06	3.41
15	4.03	11.5	12.2	6.78	9.83	9.91	2.62	9.84	1.64	1.68	4.55	3.38
16	7.68	11.6	12.1	5.96	11.3	9.88	2.41	10.6	1.42	4.33	4.26	2.58
17	8.46	9.64	10.8	11.3	11.8	8.90	5.72	9.34	.79	4.07	3.72	2.55
18	9.18	7.69	8.89	12.4	9.56	6.68	5.47	8.04	.91	3.50	2.54	5.28
19	10.8	7.30	7.97	13.6	8.56	8.79	5.39	5.89	1.29	3.40	2.58	4.82
20	10.8	10.4	10.4	13.7	5.79	9.21	5.53	5.95	2.68	4.24	6.07	4.72
21	8.42	10.5	10.8	13.0	4.51	10.6	6.85	11.6	2.92	4.23	6.47	1.95
22	6.90	12.0	10.6	9.89	8.91	11.1	6.07	11.5	2.17	2.09	4.69	1.47
23	10.9	11.1	11.2	8.38	9.26	9.72	5.53	12.7	2.16	2.81	2.29	.78
24	10.7	8.96	9.88	13.5	9.70	7.27	7.61	12.7	.66	2.51	2.26	.76
25	10.9	6.65	7.90	13.6	8.92	5.75	8.01	11.1	.81	3.17	3.33	.81
26	10.6	5.40	5.24	14.2	8.79	9.19	8.21	8.25	2.63	3.38	2.86	3.03
27	10.5	5.97	8.79	13.9	7.63	8.94	8.42	4.68	2.13	2.84	6.87	5.31
28	9.19	6.86	9.12	14.4	5.84	10.8	8.27	10.7	2.83	1.17	7.11	4.39
29	6.65		9.92	12.3	6.08	10.3	4.72	11.4	1.43	2.89	6.83	3.31
30	7.73		8.99	8.64	9.79	9.41	2.83	12.0	.63	3.81	6.67	1.80
31	7.57		7.51		11.0		1.33	12.5		3.97		1.44
Sum	233.97	230.29	316.19	319.52	317.62	215.22	156.99	258.93	138.91	77.95	135.02	122.12

	Current Year 2006						Period 1960-2006		
	Average Rainfall** Millimeters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	2006	1960-2006	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	0	26	!23	10.9	1	2.49	7.55	20,215	15,526	35,458	2,479
Feb.	1	26	22	12.0	5	5.20	8.22	19,897	17,145	47,610	4,040
Mar.	11	19	10	12.8	26	5.24	10.2	27,319	26,463	51,495	6,760
April	10	32	28	14.4	2	4.13	10.7	27,607	30,230	53,085	4,216
May	14	60	3	15.3	21	4.51	10.2	27,442	26,704	55,732	3,919
June	37	65	22	11.1	4	1.33	7.17	18,595	25,806	73,847	6,181
July	84	41	1	8.61	31	1.33	5.06	13,564	25,547	57,262	6,973
Aug.	4	48	!23	12.7	12	4.18	8.35	22,372	26,695	44,751	8,469
Sept.	225	97	6	11.9	31	.63	4.63	12,002	17,183	42,873	5,102
Oct.	48	61	16	4.33	1	0	2.51	6,735	20,274	46,570	4,358
Nov.	0	25	28	7.11	24	2.26	4.50	11,666	18,004	45,171	3,614
Dec.	86	25	7	8.53	24	.76	3.94	10,551	14,505	30,837	3,091
Yearly	520	525		15.3		0	6.91	217,965	264,082	424,806	138,743

@ Mean daily ! And other days ** United States side - average of several stations in the reach

08-4686.00 DIVERSIONS FROM THE RIO GRANDE
ANZALDUAS CANAL NEAR REYNOSA, TAMAULIPAS

DESCRIPTION: Cableway, gravity well, and water-stage recorder located on the left bank at latitude 26 07'50", longitude 98 20'10", 0.8 canal kilometer from the canal intake, and about 8.0 kilometers northwest of Reynosa, Tamaulipas. The canal intake is immediately upstream from Anzalduas Dam at river kilometer 274, 165 river kilometers downstream from Falcon Dam. The zero of the gage is 26.31 meters above mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 121 discharge measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1952 through 2006.

REMARKS: Diversions to this canal are for irrigation and domestic use in Mexico. For area irrigated during the year see the tabulation under the heading of "Drainage Basin and Irrigated Areas" in this Bulletin. Flow at this canal station is affected by backwater from the operation of canal gates 19 kilometers and 37 kilometers below the canal intake.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 310 CMS on June 2, 1957, with a gage height of 4.88 meters. Min. no flow occurs frequently.

Average Flow in Cubic Meters per Second

Daily:	Max.	279	May 17, 1994	Min.	0	Frequently
Monthly:	Max.	215	April 1993	Min.	0	Several months
Yearly:	Max.	60.3	1989	Min.	1.48	2002

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	35.1	5.10	* 20.5	105 *	114 *	0	1.80	* 10.1	0	0	5.70	0
2	* 40.8	0	* 24.0	104 *	103 *	0	10.6	0	0	0	0	0
3	* 42.3	0	* 23.1	117 *	106 *	5.90	0	0	0	0	0	8.20
4	* 40.6	0	30.6	116 *	110 *	5.90	0	0	4.10	0	0	3.60
5	* 40.6	0	42.7	116 *	106 *	0	6.30	0	5.60	0	0	0
6	* 42.7	0	* 44.3	120 *	108 *	4.00	* 10.0	0	0	0	0	0
7	40.6	* 6.90	* 49.2	144 *	108	0	0	0	0	0	0	0
8	35.2	9.20	* 50.4	160 *	107 *	0	0	* 8.00	* 1.40	0	0	0
9	* 35.4	0	* 48.8	169 *	* 89.7	7.70	0	* 9.20	4.80	0	10.0	0
10	* 32.9	0	* 65.9	175 *	* 70.9	10.1	0	0	8.40	0	* 12.4	5.90
11	* 25.6	10.2	* 77.3	163 *	* 61.1	9.90	0	0	0	0	14.8	3.60
12	* 25.4	0	* 88.3	151 *	* 53.7	* 9.10	0	0	0	0	3.50	0
13	* 25.4	0	* 93.9	139 *	* 41.2	9.70	0	0	* 7.30	0	* 2.60	0
14	24.8	0	101 *	150 *	* 27.6	* 8.00	0	6.60	4.80	0	0	* 6.50
15	25.7	0	107 *	160 *	* 27.8	* 9.20	0	0	10.5	0	0	3.60
16	* 27.6	4.90	105 *	160 *	* 27.7	0	0	0	10.5	0	0	0
17	* 20.6	10.7	108 *	156 *	* 16.8	0	0	0	0	0	0	0
18	* 20.6	5.40	116 *	167 *	2.10	0	0	* 10.1	0	0	0	0
19	* 15.4	0	122 *	173 *	0	0	0	0	0	0	0	0
20	* 17.8	* 9.70	139 *	171 *	0	* 7.20	* 10.2	0	0	0	0	0
21	15.1	0	145	165 *	10.3	2.40	0	0	0	0	0	0
22	15.4	0	142 *	167 *	* 9.30	0	0	0	0	0	0	0
23	* 17.4	* 12.8	143 *	172 *	0	0	0	4.00	0	0	0	0
24	* 11.7	* 11.6	144 *	160 *	0	0	0	* 16.4	0	0	0	0
25	3.40	22.0	128 *	157 *	0	0	0	0	0	0	0	13.8
26	2.90	24.9	124 *	145 *	0	0	* 9.80	0	0	0	0	* 13.8
27	* 10.2	* 28.4	121 *	145 *	0	* 6.50	0	0	0	0	0	0
28	0	* 20.2	122 *	132 *	0	5.80	0	* 10.5	0	0	0	0
29	0		127 *	127 *	0	0	0	0	0	0	0	0
30	0		125 *	115 *	0	0	0	0	0	0	0	0
31	* 5.20		112 *		0		0	0		5.20		0
Sum	696.40	182.00	2,890.0	4,401	1,300.20	101.40	48.70	74.90	57.40	5.20	49.00	59.00

Current Year 2006							Period 1952-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	High	Low	Day @ High	Day @ Low	Average	Total	Average	Maximum	Minimum
Jan.			6	42.7	!28	0	22.5	60,169	115,438	439,093	0
Feb.			27	28.4	! 2	0	6.50	15,725	88,513	310,245	0
Mar.			21	145	! 1	20.5	93.2	249,696	46,480	249,696	1,166
April			10	175	2	104	147	380,246	192,417	557,401	2,950
May			1	114	!19	0	41.9	112,337	234,492	531,533	467
June			10	10.1	! 1	0	3.38	8,761	101,791	333,959	0
July			2	10.6	! 3	0	1.57	4,208	45,435	200,370	392
Aug.			24	16.4	! 2	0	2.42	6,471	82,383	333,642	698
Sept.			!15	10.5	! 1	0	1.91	4,959	55,048	204,486	131
Oct.			!31	5.20	! 1	0	.17	449	52,417	258,526	0
Nov.			11	14.8	! 2	0	1.63	4,234	15,413	103,226	0
Dec.			!25	13.8	! 1	0	1.90	5,098	26,026	205,654	0
Yearly				175		0	27.0	852,353	1,055,853	1,903,119	46,820

* Discharge measurement(s) made on this day @ Mean daily ! And other days

08-4692.00 RIO GRANDE BELOW ANZALDUAS DAM NEAR REYNOSA, TAMAULIPAS AND MISSION, TEXAS

DESCRIPTION: Cableway, gravity well, water-stage recorder, and selsyn-type transmitter, located on the right bank at latitude 26 07'51", longitude 98 19'53", and river kilometer 273; 0.8 river kilometer downstream from Anzalduas Dam, about 7.0 kilometers northwest of Reynosa, Tamaulipas, and 16.6 river kilometers upstream from the international highway bridge between Hidalgo, Texas and Reynosa, Tamaulipas. The zero of the gage is at mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 258 discharge measurements during the year, 242 by the Mexican Section and 16 by the United States Section of the Commission, and a continuous record of gage heights. Records available: 1952 through 2006.

REMARKS: Except during local storms, flow at this station is controlled largely by releases from Falcon Reservoir and by diversions into Anzalduas Canal. Excessive upstream flood flows are partly diverted into the United States floodway system inlet at Anzalduas Dam before reaching this station. The transmitter relays gage height data to the Anzalduas Dam control room.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 3,700 CMS on September 24, 1967, with a stage of 34.48 meters above mean sea level. Min. periods of no flow have occurred on several occasions in 1953, 1954, 1956, and 1957.

Average Flow in Cubic Meters per Second

Daily:	Max.	3,440	Sept. 25, 1967	Min.	0	Occasionally	
Monthly:	Max.	1,070	Oct. 1958	Min.	0.16	March	1957
Yearly:	Max.	182	1958	Min.	4.49		1957

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	37.6	* 62.5	* 47.8	* 41.6	99.5	* 55.4	* 74.2	* 45.7	* 44.7	14.5	* 20.8	* 24.6
2	38.8	* 56.6	* 45.2	45.9	107 *	* 52.7	66.3	* 47.5	* 41.7	17.8	17.9	* 27.0
3	* 43.0	* 57.3	* 44.1	50.9	105	* 58.8	71.0	* 49.3	48.8	* 17.8	* 17.5	24.7
4	* 44.4	* 56.6	* 46.7	* 49.2	111 *	54.4	* 91.4	* 44.4	60.3	* 21.3	* 18.5	27.9
5	44.1	54.1	49.6	* 54.5	112	58.8	* 81.0	* 48.1	* 59.2	* 26.7	22.2	* 27.2
6	38.6	55.3	50.9	* 55.8	111 *	* 58.4	* 53.1	47.9	* 59.8	* 32.7	24.0	* 28.8
7	* 38.6	* 57.0	* 50.9	* 56.0	116	* 53.9	* 49.5	45.2	* 62.9	* 45.1	* 24.1	* 26.9
8	49.2	* 55.2	* 54.4	* 78.6	115	* 50.0	* 51.1	* 41.7	* 61.6	33.7	* 25.7	25.3
9	48.8	* 53.1	* 58.5	117	109 *	* 43.7	52.2	36.6	* 68.6	33.0	* 21.6	* 39.0
10	* 50.5	* 50.1	* 63.9	126	109 *	* 50.4	54.8	* 30.8	77.0	* 27.2	* 23.4	30.8
11	54.4	* 48.8	* 86.2	125 *	118	54.4	* 46.1	* 29.4	68.6	* 26.8	* 23.3	23.8
12	* 54.1	49.2	73.9	* 94.9	116 *	54.3	* 32.2	* 30.6	* 64.5	* 27.7	26.8	* 22.4
13	* 44.1	50.7	79.9	60.6	104 *	* 57.9	* 27.5	31.1	* 71.2	* 27.2	27.8	* 24.7
14	* 54.2	* 52.2	* 82.1	60.1	120	* 61.0	* 27.2	33.9	* 73.5	* 31.1	* 26.7	* 21.0
15	62.8	* 54.8	* 66.3	* 94.8	120	* 61.0	* 29.3	* 30.6	* 61.0	58.0	* 26.6	* 16.2
16	66.4	* 52.0	* 52.6	114	110 *	* 67.2	28.7	* 34.8	37.0	36.1	* 22.5	* 17.6
17	* 56.3	* 56.1	* 56.0	122	* 86.7	* 75.6	29.9	* 35.0	29.8	* 18.9	* 23.6	18.7
18	* 56.2	* 56.2	* 63.2	111 *	* 55.4	74.7	* 33.0	* 39.1	47.5	* 18.8	* 29.9	19.8
19	* 57.2	60.1	54.0	* 91.6	* 45.2	75.6	* 36.4	* 50.2	* 47.3	* 14.5	30.1	* 22.0
20	* 64.1	56.3	56.0	* 73.8	* 46.9	* 70.4	38.6	57.1	* 52.6	* 17.4	28.7	* 21.1
21	* 63.7	* 56.0	62.9	69.7	45.3	* 80.5	* 41.5	54.7	* 41.9	* 20.2	* 29.7	* 19.7
22	58.7	* 54.9	* 62.0	* 94.1	50.1	* 78.4	* 48.7	* 55.1	* 29.3	17.0	* 23.4	* 21.6
23	61.1	* 48.9	* 64.1	109	* 56.8	* 81.2	* 53.1	* 57.5	* 20.7	15.2	* 22.1	* 27.5
24	* 59.0	* 48.1	* 78.5	125	* 50.8	* 95.6	* 52.6	* 58.9	54.5	* 17.4	* 24.9	30.2
25	* 63.8	* 46.4	85.9	127 *	* 46.0	94.2	* 53.2	* 51.6	63.3	* 19.4	* 21.9	24.9
26	* 58.9	46.7	* 71.8	112 *	* 42.3	90.3	* 44.6	* 50.5	* 51.8	* 20.0	28.1	20.7
27	* 59.7	47.4	63.5	114 *	46.4	* 91.7	42.9	62.6	* 38.1	* 24.4	28.0	* 20.2
28	* 62.1	* 49.2	* 55.4	113 *	74.4	* 88.9	* 41.6	50.0	* 23.4	* 25.6	* 30.4	* 18.7
29	59.2		* 55.2	100 *	74.2	* 78.1	* 42.9	* 43.8	* 17.3	23.6	* 29.0	* 24.3
30	62.0		* 49.7	94.3	70.4	* 74.3	43.7	* 44.1	* 16.8	22.2	* 28.9	19.8
31	* 60.4		* 43.9		* 65.8		44.0	* 43.8		* 19.5		19.5
Sum	1,491.8		2,681.4		2,041.8		1,381.6		770.8			736.6
	1,672.0		1,875.1		2,639.2		1,482.3		1,494.7		748.1	

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1952-2006: Average	Maximum	Minimum
Jan.	29.960	24.040	70.8	16	27.6	1	53.9	144,461	106,209	401,561	1,340
Feb.	24.850	24.460	64.7	19	46.2	!25	53.3	128,892	85,711	341,107	1,024
Mar.	25.380	24.370	94.6	25	41.9	31	60.5	162,009	96,838	348,805	418
April	25.110	24.360	132	11	41.4	! 1	89.4	231,673	145,242	507,514	3,898
May	26.030	24.330	128	15	39.9	19	85.1	228,027	188,622	591,520	43,410
June	25.460	24.330	99.2	24	39.2	9	68.1	176,412	207,429	838,797	1,828
July	25.440	23.860	98.1	4	21.3	13	47.8	128,071	154,561	687,079	2,461
Aug.	24.890	24.080	67.0	27	29.0	11	44.6	119,370	148,200	1,489,882	1,163
Sept.	25.160	23.510	82.0	9	9.70	29	49.8	129,142	220,257	2,297,808	4,831
Oct.	26.720	23.580	64.7	15	11.5	1	24.9	66,597	245,179	2,868,998	2,138
Nov.	24.140	23.710	31.1	28	16.0	23	24.9	64,636	121,731	1,773,274	1,770
Dec.	24.380	23.670	42.3	9	14.6	!26	23.8	63,642	92,259	666,198	1,855
Yearly	29.960	23.510	132		9.70		52.1	1,642,932	1,812,238	5,724,004	141,538

* Discharge measurement(s) made on this day ! And other days

RIO GRANDE FLOODWAY DISCHARGES
LOWER RIO GRANDE VALLEY

On the United States Side

Part of the excess water from floods entering the Lower Rio Grande Valley is diverted from the river through the United States floodway system with the inlet located at Anzalduas Dam near Mission, Texas.

Floodwater entering the system is measured first at the Banker Floodway Station at Anzalduas Dam near Mission and again 40.6 kilometers downstream at the Main Floodway Station on Farm Road No. 88 bridge south of Weslaco. At a point 4.8 kilometers southwest of Mercedes the floodway divides, one channel going northeastward through the Arroyo Colorado Floodway to the Gulf of Mexico, and the other going to the Gulf via the North Floodway, traveling first northward and then eastward to the Gulf. At the point of diversion, a divisor dike, which runs longitudinally in the Main Floodway, divides and controls the flows into the Arroyo Colorado Floodway and the North Floodway. The flow of the Arroyo Colorado is measured at El Fuste Siphon south of Mercedes and farther downstream at the bridge on U. S. Highway No. 83 south of Harlingen. The North Floodway flow is measured at the bridge on old U. S. Highway No. 83 west of Mercedes and farther downstream at the bridge on U. S. Highway No. 77 near Sebastian.

In 2006, no flood flow was diverted through this floodway system.

On the Mexican Side

Part of the excess water from floods entering the Lower Rio Grande Valley is diverted from the river through the Mexican floodway system, with the inlet located 1.2 river kilometers upstream from Retamal Diversion Dam and 59.7 river kilometers downstream from Anzalduas Dam.

Floodwater entering the system through the Retamal Inlet flows into Culebron and Villa Cardenas Reservoirs through the Retamal Floodway, while floodwater entering the Canal at Anzalduas Dam reaches these lakes via the Culebron and Retamal Canals. From that point it flows in a southeastwardly direction via Floodway No. 1 into the Gulf of Mexico.

The Retamal Floodway replaces the previously used floodway system, which consisted of Retamal Canal, San Rafael Floodway, and Floodway No. 2.

In 2006 no flood flow was diverted through Retamal Floodway or Anzalduas Canal.

08-4732.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, ANZALDUAS DAM TO PROGRESO

Beginning June 1971, the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the jurisdiction of the 93rd District Court of Texas administered by its Special Watermaster.

During 2006, 45,109 hectares and several towns and rural homes were allotted Rio Grande water in the river reach between Anzalduas Dam and the Progreso International Bridge. Such irrigable area was 17.2% of the total irrigable area below Falcon Dam allotted Rio Grande water.

The total diversion during 2006 in this river reach was 270,695 TCM, or 19.81% of the total water diverted from the Rio Grande below Falcon Dam. Records of diversions in this river reach were determined by means of flowmeters and by deflection meters which were developed by the International Boundary and Water Commission. More than one crop per year is often grown on parts of this land.

EXTREME FLOWS FROM RECORDS:

Average Flow in Cubic Meters per Second

Daily:	Max.	33.4	June 1, 1990	Min.	0	Occasionally	
Monthly:	Max.	23.1	June 1990	Min.	0.38	May	1972
Yearly:	Max.	12.6	1989	Min.	4.73		1970

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.05	11.8	9.99	8.38	9.74	11.8	12.8	8.73	8.83	0.19	5.53	7.80
2	6.07	12.8	9.69	4.45	17.9	11.3	12.1	8.88	8.33	1.12	5.19	6.91
3	8.73	12.1	9.89	9.81	18.9	10.3	11.6	8.03	6.99	3.47	4.08	4.23
4	9.94	10.4	8.90	11.5	19.0	7.31	5.52	8.07	8.60	3.57	2.70	5.20
5	9.90	5.22	8.25	10.6	19.7	9.99	3.64	7.71	10.2	3.23	2.48	7.14
6	13.4	11.5	11.5	15.4	18.8	14.0	5.30	8.06	9.51	2.78	3.74	6.55
7	10.8	12.1	12.4	15.3	17.2	12.8	6.66	7.93	10.2	.32	4.14	5.20
8	10.6	12.4	11.8	14.5	18.6	12.7	3.13	8.02	.08	4.94	2.86
9	10.7	12.8	14.2	14.9	19.6	12.5	2.18	6.35	11.6	1.83	6.16	2.93
10	11.8	12.1	15.6	16.5	20.0	14.0	4.94	5.64	9.23	4.09	6.33	2.04
11	11.2	9.42	14.8	16.1	18.1	10.8	5.36	5.80	10.2	4.24	5.05	.75
12	13.3	3.28	7.55	15.4	17.8	13.0	5.09	6.90	4.80	4.96	4.48	.77
13	13.9	12.3	13.1	15.4	16.0	13.2	2.79	6.85	2.37	2.90	5.94	.57
14	9.45	13.6	16.2	14.9	15.3	13.2	3.88	6.58	1.70	2.65	6.04	.71
15	8.55	13.1	15.2	13.8	16.8	13.7	3.62	6.21	1.40	1.36	5.96	.18
16	10.1	12.7	14.0	12.6	12.6	14.0	3.29	7.53	.20	6.24	5.28	0
17	12.5	12.0	14.8	15.4	8.40	16.9	4.62	7.57	0	2.68	5.22	.74
18	13.0	10.2	13.7	14.8	4.72	15.5	4.44	10.7	.52	1.83	5.36	3.20
19	12.6	5.44	9.33	14.7	6.52	18.3	4.64	10.7	.76	2.15	5.39	3.21
20	12.8	11.4	13.8	13.7	8.30	19.4	10.1	11.4	.70	1.58	4.59	3.34
21	8.55	10.2	14.7	13.4	5.23	18.6	9.66	11.2	.73	.58	5.10	3.40
22	6.74	9.85	16.0	12.8	9.19	17.5	8.41	11.9	.81	.32	4.77	3.54
23	10.2	8.77	15.9	8.33	11.6	17.1	10.1	11.3	.31	.74	4.17	2.68
24	12.4	8.61	14.7	16.1	11.3	15.7	9.89	11.3	.08	1.09	5.02	.04
25	13.3	4.69	12.1	16.5	11.4	13.5	10.1	11.5	.44	3.00	1.69	.04
26	10.6	3.08	8.17	17.6	11.0	11.0	8.94	4.84	7.00	4.42	4.23	.93
27	10.3	8.23	10.9	16.8	9.77	15.4	7.87	5.17	.90	5.16	7.49	3.80
28	10.2	5.06	10.6	17.5	9.05	17.1	7.76	7.82	.93	3.77	7.57	2.48
29	4.60		10.5	16.6	12.4	14.4	5.30	8.31	1.49	1.10	6.38	1.18
30	9.33		9.87	12.8	14.3	13.7	4.26	8.57	1.39	4.86	6.26	.29
31	11.2		7.82		14.1		4.02	9.16		5.12		0
Sum	317.81	275.15	375.96	416.57	423.32	418.70	202.01	258.73	129.35	81.43	151.28	82.71

Month	Current Year 2006: Average Rainfall** Millimeters 2006	1960-2006	Extreme-Cubic Meters per Second @ High Day		@ Low Day		Average	Period 1960-2006: Volume-Thousand Cubic Meters Total	Average	Maximum	Minimum
Jan.	0	29	13	13.9	1	1.05	10.3	27,459	16,831	43,121	892
Feb.	2	29	14	13.6	26	3.08	9.83	23,773	14,721	35,196	2,522
Mar.	6	21	14	16.2	12	7.55	12.1	32,483	22,457	44,562	6,924
April	0	35	26	17.6	2	4.45	13.9	35,992	26,795	48,447	3,758
May	24	66	10	20.0	18	4.72	13.7	36,575	28,446	53,225	1,008
June	2	66	20	19.4	4	7.31	14.0	36,176	31,856	59,901	5,184
July	75	42	1	12.8	9	2.18	6.52	17,454	27,404	49,928	8,137
Aug.	9	57	22	11.9	26	4.84	8.35	22,354	21,854	33,973	9,192
Sept.	229	111	9	11.6	17	0	4.31	11,176	13,766	34,885	3,964
Oct.	32	63	16	6.24	8	.08	2.63	7,036	17,273	38,509	2,540
Nov.	2	28	28	7.60	25	1.69	5.04	13,071	14,498	41,712	1,252
Dec.	74	29	1	7.80	!16	0	2.67	7,146	12,201	24,623	2,284
Yearly	455	576		20.0		0	8.58	270,695	248,102	398,520	149,260

@ Mean daily ! And other days ** United States side - average of several stations in the reach

08-4736.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, PROGRESO TO SAN BENITO

Beginning June 1971, the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the jurisdiction of the 93rd District Court of Texas administered by its Special Watermaster.

During 2006, 123,733 hectares and several towns and rural homes were allotted Rio Grande water in the river reach between Progreso and the gaging station at San Benito. Such irrigable area was 47.2% of the total irrigable area below Falcon Dam allotted Rio Grande water.

The total diversion during 2006 in this river reach was 734,408 TCM, or 53.74% of the total water diverted from the Rio Grande below Falcon Dam. Records of diversions in this river reach were determined by means of flowmeters, by open channel rating stations, and by deflection meters which were developed by the International Boundary and Water Commission. More than one crop per year is often grown on parts of this land.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second					
Daily:	Max.	82.4	June 5, 1990	Min.	0	Occasionally	
Monthly:	Max.	63.0	May 1995	Min.	1.52	March	1957
Yearly:	Max.	27.6	1989	Min.	10.4		1968

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.48	31.7	23.5	20.2	58.7	28.3	37.9	25.3	23.3	4.02	4.52	8.59
2	15.0	31.7	24.8	18.3	54.8	25.1	33.3	24.0	24.3	4.72	4.12	3.67
3	19.2	32.6	21.7	20.8	55.3	22.4	31.5	24.6	17.7	5.76	4.31	4.46
4	20.9	37.0	27.4	22.8	53.8	22.0	34.4	27.6	19.2	5.84	1.28	5.96
5	21.2	27.9	20.0	23.5	56.3	22.5	35.4	21.3	32.1	9.67	3.25	8.48
6	22.1	27.7	23.3	23.7	56.5	34.7	44.4	20.0	33.7	8.85	7.41	8.79
7	21.4	28.0	27.2	24.0	55.7	30.3	20.0	22.6	32.6	7.68	8.05	6.62
8	14.6	27.4	26.0	25.3	59.1	25.8	25.3	25.8	28.5	7.45	7.81	6.61
9	22.3	29.2	27.0	31.2	67.9	17.4	23.0	22.3	31.1	9.91	7.93	6.19
10	23.9	30.5	28.8	36.8	53.3	20.8	22.3	20.8	30.4	12.1	4.61	6.34
11	23.6	27.4	32.3	42.8	65.8	15.4	23.7	15.1	31.1	12.5	4.67	10.5
12	24.0	26.4	32.4	44.6	61.8	24.7	13.7	6.84	27.6	12.7	7.37	11.6
13	24.5	27.1	34.2	46.3	57.8	34.1	13.1	5.70	27.5	8.86	8.86	11.5
14	19.5	26.6	37.6	33.2	48.4	31.8	11.1	12.4	25.5	4.89	9.52	11.1
15	27.3	27.6	39.4	25.0	37.9	28.6	11.9	13.4	17.0	8.83	9.29	9.21
16	32.0	27.2	32.7	31.4	34.4	32.4	9.83	14.4	9.66	10.2	8.09	5.00
17	28.7	29.4	24.1	47.8	28.7	35.1	12.9	14.8	7.82	11.3	5.42	4.52
18	26.8	25.5	32.1	52.1	38.4	38.2	16.6	15.9	8.26	7.52	5.97	5.88
19	29.4	33.3	26.5	57.3	20.3	42.4	17.9	15.0	8.91	7.41	9.33	6.74
20	28.8	29.9	28.0	49.2	16.0	23.0	19.4	13.5	9.24	5.91	13.5	6.83
21	33.1	29.8	27.2	45.0	14.3	25.6	20.4	23.6	8.73	2.66	15.6	6.83
22	32.3	30.5	27.3	43.0	20.1	38.7	26.8	27.7	8.83	1.90	15.5	5.95
23	33.2	29.9	27.2	42.1	23.1	37.8	26.1	27.0	8.19	4.48	8.18	2.65
24	39.2	34.3	28.0	54.9	19.5	31.8	21.2	26.0	7.30	5.26	4.93	2.65
25	37.1	26.8	34.9	60.3	23.2	51.5	24.8	27.7	9.41	6.50	3.02	.06
26	37.1	23.9	40.2	54.3	26.5	49.3	28.0	25.4	10.9	4.84	1.41	1.78
27	38.7	23.8	38.3	64.8	26.7	49.0	30.7	22.0	12.6	2.91	8.70	4.91
28	19.7	23.9	32.0	64.0	28.0	49.7	29.1	28.0	11.6	1.62	8.54	6.52
29	31.3		30.0	41.6	30.4	62.8	22.1	25.4	6.25	1.91	9.84	5.94
30	31.0		27.2	57.0	29.6	57.1	18.3	21.0	4.24	3.07	9.79	2.52
31	28.6		23.9		29.6		18.9	19.5		4.66		2.06
Sum	814.98	807.0	905.2	1,203.3	1,251.9	1,008.3	724.03	634.64	533.54	205.93	220.82	190.46

	Current Year 2006							Period 1960-2006		
	Average Rainfall** Millimeters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	2006	1960-2006	Day	@ High	Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	3	34	24	39.2	1	8.48	26.3	70,414	46,526	119,807	6,010
Feb.	2	36	4	37.0	27	23.8	28.8	69,725	28,329	75,228	5,929
Mar.	25	28	26	40.2	5	20.0	29.2	78,209	35,767	84,858	9,551
April	1	41	27	64.8	2	18.3	40.1	103,965	63,090	125,384	4,333
May	50	69	9	67.9	21	14.3	40.4	108,164	95,384	168,687	8,409
June	25	71	29	62.8	11	15.4	33.6	87,117	80,708	162,181	13,724
July	46	48	6	44.4	16	9.83	23.4	62,556	58,666	114,350	13,947
Aug.	20	66	28	28.0	13	5.70	20.5	54,833	45,968	88,370	15,710
Sept.	185	133	6	33.7	30	4.24	17.8	46,098	29,252	68,815	5,314
Oct.	54	75	12	12.7	28	1.62	6.64	17,792	28,946	71,743	4,886
Nov.	7	37	21	15.6	4	1.28	7.36	19,079	23,838	66,002	4,252
Dec.	82	34	12	11.6	25	.06	6.14	16,456	22,683	55,789	5,297
Yearly	500	672		67.9		0.06	23.3	734,408	559,157	868,544	328,940

@ Mean daily ** United States side - average of several stations in the reach

08-4737.00 RIO GRANDE NEAR SAN BENITO, TEXAS AND RAMIREZ, TAMAULIPAS

DESCRIPTION: Cableway, concrete control weir, bubbler gage, water-stage recorders (graphic and digital), and DCP with GOES high data rate telemetry, located on the left bank at latitude 26 01'51", longitude 97 43'37", and river kilometer 156, 6.3 river kilometers downstream from San Benito pumping plant and about 15.3 kilometers southwest of San Benito, Texas. The zero of the gage is at mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 24 current-meter measurements during the year and a continuous record of gage heights. Computations for high flows by shifting control methods. Low and medium flow computations based on a stable control weir rating curve defined by current-meter measurements. Records available: November 26, 1952 through August 25, 1953, and December 1953 through 2006.

REMARKS: Except for diversions, tributary inflows, and drainage returns below Falcon Dam, flow at this station after August 25, 1953 was controlled largely by releases from Falcon Reservoir, 286 river kilometers upstream. Excessive upstream flood flows are partly diverted through the United States and Mexican floodway systems before reaching this station. The concrete control weir was constructed in December 1965, and the gage was moved to its present location just above the weir on January 4, 1967.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 708 CMS on September 29, 1967 with a gage height of 18.61 meters. Min. no flow occurs occasionally.

Average Flow in Cubic Meters per Second**

Daily:	Max.	702	Sept. 29, 1967	Min.	0	Occasionally	
Monthly:	Max.	405	Oct. 1971	Min.	1.12	Dec.	1956
Yearly:	Max.	107	1976	Min.	5.66		1956

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	9.99	* 13.5	11.3	13.3	* 11.4	* 12.5	30.3	* 8.75	3.60	19.8	* 11.0	* 10.0
2	17.5	13.9	* 9.28	10.5	9.02	18.9	33.6	9.32	4.80	19.7	9.92	11.6
3	9.09	11.4	10.2	* 14.0	13.9	19.4	33.7	9.47	7.55	* 16.3	9.30	11.5
4	* 6.29	12.7	13.4	12.2	15.0	20.3	38.2	13.0	15.6	13.4	10.8	14.7
5	6.92	15.9	19.7	8.31	19.8	21.3	47.7	14.9	* 18.4	13.0	12.4	12.3
6	5.80	18.4	18.7	9.08	24.4	21.2	* 48.6	19.5	10.4	12.6	13.5	11.5
7	3.90	13.6	11.0	8.40	25.6	14.6	40.7	16.4	9.85	22.1	10.1	13.1
8	7.29	10.9	10.2	6.78	28.5	11.9	35.6	12.8	13.2	34.3	10.2	17.3
9	13.0	6.92	11.5	21.6	32.1	17.6	37.6	10.5	15.7	28.8	10.5	18.5
10	8.78	4.35	12.9	42.5	38.3	17.3	38.0	9.28	17.6	19.6	12.7	21.7
11	8.09	2.89	15.9	45.2	34.5	14.1	38.9	10.9	26.5	14.1	11.7	23.2
12	10.8	3.37	32.4	46.2	33.7	19.3	32.9	17.4	23.7	10.8	12.2	14.6
13	11.7	8.52	24.8	29.2	39.3	13.0	24.3	17.7	32.2	13.0	11.2	11.8
14	9.86	10.7	21.5	8.32	41.1	10.4	24.8	15.4	* 41.5	18.8	12.0	11.5
15	12.0	* 8.71	18.5	9.95	61.5	* 12.8	22.4	* 11.4	49.5	21.4	* 11.8	15.5
16	16.1	10.4	9.13	30.9	* 67.4	16.0	20.4	8.76	51.5	* 35.2	11.9	12.4
17	* 17.2	9.73	10.2	* 40.6	70.9	16.7	* 17.4	6.39	40.5	27.2	11.5	13.8
18	12.0	11.5	11.3	40.1	59.3	16.5	11.4	7.92	39.5	16.3	12.9	* 13.2
19	9.64	12.8	15.8	29.9	47.2	14.3	10.4	9.76	52.5	11.5	13.1	10.2
20	9.81	19.4	12.4	12.5	41.0	12.4	11.2	11.8	60.6	12.6	12.8	10.9
21	11.6	15.1	7.42	8.00	39.6	18.5	8.88	14.9	61.5	14.9	8.71	10.9
22	12.3	12.2	8.88	8.26	35.0	18.3	7.91	8.22	52.4	19.5	9.55	10.8
23	11.6	11.8	11.8	25.1	24.6	15.0	10.6	10.0	40.6	17.7	12.1	14.1
24	8.19	10.2	16.1	31.5	26.9	19.9	13.1	11.7	34.1	12.4	16.8	22.2
25	5.41	9.89	24.1	29.1	19.4	28.9	12.3	12.0	49.4	11.3	21.0	31.6
26	6.93	11.9	31.9	37.3	14.0	27.3	12.8	7.65	* 70.7	11.1	17.3	30.1
27	7.27	14.2	27.6	25.2	17.9	24.4	12.0	15.7	58.2	13.1	17.9	20.3
28	13.0	11.6	22.3	25.2	13.9	23.7	11.4	20.7	42.3	14.9	11.8	16.1
29	14.3		16.3	28.0	24.9	22.3	17.2	9.75	30.4	18.6	11.5	14.5
30	17.5		15.1	18.1	11.8	25.4	21.8	7.60	23.7	21.7	11.6	21.3
31	15.4		14.8		6.64		18.6	5.86		14.0		25.4
Sum	329.26	316.48	496.41	675.30	948.56	544.2	744.69	365.43	998.00	549.7	369.78	496.6

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Volume-Thousand Cubic Meters Total	Period 1954-2006: Average	Maximum	Minimum
Jan.	10.850	10.515	21.1	2	2.90	7	10.6	28,448	48,039	393,481	3,601
Feb.	10.855	10.495	21.1	20	2.41	11	11.3	27,344	48,326	447,576	4,168
Mar.	11.060	10.625	37.8	12	6.75	21	16.0	42,890	43,129	444,640	3,164
April	11.315	10.600	48.0	12	5.23	22	22.5	58,346	55,195	430,013	9,689
May	11.910	10.580	73.0	15	5.00	31	30.6	81,956	83,182	472,420	7,830
June	10.900	10.605	32.0	26	6.00	1	18.1	47,019	86,902	647,984	19,815
July	11.240	10.630	52.0	6	7.48	21	24.0	64,341	75,338	552,457	5,790
Aug.	10.930	10.560	26.5	28	4.06	31	11.8	31,573	74,089	1,020,220	3,827
Sept.	12.135	10.525	73.0	26	2.90	1	33.3	86,227	126,569	787,894	9,513
Oct.	11.065	10.680	37.6	16	9.05	12	17.7	47,494	153,923	1,086,522	4,737
Nov.	10.855	10.630	21.8	25	7.91	21	12.3	31,949	75,181	816,665	6,699
Dec.	11.005	10.640	33.6	25	8.64	1	16.0	42,906	61,932	591,018	2,992
Yearly	12.135	10.495	73.0		2.41		18.7	590,493	931,805	3,383,956	179,397

* Discharge measurement(s) made on this day ** Period 1954-2006

08-4749.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, SAN BENITO TO BROWNSVILLE

Beginning June 1971, the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the jurisdiction of the 93rd District Court of Texas administered by its Special Watermaster.

During 2006, 27,604 hectares and several towns and rural homes were allotted Rio Grande water in the river reach between gaging stations near San Benito and Brownsville. Such irrigable area was 10.5% of the total irrigable area below Falcon Dam allotted Rio Grande water.

The total diversion during 2006 in this river reach was 128,527 TCM, or 9.4% of the total water diverted from the Rio Grande below Falcon Dam. Records of diversion in this river reach were determined by means of flowmeters, and by deflection meters which were developed by the International Boundary and Water Commission. More than one crop per year is often grown on parts of this land.

EXTREME FLOWS FROM RECORDS:

Average Flow in Cubic Meters per Second

Daily:	Max.	22.1	June 14, 1963	Min.	0	Occasionally	
Monthly:	Max.	15.3	June 1965	Min.	0.52	Feb.	1966
Yearly:	Max.	6.32	1965	Min.	2.47		2004

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1.10	3.93	5.38	3.60	7.51	3.31	6.65	4.88	2.80	2.77	2.16	1.18
2	1.47	4.40	5.52	2.16	10.3	2.42	6.11	4.01	3.23	2.03	2.10	1.27
3	1.42	4.50	6.14	2.38	8.74	1.53	6.44	3.91	3.68	1.85	2.06	1.05
4	1.22	5.33	5.16	3.33	7.92	1.71	6.49	3.61	2.22	1.88	1.28	1.63
5	2.95	4.26	5.12	2.19	8.36	1.50	5.09	2.86	2.53	1.99	1.56	3.10
6	1.52	7.20	3.77	1.82	7.64	2.51	6.19	1.62	2.52	2.67	1.87	3.31
7	1.89	7.23	2.90	1.82	5.31	2.42	6.35	3.02	2.96	4.09	1.44	2.33
8	1.56	6.84	3.06	5.79	8.01	2.83	3.75	4.48	2.96	3.75	1.19	1.68
9	1.79	6.73	4.10	5.88	7.86	2.74	2.72	4.44	4.49	4.16	1.39	3.07
10	2.34	7.18	3.15	8.28	7.86	2.80	1.79	4.42	5.29	3.80	1.56	5.93
11	2.00	6.85	3.85	8.55	7.43	2.48	1.49	5.61	5.19	2.05	1.08	6.04
12	2.44	7.78	3.94	9.48	8.06	1.59	2.26	6.33	6.58	1.51	1.04	6.04
13	3.25	4.82	5.83	10.1	8.10	3.65	2.31	5.48	5.08	1.58	1.95	6.93
14	3.48	3.97	8.55	10.4	6.77	3.65	2.94	4.90	6.10	1.58	1.86	5.34
15	3.01	4.72	7.84	8.69	8.83	4.59	3.03	2.61	6.30	1.57	1.91	2.64
16	3.56	5.56	7.78	8.18	9.97	4.68	3.06	1.25	5.04	1.50	1.39	1.27
17	3.23	6.22	6.17	8.04	8.31	6.31	3.83	2.68	4.64	1.88	1.61	1.26
18	4.95	4.85	6.81	8.37	6.72	8.31	3.54	1.89	4.40	1.48	1.46	1.83
19	6.07	4.28	6.64	7.70	5.73	8.59	2.65	1.38	3.72	1.19	1.45	1.80
20	7.30	4.19	4.80	7.80	5.64	8.51	3.27	1.74	3.78	1.15	2.18	1.06
21	7.03	4.07	3.95	9.01	5.62	7.90	3.98	1.91	4.25	1.11	2.05	1.02
22	5.77	4.91	5.82	7.33	4.65	9.04	3.38	5.64	2.97	1.20	3.41	1.67
23	6.11	6.22	6.63	6.77	2.56	8.09	1.82	5.77	2.18	1.23	3.15	1.73
24	5.71	5.45	5.50	9.07	3.27	7.37	2.34	6.06	2.04	1.35	2.06	1.68
25	3.37	5.30	4.10	9.33	3.92	1.28	3.75	6.03	1.80	1.16	1.97	1.97
26	1.74	3.51	1.16	8.91	4.44	6.57	5.00	5.94	2.00	1.17	1.37	1.73
27	2.37	4.13	4.50	9.48	3.76	7.72	6.61	3.91	1.96	1.16	1.40	1.73
28	2.04	4.41	6.20	10.0	1.70	6.64	6.62	4.34	1.74	1.11	1.33	1.42
29	1.70		5.59	8.43	1.73	7.56	6.42	3.20	2.07	1.17	1.78	1.51
30	2.12		5.14	2.80	1.76	5.39	3.56	2.79	1.64	1.50	1.34	1.10
31	1.69		4.99		2.29		7.08	3.50		1.01		1.03
Sum	96.20	148.84	160.09	205.69	190.77	143.69	130.52	120.21	106.16	57.65	52.40	75.35

	Current Year 2006						Period 1960-2006		
	Average Rainfall** Millimeters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	2006	1960-2006	Day @ High	Day @ Low	Average	Total	Average	Maximum	Minimum
Jan.	3	37	20 7.30	1 1.10	3.10	8,312	11,832	30,303	1,871
Feb.	3	34	12 7.78	26 3.51	5.32	12,860	8,866	25,442	1,268
Mar.	18	25	14 8.55	26 1.16	5.16	13,832	9,050	18,745	1,777
April	0	45	14 10.4	! 6 1.82	6.86	17,772	13,988	34,233	2,823
May	42	69	2 10.3	28 1.70	6.15	16,483	18,661	59,789	1,956
June	82	69	22 9.04	25 1.28	4.79	12,415	19,197	39,816	4,612
July	91	43	31 7.08	12 1.49	4.21	11,277	14,927	29,633	4,548
Aug.	22	70	12 6.33	16 1.25	3.88	10,386	11,827	21,680	4,021
Sept.	143	136	12 6.58	30 1.64	3.54	9,172	7,670	14,796	1,081
Oct.	55	81	9 4.16	31 1.01	1.86	4,981	6,858	14,503	1,962
Nov.	10	41	22 3.41	12 1.04	1.75	4,527	5,601	11,127	2,215
Dec.	85	38	13 6.93	21 1.02	2.43	6,510	5,978	11,785	2,484
Yearly	554	688	10.4	1.01	4.08	128,527	134,455	199,208	78,038

@ Mean daily ! And other days ** United States side - average of several stations in the reach

08-4750.00 RIO GRANDE NEAR BROWNSVILLE, TEXAS AND MATAMOROS, TAMAULIPAS

DESCRIPTION: Cableway, bubbler gage, water-stage recorders (graphic and digital), and DCP with GOES high data rate telemetry located on the left bank at latitude 25 52'33", longitude 97 27'18", and river kilometer 78.3, 0.3 river kilometer downstream from El Jardin pumping plant, and 11.2 river kilometers downstream from the international highway bridge (Gateway) between Brownsville, Texas and Matamoros, Tamaulipas. The zero of the gage is at mean sea level, U. S. C. & G. S. datum.

RECORDS: Based on 57 current-meter measurements during the year and a continuous record of gage heights. Computations by shifting control methods. Records available: 1934 through 2006.

REMARKS: Except for diversions, tributary inflows, and drainage returns below Falcon Dam, flow at this station after August 25, 1953 was controlled largely by releases from Falcon Reservoir, 364 river kilometers upstream. Excessive upstream flood flows are partly diverted into the United States and Mexican floodway systems before reaching this station.

EXTREME FLOWS FROM RECORDS: Momentary: Max. 898 CMS on October 8, 1945 with a gage height of 9.60 meters. Min. no flow occurs frequently.

Average Flow in Cubic Meters per Second**

Daily:	Max.	459	Oct. 19 & 20, 1971	Min.	0	Frequently
Monthly:	Max.	408	Oct. 1971	Min.	0.10	Aug. 1957
Yearly:	Max.	103	1976	Min.	1.19	1956

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.92	* 12.9	* 7.74	7.92	* 10.8	* 4.84	8.61	* 10.9	* 2.62	23.4	* 12.5	8.50
2	8.15	11.0	5.37	11.0	4.16	7.64	11.4	5.49	2.14	* 19.5	9.62	7.27
3	12.1	9.90	4.03	* 9.45	2.10	15.4	14.8	4.36	2.15	17.7	8.37	8.89
4	* 8.48	8.70	3.10	10.9	2.75	16.2	14.5	5.63	2.75	16.4	7.88	* 8.99
5	4.96	5.46	3.27	10.8	3.89	16.6	* 21.2	7.85	* 9.27	13.0	8.80	9.57
6	3.96	* 7.88	* 8.43	8.33	5.48	* 17.0	36.0	11.4	13.6	11.8	* 10.6	8.10
7	4.29	11.2	9.97	8.34	8.92	16.0	36.3	* 14.8	9.17	9.68	12.2	8.04
8	3.70	9.48	5.34	7.39	* 9.89	11.0	26.0	12.0	6.95	16.9	9.73	11.1
9	* 4.56	9.18	3.51	3.36	9.57	6.59	21.2	8.64	8.12	27.4	8.52	13.7
10	8.65	7.06	4.50	* 13.5	12.2	9.83	* 22.1	6.67	9.05	* 24.5	8.47	11.8
11	7.78	5.24	4.73	33.0	16.6	11.1	24.3	4.62	* 11.8	17.1	10.5	* 13.2
12	6.46	3.50	9.01	36.8	12.6	* 11.3	26.9	3.95	16.9	13.1	10.4	14.3
13	7.79	* 4.85	* 21.2	35.2	9.33	13.2	22.2	8.78	17.0	9.46	* 9.99	8.26
14	8.92	8.44	15.5	20.1	11.3	8.80	15.5	* 11.1	20.8	11.0	8.73	6.24
15	7.78	7.11	13.3	6.22	* 18.7	5.59	15.3	11.7	* 29.1	16.5	9.01	6.23
16	8.44	4.44	11.0	3.87	39.1	6.40	14.7	9.78	38.7	* 21.0	8.97	11.3
17	* 12.8	4.21	7.93	* 20.2	45.1	8.03	13.0	7.18	40.4	30.3	8.22	11.5
18	13.1	4.23	6.51	28.9	49.6	5.78	* 11.0	5.74	33.6	25.6	7.97	* 11.1
19	6.99	4.25	7.75	27.7	41.0	* 5.10	8.45	6.58	* 34.9	17.1	9.24	10.5
20	4.53	7.27	* 10.2	18.5	31.0	3.33	6.99	8.83	45.3	14.1	* 10.0	9.43
21	3.16	* 13.2	7.86	8.47	21.0	2.49	6.67	* 10.9	50.7	12.0	9.36	9.29
22	5.22	11.1	4.21	4.34	* 18.9	3.12	5.55	11.5	50.0	13.3	5.18	9.19
23	* 5.66	6.88	2.77	2.93	18.8	4.26	5.26	5.47	44.5	* 17.3	4.33	9.04
24	6.24	6.03	3.95	* 14.8	12.6	3.14	* 6.73	3.69	35.4	17.2	6.90	13.1
25	3.73	5.47	9.12	21.4	12.1	4.80	7.86	3.52	* 31.5	13.5	10.9	19.1
26	3.63	4.99	17.6	22.9	9.17	* 11.0	6.72	4.08	51.7	11.7	15.1	* 25.3
27	4.64	6.29	* 22.5	24.8	5.90	11.6	5.72	3.08	* 68.7	12.0	* 13.8	24.1
28	5.25	9.73	18.6	15.1	8.25	9.14	4.45	* 6.39	58.0	13.2	13.5	17.6
29	9.31		13.9	14.9	9.36	8.47	3.80	11.6	43.1	15.4	9.56	13.5
30	* 11.6		8.84	16.7	19.6	6.91	7.28	7.30	31.4	* 18.8	8.36	12.7
31	13.5		7.22		9.77		12.2	4.19		19.5		17.7
Sum	224.30	209.99	278.96	467.82	489.54	264.66	442.69	237.72	819.32	519.44	286.71	368.64

Month	Current Year 2006: Extreme Gage Meters High	Low	Extreme-Cubic Meters per Second High	Day	Low	Day	Average	Total	Period 1954-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.	1.545	0.625	15.6	18	2.89	25	7.24	19,380	37,241	407,379	349
Feb.	1.485	.565	14.4	21	2.97	12	7.50	18,143	41,025	446,279	1,303
Mar.	2.065	.585	24.0	27	2.15	23	9.00	24,102	35,391	445,080	2,532
April	2.390	.555	37.6	12	2.43	23	15.6	40,420	38,407	397,086	1,079
May	3.145	.585	50.4	18	1.80	3	15.8	42,296	62,636	438,873	2,807
June	1.705	.510	17.9	5	2.32	21	8.82	22,867	66,282	600,151	2,996
July	2.505	.710	39.3	7	3.52	29	14.3	38,248	62,695	539,704	1,383
Aug.	1.520	.515	16.1	7	2.88	27	7.67	20,539	60,726	1,001,626	269
Sept.	3.630	.450	70.8	27	1.85	3	27.3	70,789	112,243	784,150	1,171
Oct.	2.320	1.165	31.4	17	8.74	7	16.8	44,880	142,282	1,094,351	933
Nov.	1.570	.795	16.0	1	4.24	23	9.56	24,772	69,805	650,763	1,587
Dec.	2.155	.910	27.2	26	5.42	15	11.9	31,850	57,989	591,508	646
Yearly	3.630	0.450	70.8		1.80		12.6	398,286	786,722	3,263,087	37,722

* Discharge measurement(s) made on this day ** Period 1954-2006

08-4753.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, BROWNSVILLE TO THE GULF OF MEXICO

Beginning June 1971, the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the jurisdiction of the 93rd District Court of Texas administered by its Special Water Master.

During 2006, 1,180 hectares were allotted Rio Grande water in the river reach between the gaging station near Brownsville and the mouth of the Rio Grande. Such irrigable area was 0.4% of the total irrigable area below Falcon Dam allotted Rio Grande water.

The total diversion during 2006 in this river reach was 2,811 TCM, or 0.21% of the total water diverted from the Rio Grande below Falcon Dam. Records of diversions in this river reach were determined by means of flow meters. More than one crop per year is often grown on parts of this land.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second				
Daily:	Max.	2.78	June 1, 1996	Min.	0	Frequently
Monthly:	Max.	0.66	June 1965	Min.	0	Occasionally
Yearly:	Max.	0.20	1965	Min.	0.02	1976

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	0	0.22	0	0.32	0	0.10	0	0	0.07	0.16	0.26
2	0	0	.12	0	.42	0	.10	.04	0	.08	.16	.15
3	.08	0	.26	.41	.29	0	.10	.04	0	.01	.18	.15
4	.08	0	.26	.18	.35	0	0	.12	0	.01	.16	.17
5	.08	0	.23	.23	.36	.11	.10	.12	0	.01	.16	.24
6	0	.07	.30	.23	.26	.11	.10	.08	0	.01	.02	.15
7	0	.07	.30	.10	.14	.20	.10	.08	0	.01	.02	.13
8	0	.24	.45	.10	.23	.09	.10	.08	0	0	.02	.13
9	0	.24	.32	.10	.33	.01	.10	.08	0	0	.02	0
10	0	.24	.41	.20	.11	.01	.16	.08	0	0	.09	0
11	0	0	.14	.27	.18	0	.16	.08	0	0	.09	0
12	0	0	.09	.35	.22	.12	.16	0	0	0	.09	0
13	0	.12	.15	.25	.15	.12	0	0	0	0	.21	0
14	0	.09	.12	.16	.07	.12	0	0	.08	0	.14	0
15	0	.08	.09	.09	.07	.12	0	0	.08	0	.14	0
16	0	.02	.09	.09	.07	.12	0	0	.08	0	.14	0
17	.02	.02	.15	.35	.16	0	0	0	.08	.05	.26	0
18	.10	0	.06	.35	.16	0	0	0	.08	.05	.12	0
19	.10	0	.06	.59	.22	0	0	0	.08	.05	.12	0
20	.10	0	.06	.73	.13	0	0	0	.08	0	.22	0
21	.02	0	.06	.59	.13	0	.12	0	.08	0	.26	0
22	.02	.13	.06	.41	.22	.07	.12	0	0	0	.19	0
23	.02	.13	.09	.35	.22	.07	.12	0	0	0	.12	0
24	.02	.13	.12	.51	.22	.03	.17	0	0	0	.15	0
25	0	.09	.12	.40	.03	0	.17	0	.14	0	.08	0
26	0	0	0	.29	0	0	.17	0	.14	0	0	0
27	0	.07	.14	.17	0	0	.17	0	.14	0	0	.07
28	0	.13	.34	.04	0	0	.17	0	.14	0	0	.07
29	0		.45	.05	0	0	0	0	.20	0	0	.07
30	0		.40	0	0	0	0	0	.06	0	0	0
31	0		.40		0		0	0		0		0
Sum	0.64	1.87	6.06	7.59	5.06	1.30	2.49	0.80	1.46	0.35	3.32	1.59

	Current Year 2006						Period 1960-2006		
	Average Rainfall** Millimeters		Extreme-Cubic Meters per Second				Volume-Thousand Cubic Meters		
Month	2006	1960-2006	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	11	40	!18	0.10	! 1	0	0.02	55.3	363	1,573	0
Feb.	4	31	! 8	.24	! 1	0	.07	162	278	1,113	0
Mar.	10	23	! 8	.45	26	0	.20	524	202	782	0
April	1	44	20	.73	! 1	0	.25	656	383	1,195	0
May	64	65	2	.42	!26	0	.16	437	518	1,673	0
June	49	65	7	.20	! 1	0	.04	112	552	1,718	0
July	49	43	!24	.17	!13	0	.08	215	241	960	0
Aug.	40	71	! 4	.12	! 1	0	.03	69.1	129	391	0
Sept.	95	141	29	.20	! 1	0	.05	126	69.2	384	0
Oct.	106	87	2	.08	! 8	0	.01	30.2	74.6	314	0
Nov.	26	47	21	.26	!26	0	.11	287	85.8	311	0
Dec.	58	37	1	.26	! 9	0	.05	137	108	613	0
Yearly	513	694		0.73		0	0.09	2,811	3,004	6,212	670

@ Mean daily ! And other days ** United States side - average of several stations in the reach

08-4754.00 DIVERSIONS FROM THE RIO GRANDE
UNITED STATES SIDE, FALCON DAM TO THE GULF OF MEXICO

Beginning June 1971 the Texas Water Rights Commission, now the Texas Commission on Environmental Quality, assumed control of the United States portion of the water in Falcon Reservoir and in the Rio Grande below Falcon Dam, the disposition of such waters being made by its Rio Grande Watermaster. Previous to that, since June 1956, such waters had been under the jurisdiction of the 93rd District Court of Texas administered by its Special Watermaster.

In 2006, 262,316 hectares, several towns and many rural homes were allotted Rio Grande water between Falcon Dam and the Gulf of Mexico. The total diversion from the river was 1,367,578 TCM. Records of diversion from the Rio Grande were determined by means of flowmeters, by open channel rating stations and by deflection meters developed by the International Boundary and Water Commission. Drainage from more than 90% of this area does not return to the Rio Grande, but some of it is reused within the area. More than one crop per year is often grown on parts of this land.

Diversion data pertaining to "Diversions from the Rio Grande-United States Side below Rio Grande City" for the period 1922 through 1957 may be found in previous issues of these Water Bulletins. The area irrigated below Rio Grande City is about 99% of the total area irrigated on the United States side below Falcon Dam.

A breakdown by river reaches of the total diversion below Falcon Dam shown in the tabulation below may be found in appropriate downstream order in preceding pages of this Water Bulletin. Because the mean daily discharges are rounded, the total volumes shown in the summary below may not equal the sum of the volumes of the individual reaches.

EXTREME FLOWS FROM RECORDS:

		Average Flow in Cubic Meters per Second			
Daily:	Max. 159	June 1, 1960	Min. 0		Occasionally
Monthly:	Max. 123	June 1960	Min. 2.89		Mar. 1957
Yearly:	Max. 59.8	1989	Min. 24.5		2003

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	13.4	56.4	51.0	37.7	89.9	53.9	66.3	45.1	46.9	7.43	17.6	24.0
2	26.0	57.4	51.8	29.4	97.5	47.2	57.6	43.7	44.1	10.5	16.9	15.9
3	35.4	56.8	48.8	42.2	99.2	39.5	56.6	43.5	33.6	13.4	16.6	14.7
4	38.1	59.2	51.7	48.7	96.5	32.8	50.7	46.8	36.1	13.2	9.96	21.0
5	40.2	43.2	42.9	48.3	99.8	37.2	51.0	37.3	57.0	16.7	11.0	27.4
6	44.5	53.3	51.1	53.9	94.9	55.5	60.8	35.0	58.1	16.2	18.0	27.5
7	39.9	56.0	55.3	52.7	87.3	49.5	36.9	41.1	57.8	13.2	18.6	23.3
8	30.7	53.8	53.6	55.5	98.5	45.1	35.6	46.3	52.5	12.8	17.9	17.8
9	41.5	55.8	58.5	59.4	109	36.4	30.6	41.9	56.7	18.6	19.3	15.9
10	45.4	56.5	61.5	73.7	95.6	39.6	31.7	39.5	50.6	22.8	17.8	17.5
11	45.1	52.1	63.0	80.7	105	31.3	33.5	33.7	54.8	21.1	15.1	21.7
12	49.2	46.0	54.3	82.3	99.8	47.7	25.1	24.7	45.5	22.0	17.0	23.7
13	50.3	55.7	65.4	84.2	91.5	60.1	23.1	22.9	40.4	17.2	23.0	23.3
14	38.4	56.4	75.0	67.8	78.1	58.1	22.1	33.3	35.5	10.8	24.1	20.9
15	43.2	57.7	75.4	54.9	73.8	57.5	21.4	32.5	26.8	13.8	22.4	15.7
16	53.7	57.6	67.3	58.8	68.7	61.6	18.9	34.2	16.7	22.6	19.6	9.12
17	53.2	57.9	56.6	83.5	57.8	67.5	27.4	34.8	13.7	20.4	16.6	9.33
18	54.4	48.8	62.1	88.8	60.0	69.1	30.3	37.0	14.5	14.8	15.8	16.5
19	59.3	50.6	50.9	94.7	41.8	78.6	30.9	33.4	15.1	14.7	19.2	16.8
20	60.1	56.3	57.6	85.9	36.3	60.6	38.6	33.0	16.8	13.3	26.9	16.2
21	57.5	55.4	57.4	81.8	30.2	63.2	41.4	48.8	17.0	8.94	29.8	13.5
22	52.1	58.1	60.4	74.2	43.4	77.0	45.1	57.2	15.1	5.76	29.0	12.8
23	60.8	56.7	61.6	66.4	47.2	73.3	44.0	57.2	13.2	9.52	18.3	8.13
24	68.4	58.1	58.7	94.7	44.6	62.6	41.5	56.5	10.4	10.5	14.9	5.42
25	65.1	44.2	59.6	101	48.1	72.0	47.2	56.7	12.9	14.1	10.6	3.17
26	60.4	36.0	55.0	95.9	51.2	76.1	50.6	44.8	23.0	14.2	9.87	7.76
27	62.4	42.5	63.0	106	48.3	81.1	54.3	35.8	18.0	12.5	24.5	16.1
28	41.6	40.6	58.7	106	44.9	84.2	52.4	51.0	17.6	8.06	24.6	15.2
29	44.3		56.8	79.6	50.9	95.1	39.0	48.5	11.8	7.10	24.8	12.3
30	50.2		51.8	81.2	55.7	85.6	29.0	44.5	8.26	13.3	24.1	6.09
31	49.1		44.7		57.2		31.3	44.9		14.8		4.53
Sum	1,479.1		2,169.9		1,799.0		1,285.6		434.31			483.25
	1,473.9		1,781.5		2,202.7		1,224.9		920.46		573.83	

	Current Year 2006							Period 1958-2006		
	Average Rainfall** Millimeters		Extreme-Cubic Meters per Second					Volume-Thousand Cubic Meters		
Month	2006	1958-2006	Day	@ High	Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.	3	33	24	68.4	1	13.4	47.5	127,345	89,380	224,987	11,984
Feb.	3	32	4	59.2	26	36.0	52.8	127,794	68,528	155,700	14,537
Mar.	14	21	15	75.4	5	42.9	57.5	153,922	92,910	193,098	19,538
April	8	36	27	106	2	29.4	72.3	187,479	135,368	258,994	15,713
May	37	62	9	109	21	30.2	71.1	190,313	151,546	306,530	19,823
June	39	66	29	95.1	11	31.3	60.0	155,434	161,349	319,179	28,140
July	65	41	1	66.3	16	18.9	39.5	105,831	128,882	242,015	38,857
Aug.	18	57	!22	57.2	13	22.9	41.5	111,076	107,688	182,408	44,662
Sept.	174	114	6	58.1	30	8.26	30.7	79,528	70,689	168,349	15,676
Oct.	62	73	10	22.8	22	5.76	14.0	37,524	74,004	162,305	16,023
Nov.	7	33	21	29.8	26	9.87	19.1	49,579	62,013	163,201	15,633
Dec.	81	29	6	27.5	25	3.17	15.6	41,753	57,226	113,823	17,311
Yearly	511	597		109		3.17	43.4	1,367,578	1,199,583	1,879,991	772,103

@ Mean daily ! And other days ** United States side - average of several stations in the reach

OUTFALLS FROM SEWERS INTO THE RIO GRANDE

In Thousand Cubic Meters

EL PASO SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande through the outfall of the Haskell Street Wastewater Treatment Plant located 11.4 river kilometers downstream from the American Dam and the Northwest Wastewater Treatment Plant which enters the Rio Grande 0.5 miles upstream from the American Dam. Outfalls from both Plants are measured by means of ultrasonic flow meters with a Parshall flume at the Northwest Plant. Beginning in 1999, the Haskell Street Plant discharges primarily to the American Canal Extension, and these volumes are not reflected in the tabulation below. The records are furnished by the City of El Paso, Texas.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	1,043	739	571	515	477	473	566	818	675	774	921	922	8,494
Average	1,532	1,388	1,319	1,242	1,249	1,259	1,339	1,374	1,246	1,305	1,341	1,390	15,984

Period average 1997-2006

CD. ACUNA SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande at approximately river kilometer 899. The outfall from this plant is measured by means of a flowmeter. The records are furnished by the Mexican Section of the Commission.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	645	624	681	513	661	738	709	744	647	703	645	675	7,985
Average	485	452	489	429	444	509	540	545	509	440	430	487	5,759

Period average 2000-2006

EAGLE PASS SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande at approximately river kilometer 782. The outfall from this plant is measured by means of a flowmeter. The records are furnished by the Eagle Pass Water Treatment Department.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	336	306	355	365	357	311	315	276	307	310	286	338	3,862
Average	321	296	325	313	322	302	321	322	327	340	323	341	3,853

Period average 1997-2006

PIEDRAS NEGRAS SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande at approximately river kilometer 794.3. The outfall from this plant is measured by means of a flowmeter. The records are furnished by the Mexican Section of the Commission.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	980	862	957	917	978	949	992	1,007	993	994	945	964	11,538
Average	949	863	977	957	985	953	982	979	936	968	952	955	11,456

Period average 2000-2006

LAREDO SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande from two sewage treatment plants, Zacate Creek Sewage Treatment Plant and Southside Sewage Treatment Plant. These sewage outfalls enter the Rio Grande at river kilometers 579 and 573, 1.4 and 7.9 river kilometers respectively downstream from the old international highway bridge Laredo, Texas and Nuevo Laredo, Tamaulipas. The records are furnished by the Laredo Water Treatment Plant in Laredo, Texas.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	1,752	1,627	1,836	1,769	1,887	1,844	1,915	1,951	1,972	2,014	1,862	1,977	22,406
Average	1,597	1,498	1,692	1,691	1,802	1,741	1,810	1,823	1,787	1,788	1,680	1,673	20,582

Period average 1997-2006

OUTFALLS FROM SEWERS INTO THE RIO GRANDE

In Thousand Cubic Meters

NUEVO LAREDO SEWAGE OUTFALL

The effluent of the International Wastewater Treatment Plant is measured by means of a Parshall flume equipped with an electronic digital recorder, chart recorder, and staff gage. The plant discharges to the Arroyo del Coyote at a point approximately 100 meters upstream from the confluence of the Arroyo with the Rio Grande at river kilometer 569.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	2,621	2,283	2,558	2,501	2,496	2,519	2,644	2,655	2,767	2,917	2,717	2,813	31,491
Average	2,904	2,692	3,023	2,897	3,060	2,977	3,081	3,035	3,048	3,035	2,938	2,949	35,639

Period average 1998-2006

ROMA SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande at river kilometer 409.1, 1.3 river kilometers downstream from the Cd. Miguel Aleman, Tamaulipas - Roma, Texas highway bridge. Records furnished by the City of Roma, Texas.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	51.2	45.4	63.6	69.9	77.8	77.4	80.5	85.6	98.5	81.3	60.2	56.3	848
Average	39.4	35.0	42.0	43.0	50.0	44.4	44.6	46.5	49.7	45.8	38.2	36.3	515

Period average 1997-2006

RIO GRANDE CITY SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande at river kilometer 378.5, 0.4 river kilometers upstream from the Rio Grande at Rio Grande City Gaging Station and 0.6 river kilometers upstream from the Cd. Camargo, Tamaulipas - Rio Grande City, Texas highway bridge. Records furnished by Rio Grande City, Texas.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	87.6	79.5	87.0	82.2	89.3	90.5	84.6	89.3	96.8	96.0	79.7	86.1	1,049
Average	89.1	86.0	84.5	86.6	95.8	87.0	87.5	87.4	96.0	103.0	91.3	87.2	1,081

Period average 1997-2006

BROWNSVILLE SEWAGE OUTFALL

Treated sewage effluent enters the Rio Grande at river kilometer 75.3, 14.3 river kilometers downstream from the Gateway Bridge between Brownsville, Texas and Matamoros, Tamaulipas and 3.1 river kilometers downstream from the Brownsville Gaging station. Records are furnished by the City of Brownsville.

Month	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
2006	616	553	619	615	675	624	670	655	660	704	619	644	7,654
Average	608	563	631	626	657	623	639	652	673	698	625	619	7,613

Period average 1997-2006

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

MUNICIPAL AND INDUSTRIAL WATER USES

In Thousand Cubic Meters

Tabulated below are monthly and yearly amounts of water pumped from the Rio Grande directly into municipal distribution systems of cities along the border, except for the city of Del Rio, whose main supply is derived from San Felipe Springs; and the city of El Paso, whose supply is partially derived from deep wells. The amount shown below for the city of El Paso is Rio Grande water pumped from the Franklin Canal at the Robertson-Umbenhauer Water Treatment Plant and from the Riverside Canal at the Jonathan W. Rogers Water Treatment Plant for municipal use. Ciudad Acuna, Coahuila, whose municipal diversion from the Rio Grande started in 1971, may at times use an alternate source from Arroyo Las Vacas, which was its previous source of supply. Such use would be reflected in the tabulations below.

All Rio Grande water used by U. S. municipalities below Falcon Dam is also included in the figures shown under "Diversions from the Rio Grande - United States Side..." (by river reaches and total below Falcon Dam) on prior pages of this bulletin. Population data was provided by the Chamber of Commerce for each city in the United States, except El Paso, which was provided by the City Planning Office; Falcon Village, estimated by the International Boundary and Water Commission; Del Rio, by the Middle Rio Grande Development Council; Laughlin Air Force Base, by the U.S. Air Force; Laredo, by the Laredo Development Foundation; and Rio Bravo and San Ygnacio, which are based on utilities connections.

In the United States

	EL PASO (Pop. 583,949)				DEL RIO (Pop. 33,865)			
		Period 1997 - 2006				Period 1997 - 2006		
Month	2006	Average	Maximum	Minimum	2006	Average	Maximum	Minimum
Jan.	0	0	0	0	832	892	1,122	767
Feb.	0	265	832	0	782	860	1,130	644
Mar.	2,301	3,597	6,654	0	1,060	1,063	1,355	812
April	8,098	6,388	9,017	0	1,145	1,221	1,756	789
May	10,119	7,938	10,647	941	1,206	1,357	1,844	936
June	10,417	9,412	10,817	6,415	1,508	1,424	1,894	1,124
July	9,996	9,488	11,145	5,657	1,534	1,599	2,093	1,105
Aug.	6,218	9,219	10,692	6,218	1,390	1,472	2,015	667
Sept.	7,070	8,509	9,910	6,348	1,027	1,276	1,647	955
Oct.	2,823	2,342	4,380	0	976	1,049	1,461	810
Nov.	0	0	0	0	937	887	1,289	727
Dec.	0	0	0	0	791	868	1,163	773
Yearly	57,042	57,158	71,153	31,551	13,188	13,968	16,729	10,874

	EAGLE PASS (Pop. 22,413)				LAREDO (Pop. 176,576)			
		Period 1997 - 2006				Period 1997 - 2006		
Month	2006	Average	Maximum	Minimum	2006	Average	Maximum	Minimum
Jan.	626	490	626	417	4,480	3,189	4,480	2,576
Feb.	669	479	669	388	3,494	2,867	3,494	2,387
Mar.	871	579	871	474	4,649	3,452	4,649	2,762
April	850	651	850	436	4,873	3,839	4,873	2,501
May	919	744	919	542	5,098	4,485	5,098	3,232
June	1,063	790	1,063	537	5,674	4,774	5,716	3,344
July	1,039	814	1,039	650	5,891	5,134	6,552	3,993
Aug.	1,093	880	1,093	654	6,321	5,148	6,321	4,662
Sept.	865	701	900	465	5,534	4,077	5,534	3,207
Oct.	843	608	843	520	4,669	3,582	4,669	2,957
Nov.	766	536	766	428	4,426	3,223	4,426	2,546
Dec.	690	523	690	422	3,644	3,150	3,644	2,427
Yearly	10,294	7,795	10,294	6,482	58,753	46,920	58,753	38,393

	LAREDO POWER STATION				RIO BRAVO (Pop. 5,553)			
		Period 1997 - 2006				Period 1997 - 2006		
Month	2006	Average	Maximum	Minimum	2006	Average	Maximum	Minimum
Jan.	82.8	74.0	111	40.0	106	93.4	106	81.5
Feb.	114	72.3	114	30.3	99.7	80.8	99.7	60.7
Mar.	143	78.1	143	40.0	109	98.9	132	63.6
April	138	113	216	54.0	104	109	132	69.3
May	208	165	213	122	117	135	202	89.6
June	252	191	252	156	127	138	178	84.0
July	262	234	286	180	130	148	197	124
Aug.	281	246	343	194	138	142	163	119
Sept.	238	193	239	110	107	120	153	97.2
Oct.	183	137	203	87.0	97.7	102	112	88.9
Nov.	151	85.8	151	16.1	63.4	92.4	149	63.4
Dec.	141	90.0	146	50.2	77.7	97.2	146	77.7
Yearly	2,194	1,679	2,194	1,274	1,277	1,357	1,529	1,068

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

MUNICIPAL AND INDUSTRIAL WATER USES

In Thousand Cubic Meters

In the United States

Month	SAN YGNACIO (Pop. 853) 2006	Period 1997 - 2006 Average	Maximum	Minimum	ZAPATA (Pop. 13,567) 2006	Period 1997 - 2006 Average	Maximum	Minimum
Jan.	35.7	20.2	35.7	14.6	244	179	244	130
Feb.	25.5	18.5	29.0	13.1	247	160	247	125
Mar.	34.6	23.8	35.4	17.7	256	195	256	158
April	38.0	27.1	44.7	18.5	326	213	326	122
May	41.3	29.2	45.1	18.5	241	222	258	170
June	41.1	29.9	45.1	19.6	290	231	290	171
July	37.1	30.0	39.9	22.9	283	242	326	151
Aug.	44.5	32.1	46.8	23.9	283	249	296	208
Sept.	32.5	24.3	39.1	13.9	290	207	290	142
Oct.	34.0	24.1	37.2	16.2	186	194	316	156
Nov.	32.7	21.1	32.7	13.4	232	176	232	113
Dec.	32.4	21.2	32.4	13.4	232	178	287	115
Yearly	429	302	454	231	3,110	2,446	3,110	2,057

Month	FALCON VILLAGE (Pop. 85) 2006	Period 1997 - 2006 Average	Maximum	Minimum	ROMA (Pop. 9,613) 2006	Period 1997 - 2006 Average	Maximum	Minimum
Jan.	5.2	6.6	10.0	3.9	213	200	227	182
Feb.	5.5	6.5	9.6	4.2	206	188	206	165
Mar.	5.4	7.9	11.7	4.9	243	215	248	183
April	7.8	9.1	12.9	4.5	248	216	248	158
May	7.2	9.8	13.3	4.4	263	250	292	187
June	10.1	10.4	13.3	7.2	259	238	285	199
July	11.2	10.7	14.7	6.6	264	251	312	205
Aug.	12.5	11.5	14.7	7.0	293	265	316	215
Sept.	6.8	8.7	14.1	4.0	270	225	278	150
Oct.	4.9	7.8	10.4	4.5	206	249	540	196
Nov.	5.1	6.8	10.2	4.3	226	220	416	177
Dec.	4.9	6.3	9.9	3.9	201	197	218	182
Yearly	86.6	102	140	60.9	2,892	2,714	3,188	2,305

Month	RIO GRANDE CITY (Pop. 14,000) 2006	Period 1997 - 2006 Average	Maximum	Minimum	BROWNSVILLE (Pop. 150,000) 2006	Period 1997 - 2006 Average	Maximum	Minimum
Jan.	311	283	354	209	3,199	2,255	3,199	1,759
Feb.	314	229	314	158	2,729	2,135	3,331	1,605
Mar.	351	256	407	112	3,014	2,368	3,319	1,920
April	419	314	438	175	3,053	2,527	4,284	1,630
May	377	328	444	197	3,942	2,829	3,942	1,916
June	377	340	438	222	3,474	2,844	4,238	2,017
July	466	363	466	259	3,252	2,901	3,854	1,945
Aug.	366	341	451	263	3,220	2,907	4,110	2,163
Sept.	423	311	423	174	3,353	2,401	3,403	1,781
Oct.	315	290	436	125	3,311	2,475	3,713	1,733
Nov.	338	267	349	171	2,887	2,299	3,595	1,678
Dec.	353	269	423	60.4	2,919	2,209	3,004	1,727
Yearly	4,410	3,591	4,410	2,668	38,353	30,150	42,859	23,013

MUNICIPAL AND INDUSTRIAL WATER USES

In Thousand Cubic Meters

In Mexico

Month	CD. ACUNA, COAHUILA (Pop. 110,487)				RIO ESCONDIDO POWER PLANT			
	2006	Period 1997 - 2006			2006	Period 1997 - 2006		
		Average	Maximum	Minimum		Average	Maximum	Minimum
Jan.	1,229	776	1,229	327	2,805	2,314	3,086	1,452
Feb.	892	694	1,072	295	2,406	2,063	2,427	1,694
Mar.	1,088	801	1,274	324	2,172	2,200	2,739	1,855
April	1,099	783	1,308	316	2,595	2,195	2,879	1,504
May	1,213	851	1,309	324	2,729	2,509	3,050	1,687
June	1,155	865	1,440	319	2,845	2,518	3,200	1,915
July	1,274	940	1,566	329	2,972	2,703	3,940	2,074
Aug.	1,255	967	1,606	330	2,538	2,645	3,278	1,759
Sept.	1,108	869	1,399	315	2,046	2,355	2,957	1,605
Oct.	1,154	849	1,326	325	2,388	2,094	2,504	1,501
Nov.	1,139	799	1,299	310	2,399	2,102	2,688	1,618
Dec.	1,023	791	1,156	319	2,680	2,069	2,680	1,190
Yearly	13,629	9,985	14,893	3,833	30,575	27,767	32,213	23,332

Month	PIEDRAS NEGRAS, COAHUILA (Pop. 128,130)				NUEVO LAREDO, TAMAULIPAS (Pop. 310,915)			
	2006	Period 1997 - 2006			2006	Period 1997 - 2006		
		Average	Maximum	Minimum		Average	Maximum	Minimum
Jan.	1,408	1,315	1,522	870	4,222	3,990	4,222	3,701
Feb.	1,213	1,201	1,270	1,051	3,217	3,618	3,981	3,217
Mar.	1,353	1,374	1,507	1,179	4,299	4,089	4,461	3,775
April	1,188	1,451	1,680	1,141	4,359	4,112	4,650	3,692
May	1,598	1,560	1,825	1,176	4,710	4,419	5,020	3,934
June	1,708	1,661	1,840	1,360	4,784	4,407	4,800	3,857
July	1,515	1,719	1,949	1,439	4,822	4,631	4,929	4,186
Aug.	1,766	1,769	1,876	1,670	4,955	4,724	5,270	3,913
Sept.	1,628	1,603	1,781	1,363	4,568	4,486	4,800	4,212
Oct.	1,557	1,553	1,733	1,368	4,221	4,370	4,870	4,210
Nov.	1,466	1,367	1,475	1,030	3,985	4,088	4,490	3,859
Dec.	1,356	1,355	1,465	1,142	3,869	4,100	4,864	3,711
Yearly	17,756	17,928	18,787	15,777	52,011	51,034	53,821	48,208

Month	NUEVA CD. GUERRERO, TAMAULIPAS (Pop. 4,366)				CD. MIER, TAMAULIPAS (Pop. 6,788)			
	2006	Period 1997 - 2006			2006	Period 1997 - 2006		
		Average	Maximum	Minimum		Average	Maximum	Minimum
Jan.	30.6	49.3	66.3	25.2	72.6	64.9	80.4	53.6
Feb.	45.6	47.1	65.5	23.0	67.8	55.1	67.8	43.2
Mar.	30.1	47.7	72.6	22.5	71.6	60.2	78.6	48.8
April	34.7	49.3	70.0	29.8	72.3	64.1	77.1	47.2
May	33.7	56.0	85.8	29.7	71.6	71.4	80.4	53.6
June	36.0	51.8	72.6	35.4	72.1	71.6	79.3	51.8
July	43.9	54.1	72.4	35.0	71.8	71.7	80.4	56.2
Aug.	39.8	52.8	64.7	35.1	77.7	70.0	77.7	53.6
Sept.	36.7	51.5	69.9	28.7	78.6	66.4	78.6	47.1
Oct.	26.9	47.3	67.4	26.9	78.7	65.5	78.7	53.6
Nov.	28.5	44.9	62.1	26.0	77.7	61.6	77.7	49.3
Dec.	20.9	45.7	73.9	20.9	72.0	66.1	77.9	53.6
Yearly	407	598	761	378	885	789	905	683

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

MUNICIPAL AND INDUSTRIAL WATER USES

In Thousand Cubic Meters

In Mexico

Month	CD. MIGUEL ALEMAN, TAMAULIPAS (Pop. 25,704)				CAMARGO, TAMAULIPAS (Pop. 16,787)			
	2006	Period 1997 - 2006			2006	Period 2000 - 2006		
		Average	Maximum	Minimum		Average	Maximum	Minimum
Jan.	294	228	294	139	0	16.1	58.8	0
Feb.	240	214	241	176	0	13.0	57.9	0
Mar.	294	250	294	206	0	16.0	58.7	0
April	308	248	308	181	0	27.0	70.0	0
May	315	276	315	251	0	31.4	80.4	0
June	368	290	368	252	0	29.6	80.4	0
July	378	298	378	266	0	29.1	77.8	0
Aug.	417	298	417	253	0	33.0	80.4	0
Sept.	362	266	362	215	0	30.0	72.9	0
Oct.	354	266	354	181	0	17.5	61.3	0
Nov.	369	244	369	181	0	24.7	62.2	0
Dec.	305	243	305	170	0	22.6	58.8	0
Yearly	4,004	3,121	4,004	2,741	0	290	772	0

Month	CD. DIAZ ORDAZ, TAMAULIPAS (Pop. 16,246)				REYNOSA, TAMAULIPAS (Pop. 420,463)			
	2006	Period 1997 - 2006			2006	Period 1997 - 2006		
		Average	Maximum	Minimum		Average	Maximum	Minimum
Jan.	44.2	102	187	41.1	6,055	4,493	6,055	3,370
Feb.	39.8	89.0	139	38.4	5,487	4,355	6,566	2,998
Mar.	47.0	107	182	43.4	5,952	4,655	5,952	3,413
April	48.4	100	146	43.2	4,405	4,722	5,948	3,162
May	52.5	110	163	48.8	5,994	5,611	7,059	3,110
June	61.5	107	155	52.2	5,935	5,485	7,010	3,266
July	55.6	109	156	50.6	6,047	5,774	6,683	3,845
Aug.	57.9	117	199	52.0	6,179	5,920	6,628	4,545
Sept.	45.7	95.8	164	43.2	5,692	5,487	6,746	4,657
Oct.	41.4	94.4	154	41.4	6,019	5,354	6,573	4,018
Nov.	45.3	89.0	149	43.2	6,021	5,010	6,021	3,741
Dec.	43.8	87.4	149	42.3	5,996	4,828	5,996	3,491
Yearly	583	1,208	1,826	570	69,782	61,694	74,063	43,936

Month	CONTROL-VALLE HERMOSO, TAMAULIPAS (Pop. 58,873)				MATAMOROS, TAMAULIPAS (Pop. 418,141)			
	2006	Period 1998 - 2006			2006	Period 1997 - 2006		
		Average	Maximum	Minimum		Average	Maximum	Minimum
Jan.	535	435	609	250	4,260	4,517	6,016	3,002
Feb.	467	399	576	219	3,832	4,213	5,402	3,006
Mar.	538	397	586	69.1	4,292	4,495	5,954	3,000
April	537	424	580	252	4,230	4,296	5,725	2,903
May	541	400	594	284	4,303	4,577	5,867	3,708
June	476	429	588	274	4,402	4,672	5,177	4,017
July	434	432	614	187	4,462	4,977	5,481	4,234
Aug.	526	431	618	264	4,937	5,072	5,472	4,396
Sept.	529	459	621	334	4,878	5,036	8,353	3,359
Oct.	550	471	629	327	5,039	4,563	5,866	3,242
Nov.	533	462	591	333	4,660	4,715	5,648	4,147
Dec.	624	453	624	314	4,288	4,773	6,003	3,995
Yearly	6,290	5,192	7,080	3,154	53,583	55,906	66,560	49,294

STORED WATER IN LARGE RESERVOIRS OF THE RIO GRANDE BASIN
In Million Cubic Meters

Data are presented below for all storage reservoirs in the Rio Grande basin in the United States and Mexico that exceed 18.5 million cubic meters in capacity. The monthly figures represent the water in storage on the last day of each month, in millions of cubic meters. The capacities indicated are at spillway level. Storage figures greater than the capacity indicate that the water surface was above spillway level.

The reservoirs and the agencies providing the data are: Rio Grande, Continental, Santa Maria, Terrace, Mountain Home, Sanchez and Platoro from the State of Colorado, Division of Water Resources; Heron, El Vado, Elephant Butte, Caballo, Sumner, and Brantley from the United States Bureau of Reclamation; Abiquiu, Cochiti, Jemez Canyon and Santa Rosa from United States Corps of Engineers; Costilla and Bluewater from the United States Geological Survey; Storrie from the State Engineer Office of New Mexico; Red Bluff from the Red Bluff Water Power Control District; Delta Lake from the Delta Lake Irrigation District. The data for all reservoirs in the Mexican portion of the watershed were provided by the National Water Commission. The data for Amistad Reservoir (International) and Falcon Reservoir (International) were provided by the International Boundary and Water Commission.

In the United States

	RIO GRANDE (Capacity 63.0)		CONTINENTAL (Capacity 28.0)		SANTA MARIA (Capacity 55.6)		TERRACE (Capacity 21.2)		MOUNTAIN HOME (Capacity 22.9)	
Month	2006	Average 1927-2006	2006	Average 1928-2006	2006	Average 1928-2006	2006	Average 1925-2006	2006	Average 1924-2006
Jan.	27.4	17.7	1.9	5.8	9.3	9.9	7.4	5.6	2.6	4.4
Feb.	28.9	19.1	2.4	6.3	9.5	10.4	8.0	6.1	2.8	4.7
Mar.	29.8	21.0	3.2	7.0	9.9	10.8	8.9	7.0	3.1	5.1
April	27.2	22.4	3.8	7.9	9.2	11.6	9.3	7.5	3.5	5.8
May	21.0	25.5	3.8	9.3	9.3	14.1	9.8	8.5	3.7	7.9
June	8.1	27.8	1.2	9.3	5.7	16.4	7.9	9.8	3.5	8.5
July	8.1	18.4	1.3	6.7	5.6	13.6	5.7	7.7	2.8	6.1
Aug.	8.7	12.1	1.3	4.6	5.7	9.6	4.9	5.2	2.3	3.9
Sept.	10.0	10.6	1.3	4.1	5.6	8.3	4.2	4.3	2.0	3.3
Oct.	11.4	11.1	1.2	4.1	5.7	8.5	4.5	4.2	2.1	3.4
Nov.	19.2	13.5	2.7	4.4	7.1	9.1	5.8	4.7	2.5	3.7
Dec.	23.7	16.3	3.8	5.4	7.9	9.6	7.6	5.1	2.7	4.1
Avg.	18.6	18.0	2.3	6.2	7.5	11.0	7.0	6.3	2.8	5.1
Max.	29.8	67.6	3.8	32.9	9.9	51.9	9.8	21.8	3.7	20.2
Min.	8.1	0	1.2	0	5.6	0	4.2	0	2.0	0

	SANCHEZ (Capacity 127.3)		PLATORO (Capacity 73.5)		COSTILLA (Capacity 19.4)		HERON (Capacity 495.0)		EL VADO (Capacity 229.8)	
Month	2006	Average 1927-2006	2006	Average 1952-2006	2006	Average 1922-2006	2006	Average 1971-2006	2006	Average 1935-2006
Jan.	26.3	20.6	9.4	19.9	12.2	6.0	225.2	324.8	135.3	74.4
Feb.	25.9	20.6	9.5	19.7	12.5	6.5	207.8	319.7	136.1	72.7
Mar.	26.2	21.4	9.8	20.0	13.1	7.1	189.5	308.8	135.8	79.3
April	26.4	22.7	9.9	19.9	14.4	8.4	199.4	305.3	154.6	116.6
May	23.3	25.5	19.4	23.5	13.3	10.6	229.7	343.0	147.7	156.1
June	17.5	27.2	18.4	31.1	9.7	10.2	237.5	371.4	94.6	148.1
July	14.1	22.7	14.8	28.1	7.1	7.0	237.2	371.5	69.6	127.2
Aug.	13.3	19.2	13.8	25.0	6.0	4.7	238.5	368.6	69.7	104.3
Sept.	12.5	18.6	12.0	24.3	4.4	4.0	244.9	363.7	65.2	89.9
Oct.	14.7	19.5	10.2	23.2	5.6	4.5	260.0	362.3	75.8	84.0
Nov.	15.8	20.0	10.9	20.3	6.4	5.0	244.4	356.9	79.0	76.6
Dec.	16.4	20.4	11.5	20.5	7.0	5.5	225.8	336.2	86.6	75.7
Avg.	19.4	21.5	12.5	23.0	9.3	6.6	228.3	344.4	104.2	100.4
Max.	26.4	78.6	19.4	68.2	14.4	20.2	260.0	495.0	154.6	251.0
Min.	12.5	0	9.4	0	4.4	0	189.5	0	65.2	0

STORED WATER IN LARGE RESERVOIRS OF THE RIO GRANDE BASIN
In Million Cubic Meters

In the United States

	ABIQUIU (Capacity 1,481.4)		COCHITI (Capacity 619.6)		JEMEZ CANYON (Capacity 123.9)		BLUEWATER (Capacity 47.5)		ELEPHANT BUTTE (Capacity 2,495.8)	
Month	2006	Average 1965-2006	2006	Average 1973-2006	2006	Average 1965-2006	2006	Average 1927-2006	2006	Average 1915-2006
Jan.	179.1	119.3	62.2	70.0	0	11.1	3.8	10.0	578.3	1,163.7
Feb.	196.3	119.3	62.8	67.0	0	11.3	3.7	10.7	615.3	1,169.6
Mar.	209.4	118.7	63.0	67.0	0	12.1	3.6	15.1	558.7	1,130.5
April	211.2	129.1	62.6	73.5	0	15.7	3.4	18.9	475.8	1,118.9
May	200.7	168.5	58.9	95.6	0	16.6	3.1	16.9	376.3	1,205.8
June	188.9	157.2	60.0	96.4	0	13.9	2.9	14.3	268.9	1,228.0
July	191.1	145.2	59.8	77.4	0	12.8	2.8	12.5	233.1	1,159.0
Aug.	194.5	141.0	59.4	71.0	0	12.2	3.2	11.3	409.0	1,097.5
Sept.	191.5	134.6	61.4	70.6	0	11.5	3.1	10.7	433.9	1,069.6
Oct.	190.2	130.2	59.9	73.0	0	10.8	2.9	10.2	490.3	1,072.4
Nov.	189.7	124.3	60.0	73.2	0	10.8	2.9	10.0	567.8	1,100.4
Dec.	194.1	123.7	60.0	72.9	0	10.9	2.9	9.9	634.0	1,133.9
Avg.	194.7	134.3	60.8	75.6	0	12.5	3.2	12.5	470.1	1,137.4
Max.	211.2	493.8	63.0	471.2	0	88.8	3.8	58.1	634.0	2,840.5
Min.	179.1	0	58.9	4.4	0	0	2.8	0	233.1	4.1

	CABALLO (Capacity 402.9)		STORRIE (Capacity 28.7)		SANTA ROSA (Capacity 542.6)		LAKE SUMNER (Capacity 116.8)		BRANTLEY (Capacity 69.4)	
Month	2006	Average 1938-2006	2006	Average 1939-2006	2006	Average 1980-2006	2006	Average 1937-2006	2006	Average 1988-2006
Jan.	20.7	112.7	21.6	11.4	102.9	66.4	30.4	64.9	20.6	29.1
Feb.	22.6	142.8	21.3	11.4	82.8	65.0	21.3	68.8	33.5	32.4
Mar.	25.9	121.5	21.0	12.1	81.1	65.3	23.7	58.9	43.4	38.6
April	43.6	123.0	20.1	12.8	80.1	69.4	21.5	52.1	31.9	31.1
May	65.5	131.5	17.9	13.4	78.2	73.2	17.7	51.9	16.6	30.7
June	59.0	119.2	16.2	12.3	34.2	70.5	18.3	46.8	28.7	33.3
July	56.1	98.7	14.7	12.1	36.1	65.1	16.6	44.8	27.6	25.9
Aug.	79.3	69.8	13.2	12.4	79.6	68.0	26.3	47.5	24.2	26.2
Sept.	56.8	53.6	20.1	12.3	98.1	65.9	28.8	48.9	27.5	26.0
Oct.	48.6	62.5	20.7	11.7	98.3	67.7	26.9	50.4	24.4	23.8
Nov.	50.5	75.1	19.5	11.7	97.5	69.2	31.2	54.0	17.9	23.2
Dec.	53.2	92.2	19.5	11.6	97.7	69.7	35.5	59.6	22.4	24.7
Avg.	48.5	100.2	18.8	12.1	80.6	68.0	24.9	54.0	26.6	28.8
Max.	79.3	427.5	21.6	32.3	102.9	143.5	35.5	192.8	43.4	57.4
Min.	20.7	0	13.2	0	34.2	0	16.6	0.1	16.6	0

	RED BLUFF (Capacity 357.3)		DELTA LAKE (Capacity 30.8)						TOTAL IN U.S. RESERVOIRS (Capacity 7,452.4)	
Month	2006	Average 1936-2006	2006	Average 1939-2006					2006	Average Estimated
Jan.	159.8	119.2	7.4	18.2					1,643.7	2,285.1
Feb.	159.7	121.6	6.8	17.6					1,669.5	2,323.3
Mar.	158.9	119.1	6.9	17.0					1,624.7	2,263.4
April	151.7	107.1	6.1	17.2					1,565.8	2,296.9
May	133.1	106.0	6.9	17.7					1,455.9	2,551.8
June	116.9	106.2	7.7	17.8					1,205.7	2,575.7
July	106.4	96.8	7.0	17.8					1,117.5	2,377.1
Aug.	107.7	92.1	7.9	16.8					1,368.6	2,223.0
Sept.	111.5	95.8	6.5	18.0					1,401.4	2,148.6
Oct.	112.3	104.5	5.2	17.7					1,471.0	2,159.7
Nov.	124.0	109.7	5.5	17.9					1,560.3	2,193.7
Dec.	127.2	115.4	4.9	17.4					1,644.5	2,240.7
Avg.	130.8	107.8	6.6	17.6					1,477.4	2,303.3
Max.	159.8	404.0	7.9	27.9					1,669.5	
Min.	106.4	12.3	4.9	0					1,117.5	

STORED WATER IN LARGE RESERVOIRS OF THE RIO GRANDE BASIN
In Million Cubic Meters

In Mexico

Month	SAN GABRIEL (Capacity 255.4) 2006	SAN GABRIEL Average 1980-2006	PICO DEL AGUILA (Capacity 50.0) 2006	PICO DEL AGUILA Average 1993-2006	LA BOQUILLA (Capacity 2,903.4) 2006	LA BOQUILLA Average 1913-2006	FRANCISCO I. MADERO (Capacity 348.0) 2006	FRANCISCO I. MADERO Average 1948-2006	CHIHUAHUA (Capacity 25.8) 2006	CHIHUAHUA Average 1961-2006
Jan.	154.1	141.7	17.5	21.8	1,294.0	1,744.5	230.8	254.1	12.0	9.5
Feb.	152.3	136.8	13.2	21.5	1,278.8	1,699.5	230.3	249.8	11.9	9.2
Mar.	135.7	127.9	15.1	18.7	1,169.5	1,623.1	207.2	232.8	11.5	8.7
April	115.6	117.1	19.5	15.3	1,053.9	1,526.0	188.4	197.7	11.3	8.3
May	100.1	102.3	16.2	13.1	930.7	1,429.7	167.3	165.5	10.6	7.6
June	88.3	95.0	21.9	13.7	850.8	1,344.9	141.8	141.8	10.2	7.2
July	109.8	107.6	29.6	16.1	1,001.8	1,385.3	135.3	160.9	10.5	7.6
Aug.	212.0	132.0	39.0	19.7	1,833.8	1,615.5	268.9	207.3	11.5	9.3
Sept.	255.4	143.1	53.0	21.3	2,608.8	1,822.1	346.7	245.7	15.3	11.2
Oct.	257.5	146.4	51.4	23.2	2,613.6	1,829.9	350.3	252.5	15.1	11.4
Nov.	257.3	145.5	51.1	23.7	2,600.7	1,801.6	349.3	255.4	14.9	10.6
Dec.	257.3	146.8	51.1	23.9	2,589.4	1,792.5	350.0	251.9	14.8	10.2
Avg.	174.6	128.5	31.6	19.3	1,652.2	1,623.5	247.2	218.0	12.5	9.2
Max.	257.5	282.6	53.0	53.0	2,613.6	3,402.1	350.3	452.2	15.3	32.7
Min.	88.3	19.8	13.2	5.6	850.8	2.3	135.3	1.7	10.2	0.2

Month	LUIS L. LEON (Capacity 336.7) 2006	LUIS L. LEON Average 1968-2006	CENTENARIO and SAN MIGUEL (Capacity 46.8) 2006	CENTENARIO and SAN MIGUEL Average 1934-2006	LA FRAGUA (Capacity 45.5) 2006	LA FRAGUA Average 1991-2006	VENUSTIANO CARRANZA (Capacity 1,384.2) 2006	VENUSTIANO CARRANZA Average 1930-2006	LAGUNA DE SALINILLAS (Capacity 19.0) 2006	LAGUNA DE SALINILLAS Average 1931-2006
Jan.	302.2	425.4	44.2	20.6	35.0	35.8	542.9	580.6	8.7	9.8
Feb.	301.0	422.2	44.9	20.6	34.7	35.9	523.3	559.2	7.3	11.1
Mar.	261.0	402.9	40.2	17.9	34.6	33.5	465.5	522.7	11.6	10.0
April	205.4	376.1	38.9	16.1	31.9	32.4	443.6	511.4	12.6	11.2
May	174.9	349.0	30.7	16.1	30.1	31.3	387.8	488.5	6.5	11.1
June	153.8	328.5	25.2	14.4	24.4	29.8	312.1	465.6	10.6	10.5
July	143.1	339.9	23.3	13.7	21.5	29.8	279.9	474.6	12.1	10.2
Aug.	219.2	341.0	22.3	14.4	17.4	30.0	256.8	481.6	9.7	10.2
Sept.	359.8	394.5	28.8	16.3	17.3	31.6	256.8	538.0	9.6	10.6
Oct.	340.8	412.7	28.4	18.6	18.7	34.6	245.9	579.3	8.0	9.8
Nov.	356.6	421.9	28.1	19.2	20.3	34.1	234.4	589.5	7.0	9.5
Dec.	379.6	434.2	29.1	19.8	22.3	34.4	235.0	586.1	6.8	9.5
Avg.	266.5	387.4	32.0	17.3	25.7	32.8	348.7	531.4	9.2	10.3
Max.	379.6	898.0	44.9	45.2	35.0	47.8	542.9	1,435.0	12.6	19.5
Min.	143.1	17.9	22.3	0	17.3	1.6	234.4	0.9	6.5	0

Month	RODRIGO GOMEZ (Capacity 39.5) 2006	RODRIGO GOMEZ Average 1963-2006	EL CUCHILLO (Capacity 1,123.1) 2006	EL CUCHILLO Average 1993-2006	MARTE R. GOMEZ (Capacity 830.0) 2006	MARTE R. GOMEZ Average 1943-2006	LAS BLANCAS (Capacity 83.8) 2006	LAS BLANCAS Average 2002-2006	TOTAL IN MEXICAN RESERVOIRS (Capacity 7,491.2) 2006	TOTAL IN MEXICAN RESERVOIRS Average Estimated
Jan.	27.7	32.0	1,609.3	632.5	880.7	683.9	66.7	56.4	5,225.8	4,648.4
Feb.	28.1	31.5	1,576.1	613.4	861.7	646.3	63.4	54.2	5,127.0	4,511.1
Mar.	24.4	30.2	1,146.1	574.4	948.7	621.7	61.1	53.3	4,532.2	4,277.7
April	27.6	29.4	989.3	532.2	771.9	564.9	60.6	54.1	3,970.5	3,976.0
May	29.1	28.8	991.6	495.2	658.4	504.9	59.0	52.0	3,593.0	3,680.0
June	29.8	28.2	958.1	482.5	603.6	505.0	55.3	53.5	3,285.9	3,506.7
July	29.1	28.2	929.2	505.0	566.5	506.9	51.3	55.4	3,343.0	3,627.0
Aug.	28.2	28.0	898.0	479.5	523.0	539.7	47.4	55.3	4,387.2	3,948.9
Sept.	31.1	31.7	1,003.2	596.9	672.6	680.0	60.8	70.7	5,719.2	4,598.8
Oct.	31.1	33.8	1,020.5	686.1	701.0	723.8	63.5	66.9	5,745.8	4,814.3
Nov.	30.4	33.6	1,020.5	686.5	712.3	738.0	60.7	64.6	5,743.6	4,819.4
Dec.	30.1	32.9	1,032.1	680.4	720.8	736.5	60.6	62.5	5,779.0	4,807.3
Avg.	28.9	30.7	1,097.8	580.4	718.4	621.0	59.2	58.2	4,704.4	4,268.0
Max.	31.1	45.4	1,609.3	1,745.2	948.7	1,308.0	66.7	83.8	5,779.0	
Min.	24.4	0	898.0	2.0	523.0	8.3	47.4	21.2	3,285.9	

STORED WATER IN LARGE RESERVOIRS OF THE RIO GRANDE BASIN
International Amistad Reservoir

Amistad Dam is the second of the major international storage dams constructed on the Rio Grande as authorized by the Water Treaty of 1944 between the United States and Mexico. It is located at river kilometer 924, 20.8 river kilometers upstream from Del Rio, Texas and Cd. Acuna, Coahuila.

Maximum storage for period of record: 5,994.6 million cubic meters on September 22, 1974 with an elevation of 346.150 meters above mean sea level, U. S. C. & G. S. datum.

Storage Capacities
(2005 Survey)

Elevation Meters	Description	At Indicated Elevation: Reservoir Capacity- Thousand Cubic Meters	At Indicated Elevation: Reservoir Area Hectares	Between Indicated Elevations: Storage Volume- Thousand Cubic Meters	Between Indicated Elevations: Type of Storage
273.710	Original River Bed at Dam Axis	0	0		
				0	
283.465	Lowest Outlet (United States Penstocks)	0	0		
				4,040,325	Silt & Conservation
340.462	Top of Conservation Storage *	4,040,325	26,546		
				2,141,037	Ordinary Flood
347.595	Top of Spillway Gates	6,181,362	34,278		
				500,082	Surcharge
349.025	Maximum Water Surface	6,681,444	36,253		

STORAGE IN MILLION CUBIC METERS AT 24:00 HOURS 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3,418.9	3,390.6	3,323.0	3,250.6	3,183.8	3,061.3	2,972.0	2,898.2	2,932.3	3,109.9	3,193.9	3,181.5
2	3,420.0	3,389.4	3,320.7	3,249.5	3,179.3	3,059.1	2,969.8	2,898.2	2,934.4	3,115.5	3,192.8	3,179.3
3	3,420.0	3,387.1	3,318.4	3,247.2	3,177.0	3,055.8	2,967.7	2,900.3	2,934.4	3,121.0	3,190.5	3,174.8
4	3,421.2	3,384.8	3,317.2	3,246.1	3,177.0	3,051.4	2,966.6	2,901.4	2,935.5	3,126.6	3,190.5	3,170.3
5	3,421.2	3,385.9	3,316.1	3,244.9	3,171.4	3,047.0	2,964.4	2,904.6	2,944.0	3,132.2	3,191.7	3,165.8
6	3,421.2	3,381.2	3,313.8	3,243.8	3,166.9	3,043.7	2,963.4	2,905.6	2,945.1	3,136.7	3,193.9	3,164.7
7	3,420.0	3,376.6	3,311.5	3,241.5	3,161.3	3,040.5	2,960.1	2,909.9	2,947.2	3,140.0	3,195.1	3,159.0
8	3,420.0	3,375.4	3,309.1	3,237.0	3,156.8	3,038.3	2,959.1	2,914.1	2,952.6	3,143.4	3,195.1	3,154.6
9	3,422.4	3,371.9	3,308.0	3,234.7	3,152.3	3,037.2	2,955.8	2,917.3	2,953.7	3,145.6	3,197.3	3,150.1
10	3,418.9	3,369.5	3,305.7	3,231.3	3,146.7	3,032.8	2,953.7	2,919.4	2,956.9	3,147.8	3,199.6	3,151.2
11	3,418.9	3,366.0	3,303.4	3,229.0	3,141.1	3,028.4	2,950.4	2,918.4	2,959.1	3,151.2	3,197.3	3,152.3
12	3,416.5	3,362.5	3,302.2	3,226.7	3,134.4	3,026.2	2,947.2	2,918.4	2,961.2	3,153.6	3,195.1	3,152.3
13	3,413.0	3,359.0	3,297.6	3,224.5	3,127.7	3,024.0	2,944.0	2,918.4	2,963.4	3,156.8	3,195.1	3,153.4
14	3,409.4	3,356.7	3,293.0	3,222.2	3,127.7	3,021.9	2,943.0	2,918.4	2,965.5	3,159.0	3,196.2	3,154.6
15	3,408.3	3,354.4	3,290.7	3,219.9	3,123.3	3,017.5	2,940.8	2,918.4	2,967.7	3,163.5	3,195.1	3,156.8
16	3,407.1	3,353.2	3,288.4	3,218.8	3,117.7	3,014.2	2,938.7	2,917.3	2,973.1	3,168.0	3,192.8	3,156.8
17	3,402.4	3,350.9	3,286.1	3,217.7	3,112.2	3,013.1	2,935.5	2,919.4	2,982.8	3,170.3	3,195.1	3,157.9
18	3,401.2	3,346.2	3,283.8	3,216.5	3,109.9	3,013.1	2,934.4	2,919.4	2,987.1	3,177.0	3,192.8	3,157.9
19	3,400.0	3,341.6	3,281.5	3,215.4	3,105.5	3,011.0	2,931.2	2,920.5	2,995.8	3,180.4	3,193.9	3,160.2
20	3,401.2	3,338.1	3,278.1	3,214.3	3,102.2	3,008.8	2,929.0	2,921.5	3,003.4	3,181.5	3,192.8	3,162.4
21	3,398.8	3,336.9	3,273.5	3,209.8	3,098.8	3,004.5	2,928.0	2,921.5	3,013.1	3,186.0	3,192.8	3,163.5
22	3,397.6	3,335.8	3,271.2	3,207.5	3,094.4	3,002.3	2,925.8	2,920.5	3,022.9	3,184.9	3,192.8	3,163.5
23	3,395.3	3,333.4	3,266.6	3,205.2	3,091.1	3,000.1	2,923.7	2,920.5	3,035.0	3,182.6	3,192.8	3,163.5
24	3,395.3	3,332.3	3,263.2	3,204.1	3,087.8	2,997.9	2,920.5	2,918.4	3,044.8	3,183.8	3,191.7	3,162.4
25	3,394.1	3,331.1	3,259.7	3,204.1	3,083.3	2,994.7	2,918.4	2,917.3	3,055.8	3,187.1	3,191.7	3,162.4
26	3,393.0	3,327.6	3,256.3	3,201.8	3,081.1	2,991.4	2,915.2	2,916.2	3,065.7	3,188.3	3,191.7	3,163.5
27	3,394.1	3,325.3	3,255.2	3,197.3	3,076.7	2,987.1	2,914.1	2,915.2	3,077.8	3,188.3	3,191.7	3,162.4
28	3,395.3	3,324.2	3,254.1	3,197.3	3,074.5	2,983.9	2,908.8	2,915.2	3,087.8	3,188.3	3,192.8	3,162.4
29	3,395.3		3,251.8	3,195.1	3,070.1	2,978.5	2,906.7	2,917.3	3,094.4	3,188.3	3,192.8	3,164.7
30	3,393.0		3,251.8	3,189.4	3,067.9	2,976.3	2,903.5	2,919.4	3,102.2	3,190.5	3,188.3	3,165.8
31	3,390.6		3,250.6		3,064.6		2,901.4	2,923.7		3,191.7		3,166.9

Month	2006: Momentary Maximum Elevation	Momentary Maximum Storage	Day	Momentary Minimum Elevation	Momentary Minimum Storage	Day	Average Storage	Period 1969-2006: Mean Monthly Storage Average	Maximum	Minimum
Jan.	338.585	3,422.4	9	338.450	3,390.6	31	3,407.2	3,214.2	4,971.4	891.3
Feb.	338.450	3,390.6	1	338.165	3,324.2	28	3,356.7	3,206.2	4,952.1	971.6
Mar.	338.160	3,323.0	1	337.845	3,250.6	31	3,287.2	3,172.3	4,954.1	1,062.9
April	337.845	3,250.6	1	337.575	3,189.4	30	3,221.4	3,113.8	4,910.5	1,187.6
May	337.550	3,183.8	1	337.015	3,064.6	31	3,121.4	3,004.2	4,723.6	1,072.2
June	337.000	3,061.3	1	336.610	2,976.3	30	3,018.7	2,938.6	4,696.8	1,004.0
July	336.590	2,972.0	1	336.260	2,901.4	31	2,938.5	2,922.1	4,745.6	980.0
Aug.	336.365	2,923.7	31	336.245	2,898.2	! 1	2,915.0	2,984.3	4,861.4	1,044.5
Sept.	337.185	3,102.2	30	336.405	2,932.3	1	2,993.2	3,062.4	5,078.5	1,042.3
Oct.	337.585	3,191.7	31	337.220	3,109.9	1	3,162.6	3,208.1	5,515.1	1,086.6
Nov.	337.620	3,199.6	10	337.570	3,188.3	30	3,193.5	3,245.9	5,231.7	1,118.7
Dec.	337.540	3,181.5	1	337.400	3,150.1	9	3,161.8	3,262.4	4,970.7	1,171.0
Yearly	338.585	3,422.4		336.245	2,898.2		3,148.1	3,111.2	4,873.4	1,130.2

* When necessary, the Commission may set temporary conservation levels ! And other days

STORED WATER IN LARGE RESERVOIRS OF THE RIO GRANDE BASIN
International Falcon Reservoir

Falcon Dam is the lowermost of the major international storage dams authorized for construction on the Rio Grande by the Water Treaty of 1944 between the United States and Mexico and was the first dam constructed. It is located 139 river kilometers downstream from the old international highway bridge between Laredo, Texas and Nuevo Laredo, Tamaulipas and 442 river kilometers upstream from the Gulf of Mexico.

Maximum storage for period of record: 4,305.6 million cubic meters on October 19, 1958 with an elevation of 93.910 meters above mean sea level, U. S. C. & G. S. datum.

Storage Capacities
(2005 Survey)

Elevation Meters	Description	At Indicated Elevation: Reservoir Capacity- Thousand Cubic Meters	At Indicated Elevation: Reservoir Area Hectares	Between Indicated Elevations: Storage Volume- Thousand Cubic Meters	Between Indicated Elevations: Type of Storage
53.340	Original River Bed at Dam Axis	0	0		
				0	
61.965	Lowest Outlet (Mexican Penstock)	0	0		
				3,264,813	Silt & Conservation
91.805	Top of Conservation Storage *	3,264,813	34,477		
				618,355	Ordinary Flood
93.480	Top of Spillway Gates	3,883,168	39,780		
				980,662	Surcharge
95.770	Maximum Water Surface	4,863,830	45,480		

STORAGE IN MILLION CUBIC METERS AT 24:00 HOURS 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1,998.9	1,919.9	1,910.2	1,836.5	1,455.1	1,343.8	1,227.4	1,167.4	1,064.9	1,289.4	1,324.9	1,276.4
2	1,992.6	1,917.4	1,912.6	1,834.2	1,439.1	1,345.7	1,225.6	1,163.9	1,060.9	1,296.8	1,323.9	1,276.4
3	1,987.6	1,916.2	1,912.6	1,831.8	1,423.3	1,345.7	1,225.6	1,162.2	1,056.8	1,298.7	1,321.1	1,274.6
4	1,983.9	1,915.0	1,912.6	1,827.2	1,409.5	1,343.8	1,255.6	1,159.6	1,051.2	1,300.5	1,319.2	1,272.8
5	1,976.4	1,915.0	1,913.8	1,822.5	1,397.8	1,341.9	1,277.4	1,157.0	1,045.5	1,304.2	1,319.2	1,274.6
6	1,967.7	1,912.6	1,913.8	1,816.7	1,386.1	1,341.9	1,226.5	1,156.2	1,039.1	1,306.1	1,319.2	1,276.4
7	1,964.0	1,910.2	1,912.6	1,808.6	1,376.4	1,341.9	1,227.4	1,155.3	1,032.8	1,305.2	1,317.3	1,281.1
8	1,959.1	1,909.0	1,910.2	1,799.4	1,363.9	1,340.0	1,227.4	1,153.6	1,028.8	1,304.2	1,314.5	1,283.8
9	1,954.1	1,909.0	1,904.1	1,789.0	1,353.3	1,338.1	1,225.6	1,151.9	1,024.8	1,303.3	1,313.6	1,287.5
10	1,949.2	1,909.0	1,902.9	1,782.2	1,347.6	1,337.2	1,223.8	1,150.2	1,020.1	1,304.2	1,311.7	1,289.4
11	1,948.0	1,907.8	1,900.5	1,777.6	1,338.1	1,334.3	1,222.9	1,148.4	1,017.7	1,304.2	1,308.9	1,293.1
12	1,949.2	1,907.8	1,899.3	1,773.0	1,329.6	1,331.5	1,222.9	1,145.0	1,032.8	1,304.2	1,308.0	1,294.9
13	1,946.7	1,905.3	1,898.1	1,762.8	1,322.0	1,326.8	1,222.0	1,143.3	1,058.4	1,311.7	1,307.0	1,298.7
14	1,944.3	1,905.3	1,895.7	1,746.9	1,326.8	1,322.0	1,220.2	1,139.9	1,079.6	1,324.9	1,306.1	1,300.5
15	1,943.1	1,902.9	1,894.5	1,730.0	1,338.1	1,316.4	1,218.4	1,138.2	1,084.6	1,332.4	1,305.2	1,300.5
16	1,944.3	1,904.1	1,890.9	1,713.2	1,345.7	1,310.8	1,218.4	1,134.8	1,090.4	1,335.3	1,302.4	1,300.5
17	1,940.6	1,906.6	1,888.5	1,693.2	1,350.5	1,304.2	1,215.8	1,131.4	1,102.8	1,334.3	1,300.5	1,300.5
18	1,936.9	1,905.3	1,884.9	1,674.5	1,353.3	1,301.4	1,214.0	1,126.3	1,121.2	1,334.3	1,298.7	1,301.4
19	1,934.5	1,902.9	1,881.4	1,655.9	1,356.2	1,292.1	1,211.3	1,122.9	1,143.3	1,334.3	1,296.8	1,300.5
20	1,936.9	1,902.9	1,874.2	1,638.5	1,357.2	1,285.7	1,206.9	1,119.6	1,157.0	1,334.3	1,294.9	1,302.4
21	1,936.9	1,902.9	1,867.1	1,616.9	1,358.1	1,278.3	1,204.2	1,114.5	1,162.2	1,334.3	1,293.1	1,302.4
22	1,936.9	1,905.3	1,860.0	1,593.4	1,358.1	1,270.9	1,201.6	1,109.5	1,164.8	1,334.3	1,292.1	1,300.5
23	1,933.3	1,905.3	1,854.1	1,572.3	1,359.1	1,264.5	1,198.0	1,104.5	1,167.4	1,334.3	1,291.2	1,305.2
24	1,930.8	1,908.0	1,847.0	1,555.5	1,359.1	1,259.0	1,192.7	1,097.8	1,213.1	1,332.4	1,289.4	1,308.0
25	1,928.4	1,908.0	1,841.2	1,548.1	1,356.2	1,253.6	1,190.1	1,092.8	1,232.8	1,331.5	1,287.5	1,308.0
26	1,925.9	1,908.0	1,838.8	1,530.5	1,352.4	1,246.3	1,186.6	1,087.9	1,249.0	1,331.5	1,285.7	1,307.0
27	1,925.9	1,909.0	1,837.7	1,515.0	1,349.5	1,239.1	1,184.8	1,083.8	1,256.3	1,330.5	1,283.8	1,308.0
28	1,924.7	1,910.2	1,836.5	1,501.7	1,347.6	1,234.6	1,181.3	1,081.3	1,261.8	1,327.7	1,281.1	1,308.0
29	1,924.7		1,834.2	1,486.4	1,345.7	1,231.0	1,177.8	1,078.0	1,270.9	1,324.9	1,280.1	1,309.8
30	1,922.3		1,834.2	1,469.2	1,345.7	1,229.2	1,174.4	1,073.9	1,280.1	1,323.9	1,278.3	1,311.7
31	1,921.1		1,835.3		1,343.8		1,170.9	1,070.6		1,323.9		1,311.7

Month	2006: Momentary Maximum Elevation	Momentary Maximum Storage	Day	Momentary Minimum Elevation	Momentary Minimum Storage	Day	Average Storage	Period 1954-2006: Mean Monthly Storage Average	Maximum	Minimum
Jan.	87.560	1,998.9	1	87.245	1,921.1	31	1,947.4	2,264.5	3,787.8	269.8
Feb.	87.240	1,919.9	1	87.170	1,902.9	! 15	1,908.6	2,171.6	3,712.2	192.7
Mar.	87.215	1,913.8	! 5	86.880	1,834.2	! 29	1,880.6	2,169.2	3,689.1	279.6
April	86.890	1,836.5	1	85.200	1,469.2	30	1,690.1	2,066.6	3,644.4	336.5
May	85.130	1,455.1	1	84.445	1,322.0	13	1,362.7	1,892.6	3,540.0	291.7
June	84.570	1,345.7	! 2	83.940	1,229.2	30	1,301.7	1,819.7	3,440.3	293.2
July	83.930	1,277.4	5	83.610	1,170.9	31	1,212.2	1,873.7	3,321.4	258.9
Aug.	83.590	1,167.4	1	83.015	1,070.6	31	1,126.5	1,847.9	3,418.5	256.6
Sept.	84.220	1,280.1	30	82.685	1,017.7	11	1,119.0	1,947.0	3,541.4	316.0
Oct.	84.515	1,335.3	16	84.270	1,289.4	1	1,319.1	2,178.4	4,009.2	351.4
Nov.	84.460	1,324.9	1	84.210	1,278.3	30	1,302.5	2,266.9	3,854.0	403.6
Dec.	84.390	1,311.7	! 30	84.180	1,272.8	4	1,295.7	2,304.8	3,860.4	421.8
Yearly	87.560	1,998.9		82.685	1,017.7		1,455.5	2,067.0	3,410.6	424.2

* When necessary, the Commission may set temporary conservation levels ! And other days

QUALITY OF WATER - 2006

08-3640.00 RIO GRANDE AT EL PASO, TEXAS

LOCATION: At gaging station on Courchesne Bridge at river kilometer 2,021, 2.7 river kilometers upstream from American Dam, and 8.9 kilometers upstream from Paso del Norte Bridge between El Paso, Texas and Cd. Juarez, Chihuahua.

RECORDS: Chemical analyses, February 1930 through current year (prior to July 1986 sampling at American Dam); biochemical analyses, September 1943 through 1972 and February 1976 through current year (prior to 1976 samples taken from Franklin Canal at El Paso,Texas); specific conductance, 1930 through 1932 and 1937 through current year (prior to July 1986 samples taken at American Dam); suspended silt, 1947 through 1976 (samples taken at American Dam).

REMARKS: Sampling by International Boundary and Water Commission, U.S. Section and the Texas Commission on Environmental Quality (TCEQ); chemical and biochemical analyses by Haskell R. Street Wastewater Treatment Plant laboratory in El Paso; specific conductance determinations by the International Boundary and Water Commission, U.S. Section. Additional water quality parameters determined by the Haskell R. Street Wastewater Treatment Plant. Additional parameters, such as metals and organics, are collected by IBWC and are available online at the TCEQ website.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Turbidity NTU	Oxygen Demand Biochemical (BOD) mg/L	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL
Jan. 17	0925	0.93	3,110	NR	5.7	13.2	2.2	260	240
Feb. 13	0930	0.65	3,210	8.2	8.7	NR	NR	730	NR
Feb. 21	0835	10.0	3,730	NR	14.6	NR	2.8	870	570
Mar. 21	0820	17.9	1,070	8.1	8.7	164	3.0	96	160
Apr. 12	1015	NR	1,110	8.2	17.3	NR	NR	330	NR
Apr. 18	0815	14.2	908	8.3	NR	123	4.2	250	NR
May 16	0815	9.34	970	8.7	19.9	28.2	3.5	920	690
May 23	1115	8.18	1,040	8.4	22.9	NR	NR	490	NR
June 20	0840	23.1	847	8.7	23.7	91.7	2.8	74	230
June 26	1040	22.5	839	8.5	21.4	NR	NR	870	NR
July 18	0830	23.6	877	8.8	25.9	204	NR	<1	NR
Aug. 22	0910	14.9	1,020	7.9	21.7	4,642	2.2	1,400	NR
Sep. 28	0845	6.99	1,390	7.9	19.5	246	<2	770	1,200
Oct. 17	0900	16.6	1,320	8.0	NR	3,144	5.3	2,400	3,800
Nov. 7	0825	2.12	2,250	7.9	12.4	23.9	3.5	920	970
Dec. 19	0820	1.08	3,370	7.2	8.0	42.3	2.5	290	370

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L	Arsenic ug/L
Jan. 17	369	1,700	536	285	134	0.25	0.35	0.3	0.20	7.9
Feb. 13	490	2,030	651	284	NR	0.09	0.62	0.2	0.17	NR
Feb. 21	485	2,170	636	301	148	0.11	NR	0.3	0.17	6.6
Mar. 21	147	668	135	184	83.6	<0.5	0.43	<0.2	0.06	<2
Apr. 12	175	755	188	199	79.3	0.31	1.56	0.69	NR	NR
Apr. 18	86.3	562	145	180	72.9	0.04	NR	0.21	<0.05	4.0
May 16	96.9	640	161	178	74.5	<0.5	0.31	0.06	<0.05	5.5
May 23	100	708	184	192	NR	<0.05	0.27	0.24	0.20	NR
June 20	78.3	552	145	180	80.9	0.03	NR	0.11	<0.05	7.3
June 26	79.0	572	146	182	NR	<0.05	0.22	0.32	0.07	NR
July 18	76.9	552	127	191	81.4	0.03	0.36	0.14	0.07	11.3
Aug. 22	237	582	341	408	71.0	0.02	1.10	0.14	0.12	14.0
Sep. 28	169	870	236	211	86.0	<0.03	0.72	0.14	<0.25	8.0
Oct. 17	155	838	325	374	92.0	0.17	NR	0.17	0.13	68.0
Nov. 7	278	1,330	403	222	102	<0.03	0.54	0.12	0.07	5.4
Dec. 19	363	1,640	497	267	107	0.60	1.03	NR	0.07	6.8

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Hardness mg/L	Oxygen Dissolved mg/L	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L	Total Oraganic Carbon mg/L
Jan. 17	34.0	414	9.54	35.5	0.81	475	11.4	NR	NR	NR
Feb. 13	NR	NR	NR	NR	0.89	NR	11.1	28	4	4
Feb. 21	39.0	551	10.1	32.2	0.88	519	9.4	NR	NR	NR
Mar. 21	17.0	124	7.91	19.4	0.68	242	9.3	NR	NR	NR
Apr. 12	17.0	187	8.70	27.2	NR	NR	9.3	9	4	5
Apr. 18	14.5	108	6.98	17.4	0.56	247	7.3	NR	NR	NR
May 16	15.8	122	7.90	19.4	0.57	226	6.6	NR	NR	NR
May 23	NR	NR	NR	NR	0.63	NR	7.6	40	7	4
June 20	15.0	100	6.82	22.7	0.57	223	6.0	NR	NR	NR
June 26	NR	NR	NR	NR	0.58	NR	7.1	164	20	4
July 18	15.3	98.7	7.35	21.1	0.56	216	5.4	NR	NR	NR
Aug. 22	13.0	131	7.04	23.1	0.53	200	7.4	NR	NR	NR
Sep. 28	17.1	193	9.20	21.9	0.72	267	8.2	NR	NR	NR
Oct. 17	17.9	152	9.10	24.5	0.55	314	8.9	NR	NR	NR
Nov. 7	26.6	303	11.5	21.6	0.69	364	9.2	NR	NR	NR
Dec. 19	29.2	400	11.0	25.6	0.78	448	10.9	NR	NR	NR

NR - None Reported

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

08-3640.00 RIO GRANDE AT EL PASO, TEXAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		2,712	3,007		1,035				1,364		2,020	2,153
2						967		820		1,624		
3		2,849	2,995	876	1,042						2,066	
4	2,637							800		1,620		2,235
5				922	1,066	953	857					
6	2,659	3,002	3,260						1,364	2,030	2,065	2,234
7				1,095		969	853	795				
8		3,021	3,332		1,036				1,362			2,242
9	2,639					912		791				
10		3,166	3,337	904	1,035		857					
11	2,666							783	1,622	2,035		2,262
12				871	1,098	919	899					
13	2,638	3,162	1,161						1,619	2,043		2,266
14				925		896	901	798				
15		3,165	1,144		1,101				1,622		2,040	2,250
16						858		801		2,037		
17		3,153	1,103	879	1,062		876				2,087	
18	2,465							800	1,616	2,038		2,284
19				878	1,034	893	908					
20	2,506		1,147							2,034	2,076	2,293
21				983		862	908	1,308				
22		3,072	1,072		1,040							2,376
23	2,984					873		1,365		2,031		
24		3,057	944	968	1,197		896				2,068	
25	3,002							1,363	1,638	2,041		
26				971	1,087	849	801					
27	2,725	3,292	914						1,610	2,039	2,067	2,297
28				980		843	810	1,364				
29			870						1,624		2,049	2,400
30	2,690					843		1,354		2,039		
31			847		1,047		795					

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

RIO GRANDE ABOVE HASKELL R. STREET WASTEWATER TREATMENT PLANT

LOCATION: Rio Grande 2.4 kilometers upstream from Haskell R. Street Wastewater Treatment Plant Outfall. This monitoring station is located in TCEQ Segment 2308 downstream of the International Dam. The river bank has been stabilized in this area by lining the bank with concrete to prevent movement of the bank.
RECORDS : Chemical analyses, February 1930 through current year. Biochemical analyses 1976 through current year.
REMARKS : Samples collected by the International Boundary and Water Commission, U.S. Section and analyzed by the El Paso Water Utilities laboratory. Additional water quality parameters determined by the Haskell R. Street Wastewater Treatment Plant laboratory in El Paso, Texas. Some samples are collected and analyzed by TCEQ. Additional parameters, including metals and organics, are available on the TCEQ website.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Oxygen Dissolved (DO) mg/L	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Oxygen Demand Bio-Chemical (BOD) mg/L
Mar. 21	0850	0.57*	1,130	8.1	9.3	12.7	230	220	5.1
May 16	0845	0.34*	1,200	8.7	19.1	8.6	770	490	3.0
July 18	0900	0.11*	2,110	8.5	25.1	6.1	2,400	NR	NR
Aug. 22	0940	5.7*	1,010	8.1	23.7	7.2	2,400	20,000	4.7
Sep. 28	0915	0.42*	2,590	8.1	18.7	10.7	2,400	29,000	8.3
Oct. 17	0935	12.7*	1,260	8.3	16.3	8.9	2,400	9,900	2.8
Nov. 7	0910	0.06*	5,110	8.1	13.3	14.4	2,400	NR	>17.8

NR - None Reported
* - Estimated Flow
NOTE: On January 17 and June 20 sampling dates, the river was dry at sampling site.

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Mar. 21	153	672	151	176.4	82.5	NR	0.36	NR	NR
May 16	131	728	217	191.3	78.5	NR	0.20	<0.06	NR
July 18	240	1,360	353	204.1	142	7.1	0.37	2.92	2.0
Aug. 22	116	578	170	481.1	71.9	0.13	1.19	0.16	0.14
Sep. 28	361	1,670	542	249.6	124	5.20	NR	1.00	0.74
Oct. 17	143	806	299	348.7	93.5	0.03	1.30	0.26	0.19
Nov. 7	561	2,540	828	323.0	159	13.2	NR	3.01	1.96

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Hardness mg/L	Turbidity NTU	Fluoride mg/L	Arsenic Soluble ug/L	Beryllium Soluble ug/L
Mar. 21	18.2	135	8.93	16.0	243	86.2	0.70	3.6	<2
May 16	20.0	166	9.08	17.1	247	26.1	0.64	13.7	<2
July 18	32.0	261	13.8	35.7	450	13.6	0.63	13.5	<2
Aug. 22	13.2	127	6.81	22.7	207	5,354	0.53	26.2	<2
Sep. 28	35.7	428	14.9	21.0	434	19.2	0.87	3.0	<2
Oct. 17	17.8	139	9.6	21.0	322	2,295	0.53	6.5	<2
Nov. 7	54.0	605	19.7	26.9	589	9.6	1.11	43.5	<2

NR - None Reported

2006 Date	Aluminum Soluble ug/L	Barium Soluble ug/L	Boron Soluble ug/L	Chromium Soluble ug/L	Nickel Soluble ug/L	Iron Total ug/L	Manganese Total ug/L	Lithium Soluble ug/L	Zinc Soluble ug/L
Mar. 21	589	92	194	<5	<10	458	103	212	NR
May 16	259	101	259	<5	<10	195	66	206	NR
July 18	101	99	413	<5	<10	134	331	90	24
Aug. 22	85	103	236	<5	<10	38	<10	72	NR
Sep. 28	<20	117	598	<5	<10	<20	250	147	NR
Oct. 17	<20	147	213	<5	<10	<20	<10	90	NR
Nov. 7	<20	111	865	<5	<10	29	949	205	NR

NR - None Reported

QUALITY OF WATER - 2006

RIO GRANDE DOWNSTREAM FROM HASKELL R. STREET WASTEWATER TREATMENT PLANT

LOCATION: Rio Grande 1.3 kilometers downstream from Haskell R. Street Wastewater Treatment Plant Outfall. This monitoring station is located in the Texas Commission on Environmental Quality (TCEQ) Segment 2308.
RECORDS : Chemical and biochemical analyses 1976 through current year.
REMARKS : Samples collected by the International Boundary and Water Commission, U.S. Section and analyzed by El Paso Water Utilities laboratory in El Paso, Texas. Some samples collected and analyzed by TCEQ. Additional parameters, such as metals and organics, are available on the TCEQ website.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Oxygen Dissolved (DO) mg/L	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Oxygen Demand Bio-Chemical (BOD) mg/L
Mar. 21	0910	0.57*	1,130	NR	9.4	8.2	330	170	4.1
May 16	0910	0.34*	1,200	8.8	19.5	8.6	440	320	3.1
July 18	0915	NR	1,890	9.0	26.4	12.0	2,420	5,800	NR
Aug. 22	0955	6.0*	1,010	8.1	23.8	7.2	2,420	19,000	4.8
Sep. 28	0935	0.42*	2,450	8.4	18.8	14.2	2,420	17,000	16.8
Oct. 17	1000	12.7*	1,300	8.4	16.4	8.8	2,420	9,500	3.5
Nov. 7	0940	0.14*	5,120	8.3	13.8	14.3	2,420	13,000	>17.7

NR - None Reported
* - Estimated Flow
NOTE: On January 17 and June 20 sampling dates, the river was dry at sampling site.

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Mar. 21	152	628	150	182.4	81.9	NR	0.36	NR	NR
May 16	136	736	224	178.0	76.2	NR	NR	<0.06	NR
July 18	222	1,340	300	252.0	126	4.1	3.56	1.84	1.46
Aug. 22	115	618	168	479.6	71.5	0.21	1.21	0.17	0.15
Sep. 28	347	1,600	516	246.2	114	4.90	NR	1.68	1.06
Oct. 17	148	826	239	310.4	96.8	0.04	1.13	0.18	0.16
Nov. 7	557	2,480	809	315.1	162	9.8	0.22	2.88	2.01

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Hardness mg/L	Turbidity NTU	Fluoride mg/L	Arsenic Soluble ug/L	Beryllium Soluble ug/L
Mar. 21	18.0	134	8.64	16.1	246	95.5	0.71	3.8	<2
May 16	20.9	171	9.50	13.4	238	26.1	0.64	13.3	<2
July 18	28.1	240	14.6	29.5	353	27.9	0.69	5.6	<2
Aug. 22	13.2	126	6.81	26.6	206	6,066	0.54	13.2	<2
Sep. 28	35.4	384	14.3	18.7	420	12.2	0.83	26.0	<2
Oct. 17	17.8	140	9.9	21.3	323	1,923	0.55	8.1	<2
Nov. 7	54.0	615	20.0	12.4	587	3.9	1.12	45.0	<2

NR - None Reported

2006 Date	Aluminum Soluble ug/L	Barium Soluble ug/L	Boron Soluble ug/L	Chromium Soluble ug/L	Nickel Soluble ug/L	Iron Total ug/L	Manganese Total ug/L	Lithium Soluble ug/L	Zinc Soluble ug/L
Mar. 21	622	93	188	<5	<10	494	105	222	NR
May 16	424	89	20	<5	<10	240	74	206	NR
July 18	<20	114	377	<5	<10	26	133	101	NR
Aug. 22	86	106	186	<5	<10	40	<10	71	NR
Sep. 28	<20	122	577	<5	<10	<20	259	143	NR
Oct. 17	22	146	222	<5	<10	<20	<10	92	NR
Nov. 7	<20	121	871	<5	<10	<20	784	200	NR

NR - None Reported

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

RIO GRANDE AT RIVERSIDE CANAL HEADING NEAR EL PASO, TEXAS, AND CD. JUAREZ, CHIHUAHUA

LOCATION: Rio Grande at Riverside Canal, 1.8 kilometers downstream from Zaragosa International Bridge, located at river kilometer 1991 and 26.8 kilometers downstream from American Dam at El Paso, Texas.
RECORDS: Biochemical analyses, February 1976 through current year. Samples also collected quarterly by the Texas Commission on Environmental Quality.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section. Analyses by the Haskell R. Street Wastewater Treatment Plant laboratory in El Paso, Texas.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Oxygen Dissolved (DO) mg/L	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Oxygen Demand Bio-Chemical (BOD) mg/L
Jan. 17	1025	0.06*	2,440	NR	11.0	10.1	NR	50	3.0
June 20	0930	0.06*	801	9.0	25.0	7.7	58	130	4.1
Aug. 22	1025	7.1*	896	8.2	24.3	7.4	2,400	13,000	4.5
Oct. 17	1030	8.5*	1,650	8.4	16.0	8.8	2,400	37,500	9.9
Dec. 19	0920	1.7*	2,910	7.4	12.5	7.4	73	150	7.1

NR - None Reported
* - Estimated Flow
NOTE: On March 21, April 18, July 18 and November 7 sampling dates, the river was dry.

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 17	312	1,310	353	188	91.8	<0.02	7.33	1.8	1.45
June 20	80	508	144	169	77.5	0.03	0.17	0.08	NR
Aug. 22	236	640	350	219	77.6	0.04	0.92	0.17	0.16
Oct. 17	213	1,060	304	422	96.7	0.88	1.67	0.55	0.41
Dec. 19	342	1,390	380	212	80.8	0.40	6.53	1.0	0.82

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Hardness mg/L	Turbidity NTU	Fluoride mg/L	Arsenic Soluble ug/L	Beryllium Soluble ug/L
Jan. 17	22.9	327	NR	33.4	316	7.8	0.86	8.0	<2
June 20	14.3	101	7.35	20.9	212	61.6	0.59	6.8	<2
Aug. 22	14.2	126	7.48	25.1	212	4,339	0.56	13.9	<2
Oct. 17	20.3	209	10.4	23.1	342	3,446	0.61	12.0	<2
Dec. 19	21.7	324	13.2	29.0	337	254	0.88	11.4	<2

NR - None Reported

2006 Date	Aluminum Soluble ug/L	Barium Soluble ug/L	Boron Soluble ug/L	Chromium Soluble ug/L	Nickel Soluble ug/L	Iron Total ug/L	Manganese Total ug/L	Lithium Soluble ug/L
Jan. 17	90	43	457	NR	<10	97	35	151
June 20	313	55	172	6	<10	142	12	119
Aug. 22	40	107	195	<5	<10	23	<10	71
Oct. 17	<20	153	298	<5	<10	<20	<10	108
Dec. 19	29	65	463	<5	<10	30	55	147

NR - None Reported

RIO GRANDE AT ALAMO GRADE CONTROL STRUCTURE

LOCATION: Rio Grande at Alamo Control Structure, 9.7 kilometers upstream of Fort Hancock Port of Entry. Water in this area is influenced by return inflows coming into the river from agriculture and municipalities.
RECORDS : Period of record: 1997 - Present.
REMARKS : Samples collected by the International Boundary and Water Commission, U.S. Section and analyzed by the El Paso Water Utilities laboratory in El Paso, Texas. Additional samples collected by the Texas Commission on Environmental Quality (TCEQ). Additional water quality parameters including heavy metals, nutrients, pesticides, and other biological indices determined by the El Paso Water Utilities laboratory in El Paso. Extensive additional parameters, including metals and organics, were collected by TCEQ in 2005 and 2006 and are available on their website.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Turbidity NTU	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Oxygen Demand Bio-Chemical (BOD) mg/L
Jan. 30	1005	1.64	2,290	8.4	8.0	NR	390	NR	NR
Mar. 28	1111	NR	1,830	8.3	17.5	NR	1,200	NR	NR
May 23	0825	NR	1,920	8.6	19.0	NR	770	NR	NR
Aug. 15	1045	NR	1,350	8.6	25.8	NR	211	540	4.9
Aug. 30	0945	NR	1,510	8.1	23.7	NR	NR	920	NR
Sep. 19	0930	NR	1,080	8.2	20.7	NR	NR	NR	2.9
Oct. 12	0950	NR	2,440	8.2	17.1	NR	NR	610	NR
Dec. 19	1020	NR	1,720	8.0	9.8	12.5	2,400	2,500	8.0

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Calcium mg/L	Alkalinity mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L	Arsenic ug/L
Jan. 30	384	1,420	372	92.8	207	1.02	6.27	1.95	1.72	NR
Mar. 28	NR	1,130	351	99.1	203	<0.05	1.27	NR	0.36	6.37
May 23	NR	1,300	357	NR	226	<0.05	1.54	0.56	0.45	NR
Aug. 15	173	1,310	239	97.6	228	0.12	NR	0.28	0.43	NR
Aug. 30	201	984	254	NR	280	0.38	0.64	0.73	0.43	NR
Sep. 19	142	1,080	183	60.3	247	0.02	NR	0.48	0.33	NR
Oct. 12	NR	NR	NR	NR	274	NR	NR	NR	NR	NR
Dec. 19	352	1,430	374	123	305	4.9	1.97	1.70	1.41	9.10

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Organic Carbon mg/L	Oxygen Dissolved mg/L	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L	Total Hardness (as CaCO3) mg/L
Jan. 30	22.0	356	17.9	NR	0.97	6	10.5	41	5	266
Mar. 28	23.5	269	13.2	NR	0.69	7	11.4	28	8	320
May 23	NR	NR	NR	NR	0.72	6	6.0	23	7	NR
Aug. 15	19.6	183	8.85	29.5	0.72	NR	NR	NR	NR	294
Aug. 30	NR	NR	NR	NR	0.56	7	7.8	NR	NR	NR
Sep. 19	11.0	125	7.40	22.6	0.57	NR	8.1	NR	NR	228
Oct. 12	NR	NR	NR	NR	NR	NR	8.2	NR	NR	NR
Dec. 19	28.8	316	13.6	31.5	0.73	NR	11.1	NR	NR	481

NR - None Reported

08-3712.00 RIO GRANDE AT CANDELARIA, TEXAS

LOCATION: Gaging station at river kilometer 1,672, about 4.0 kilometers north of Candelaria, Texas.
RECORDS : Specific conductance -- 2004-2006.
REMARKS : Determinations for specific conductance by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
5	3,717	1	4,684	1	5,582	13	1,394	5	1,314	6	2,921
18	3,729	20	4,583					20	1,463	20	2,870
February		**April**		**June**		**August**		**October**		**December**	
6	3,718	5	5,181			7	702	2	2,540	4	3,219
21	4,298	17	5,617			17	825	16	2,081	13	2,836
						21	997	24	2,503		

08-3715.00 RIO GRANDE ABOVE RIO CONCHOS NEAR PRESIDIO, TEXAS AND OJINAGA, CHIHUAHUA

LOCATION: Gaging station at river kilometer 1,555; 10.5 river kilometers upstream from the Rio Conchos.
RECORDS : Chemical analyses, February 1933 - 1981; specific conductance, 1931 and 1935 through current year.
REMARKS : Sampling by the International Boundary and Water Commission, U.S. Section (USIBWC), and the Texas Commission on Environmental Quality (TCEQ). Determinations for specific conductance by USIBWC. Results of biochemical analyses by the USIBWC and TCEQ, November 1977 through current year, available upon request.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 25	0900	2.63	4,100	7.8	11.0	194	153	54	8
Feb. 14	0800	2.92	3,850	7.3	8.1	47	47	111	18
Mar. 28	0800	0.93	3,820	7.5	17.8	19	87	102	13
Apr. 11	1200	0.20	5,640	7.6	22.1	370	NR	80	11
May 23	0800	0.03	5,370	7.7	24.9	20	47	19	4
July 10	0900	NR	2,100	8.0	27.2	NR	NR	130	13
Aug. 30	0900	13.7	1,180	7.6	26.3	45	NR	NR	NR
Nov. 20	0800	2.15	3,700	7.8	11.0	15	53	118	23

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 25	833	2,660	712	266	230	0.012	0.57	0.23	NR
Feb. 14	714	2,360	665	229	198	0.014	0.02	0.38	NR
Mar. 28	657	2,430	795	226	203	<0.02	0.09	0.15	NR
Apr. 11	NR	4,060	1,080	267	NR	<0.05	<0.04	NR	0.11
May 23	897	3,730	1,560	225	356	0.035	0.10	NR	NR
July 10	156	1,480	749	163	NR	<0.05	0.36	NR	0.02
Aug. 30	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 20	648	2,260	629	293	218	0.033	3.79	0.78	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Fluoride mg/L	Total Hardness mg/L	Total Organic Carbon mg/L	Oxygen Demand Biochemical (BOD) mg/L	Oxygen Dissolved (DO) mg/L
Jan. 25	60.7	648	14.2	12.2	NR	NR	5.82	NR	10.2
Feb. 14	52.2	608	13.4	8.4	NR	NR	7.93	NR	10.2
Mar. 28	27.6	253	11.2	15.7	NR	NR	6.82	NR	8.8
Apr. 11	NR	NR	NR	NR	1.16	NR	8.00	NR	6.0
May 23	83.3	801	15.5	17.6	NR	NR	4.80	NR	6.8
July 10	NR	NR	NR	NR	2.22	NR	4.00	NR	4.5
Aug. 30	NR	NR	NR	NR	NR	NR	NR	NR	5.8
Nov. 20	51.2	564	16.6	28.0	0.98	622	6.80	<2	9.1

NR - None Reported

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
3	3,649	2	4,436	2	2,256	6	2,604	5	988	2	2,672
12	3,750	21	3,475	15	3,954	19	877	14	1,176	13	2,876
				23	5,366			18	1,308		
								20	1,334		
February		**April**		**June**		**August**		**October**		**December**	
1	4,359	3	3,299	5	2,212	9	855	2	2,021	6	3,195
21	3,986	17	3,676			24	1,139	16	2,330	20	2,845

08-3730.00 RIO CONCHOS NEAR PRESIDIO, TEXAS AND OJINAGA, CHIHUAHUA

LOCATION: At gaging station 2.5 kilometers from the confluence with the Rio Grande, located at river kilometer 1,547.
RECORDS : Chemical analyses, February 1935 through 1981; suspended silt, 1956 through 1979, specifice conductance, 1935 through 2002.
REMARKS : Sampling and determinations for specific conductance by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January	March	May	July	September	November
February	April	June	August	October	December

No samples collected for 2006

08-3742.00 RIO GRANDE BELOW RIO CONCHOS NEAR PRESIDIO, TEXAS AND OJINAGA, CHIHUAHUA

LOCATION: Gaging station at river kilometer 1,259; 0.6 river kilometers downstream from Alamito Creek and 18.7 river kilometers downstream from the Rio Conchos.
RECORDS : Specific conductance, 1956 through current year.
REMARKS : Sampling by the International Boundary and Water Commission, U.S. Section and the Texas Commission on Environmental Quality. Analyses by a contract laboratory. Analyses November 1977 through current year, available upon request.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 25	1045	4.47	3,900	7.5	11.0	280	125	11	2
Feb. 14	0930	3.31	3,660	7.8	11.2	121	120	72	15
Mar. 28	0930	14.8	1,900	7.8	18.0	57	300	408	30
Apr. 11	1300	12.7	1,990	7.9	21.5	410	NR	228	13
May 23	0930	2.31	3,120	7.3	26.5	56	75	60	6
July 10	1000	2.10	2,600	7.9	27.6	120	NR	114	12
Aug. 30	1100	47.1	1,010	7.5	26.1	403	NR	NR	NR
Nov. 28	0930	7.51	3,470	7.1	12.6	167	250	45	11

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 25	663	NR	796	262	222	0.013	0.28	0.134	NR
Feb. 14	614	2,440	750	211	202	<0.02	<0.04	0.218	NR
Mar. 28	140	1,220	594	215	235	0.031	0.33	0.377	NR
Apr. 11	142	1,370	693	186	NR	<0.05	0.36	0.210	NR
May 23	270	2,160	1,110	252	285	0.011	0.30	0.042	NR
July 10	239	1,840	1,210	208	NR	<0.05	0.27	0.120	NR
Aug. 30	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 28	506	2,240	794	282	234	0.023	1.75	0.449	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Fluoride mg/L	Total Hardness mg/L	Total Organic Carbon mg/L	Oxygen Demand Biochemical (BOD) mg/L	Oxygen Dissolved (DO) mg/L
Jan. 25	52.9	571	12.4	15.4	NR	NR	5.7	NR	10.4
Feb. 14	51.0	579	12.6	10.4	NR	NR	8.8	NR	10.8
Mar. 28	54.0	564	13.7	20.3	NR	NR	5.9	NR	7.7
Apr. 11	NR	NR	NR	NR	1.97	NR	3.0	NR	6.9
May 23	44.0	460	11.9	30.6	NR	NR	2.9	NR	6.3
July 10	NR	NR	NR	NR	1.96	NR	4.0	NR	5.4
Aug. 30	NR	NR	NR	NR	NR	NR	NR	NR	6.0
Nov. 28	46.3	499	13.8	24.5	1.23	776	5.5	<2	9.0

NR - None Reported

08-3742.00 RIO GRANDE BELOW RIO CONCHOS NEAR PRESIDIO, TEXAS AND OJINAGA, CHIHUAHUA

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
3	3,532	6	3,887	3	1,839	6	2,665	7	1,182	2	2,379
17	3,719	14	2,129	11	1,853	19	2,291	14	1,180	15	2,848
30	3,604	20	2,124	15	2,404			18	816		
								21	729		
								26	899		
February		**April**		**June**		**August**		**October**		**December**	
1	3,901	3	1,981	6	2,673	7	793	4	1,241	4	3,035
22	3,586	11	1,880	19	3,449	21	1,246	19	1,981	18	2,857
		19	1,869								
		25	1,841								

REMARKS : The following sampling was done by the U.S. Geological Survey as part of the National Stream Water Quality Network (NASQAN).

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Dissolved Oxygen mg/L	Alkalinity (filtered as CaCO3) mg/L	Suspended Sediment mg/L	Suspended Sediment (% finer than 62 microns) mg/L
Feb. 9	1130	10.1	3,950	8.2	12.6	12.1	231	NR	NR
Mar. 23	1200	17.1	2,120	7.9	15.1	8.9	161	NR	NR
Apr. 13	1230	19.1	1,930	7.9	22.2	7.4	161	NR	NR
May 25	1300	7.8	3,160	7.9	28.8	8.3	232	NR	NR
June 29	1430	1.2	3,300	7.9	28.8	8.4	249	NR	NR
Aug. 3	1200	22.1	1,550	7.8	26.1	6.7	127	NR	NR

NR - None Reported

2006 Date	Ammonia Nitrogen mg/L	Nitrite Nitrogen mg/L	Soluble Organic Nitrogen + Ammonia N mg/L	Total Organic Nitrogen + Ammonia N mg/L	Nitrite + Nitrate as Nitrogen mg/L	Dissolved Organic Carbon mg/L	Suspended Organic Carbon mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Feb. 9	0.04	0.008	0.443	1.20	0.06	5.02	6.32	0.163	0.018
Mar. 23	0.04	0.006	0.321	0.93	0.26	3.38	6.92	0.248	0.090
Apr. 13	0.04	0.004	0.299	0.66	0.34	3.14	NR	0.189	0.018
May 25	0.006	0.006	0.247	0.34	0.21	2.45	1.79	0.025	0.010
June 29	0.009	0.013	0.293	0.60	0.41	3.52	3.31	0.122	0.010
Aug. 3	0.05	0.014	0.346	7.68	0.49	3.79	67.3	3.925	0.010

NR - None Reported

2006 Date	Calcium mg/L	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Fluoride mg/L	Silica mg/L	Dissolved Solids Total mg/L
Feb. 9	200.3	52.82	586.7	12.59	722.1	776.6	1.09	9.53	NR
Mar. 23	148.9	24.24	266.1	8.80	197.3	635.9	2.03	18.4	NR
Apr. 13	151.9	24.30	246.7	9.08	144.1	619.8	2.10	19.6	NR
May 25	239.1	39.39	384.4	10.02	296.2	1,039	1.84	26.8	NR
June 29	256.2	39.94	411.2	10.29	320.1	1,064	1.65	26.1	NR
Aug. 3	133.8	14.85	171.2	7.35	109.5	501.6	1.45	16.0	NR

NR - None Reported

RIO GRANDE AT RIO GRANDE VILLAGE IN BIG BEND NATIONAL PARK

LOCATION: This station is located within the National Park and is directly across from the town of Boquillas, Coahuila, Mexico. The Maderas del Carmen protected area is also located in this area.
RECORDS : Period of record: 1999 - Present.
REMARKS : Samples collected by the National Park Service. Analyses determined by a contract laboratory.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Fecal Coliform CFU/100 mL	E. Coli MPN/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 25	1000	NR	2,790	8.1	17.3	NR	19	11	4
Feb. 8	1000	3.68	2,790	7.8	17.3	NR	23	23	5
Feb. 28	1000	3.96	2,740	7.7	20.3	NR	18	41	5
Apr. 4	1000	9.83	1,610	8.2	21.4	NR	19	43	11
May 3	1000	12.8	1,960	8.1	22.9	NR	43	130	9
Nov. 15	1100	10.1	2,140	8.1	17.8	NR	19	NR	23

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 25	404	1,840	623	190	177	0.008	0.03	0.044	NR
Feb. 8	433	1,810	670	189	197	0.011	0.04	<0.02	NR
Feb. 28	401	1,720	647	192	188	<0.02	0.02	0.019	NR
Apr. 4	137	1,250	574	130	143	NR	0.01	0.053	NR
May 3	111	1,160	608	153	158	0.018	0.13	0.064	NR
Nov. 15	337	1,760	677	205	191	0.036	0.94	0.090	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Fluoride mg/L	Total Hardness mg/L	Total Organic Carbon mg/L	Oxygen Demand Biochemical (BOD) mg/L	Oxygen Dissolved (DO) mg/L
Jan. 25	42.4	382	9.73	12.7	NR	NR	2.41	NR	9.5
Feb. 8	49.1	458	10.9	16.9	NR	NR	2.98	NR	9.5
Feb. 28	44.4	401	10.5	18.0	NR	NR	2.00	NR	6.7
Apr. 4	27.3	268	11.1	19.2	NR	NR	2.88	NR	8.9
May 3	26.1	246	9.62	23.3	NR	NR	2.29	NR	7.6
Nov. 15	35.0	358	11.0	23.7	1.28	550	2.20	<5	6.4

NR - None Reported

QUALITY OF WATER - 2006

08-3772.00 RIO GRANDE AT FOSTER RANCH NEAR LANGTRY, TEXAS AND RANCHO SANTA ROSA, COAHUILA

LOCATION: Gaging station at river kilometer 1,058, about 20.8 kilometers west of Langtry, Texas.
RECORDS : Chemical analyses, March 1969 through 1970 and October 1974 through current year; biochemical, October 1974 through 1995; suspended silt, 1969 through current year; specific conductance, 1969 through 1981, 1983, 1985 through current year.
REMARKS : A portion of the data results and analyses were performed by the U. S. Geological Survey and funded through National Stream Quality and Accounting Network (NASQAN); sampling and determinations for suspended silt and specific conductance by the International Boundary and Water Commission, U.S. Section. Additional water quality parameters including heavy metals, nutrients, and biological indices, determined and published by the USGS.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Oxygen Dissolved (DO) mg/L	Alkalinity (Filtered as CaCO3) mg/L	Suspended Sediment mg/L	Suspended Sediment (% finer than 62 microns)
Feb. 8	1230	8.9	1,530	8.2	15.1	10.3	230.7	NR	NR
Mar. 22	1130	12.1	1,370	7.9	17.1	9.3	160.8	NR	NR
Apr. 12	1200	14.7	1,464	8.1	23.0	8.5	160.6	NR	NR
May 24	1300	7.10	1,310	8.2	27.1	8.3	232.1	NR	NR
June 28	1300	5.70	797	8.1	25.8	7.1	248.7	NR	NR
Aug. 2	1000	29.4	1,240	8.0	27.8	7.1	127.4	NR	NR

NR - None Reported

2006 Date	Dissolved Organic Carbon mg/L	Suspended Organic Carbon mg/L	Soluble Organic Nitrogen + Ammonia N mg/L	Total Organic Nitrogen + Ammonia N mg/L	Nitrite Nitrogen mg/L	Ammonia Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Feb. 8	5.02	6.32	0.443	1.200	0.008	0.040	0.060	0.163	0.018
Mar. 22	3.38	6.92	0.321	0.929	0.006	0.040	0.258	0.248	0.090
Apr. 12	3.14	NR	0.299	0.658	0.004	0.040	0.340	0.189	0.018
May 24	2.45	1.79	0.247	0.342	0.006	0.006	0.213	0.025	0.010
June 28	3.52	3.31	0.293	0.604	0.013	0.009	0.410	0.122	0.010
Aug. 2	3.79	67.3	0.346	7.681	0.014	0.050	0.488	3.925	0.010

NR - None Reported

2006 Date	Chloride mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Fluoride mg/L	Silica mg/L	Dissolved Solids Total mg/L
Feb. 8	722.1	776.6	200.3	52.8	586.7	12.6	1.09	9.53	NR
Mar. 22	197.3	635.9	148.9	24.2	266.1	8.80	2.03	18.4	NR
Apr. 12	144.1	619.8	151.9	24.3	246.7	9.08	2.10	19.6	NR
May 24	296.2	1,039	239.1	39.4	384.4	10.0	1.84	26.8	NR
June 28	320.1	1,064	256.2	39.9	411.2	10.3	1.65	26.1	NR
Aug. 2	109.5	501.6	133.8	14.9	171.2	7.35	1.45	16.0	NR

NR - None Reported

SUSPENDED SILT - 2006

2006 Date	Time Std.	Stream-flow, Momen-tary CMS	Gravimetric Percent	2006 Date	Time Std.	Stream-flow, Momen-tary CMS	Gravimetric Percent	2006 Date	Time Std.	Stream-flow, Momen-tary CMS	Gravimetric Percent
Jan. 06	1045	12.8	0.0041	May 01	1030	16.6	0.0706	Sep. 01	1015	90.6	1.6804
Jan. 23	1015	11.8	0.0050	May 15	1015	15.2	0.0147	Sep. 18	1030	126	0.5340
Feb. 06	1045	10.8	0.0020	June 05	1000	11.0	0.0131	Oct. 02	1030	103	0.5440
Feb. 17	1030	11.3	0.0079	June 19	0945	6.62	0.0088	Oct. 16	1015	42.5	0.9928
Mar. 06	1045	11.4	0.0078	July 05	1015	8.41	0.0117	Nov. 06	1115	24.2	0.0155
Mar. 20	1130	12.2	0.0085	July 17	0945	12.1	0.0102	Nov. 20	1015	16.1	0.0076
Apr. 03	0930	17.1	0.0055	Aug. 07	1245	80.4	1.8423	Dec. 04	1130	13.8	0.0028
Apr. 17	0945	15.8	0.0048	Aug. 21	1000	31.2	1.0475	Dec. 18	1100	15.9	0.0025

08-3772.00 RIO GRANDE AT FOSTER RANCH NEAR, LANGTRY, TEXAS AND RANCHO SANTA ROSA, COAHUILA

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
9	1,569	6	1,535	1	1,307	5	968	1	870	6	1,722
23	1,499	20	1,339	15	1,399	17	1,161	18	1,181	20	1,764
February		**April**		**June**		**August**		**October**		**December**	
6	1,523	3	1,582	5	939	7	814	2	1,131	4	1,783
17	1,473	17	1,484	19	1,039	21	663	16	1,114	18	1,742

08-4474.10 PECOS RIVER NEAR LANGTRY, TEXAS

LOCATION: At gaging station, 24.1 river kilometers from the confluence with the Rio Grande, which is located at river kilometer 991.4.
RECORDS : Chemical analyses, 1967 through current year; biochemical analyses, October 1974 through 1995; suspended silt, November 1954 through 1976; specific conductance daily, 1969 through September 1985 and biweekly through current year.
REMARKS : A portion of the data results and analyses were performed by U.S. Geological Survey and funded through the National Stream Quality and Accounting Network (NASQAN); sampling and determinations for specific conductance by the International Boundary and Water Commission, U.S. Section. Additional water quality parameters including heavy metals, nutrients, pesticides and other biological indicies determined by the U.S. Geological Survey.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Oxygen Dissolved (DO) mg/L	Alkalinity (Filtered as CaCO3) mg/L	Suspended Sediment mg/L	Nitrite as Nitrogen mg/L
Feb. 7	1530	8.86	4,100	8.2	13.4	11.6	158	NR	NR
Mar. 21	1130	14.7	4,300	8.1	18.3	9.2	146	NR	NR
Apr. 11	1130	NR	4,430	8.1	22.0	8.3	126	NR	NR
May 23	1000	5.72	3,190	8.2	26.2	7.9	113	NR	NR
June 27	1000	29.5	2,680	8.2	28.8	7.2	117	NR	NR
Aug. 1	1030	NR	2,460	8.1	27.9	7.8	121	NR	NR

NR - None Reported

2006 Date	Dissolved Organic Carbon mg/L	Suspended Organic Carbon mg/L	Soluble Organic Nitrogen + Ammonia N mg/L	Total Organic Nitrogen + Ammonia N mg/L	Nitrite Nitrogen mg/L	Ammonia Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Feb. 7	1.22	0.120	0.197	0.197	0.005	0.029	0.706	0.003	0.006
Mar. 21	1.34	0.180	0.253	0.266	0.006	0.029	0.520	0.004	0.006
Apr. 11	1.69	0.212	0.255	0.252	0.007	0.021	0.362	0.002	0.006
May 23	2.02	0.243	0.345	0.344	0.004	0.036	0.130	0.004	0.006
June 27	2.49	0.232	0.342	0.324	0.003	0.048	0.049	0.004	0.005
Aug. 1	2.13	0.175	0.376	0.334	0.002	0.046	0.065	0.005	0.008

NR - None Reported

2006 Date	Chloride mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Fluoride mg/L	Silica mg/L	Dissolved Solids Total mg/L
Feb. 7	890.8	561.2	180.5	84.8	509.5	9.15	0.879	12.1	NR
Mar. 21	969.0	592.8	179.1	87.9	559.2	9.54	0.930	12.6	NR
Apr. 11	1,007	617.3	180.2	93.8	585.4	9.53	0.994	13.5	NR
May 23	702.2	427.2	119.5	65.9	409.4	7.35	0.949	14.5	NR
June 27	566.6	341.3	103.3	56.3	337.9	6.85	0.898	16.5	NR
Aug. 1	522.4	315.3	99.5	55.4	316.9	6.86	0.885	17.1	NR

NR - None Reported

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
9	3,702	6	4,025	1	3,404	5	2,530	1	2,240	6	2,846
23	3,695	21	4,299	15	3,289	17	2,487	18	1,917	20	2,970
February		**April**		**June**		**August**		**October**		**December**	
6	3,702	1	3,967	5	2,783	8	2,265	3	2,476	4	3,274
		17	3,985	19	2,714	21	2,297	16	2,579	18	3,286

08-4494.00 DEVILS RIVER AT PAFFORD CROSSING NEAR COMSTOCK, TEXAS

LOCATION: At gaging station 41.0 river kilometers from the confluence with the Rio Grande, which is located at river kilometer 925.
RECORDS : Daily specific conductance, 1968 through September 1985; weekly or biweekly specific conductance through current year; chemical/biochemical data available for 2004 through current year.
REMARKS : Sampling and determinations for specific conductance by the U. S. Geological Survey through September 1985. Sampling prior to 1978 and from October 1985 to 2004 by the International Boundary and Water Commission, U.S. Section. Sampling since 2005 by the Texas Commission on Environmental Quality. Chemical and biochemical analyses, 1978 through 1985 available from the USGS.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temperature Deg C	Oxygen Dissolved (DO) mg/L	E. Coli MPN/100 mL	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Mar. 14	1530	7.76	387	6.4	20.0	11.4	6	228	<4	<4
Jun. 28	1339	0.20	389	8.2	26.1	9.0	4	224	<4	<4
Nov. 2	1600	6.03	430	8.1	21.0	10.2	10	NR	NR	NR
Dec. 5	1426	6.07	430	8.2	12.7	11.7	5	NR	NR	NR

2006 Date	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	Alkalinity mg/L	Total Organic Carbon mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Mar. 14	15	0.34	9	187	<2	<0.05	1.34	<0.06	<0.04
Jun. 28	13	0.28	8	162	<2	<0.05	0.88	<0.06	NR
Nov. 2	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dec. 5	NR	NR	NR	NR	NR	NR	NR	NR	NR

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
9	486	6	417	1	406	5	386	5	376	6	447
23	419	17	408	15	382	17	369	18	390	20	436
February		**April**		**June**		**August**		**October**		**December**	
6	406	3	398	5	394	1	430	2	383	4	420
21	424	17	369	19	378	14	425	16	385	18	402

08-4509.00 RIO GRANDE BELOW AMISTAD DAM NEAR CD. ACUNA, COAHUILA AND DEL RIO, TEXAS

LOCATION: Gaging station at river kilometer 920.3, 3.4 river kilometers downstream from Amistad Dam.
RECORDS : Chemical analyses, July 1968 through 2005; suspended silt, 1969 through 1976; specific conductance 1968 through 2005.
REMARKS : A portion of the data results and analyses were performed by the U.S. Geological Survey and funded through the National Stream Quality and Accounting Network (NASQAN). Sampling and determinations for specific conductance by the International Boundary Water Commission, U.S. Section.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temperature Deg C	Dissolved Oxygen mg/L
No Samples Taken in 2006						

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

08-4509.00 RIO GRANDE BELOW AMISTAD DAM NEAR CD. ACUNA, COAHUILA AND DEL RIO, TEXAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		921	910		967				1,004		958	956
2						990		966		949		
3	988	947	927	946	984						960	
4	969							955		957		952
5				957	991	943	966					
6	977	918	967				962		995	956	960	952
7				960		990	947	969				
8		918	962		988				997		957	952
9	1,103					1,034		969				
10		929	967	940	987		954			948		
11	1,117							966	980	953		970
12				948	995	1,032	964					
13	892	883	954						993	951	962	964
14				952		950	952	970				
15		881	950		981				998		1,051	949
16				958		948		977		930		
17	876		931		975		963				951	
18	859			949				972	996	950		950
19					972	955	961					
20	956		971						1,022	959	958	958
21		871		942		950	968	970				
22		887	981		973				1,025		963	963
23	899					962		1,008		960		
24		895	1,014	991			962					
25	930			988				1,007	962	960		
26						947	963					960
27	929	902	983						953	956	966	936
28				980		952	979	1,004				
29			1,015						958		983	951
30	922					958		988		955		
31			1,033				980					

QUALITY OF WATER - 2006

RIO GRANDE DOWNSTREAM FROM DEL RIO, TEXAS NEAR MOODY RANCH

LOCATION: Rio Grande 2.7 kilometers downstream from Del Rio, Texas near Moody Ranch. Monitoring station is located at river kilometer 903.25, 20.4 river kilometers downstream from Amistad Dam.
RECORDS: Period of record: 1988 - current year.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section, and the Texas Commission on Environmental Quality. Analyses by a contract laboratory.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temperature Deg C	E. Coli MPN/100 mL	Fecal Coliform CFU/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 25	1035	18.6	963	8.5	13.9	866	660	2	1
Feb. 22	1315	62.9	911	7.6	11.5	NR	NR	3	3
Mar. 15	1122	58.2	937	8.2	14.3	250	NR	<4	<4
Apr. 11	1310	48.0	873	8.0	17.6	NR	NR	2	2
May 9	1230	97.2	978	8.4	18.9	649	153	<1	<1
June 28	1551	1.64	916	8.1	20.9	47	NR	6	<4
Aug. 23	1135	13.8	961	8.2	22.7	81	227	NR	NR
Sep. 13	1105	26.7	1,043	7.9	23.0	157	225	NR	NR
Nov. 14	1300	19.9	784	8.2	20.1	43	34	5	3

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 25	100	548	146	139	73.1	0.16	0.44	0.05	NR
Feb. 22	75.1	508	112	138	75.8	0.26	0.36	0.13	NR
Mar. 15	118	554	166	133	NR	<0.05	0.29	0.08	NR
Apr. 11	NR	519	NR	136	76.1	0.11	0.30	0.03	NR
May 9	83.2	526	131	131	74.4	0.04	0.25	0.01	NR
June 28	111	582	155	136	NR	0.16	0.37	0.07	NR
Aug. 23	NR	NR	NR	NR	NR	NR	NR	NR	NR
Sep. 13	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 14	104	570	170	130	75.8	0.20	0.27	0.10	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Total Fluoride mg/L	Total Hardness mg/L	Total Organic Carbon mg/L	Oxygen Demand Biochemical (BOD) mg/L	Oxygen Dissolved (DO) mg/L
Jan. 25	18.0	82.6	3.70	14	NR	NR	2.41	NR	9.0
Feb. 22	18.5	83.7	3.86	15	NR	NR	2.98	NR	NR
Mar. 15	NR	NR	NR	NR	0.59	NR	2.00	NR	11.6
Apr. 11	19.7	89.4	3.95	13.7	NR	NR	2.88	NR	10.9
May 9	19.4	90.5	3.81	13.7	NR	NR	2.29	NR	14.3
June 28	NR	NR	NR	NR	0.59	NR	3.00	NR	10.1
Aug. 23	NR	NR	NR	NR	NR	NR	NR	NR	7.6
Sep. 13	NR	NR	NR	NR	NR	NR	NR	NR	6.7
Nov. 14	18.8	89.0	4.32	14.3	0.61	226	2.20	<5	NR

NR - None Reported

08-4557.00 RIO GRANDE NEAR JIMENEZ, COAHUILA AND QUEMADO, TEXAS

LOCATION: Near gaging station at Maverick Canal Headgates. The canal intake is at river kilometer 875, 21.5 river kilometers above the gaging station.
RECORDS: Specific conductance, 1954 through current year.
REMARKS: Sampling and determinations by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	875	844	940	918	934	928	934	913	931	878	882	935
2	901	891	943	915	951	920	938	914	886	906	914	910
3	897	890	947	914	932	920	936	911	879	906	917	906
4	901	889	946	913	933	925	939	911	884	907	916	899
5	901	885	951	914	943	924	940	914	885	908	912	892
6	899	884	945	915	934	921	937	912	885	907	916	889
7	898	885	951	908	933	927	938	916	885	903	916	890
8	898	886	948	915	949	923	940	916	881	897	918	894
9	897	884	954	913	927	923	943	917	878	900	915	892
10	900	889	947	913	934	923	944	910	883	900	910	888
11	900	891	947	913	935	924	936	913	880	908	909	889
12	899	886	943	912	936	926	941	911	885	908	910	888
13	898	884	947	913	943	924	938	916	882	906	916	887
14	899	881	946	911	933	922	939	912	885	906	915	888
15	895	890	947	913	932	926	940	911	884	906	913	895
16	900	890	944	913	940	924	936	917	883	906	914	891
17	900	889	946	912	933	928	941	915	882	897	918	885
18	899	889	955	913	943	922	940	914	885	905	916	882
19	898	884	947	915	933	923	927	917	883	908	915	884
20	900	891	946	908	933	923	937	911	883	908	932	883
21	900	889	945	905	932	925	938	967	884	908	921	886
22	891	889	945	915	938	925	943	917	882	909	918	895
23	897	889	944	915	935	927	943	914	884	901	915	892
24	891	890	942	915	928	924	937	913	880	907	918	891
25	903	888	956	914	932	920	939	917	883	908	921	883
26	902	890	942	911	922	929	941	917	881	900	917	890
27	900	889	937	906	923	927	941	911	879	908	917	891
28	901	890	944	914	952	927	939	919	882	905	917	889
29	901		1,048	914	938	928	943	917	882	907	913	895
30	902		946	914	929	922	943	917	884	909	918	899
31	902		946		933		938	915		910		885

08-4587.00 RIO GRANDE NEAR EL INDIO, TEXAS AND VILLA GUERRERO, COAHUILA

LOCATION: Gaging station at river kilometer 741, 57.8 river kilometers downstream from the international highway bridge between Eagle Pass, Texas and Piedras Negras, Coahuila.
RECORDS: Specific conductance 1954 through current year.
REMARKS: Sampling and determinations by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January		March		May		July		September		November	
4	826	1	914	3	991	7	949	6	996	15	981
25	974	16	968	17	963	19	938	20	929		
February		**April**		**June**		**August**		**October**		**December**	
1	941	5	977	7	963	2	976	4	838	6	979
15	889	19	973	21	955	16	992	18	922	20	957

QUALITY OF WATER - 2006

08-4590.00 RIO GRANDE AT LAREDO, TEXAS AND NUEVO LAREDO TAMAULIPAS

LOCATION: Samples for biochemical analyses, specific conductance, and suspended silt collected at the Laredo Water Plant, river kilometer 586.
RECORDS: Chemical analyses, 1955 through 1976; chemical and biochemical analyses, 1973 through September 1986; biochemical analyses, September 1968 through current year; suspended silt, 1953 through current year; specific conductance, 1948-1949 and 1955 through current year.
REMARKS: Field parameter samples for biochemical analyses, suspended silt and specific conductance collected and analyzed by the International Boundary and Water Commission and the Texas Commission on Environmental Quality. Additional water quality parameters, including heavy metals, nutrients, pesticides, and biological indices, available from U. S. Geological Survey through September 1986.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance MicroSiemens /cm	pH Units	Water Temperature Deg C	Oxygen Dissolved (DO) mg/L	Total Organic Carbon mg/L	Oxygen Demand Biochemical mg/L	Dissolved Solids Total mg/L
Apr. 6	0715	NR	627	8.1	24.4	7.5	3.39	NR	577

NR - None Reported

2006 Date	Chloride mg/L	Alkalinity (Filtered as CaCO3) mg/L	Sulfate mg/L	Turbidity NTU	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Apr. 6	98.8	138	157	NR	83.3	0.019	0.27	0.104	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Fluoride mg/L	Silica mg/L	Total Hardness mg/L	Suspended Sediment mg/L	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Apr. 6	21.5	107	5.0	NR	6.34	273	NR	48	7

2006 Date	Fecal Coliform CFU/100 mL	E. Coli MPN/100 mL	2006 Date	Fecal Coliform CFU/100 mL	E. Coli MPN/100 mL
Jan. 10	<10	6	June 13	10	<1
Feb. 14	<10	<1	July 12	20	2
Mar. 15	10	15	Aug. 7	10	4
Apr. 6	25	24	Oct. 10	40	5
Apr. 11	<10	17	Nov. 13	<10	5
May 23	380	38	Dec. 18	50	31

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

08-4590.00 RIO GRANDE AT LAREDO, TEXAS AND NUEVO LAREDO TAMAULIPAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	720	643	903	957	960	978	945	938	963	632	919	971
2	779	907	915	946	680	927	948	892	970	449	911	980
3	782	935	914	957	827	960	895	935	942	774	914	975
4	794	935	912	975	892	955	955	944	987	740	924	NR
5	795	930	907	957	890	962	960	948	975	855	943	910
6	775	935	911	934	882	942	965	923	945	883	907	976
7	795	935	911	941	863	940	885	850	935	770	865	847
8	722	944	918	944	897	949	926	846	928	736	899	909
9	806	943	931	954	881	952	955	845	959	729	946	819
10	812	934	936	956	841	941	958	910	918	760	869	839
11	780	938	943	977	891	952	970	935	932	839	946	890
12	827	934	953	963	951	953	900	932	901	849	948	894
13	859	937	954	957	963	961	966	943	880	867	923	848
14	857	917	968	957	965	941	925	869	698	373	911	903
15	870	910	979	952	715	965	981	932	562	725	903	869
16	847	915	977	950	888	982	975	946	501	557	922	906
17	890	908	967	949	780	998	971	943	819	790	845	828
18	849	893	973	951	817	1,001	883	961	849	696	902	885
19	908	878	967	953	835	991	966	941	811	879	894	951
20	963	887	968	956	950	957	970	917	776	933	829	968
21	948	884	972	952	953	994	971	960	614	943	859	920
22	963	892	963	956	963	974	985	936	753	944	891	950
23	954	890	963	948	945	1,004	982	954	763	955	906	920
24	940	903	949	953	965	1,007	978	951	609	900	932	848
25	887	911	970	951	948	1,003	978	955	781	871	919	945
26	866	894	980	930	961	1,000	967	958	865	936	942	960
27	861	895	983	921	957	996	971	967	825	952	958	930
28	904	897	986	942	956	989	974	964	837	931	944	919
29	896		972	948	962	975	982	968	918	947	953	961
30	903		1,055	949	975	969	996	961	969	954	939	975
31	898		964		970		988	965		945		959

SUSPENDED SILT - 2006

Month	Monthly Weight Megagrams: Water Volume Cubic Meters	Monthly Weight Megagrams: Silt	Number of Samples	Gravimetric Percentages: Composite	Gravimetric Percentages: Maximum Sample*	Gravimetric Percentages: Minimum Sample*	Silt Volume Thousand Cubic Meters**: Total
Jan.	138,033,000	828	31	0.0600	0.0017	0.0073	0.775
Feb.	158,198,000	30	28	0.0019	0.0040	0.0013	0.028
Mar.	161,793,000	39	31	0.0024	0.0041	0.0045	0.036
Apr.	135,942,000	22	30	0.0016	0.0009	0.0029	0.020
May	224,044,000	76	31	0.0034	0.1718	0.0033	0.071
June	102,090,000	10	30	0.0010	0.0041	0.0030	0.010
July	90,599,000	8	31	0.0009	0.0059	0.0060	0.008
Aug.	78,987,000	13	31	0.0016	0.0054	0.0021	0.012
Sept.	97,053,000	105	30	0.0108	0.0274	0.0031	0.098
Oct.	90,444,000	82	31	0.0091	0.1319	0.0043	0.077
Nov.	73,673,000	10	30	0.0013	0.0027	0.0023	0.009
Dec.	133,384,000	3	31	0.0002	0.0094	0.0037	0.002
Year	1,484,240,000	1,225	365				1.147

* Represents the gravimetric percentages at the maximum flow and minimum flow of the month
** Volume calculated at 1.068 megagrams per cubic meter

QUALITY OF WATER - 2006

08-4592.00 RIO GRANDE AT PIPELINE CROSSING, LAREDO, TEXAS AND NUEVO LAREDO, TAMAULIPAS

LOCATION: Samples collected 13.9 kilometers downstream from Texas/Mexico Railroad bridge, river kilometer 563. Latitute 27 24'01", Longitute 99 29'18".
RECORDS: Chemical analyses, 1955 through 1976; chemical and biochemical analyses, 1973 through September 1986; biochemical analyses, September 1968 through current year; suspended silt, 1953 through current year; specific conductance, 1948-1949 and 1955 through current year.
REMARKS: Field parameter samples for biochemical analyses, suspended silt and specific conductance collected and analyzed by the U. S. Geological Survey. Additional water quality parameters, including heavy metals, nutrients, pesticides, and biological indices, available from U.S. Geological Survey through September 1986.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Oxygen Dissolved (DO) mg/L	Alkalinity (Filtered as CaCO3) mg/L	Suspended Sediment mg/L	Suspended Sediment (% finer than 62 microns)
Jan. 12	1430	44.6	878	8.3	17	7.9	124	NR	NR
Feb. 27	1510	64.7	931	8.2	18	9.1	136	NR	NR
May 2	1230	53.9	995	8.0	26	6.6	134	NR	NR
Sep. 5	1400	15.7	1,100	NR	29	8.3	126	NR	NR
Sep. 19	1300	87.9	960	8.1	29	6.3	124	NR	NR

NR - None Reported

2006 Date	Dissolved Organic Carbon mg/L	Suspended Organic Carbon mg/L	Soluble Organic Nitrogen + Ammonia N mg/L	Total Organic Nitrogen + Ammonia N mg/L	Nitrite Nitrogen mg/L	Ammonia Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 12	2.67	0.67	0.42	0.52	0.019	0.169	0.296	0.176	0.142
Feb. 27	3.43	1.49	0.69	0.68	0.028	0.191	0.427	0.185	0.098
May 2	3.03	2.07	0.45	0.62	0.028	0.086	0.719	0.246	0.153
Sep. 5	2.91	1.14	0.72	0.79	0.060	0.273	1.245	0.475	0.428
Sep. 19	4.17	0.12	0.43	0.93	0.015	0.061	0.575	0.322	0.125

NR - None Reported

2006 Date	Chloride mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Fluoride mg/L	Silica mg/L	Dissolved Solids Total mg/L
Jan. 12	103.7	159.5	67.0	17.9	78.3	3.54	0.52	1.26	NR
Feb. 27	107.9	159.8	73.6	19.5	88.4	4.05	0.63	4.59	NR
May 2	124.6	174.9	76.5	21.0	97.0	4.39	0.62	10.5	NR
Sep. 5	136.1	186.8	69.1	21.1	112.5	5.09	0.65	15.8	NR
Sep. 19	112.9	168.0	68.9	18.4	93.1	4.65	0.60	14.8	NR

08-4613.00 RIO GRANDE BELOW FALCON DAM NEAR FALCON, TEXAS AND NUEVA CD. GUERRERO, TAMAULIPAS

LOCATION: Chemical and specific conductance samples from Falcon Reservoir at Falcon Dam, river kilometer 442.3, and biochemical sampling at the Chapeno gaging station 4.1 river kilometers below Falcon Dam; latitude 26 31'45", longitude 99 09'30".
RECORDS: Chemical analyses, July 1955 through 2005; biochemical analyses, July 1975 through 2005; suspended silt, July 1955 through 1976; specific conductance 1955 through 2005.
REMARKS: Sampling and determinations for specific conductance by the U.S. Geological Survey at Falcon Dam Power Plant tailrace: biochemical analyses, collected and analyzed by the USGS. A portion of the data results and analyses were performed by the USGS and funded through the National Stream Quality and Accounting Network (NASQAN).

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C
No samples collected in 2006					

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

08-4613.00 RIO GRANDE BELOW FALCON DAM NEAR FALCON, TEXAS AND NUEVA CD. GUERRERO, TAMAULIPAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		860	865		902				958		912	900
2	850					927		962		957		
3		866	891		906		943				886	
4	852			891				949		938		870
5				898		931	937					
6	870	864	885		909				956	937	895	872
7				900		930		948				
8		863	887		906		951		959		897	873
9	876					930		955		940		
10	858	866	884	898	912		947				902	
11								943	960	935		856
12				901	914	931	945					
13	855	868	886						958	936	895	871
14				901		940	951	952				
15		864	888		916				955	932	891	874
16	857					939		955				
17		868	885	903	914		948				899	
18	856							948	950	934		877
19				904	914	933	952					
20	860	866	884						952		897	885
21				905		937	958	958				
22		869	886		918				952	924	908	872
23	858					931						
24		865	885	908	920		954				893	
25								957	956	914		858
26				904	916	941						
27	860	872	890						950	916	885	871
28				897		938	956	953				
29			891		928				957		880	869
30	859					942		963		919		
31			889		930		960					

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

RIO GRANDE BELOW RIO ALAMO NEAR FRONTON, TEXAS

LOCATION: Monitoring station is located at river kilometer 422.27 and 42.1 kilometers upstream from Rio Grande City, Texas.
RECORDS : Period of record: 1988 - current year.
REMARKS : Sampling by the International Boundary and Water Commission, U.S. Section. Analyses by a contract laboratory.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	E. Coli MPN/100 mL	Fecal Coliform CFU/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Feb. 21	1015	65.0	898	7.8	16.1	240	100	3	3
Mar. 30	1000	130	976	7.8	20.6	91	88	11	2
May 9	0935	190	999	8.2	26.0	18	22	14	3
Aug. 15	0815	36.0	932	7.8	24.9	127	125	NR	NR
Sep. 19	0935	22.7	822	7.6	28.1	35	60	NR	NR
Nov. 9	0950	63.0	892	7.7	23.0	249	277	3	<2
Dec. 12	1025	35.0	NR	NR	NR	NR	NR	4	6

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Feb. 21	96.8	487	154	130	72.5	0.015	0.02	0.026	NR
Mar. 20	98.2	536	158	135	75.0	0.041	0.06	0.023	NR
May 9	83.4	537	146	129	75.8	0.048	0.03	<0.02	NR
Aug. 15	NR	NR	NR	NR	NR	NR	NR	NR	NR
Sep. 19	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 9	115	595	179	112	71.2	0.038	0.06	<0.025	NR
Dec. 12	119	593	170	115	64.9	0.035	<0.04	0.051	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Organic Carbon mg/L	Total Hardness mg/l	Oxygen Dissolved mg/l	Oxygen Demand Biochemical mg/l
Feb. 21	19.1	87.0	5.11	14.0	NR	5.27	NR	6.5	NR
Mar. 20	19.5	89.8	4.43	13.5	NR	5.46	NR	6.2	NR
May 9	20.2	91.8	5.16	13.4	NR	4.35	NR	6.2	NR
Aug. 15	NR	NR	NR	NR	NR	NR	NR	6.5	NR
Sep. 19	NR	NR	NR	NR	NR	NR	NR	6.9	NR
Nov. 9	20.9	104	6.17	11.8	0.53	4.26	218	6.4	<5
Dec. 12	17.9	84.8	5.47	12.2	0.60	4.98	239	NR	<2

NR - None Reported

QUALITY OF WATER - 2006

08-4645.00 RANCHERIAS DRAIN NEAR CAMARGO, TAMAULIPAS

LOCATION: At a point about 600 meters from the confluence with the Rio Grande, which is located at river kilometer 389. This drain carries waste water from the Lower Rio San Juan Irrigation District in Mexico.
RECORDS: Specific conductance, 1948 and 1960 through 2002.
REMARKS: Sampling and determinations by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

January	March	May	July	September	November
February	April	June	August	October	December

No samples collected for 2006

08-4647.00 RIO GRANDE AT RIO GRANDE CITY, TEXAS NEAR CAMARGO, TAMAULIPAS

LOCATION: Gaging station at river kilometer 378, 6.0 river kilometers downstream from Rio San Juan.
RECORDS: Chemical analyses, 1959 through current year; specific conductance, 1958 through current year; suspended silt, 1959 through 1977.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section; chemical analyses by a contract laboratory; specific conductance determinations by the International Boundary and Water Commission, U.S. Section.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temperature Deg C	E. Coli (MPN/100mL)	Fecal Coliform (CFU/100 mL)	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 10	0810	121	1,070	7.9	16.1	87	80	44	6
Feb. 21	0900	65.0	1,150	7.7	15.5	1,011	850	20	9
Mar. 20	0830	130	1,090	7.9	19.4	251	200	37	7
Apr. 12	0815	250	1,070	8.0	22.6	961	900	62	9
May 9	0830	190	1,090	7.9	20.7	665	750	20	2
Aug. 15	1030	36.0	1,220	8.0	28.5	66	60	NR	NR
Sep. 19	0845	22.7	935	7.8	27.3	48	65	NR	NR
Nov. 9	0830	34.9	947	8.0	23.8	1,553	760	4	4
Dec. 12	0855	35.0	NR	NR	NR	NR	NR	6	5

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 10	112	648	183	125	74.4	0.29	0.15	0.079	NR
Feb. 21	108	821	164	137	73.8	1.4	0.05	0.314	NR
Mar. 20	112	618	198	127	82.0	0.25	0.17	0.104	NR
Apr. 12	93.2	585	181	130	82.6	0.24	0.09	0.095	NR
May 9	86.2	572	151	130	77.2	0.31	0.08	0.004	NR
Aug. 15	NR	NR	NR	NR	NR	NR	NR	NR	NR
Sep. 19	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 9	131	615	195	114	64.7	0.67	0.05	0.133	NR
Dec. 12	142	686	200	130	68.6	1.7	0.10	0.357	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Organic Carbon mg/L	Total Hardness mg/l	Oxygen Dissolved mg/l	Oxygen Demand Biochemical mg/l
Jan. 10	21.1	99.2	5.78	12.6	NR	5.05	NR	6.7	NR
Feb. 21	19.3	95.4	5.50	13.0	NR	7.81	NR	6.3	NR
Mar. 20	23.8	104	5.27	11.5	NR	6.04	NR	6.9	NR
Apr. 12	24.0	101	5.69	10.9	NR	5.22	NR	6.8	NR
May 9	20.6	95.2	5.51	13.6	NR	4.20	NR	6.9	NR
Aug. 15	NR	NR	NR	NR	NR	NR	NR	6.7	NR
Sep. 19	NR	NR	NR	NR	NR	NR	NR	7.1	NR
Nov. 9	20.0	113	5.51	10.5	0.55	4.45	220	8.7	<5
Dec. 12	21.4	101	6.20	11.8	0.56	4.80	255	NR	<2

NR - None Reported

QUALITY OF WATER - 2006

08-4647.00 RIO GRANDE AT RIO GRANDE CITY, TEXAS NEAR CAMARGO, TAMAULIPAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1					923			1,004	998		953	
2						937				1,019		
3	903			909			935				997	
4								990				
5				912	870	945			994			
6	867	1,036	1,003							996	988	
7				911			1,027	999				791
8		924	991		860				984		969	
9	871					934						
10		927		915			1,045			986		
11								1,011	997			941
12					919	936						
13	892	923	1,049	915								
14							989	1,001				
15		915	1,052		918				979			978
16						968					978	
17	976	1,026		915			998			920		
18								1,000	997			963
19	912				916	1,032						
20	888		1,004	916							986	
21		1,034					998	992				
22					941				998			
23	891	1,032				1,030						
24		935	1,006	926			992					
25								995	998			
26				921	930	930						988
27	894	920	1,004								956	
28				918			987	1,029				
29									996			
30	883					1,029				982		
31			997		922							

PUERTECITOS DRAIN AND LOS INDIOS DRAIN NEAR CD. DIAZ ORDAZ, TAMAULIPAS

LOCATION: Puertecitos Drain, is located at a point about 2,600 meters from the confluence with the Rio Grande, which is located at river kilometer 353; and, Los Indios Drain, at a point about 650 meters from its confluence with Puertecitos Drain. These two drains join at a point about 1,300 meters from the confluence with the Rio Grande. These drains carry waste water from the lower Rio San Juan Irrigation District in Mexico.
RECORDS: Specific conductance, 1960 through 1997 for Los Indios and through 2002 for Puertecitos.
REMARKS: Sampling and determinations by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

2006 Date	Puerte-citos Drain	Los Indios Drain

No samples collected for Los Indios and Puertecitos Drains for 2006.

08-4663.00 RIO GRANDE AT LOS EBANOS, TEXAS NEAR CD. DIAZ ORDAZ, TAMAULIPAS

LOCATION: Gaging station at river kilometer 329, 54.7 river kilometers upstream from Anzalduas Dam.
RECORDS: Chemical analyses, June 1977 through current year; specific conductance, 1956 through current year.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section; chemical analyses by a contract laboratory; specific conductance determinations by the International Boundary and Water Commission, U.S. Section.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	E. Coli MPN/100 mL	Fecal Coliform CFU/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 30	1150	74.8	933	8.0	19.0	NR	NR	156	12
Mar. 22	1010	229.0	994	7.9	21.2	NR	NR	48	6
May 23	1035	66.4	1,059	7.8	27.7	NR	NR	41	4
Dec. 19	1045	33.1	1,075	8.0	21.2	NR	NR	<2	<2

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 30	120	606	185	147	83.6	0.063	0.22	0.078	NR
Mar. 22	115	596	206	126	85.4	<0.02	0.17	0.097	NR
May 23	128	657	208	135	85.4	0.048	0.22	0.084	NR
Dec. 19	146	657	218	129	76.9	0.031	0.079	0.065	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Organic Carbon mg/L	Total Hardness mg/l	Oxygen Dissolved mg/l	Oxygen Demand Biochemical mg/l
Jan. 30	21.4	99.6	8.44	12.5	NR	5.28	NR	10.6	NR
Mar. 22	24.2	105	6.12	10.6	NR	5.23	NR	7.7	NR
May 23	23.6	114	5.93	12.8	NR	4.62	NR	6.5	NR
Dec. 19	22.5	143	5.64	9.99	0.62	5.23	316	5.1	<2

NR - None Reported

08-4663.00 RIO GRANDE AT LOS EBANOS, TEXAS NEAR CD. DIAZ ORDAZ, TAMAULIPAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	850	920	900	830	990	960	1,040	1,050	1,220	1,090	870	1,000
2	860	930	920	860	1,010	960	1,030	1,040	1,200	1,080	890	970
3	840	900	920	870	1,000	930	1,040	1,020	1,200	1,070	890	960
4	850	940	890	860	1,040	960	1,030	1,040	1,250	1,080	830	970
5	860	950	910	860	1,000	950	1,030	1,040	1,200	1,080	860	970
6	850	940	910	850	1,020	940	1,030	1,020	1,210	1,090	840	970
7	850	940	910	870	1,040	950	1,040	1,030	1,220	1,080	820	980
8	850	920	900	890	1,050	950	1,030	1,040	1,190	1,060	820	1,030
9	860	940	880	850	1,000	970	1,040	1,050	1,250	1,070	890	970
10	860	930	920	850	1,040	960	1,040	1,030	1,210	1,070	840	1,030
11	840	890	900	880	1,030	950	1,040	1,030	1,210	1,080	900	980
12	850	910	880	850	1,040	960	1,030	1,020	1,190	1,080	820	1,030
13	840	920	900	840	1,040	930	1,070	1,030	1,210	1,090	830	1,010
14	860	960	890	860	1,050	950	1,040	1,030	1,200	1,050	890	1,010
15	850	930	910	870	1,010	970	1,070	1,050	1,220	1,050	850	1,000
16	870	950	910	860	1,020	970	1,060	1,050	1,200	1,070	890	980
17	860	900	850	860	1,030	960	1,070	1,040	1,150	1,060	890	990
18	860	890	910	860	1,020	960	1,050	1,050	1,190	1,050	820	950
19	840	920	910	860	1,050	950	1,050	1,050	1,200	1,100	890	970
20	840	910	900	850	1,030	970	1,030	1,030	1,250	1,080	860	1,000
21	820	910	920	850	1,030	970	1,040	1,040	1,200	1,080	900	1,000
22	860	910	890	850	1,020	980	1,030	1,030	1,200	1,090	880	990
23	870	930	910	830	1,010	950	1,060	1,030	1,230	1,090	890	1,000
24	850	950	890	840	990	950	1,050	1,040	1,160	1,070	860	980
25	860	920	890	850	980	960	1,070	1,040	1,200	1,070	840	1,010
26	840	880	900	860	1,000	960	1,050	1,040	1,250	1,060	830	980
27	850	920	910	860	1,020	970	1,030	1,030	1,250	1,060	860	1,010
28	840	930	890	870	1,010	980	1,040	1,040	1,210	1,070	850	980
29	860		900	850	990	960	1,010	1,020	1,250	1,070	820	990
30	840		900	860	990	960	1,010	1,030	1,230	1,080	820	960
31	840		890		1,030		1,050	1,050		1,080		970

08-4675.00 RIO GRANDE AT PENITAS, TEXAS AND REYNOSA, TAMAULIPAS

LOCATION: At the H.C.W.C. & I. District No. 1 (Edinburg) pumping plant, river kilometer 300, 26.2 river kilometers upstream from Anzalduas Dam.
RECORDS : Specific conductance, 1963 through current year.
REMARKS : Sampling and determinations by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1		880	1,230		880				1,020	1,070		910
2	980					990		1,030	1,390			840
3		880	1,230	1,180	890		940				1,030	
4	840							1,010	1,030	1,390		770
5				910			940					830
6	830	900	1,160						960	1,300	1,020	
7				930		1,040	1,200	1,050				
8		900	1,250		890				1,010		1,010	860
9	830					1,080		1,060		1,060		
10			1,230	910	900		1,190		950		950	
11	820							1,060	900	1,280		810
12				890	920	1,040	1,070					
13	880	910	1,210						970	1,050	860	840
14				910		1,010	1,110	1,120				
15		920	1,150		890				950		910	870
16	880					1,030		1,090		1,010		
17		900	1,180	860	940		1,170				930	
18	890							1,070	770	910		890
19				880	990	970	1,150					
20	890	930	1,150				1,070		750	810	980	920
21				880		960	1,050	1,010				
22		910			1,090				1,110		980	860
23	900					960				1,070		
24		870	1,140	870	1,020		1,010				910	
25	890							1,010	1,120	1,070		860
26				850	1,080	960	1,010					
27	890	930	1,070						1,180		940	880
28				860		960	1,000	1,000				
29			1,110		950				1,060		960	870
30	890					960		1,040		1,090		
31			1,110		1,010		1,060					

QUALITY OF WATER - 2006

08-4678.00 MORILLO DRAIN NEAR ANZALDUAS DAM

LOCATION: At the Morillo Drain Project pumping plant located about 0.6 river kilometer from the confluence with the Rio Grande at the gaging station on the bypass canal 0.6 kilometer from the pumping plant. Morillo Drain enters the Rio Grande at river kilometer 288, 14.2 river kilometers upstream from Anzalduas Dam. This drain carries waste water from the lower Rio San Juan Irrigation District in Mexico and surface runoff during periods of heavy precipitation.
RECORDS: Chemical analyses, 1962 through current year; specific conductance, 1956 through current year.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section and chemical analyses by a contract laboratory. Determinations for specific conductance by International Boundary and Water Commission, U.S. Section.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Dissolved Oxygen mg/L	Total Organic Carbon mg/L	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Nov. 14	1105	1.0	7,180	7.8	24.4	5.78	5.3	86	18
Dec. 19	1215	1.0	6,260	7.8	22.1	4.43	6.0	68	12

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Calcium mg/L	Alkalinity mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Nov. 14	1,430	5,290	1,780	305	311	0.087	1.93	0.135	NR
Dec. 19	1,250	4,390	1,540	268	258	0.082	2.17	0.102	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/l	Oxygen Demand Biochemical mg/l
Nov. 14	111	1,340	9.5	48.8	1.42	<5
Dec. 19	99.2	1,150	8.3	42.1	1.34	<2

NR - None Reported

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

08-4678.00 MORILLO DRAIN NEAR ANZALDUAS DAM

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	3,300	5,630	5,770						6,090		6,390	
2	3,270	5,610	5,750		4,760	5,610			6,030	6,030		
3	3,360	5,780		3,420			6,080	5,970		6,340		
4	3,340			3,380			6,180	6,070	6,310			5,890
5	3,400						820			3,320		6,090
6	3,170		5,680			5,850	1,890			3,530	6,400	6,210
7		5,910	5,420	3,620				6,250				6,190
8			5,660			5,910	5,960	6,010	5,780		6,480	6,460
9	3,100	5,660	5,830			6,010		6,320		3,310		
10	3,210	5,370		3,320	4,490	6,030	2,200	6,180		4,130		
11	3,070				4,550		3,810		5,360	5,220		6,460
12				3,440		6,200	5,270	6,040		5,640		
13	3,560	5,790	5,280			5,890	5,490		4,210	5,590	6,170	6,100
14			5,140			5,940	5,740	6,240	3,710			
15		6,054			4,270	6,090		6,270			6,360	6,130
16	3,720	6,140			4,730	6,170				6,560		6,250
17	3,930	6,190	4,840	3,700	5,250		6,070	6,170		6,490	6,120	5,540
18	3,640		4,740	3,500	4,860		6,210	6,380		6,550		5,290
19					4,870	5,710	6,280			6,470		5,250
20	3,830	6,010	3,950	3,590		6,260	6,160		610	6,580		
21		5,950				6,180		6,340	580		5,990	
22		6,280	3,570			6,190		6,320	990		6,320	6,520
23	4,020				4,500	6,170		6,290		6,290	6,320	
24	4,790	5,960	3,650		4,500		6,050			6,400		
25	4,330						6,310	6,320		6,630		
26	4,490			3,390		6,110	6,230		1,060	6,610		3,250
27			3,170	3,470		6,010		6,410		6,360	6,430	
28		5,650	3,320	3,320		6,080			2,240		6,210	4,290
29					6,610	6,230	6,500	6,270			6,250	
30	4,940		3,450		5,650	6,290	6,120	6,300		6,620		
31	4,990		3,540		6,570			6,320		6,480		

QUALITY OF WATER - 2006

08-4692.00 RIO GRANDE BELOW ANZALDUAS DAM NEAR REYNOSA, TAMAULIPAS AND MISSION, TEXAS

LOCATION: At Anzalduas Dam, 0.8 river kilometer above the gaging station, located at river kilometer 273.
RECORDS: Chemical analyses, March 1959 through current year; specific conductance 1948 and 1956 through current year; suspended silt, May 1956 through 1977.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section and the Texas Commission on Environmental Quality; chemical analyses by a contract laboratory; determinations for specific conductance by the International Boundary and Water Commission, U.S. Section.

Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temperature Deg C	Oxygen Dissolved mg/L	Total Organic Carbon mg/L	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Jan. 30	1405	61.9	1,100	7.8	19.3	12.2	5.26	13	4
Mar. 22	1105	62.5	1,040	7.8	21.7	8.9	5.69	177	15
May 23	1140	56.4	1,400	7.8	28.1	7.8	4.13	5	1
Nov. 14	1500	8.58	1,480	7.9	26.4	5.3	4.63	13	5
Dec. 19	1250	23.8	1,140	8.1	19.7	5.8	6.22	2	<2
Dec. 20	1130	9.63	1,310	7.6	21.8	4.4	7.16	16	6

NR - None Reported

Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Jan. 30	138	669	213	135	78.3	0.088	0.27	0.029	NR
Mar. 22	NR	631	212	139	97.0	0.039	0.22	0.176	NR
May 23	196	900	298	147	99.8	0.095	0.58	0.054	NR
Nov. 14	227	971	279	160	106	0.32	1.56	0.526	NR
Dec. 19	157	731	228	128	82.0	0.027	0.115	0.060	NR
Dec. 20	191	814	248	149	95.5	0.353	0.925	0.397	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Hardness mg/L	E. Coli MPN/100 mL	Coliform Fecal CFU/100 mL	Oxygen Demand Biochemical mg/l
Jan. 30	22.6	117	5.78	13.3	NR	NR	NR	NR	NR
Mar. 22	25.2	112	6.63	NR	NR	NR	NR	NR	NR
May 23	29.3	175	6.05	15.1	NR	NR	NR	NR	NR
Nov. 14	30.1	179	7.57	17.4	0.61	608	29	NR	NR
Dec. 19	25.8	155	6.04	13.1	0.57	296	NR	NR	<2
Dec. 20	27.3	176	6.49	14.0	0.63	360	>2,400	280	<2

NR - None Reported

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

QUALITY OF WATER - 2006

08-4692.00 RIO GRANDE BELOW ANZALDUAS DAM NEAR REYNOSA, TAMAULIPAS AND MISSION, TEXAS

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1,100	940	1,020	1,010	1,090	NR	970	1,240	910	1,430	1,270	1,020
2	1,030	930	950	1,040	NR	1,100	980	1,080	1,020	1,560	1,280	860
3	1,040	960	1,020	1,000	960	1,120	1,050	1,070	1,030	920	1,210	730
4	970	900	950	1,030	940	1,130	1,040	1,060	1,040	1,540	1,160	820
5	890	970	1,020	1,020	1,010	1,170	1,240	990	1,070	1,540	1,150	820
6	850	950	1,070	990	1,020	1,190	980	1,030	900	1,590	1,070	770
7	870	1,000	1,020	970	830	1,240	1,030	1,040	980	1,830	1,080	790
8	830	940	950	960	990	1,210	NR	1,100	1,020	1,780	1,060	870
9	930	920	1,060	960	990	1,020	1,390	1,060	1,020	1,490	1,030	810
10	930	910	920	970	1,010	1,130	1,290	1,060	1,010	1,420	1,110	820
11	940	930	980	950	1,000	1,020	1,350	1,090	1,010	1,480	1,070	880
12	900	980	980	950	1,000	1,110	1,250	1,100	1,080	1,400	1,060	820
13	930	970	1,000	980	1,050	1,140	1,130	1,070	1,040	1,370	1,060	810
14	1,030	1,010	1,050	970	1,090	1,060	1,040	1,110	1,090	1,380	1,020	780
15	950	980	1,030	990	1,120	1,080	1,070	1,180	1,080	1,380	970	790
16	990	940	1,020	930	1,070	1,000	1,140	1,220	1,060	1,200	950	770
17	930	940	1,050	930	1,090	1,040	1,200	1,160	1,080	1,060	910	900
18	1,030	920	1,030	940	1,120	1,000	1,260	1,110	970	1,080	950	830
19	1,000	900	1,030	920	1,210	930	1,330	1,100	870	1,070	1,010	880
20	1,020	880	1,030	930	1,360	1,030	1,280	1,090	840	1,080	1,000	910
21	940	860	990	930	1,410	990	1,190	960	660	1,020	NR	1,000
22	930	900	1,010	940	1,440	960	1,180	1,140	770	1,040	1,010	930
23	990	930	980	910	1,370	990	1,120	990	720	NR	1,000	910
24	1,020	950	1,010	900	1,300	1,010	1,150	1,060	850	940	1,050	1,010
25	960	910	960	910	1,210	990	1,190	1,020	1,330	890	1,030	1,050
26	960	940	990	910	1,210	950	NR	1,010	980	950	1,020	1,000
27	980	1,030	1,000	930	1,190	1,010	1,060	1,030	1,060	1,080	1,000	1,160
28	960	990	1,020	900	1,200	970	1,080	1,030	1,210	1,140	1,010	1,200
29	990		1,030	920	1,230	940	1,130	1,080	1,320	1,150	1,000	1,140
30	940		1,040	930	1,070	950	1,060	1,000	1,310	1,170	1,010	1,100
31	950		1,030		1,010		1,090	1,020		1,270		1,170

NR - None Reported

QUALITY OF WATER - 2006

RIO GRANDE AT INTERNATIONAL BRIDGE AT US 281 AT HIDALGO, TEXAS

LOCATION: Station located at the International Bridge on US 281 in Hidalgo (Latitude 26.1 and Longitude -98.3).
RECORDS: Chemical analyses, 1995 through current year.
REMARKS: Sampling by the International Boundary and Water Commission, U.S. Section.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	E. Coli MPN/100 mL	Fecal Coliform CFU/100 mL	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Feb. 27	1005	47.1	1,180	8.0	18.2	73	NR	22	2
Mar. 22	1150	59.5	1,045	7.8	21.4	NR	NR	95	11
May 23	1225	53.5	1,480	7.8	28.2	172	NR	54	3
Sep. 27	1353	38.3	1,085	7.7	26.5	33	400	NR	NR
Nov. 14	1205	26.6	1,110	8.1	24.6	816	NR	21	9
Dec. 19	1410	22.0	1,130	8.0	19.9	NR	NR	8	<2

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Feb. 27	136	719	224	134	88.0	0.038	0.31	<0.02	NR
Mar. 22	124	634	216	137	88.0	0.027	0.28	0.087	NR
May 23	206	942	311	151	108	0.088	0.59	0.075	NR
Sep. 27	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 14	158	732	218	127	79.2	0.063	<0.04	0.081	NR
Dec. 19	158	706	232	130	78.7	0.028	0.14	0.060	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Silica mg/L	Fluoride mg/L	Total Organic Carbon mg/L	Total Hardness mg/l	Oxygen Dissolved mg/l	Oxygen Demand Biochemical mg/l
Feb. 27	26.0	143	6.10	12.5	NR	4.55	NR	8.8	NR
Mar. 22	24.9	113	6.31	11.1	NR	5.28	NR	8.2	NR
May 23	30.6	188	6.40	15.2	NR	3.98	NR	7.4	NR
Sept. 27	NR	NR	NR	NR	NR	NR	NR	6.6	NR
Nov. 14	23.8	134	6.30	12.6	0.54	4.88	255	7.2	<5
Dec. 19	25.0	149	5.82	12.4	0.58	5.33	292	5.6	<2

NR - None Reported

08-4733.90 RIO GRANDE AT MERCEDES IRRIGATION DISTRICT PUMPS NEAR MERCEDES, TEXAS AND RIO RICO, TAMAULIPAS

LOCATION: At river kilometer 190, 84.6 river kilometers downstream from Anzalduas Dam.
RECORDS: Specific conductance, 1945 through current year.
REMARKS: Sampling and determinations by the International Boundary and Water Commission, U.S. Section.

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM @ 25 DEG C - 2006

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1,070	1,000	1,120	1,220	1,020	1,100	1,010	1,150	1,110	1,280	1,120	1,060
2	1,070	1,010	1,030	1,280	1,030	1,130	1,020	1,150	1,120	1,330	1,170	1,040
3	1,080	1,010	1,040	1,310	990	1,190	990	1,200	1,150	1,450	1,300	1,030
4	1,050	980	1,040	1,320	990	1,200	1,060	1,190	1,130	1,560	1,260	1,090
5	1,100	1,000	1,030	1,300	1,010	1,250	1,070	1,140	1,140	1,340	1,310	1,010
6	1,050	990	1,060	1,270	980	1,230	1,100	1,130	1,120	1,690	1,230	1,020
7	1,020	940	1,050	1,260	1,000	1,240	1,190	1,080	1,150	1,690	1,220	1,050
8	950	990	1,090	1,260	1,020	1,290	1,060	1,070	1,140	1,840	1,040	1,010
9	920	1,030	1,050	1,220	1,010	1,330	1,060	1,130	1,110	1,920	1,020	950
10	930	990	1,040	1,130	1,030	1,360	1,270	1,200	1,120	1,850	1,030	1,040
11	960	980	1,020	1,100	1,020	1,170	1,450	1,210	1,130	1,750	1,060	970
12	1,000	980	1,000	1,130	1,060	1,200	1,400	1,240	1,060	1,570	1,060	1,010
13	980	1,000	1,010	1,060	1,050	1,120	1,430	1,180	1,100	1,610	1,050	1,020
14	960	1,010	1,020	1,130	1,090	1,220	1,380	1,240	1,130	1,660	1,010	1,040
15	1,070	1,000	1,050	1,170	1,080	1,270	1,390	1,180	1,140	1,580	1,040	1,020
16	1,080	1,040	1,040	1,150	1,130	1,110	1,330	1,200	1,210	1,590	970	970
17	1,050	1,030	1,070	1,100	1,120	1,130	1,260	1,210	1,230	1,350	1,060	1,020
18	1,070	980	1,060	1,110	1,130	1,090	1,200	1,350	1,150	1,380	990	1,040
19	1,050	940	1,060	1,040	1,160	1,070	1,270	1,240	1,070	1,310	950	1,050
20	1,060	960	1,060	1,090	1,220	1,090	1,340	1,220	930	1,400	900	1,010
21	1,070	930	1,020	1,120	1,250	1,060	1,370	1,140	860	1,370	900	1,070
22	1,070	960	1,030	1,070	1,390	1,100	1,360	1,140	960	1,340	930	1,050
23	1,000	950	1,010	1,090	1,500	1,060	1,340	1,100	750	1,370	960	1,120
24	990	960	960	1,040	1,440	1,010	1,220	1,140	840	1,320	1,040	1,110
25	1,010	1,010	1,060	1,090	1,480	1,010	1,160	1,040	810	1,380	1,050	1,090
26	1,030	1,000	1,030	1,010	1,430	1,030	1,160	1,110	1,000	1,380	990	1,100
27	1,020	950	1,000	1,070	1,260	1,040	1,170	1,100	1,020	1,290	1,010	1,120
28	1,010	970	970	1,050	1,290	1,050	1,110	1,070	970	1,200	1,030	1,130
29	1,040		1,010	1,110	1,240	1,040	1,100	1,080	1,060	1,240	1,020	1,230
30	1,010		1,040	1,130	1,280	990	1,140	1,070	1,210	1,420	980	1,440
31	1,030		1,020		1,190		1,220	1,050		1,310		1,280

QUALITY OF WATER - 2006

08-4750.00 RIO GRANDE NEAR BROWNSVILLE, TEXAS AND MATAMOROS, TAMAULIPAS

LOCATION: Gaging station at river kilometer 78.3, 0.3 river kilometer downstream from El Jardin pumping plant and 11.2 river kilometers downstream from the international highway bridge between Brownsville, Texas and Matamoros, Tamaulipas.
RECORDS: Chemical and biochemical analyses, October 1967 through January 1968 and October 1974 through current year; biochemical, December 1976 through current year; specific conductance, 1955 through September 1983; suspended silt, 1955 through 1977.
REMARKS: Sampling by International Boundary and Water Commission, U.S. Section. Sampling and determinations for specific conductance prior to 1978 by the International Boundary and Water Commission, U.S. Section. Analyses by a contract laboratory.

2006 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	E. Coli (MPN/100mL)	Fecal Coliform (CFU/100 mL)	Total Suspended Solids mg/L	Volatile Suspended Solids mg/L
Feb. 27	1315	6.07	1,130	7.7	20.5	2,420	NR	20	3
Mar. 22	1430	3.82	1,200	8.3	23.8	NR	NR	30	7
May 23	1445	18.9	1,220	8.0	29.4	61	NR	27	3
Sept. 27	1315	70.4	815	7.5	28.9	222	780	NR	NR
Nov. 14	1500	8.58	1,480	7.9	26.4	29	NR	13	5
Dec. 20	1130	NR	1,310	7.6	21.8	>2,420	275	16	6

NR - None Reported

2006 Date	Chloride mg/L	Dissolved Solids Total mg/L	Sulfate mg/L	Alkalinity mg/L	Calcium mg/L	Ammonia as Nitrogen mg/L	Nitrite + Nitrate mg/L	Total Phosphorus mg/L	Ortho-Phosphorus mg/L
Feb. 27	138	679	209	146	88.3	0.40	0.65	0.108	NR
Mar. 22	149	851	252	132	94.2	0.030	0.48	0.202	NR
May 23	160	796	236	144	90.1	0.075	0.46	0.120	NR
Sept. 27	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nov. 14	227	971	279	160	106	0.32	1.56	0.526	NR
Dec. 20	191	814	248	149	95.5	0.35	0.93	0.397	NR

NR - None Reported

2006 Date	Magnesium mg/L	Sodium mg/L	Potassium mg/L	Total Organic Carbon mg/L	Silica mg/L	Fluoride mg/L	Total Hardness mg/l	Oxygen Dissolved mg/l	Oxygen Demand Biochemical mg/l
Feb. 27	24.8	128	6.05	4.85	13.8	NR	NR	6.56	NR
Mar. 22	28.6	137	6.95	5.96	9.5	NR	NR	7.35	NR
May 23	25.0	139	6.01	4.04	13.6	NR	NR	7.29	NR
Sept. 27	NR	NR	NR	NR	NR	NR	NR	5.27	NR
Nov. 14	30.1	179	7.57	4.63	17.4	0.61	608	5.30	<5
Dec. 20	27.3	176	6.49	7.20	14.0	0.63	360	4.40	<2

NR - None Reported

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

RAINFALL ON THE RIO GRANDE WATERSHED

IN THE UNITED STATES

IN MILLIMETERS

Tabulated below, in approximate downstream order, are monthly records of United States rainfall stations with averages for their periods of record. With the exception of Las Cruces, New Mexico, all stations are located in Texas. For location, elevation, period of record, type of gage in use, watershed subdivision in which the station is located, and the observer, see alphabetical listing of these stations following rainfall data in this bulletin. These rainfall records have not been published elsewhere. Records of daily rainfall amounts, where available, are on file in the office of the United States Section of the Commission. Daily records for years prior to 1953 may also be found in corresponding water bulletins.

Detailed listings of the months and years for which records are available through 1970 may be found under "Index to Precipitation Records" in Water Bulletins 10, 14, 26, and Supplement 40A.

	Las Cruces, New Mexico		American Dam		Fort Hancock Bridge		Guayuco Arroyo		Bill Shannon Ranch	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	1	14	1	10	0	9	0	7	1	10
Feb.	0	13	6	10	5	9	0	6	0	9
Mar.	0	5	0	8	0	6	0	5	0	7
April	2	6	1	5	0	7	0	5	0	6
May	0	10	0	8	0	11	0	10	0	16
June	7	18	2	15	8	21	0	14	3	39
July	24	27	76	35	83	34	9	35	47	50
Aug.	131	57	189	42	68	40	28	40	127	59
Sept.	150	35	130	30	3	32	18	28	33	52
Oct.	52	26	30	19	31	24	30	22	33	31
Nov.	6	13	0	9	0	11	T	7	0	11
Dec.	1	19	2	13	T	11	0	10	18	10
Yearly	374	243	437	204	198	215	85	189	262	300

	Adobes Ranch		H. T. Fletcher Ranch		Shafter		Presidio (IB&WC Gage)		Redford	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	8	0	16	0	7	1	8	1	8
Feb.	0	6	0	11	0	12	0	8	0	6
Mar.	0	4	0	8	0	7	0	6	0	4
April	0	4	0	13	0	15	0	6	10	7
May	1	14	10	26	0	23	1	14	3	14
June	20	30	40	49	17	53	4	31	15	25
July	43	46	148	78	20	61	35	40	38	39
Aug.	64	43	191	82	92	57	38	36	49	35
Sept.	5	45	15	60	22	61	9	34	0	40
Oct.	47	18	61	35	63	35	26	21	26	21
Nov.	0	6	0	14	0	11	0	8	0	9
Dec.	23	7	18	13	17	9	20	9	23	7
Yearly	203	231	483	405	231	351	134	221	165	215

	Study Butte		Terlingua Creek Station		Johnson Ranch		Owens Ranch		Lewis James Ranch	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	8	0	8	1	8	5	15	0	12
Feb.	0	8	0	5	0	5	8	21	10	17
Mar.	0	6	0	3	0	3	36	25	13	12
April	9	9	10	8	1	9	0	40	8	27
May	9	24	1	17	0	21	24	52	6	37
June	13	27	14	26	42	28	51	48	45	40
July	45	48	0	35	0	30	0	33	46	32
Aug.	118	43	72	32	113	25	25	52	15	47
Sept.	19	30	7	30	28	33	15	55	26	64
Oct.	21	28	9	22	15	21	76	57	23	42
Nov.	0	9	0	6	0	6	0	27	0	19
Dec.	0	5	52	7	33	7	51	16	19	12
Yearly	234	245	165	199	233	196	291	441	211	361

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RAINFALL ON THE RIO GRANDE WATERSHED

IN THE UNITED STATES

IN MILLIMETERS

	Rio Grande near Dryden		Ross Foster Ranch		Pecos River near Langtry Station		Prosser Ranch No. 3		Devils River at Cauthorn Ranch	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	1	12	0	8	5	9	8	12	4	12
Feb.	1	12	0	11	0	18	0	24	0	21
Mar.	1	8	0	9	3	20	5	23	27	28
April	0	15	0	15	9	22	76	35	6	26
May	2	24	0	28	0	36	20	54	27	52
June	1	30	0	32	0	44	18	49	22	56
July	17	23	0	17	0	42	0	41	5	28
Aug.	15	40	3	30	3	33	20	47	80	41
Sept.	17	44	18	33	53	50	28	64	49	51
Oct.	6	27	0	28	8	48	28	57	54	57
Nov.	0	14	0	16	0	23	0	27	0	25
Dec.	6	9	15	10	7	12	8	14	13	14
Yearly	67	258	36	237	88	357	211	447	287	411

	Prosser Ranch No. 1		Dead Man's Canyon near Comstock		Prosser Ranch No. 2		Walker Ranch		Harlow Ranch	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	5	11	8	11	0	10	5	11	8	10
Feb.	0	19	0	18	0	21	0	19	0	20
Mar.	6	18	0	17	25	17	0	20	0	16
April	0	25	3	26	42	27	0	25	0	26
May	0	49	4	46	0	49	0	52	5	44
June	0	38	0	43	0	43	0	47	2	44
July	5	43	0	45	5	37	0	35	0	32
Aug.	53	39	51	39	79	47	19	29	27	33
Sept.	83	56	13	48	33	57	38	54	67	50
Oct.	3	43	13	48	13	45	0	42	0	46
Nov.	0	22	0	22	0	20	0	20	0	22
Dec.	8	10	18	12	10	11	13	11	10	11
Yearly	163	373	110	375	207	384	75	365	119	354

	Ed Crane Ranch		H. K. Fawcett Ranch		Brotherton Ranch		A. A. Baker Ranch		Zuberbueler Ranch	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	22	20	18	15	9	15	12	12	13	15
Feb.	1	27	1	21	1	24	0	21	0	27
Mar.	0	24	1	23	4	21	4	20	9	26
April	8	36	10	37	3	22	6	30	8	24
May	10	65	30	61	13	45	5	48	14	55
June	19	47	24	36	20	46	1	42	0	45
July	11	45	14	45	16	37	2	43	1	49
Aug.	27	38	35	57	18	40	19	43	59	36
Sept.	53	61	57	69	56	60	46	65	45	58
Oct.	23	57	24	59	18	48	4	50	6	48
Nov.	0	29	1	27	0	19	0	21	0	24
Dec.	23	19	14	15	14	11	8	13	13	16
Yearly	197	468	229	465	172	388	107	408	168	423

	Comstock		Martin King Ranch		Goldwire Ranch		H. T. Miers Ranch Headquarters		H. T. Miers Ranch No. 2	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	7	14	8	13	0	14	8	14	23	13
Feb.	0	21	0	19	0	19	0	25	1	21
Mar.	12	19	3	18	5	26	13	26	9	30
April	9	32	0	22	8	38	25	41	19	34
May	18	47	7	43	10	58	25	59	23	64
June	9	47	0	42	5	54	5	62	12	56
July	1	38	0	35	3	49	27	46	17	44
Aug.	27	45	16	39	41	62	71	56	74	57
Sept.	52	56	58	59	89	54	119	59	121	66
Oct.	11	48	12	52	22	56	38	65	28	57
Nov.	0	19	0	17	0	31	0	26	0	26
Dec.	19	15	11	13	28	16	18	17	23	18
Yearly	165	401	115	372	211	477	349	496	350	486

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RAINFALL ON THE RIO GRANDE WATERSHED

IN THE UNITED STATES

IN MILLIMETERS

	Gillis Ranch Headquarters		Pafford Crossing		Tuffy Whitehead Ranch		Hutto Ranch No. 2		Lowry Ranch No. 2	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	13	18	4	13	6	10	7	14	12	13
Feb.	0	26	0	19	0	20	0	23	0	19
Mar.	6	29	5	20	24	24	0	22	0	23
April	28	41	8	31	15	31	20	41	16	33
May	57	68	0	45	36	44	40	52	55	53
June	0	62	3	51	0	44	6	55	6	57
July	5	60	20	47	1	41	9	50	1	47
Aug.	80	68	14	54	30	40	32	54	23	57
Sept.	101	57	60	62	116	63	92	74	76	61
Oct.	44	63	11	56	14	45	27	55	29	48
Nov.	0	39	0	26	0	22	0	25	0	25
Dec.	21	20	21	16	26	12	10	14	14	15
Yearly	355	551	146	440	268	396	243	479	232	451

	Amistad Reservoir near Comstock		Evans Creek near Comstock		Sellers Ranch		J. G. Brite Ranch		Devils Lake	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	5	10	1	9	13	11	10	11	9	15
Feb.	0	17	0	17	0	19	0	18	0	20
Mar.	2	17	5	15	18	20	3	22	6	21
April	6	27	0	20	11	28	12	31	17	37
May	37	38	23	34	40	45	36	50	36	53
June	16	38	0	32	0	58	4	52	4	57
July	1	29	0	38	0	37	0	40	1	36
Aug.	10	34	23	38	8	42	14	45	31	45
Sept.	56	45	60	49	41	56	47	67	52	59
Oct.	9	45	13	42	25	51	29	50	30	50
Nov.	1	18	0	20	0	24	0	21	0	22
Dec.	11	10	5	12	10	14	8	14	14	18
Yearly	154	328	130	326	166	405	163	421	200	433

	Big Satan Creek Station		Rough Canyon near Del Rio		Stewart Ranch		Gillis Ranch		Buoy No. 11	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	10	14	8	13	3	12	8	12	2	12
Feb.	0	21	0	21	0	20	0	22	0	18
Mar.	18	29	3	27	0	21	17	30	0	20
April	10	33	23	27	16	34	10	35	5	30
May	3	50	29	61	37	52	22	59	29	50
June	3	53	0	55	0	53	9	52	15	44
July	1	50	0	44	19	48	8	51	0	36
Aug.	28	63	3	55	22	45	25	45	12	41
Sept.	69	53	43	65	90	65	92	70	68	50
Oct.	23	59	30	62	26	53	16	48	23	47
Nov.	0	28	0	38	0	25	0	31	1	19
Dec.	21	18	11	18	1	14	17	17	13	11
Yearly	186	471	150	486	214	442	224	472	168	378

	North Fork San Pedro		Amistad Dam		Long Ranch		Middle Fork San Pedro		Cliff Lowry Ranch No. 1	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	5	13	7	14	6	14	3	12	9	13
Feb.	0	20	5	21	1	26	0	19	1	23
Mar.	0	24	15	24	0	24	0	22	10	27
April	18	33	24	35	17	34	12	29	19	37
May	32	56	40	56	41	57	0	51	57	64
June	0	59	31	52	6	53	0	49	5	59
July	8	57	2	45	3	50	3	45	21	48
Aug.	10	54	17	49	37	42	27	46	44	52
Sept.	118	64	72	81	14	58	84	57	115	74
Oct.	17	58	39	49	21	53	29	58	18	56
Nov.	0	29	0	25	0	23	0	26	0	27
Dec.	9	17	15	16	11	16	9	16	15	16
Yearly	217	484	267	467	157	450	167	430	314	496

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	Hutto Ranch No. 1		Lewis Ranch		Laughlin Air Force Base		Wardlaw Standart Ranch		Maverick County Canal Headgate	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	13	13	0	15	7	15	1	19	0	13
Feb.	0	20	0	27	5	25	0	28	0	25
Mar.	0	21	0	27	8	21	1	34	0	20
April	19	39	20	42	24	48	10	39	38	38
May	46	54	52	61	40	57	20	57	25	57
June	18	59	16	68	3	67	2	77	0	58
July	6	54	63	44	30	58	24	43	0	39
Aug.	27	53	61	62	61	49	50	53	0	36
Sept.	70	67	71	66	72	61	63	55	172	67
Oct.	21	57	28	70	12	63	30	69	0	59
Nov.	0	24	0	32	0	27	0	34	0	26
Dec.	9	14	23	19	11	16	19	21	0	17
Yearly	229	475	334	533	273	507	220	529	235	455

	Pinto Creek Station		Las Moras Creek		Eagle Pass		Trees Farm		El Indio	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	14	0	19	2	20	3	16	3	20
Feb.	0	20	0	24	2	24	2	22	5	24
Mar.	0	24	10	20	1	22	0	16	3	20
April	33	40	31	36	21	42	22	44	10	46
May	18	59	13	52	55	77	40	67	77	76
June	5	61	4	65	18	72	18	61	5	59
July	0	42	0	38	17	51	11	39	18	36
Aug.	8	48	10	47	28	52	20	39	51	46
Sept.	118	67	65	82	45	78	76	67	191	77
Oct.	3	63	0	66	14	60	9	58	11	58
Nov.	3	29	0	26	3	26	1	22	0	22
Dec.	0	15	13	18	18	19	16	17	29	18
Yearly	188	482	146	493	224	543	218	468	403	502

	Van Dalsem Farm		Keisling Farm		Apache Ranch		Laredo Water Plant		Corralitos Ranch	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	3	17	3	19	6	20	0	21	0	21
Feb.	3	23	4	24	11	21	0	22	0	26
Mar.	5	16	0	18	10	16	11	17	0	19
April	0	47	0	42	58	47	51	34	40	30
May	56	70	60	66	63	61	69	59	72	58
June	0	56	0	64	53	54	48	53	53	55
July	0	36	0	35	34	47	32	32	33	41
Aug.	13	44	22	42	3	45	2	47	5	53
Sept.	102	77	99	68	39	73	124	75	216	83
Oct.	9	59	16	54	16	63	21	45	31	55
Nov.	0	25	0	22	0	27	0	21	0	27
Dec.	10	18	3	20	61	22	100	25	51	19
Yearly	201	488	207	474	354	496	458	451	501	487

	Huisache Ranch		Zapata		Falcon Dam		Roma (Int'l. Bridge)		Garciasville	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	21	0	23	0	22	0	22	0	22
Feb.	0	26	0	25	4	24	0	25	2	26
Mar.	0	20	0	18	11	17	17	16	14	15
April	41	32	38	37	62	33	46	34	54	30
May	76	58	66	64	27	59	29	49	28	64
June	58	58	55	57	7	60	48	56	29	70
July	35	42	52	41	17	34	18	35	31	34
Aug.	5	44	3	48	5	55	32	48	25	42
Sept.	203	98	234	104	183	107	169	107	176	89
Oct.	30	56	30	50	81	52	60	51	89	49
Nov.	0	26	0	28	0	30	0	25	0	27
Dec.	61	21	91	24	102	21	98	16	56	20
Yearly	509	502	569	519	499	514	517	484	504	488

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	Los Ebanos		Penitas (Edinburg Pumping Plant)		HCWCID #6 Goodwin Pump No. 3		HCWCID #6 Goodwin Pump No. 4B		United Irrigation District	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	2	22	0	29	0	29	0	28	0	27
Feb.	1	22	2	25	0	28	0	25	0	25
Mar.	10	15	0	18	25	23	13	18	0	25
April	3	29	4	30	0	37	0	30	0	33
May	10	47	3	56	0	58	0	53	25	70
June	4	56	22	67	83	66	64	65	0	64
July	31	33	73	42	133	48	140	37	76	38
Aug.	0	36	3	51	0	48	0	44	3	45
Sept.	103	75	221	85	400	97	203	89	328	85
Oct.	15	53	80	62	32	71	0	67	38	64
Nov.	1	22	0	22	0	26	0	25	0	21
Dec.	44	22	95	25	140	30	76	27	81	24
Yearly	224	432	503	512	813	561	496	508	551	521

	Edinburg City Water Plant		Anzalduas Dam		Mercedes (IBWC) LRGFCP Office		Mercedes Pump		La Feria Pumping Plant	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	4	34	0	26	1	14	4	31	0	39
Feb.	4	30	4	31	9	17	7	18	0	39
Mar.	10	24	14	26	20	40	20	41	27	32
April	2	37	3	39	2	26	2	34	0	47
May	53	56	9	55	29	47	41	72	51	69
June	57	62	24	58	33	53	19	72	25	74
July	131	40	110	42	32	33	28	46	33	50
Aug.	26	56	6	50	4	41	12	53	0	73
Sept.	289	99	284	104	344	139	239	110	208	152
Oct.	107	59	43	60	56	71	46	65	54	95
Nov.	2	26	1	24	1	33	7	30	0	48
Dec.	57	31	80	22	74	26	64	41	91	38
Yearly	742	554	578	537	605	540	489	613	489	756

	La Feria Materials Yard		San Benito Pump		Brownsville Irrig. and Drainage Dist.					
Month	2006	Average	2006	Average	2006	Average				
Jan.	6	38	0	33	0	21				
Feb.	1	44	0	27	0	22				
Mar.	50	31	25	24	0	31				
April	1	43	0	37	0	27				
May	80	65	25	66	132	50				
June	15	83	30	62	28	70				
July	59	53	56	39	71	17				
Aug.	56	65	0	59	43	74				
Sept.	124	129	224	111	79	94				
Oct.	88	81	0	74	140	97				
Nov.	9	38	15	33	0	45				
Dec.	85	40	91	33	22	22				
Yearly	574	710	466	598	515	570				

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Tabulated below, in approximate downstream order, are monthly records of Mexican rainfall stations with averages for their periods of record. For location, elevation, period of record, type of gage in use, watershed subdivision in which the station is located, and the observer, see alphabetical listing of these stations following rainfall data. These rainfall records have not been published elsewhere. Records of daily rainfall amounts, where available, are on file in the offices of the Mexican Section of the Commission.

Detailed listings of the months and years for which records are available through 1970 may be found under "Index to Precipitation Records" in Water Bulletins 10, 14, 26, and Supplement 40A.

	Cd. Juarez, Chihuahua		Escalon, Chihuahua		Jimenez, Chihuahua		Bachiniva, Chihuahua		La Boquilla, Chihuahua	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	10	5	10	4	8	1	13	1	7
Feb.	17	11	0	5	0	4	0	6	0	5
Mar.	0	8	0	4	9	4	29	8	0	3
April	2	7	2	11	6	5	0	6	3	6
May	0	8	23	19	16	14	4	7	20	14
June	10	18	12	44	73	40	27	38	24	35
July	125	41	34	61	34	76	115	129	65	70
Aug.	166	44	101	73	135	67	161	118	150	72
Sept.	112	35	3	69	150	57	85	68	114	69
Oct.	26	25	27	28	35	25	41	29	26	21
Nov.	0	12	0	8	0	7	0	8	0	8
Dec.	2	15		9	22	6	22	12	47	8
Yearly	460	234		341	484	313	485	442	450	318

	Camargo, Chihuahua		Las Virgenes, Chihuahua		Delicias, Chihuahua		La Trasquila, Chihuahua		Presa Luis L. Leon, Chihuahua	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	1	9	0	7	0	9	1	10	0	7
Feb.	0	7	0	4	0	4	5	8	2	5
Mar.	0	5	0	3	0	3	1	4	0	5
April	6	6	0	6	0	8	0	6	0	7
May	21	13	1	9	0	10	9	8	3	14
June	42	37	12	30	7	32	40	29	11	32
July	54	73	43	67	88	62	118	82	63	61
Aug.	124	67	163	66	280	66	120	70	61	70
Sept.	137	65	96	56	66	55	60	70	62	47
Oct.	37	26	15	22	14	22	21	24	19	25
Nov.	0	10	0	8	0	8	1	9	0	11
Dec.	38	10	31	9	38	9	3	10	47	10
Yearly	460	328	361	287	493	288	379	330	268	294

	Ojinaga (IB&WC), Chihuahua		Ojinaga (M.S. of Mexico), Chihuahua		La Chuparrosa, Coahuila		La Amistad, Coahuila		Presa Centenario, Coahuila	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	1	9	0	8	4	8	8	16	63	16
Feb.	0	8	10	7	0	14	1	23	2	22
Mar.	0	5	0	5	0	15	1	30	1	27
April	0	8	0	8	6	26	22	33	3	41
May	6	14	10	15	25	34	54	57	4	63
June	24	32	25	30	14	34	38	51	0	68
July	49	39	55	39	5	32	0	43	0	43
Aug.	17	39	53	38	38	39	40	35	48	56
Sept.	11	38	20	38	35	48	100	64	73	74
Oct.	38	24	53	26	12	40	32	56	10	61
Nov.	0	11	0	10	1	17	0	28	0	22
Dec.	20	8	23	10	11	9	13	17	3	14
Yearly	166	235	249	234	151	316	309	453	207	507

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	Cd. Acuna, Coahuila		Presa Cabeceras, Coahuila		Presa San Miguel, Coahuila		Palestina, Coahuila		Emiliano Zapata, Coahuila	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	3	14	2	12	1	15	0	19	0	21
Feb.	1	23	0	18	0	23	0	25	0	28
Mar.	5	24	2	23	0	26	0	23	0	38
April	16	44	10	45	14	40	25	45	7	44
May	59	60	16	59	6	65	15	66	19	71
June	12	56	10	70	107	82	80	65	44	95
July	1	43	0	60	3	58	0	52	0	49
Aug.	39	45	83	75	49	72	101	57	37	59
Sept.	61	76	133	101	52	88	105	79	47	60
Oct.	13	65	9	71	11	64	0	61	14	62
Nov.	0	23	2	29	1	31	0	24	4	43
Dec.	12	15	5	13	18	15	10	18	21	18
Yearly	222	488	272	576	262	579	336	534	193	588

	Jimenez, Coahuila		Piedras Negras, Coahuila		Villa Hidalgo, Coahuila		Nuevo Laredo (Sur), Tamaulipas		Sabinas, Coahuila	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	2	17	1	19	0	20	1	19	0	14
Feb.	1	23	2	22	7	21	6	22	1	17
Mar.	11	24	1	21	22	21	8	20	2	15
April	12	45	34	50	0	44	5	34	30	34
May	16	59	89	85	21	70	86	78	26	68
June	21	67	22	68	29	58	20	47	9	53
July	12	43	21	53	15	31	9	39	34	46
Aug.	33	48	22	54	16	50	7	37	38	56
Sept.	103	71	56	78	134	77	306	81	116	80
Oct.	23	68	0	63	32	53	23	67	13	46
Nov.	0	31	0	24	0	25	0	31	7	16
Dec.	16	17	17	18	65	19	88	24	66	12
Yearly	250	513	265	555	341	489	559	499	342	457

	Presa Carranza, Coahuila		Progreso, Coahuila		Ocampo, Coahuila		Monclova, Coahuila		Anahuac, Nuevo Leon	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	17	0	12	5	12	4	11	T	19
Feb.	34	16	1	17	0	7	1	13	10	19
Mar.	8	15	1	12	11	7	3	8	4	14
April	26	30	16	29	16	17	7	14	0	31
May	0	50	0	47	14	32	6	36	0	61
June	8	47	0	51	13	41	31	36	0	54
July	7	27	18	33	6	39	9	44	0	37
Aug.	1	46	4	45	72	41	39	57	31	60
Sept.	108	78	105	72	28	44	79	79	237	83
Oct.	1	43	15	48	47	27	6	32	37	48
Nov.	0	16	1	17	0	11	3	15	T	20
Dec.	65	15	63	13	59	13	50	15		19
Yearly	258	400	224	396	271	291	238	360		465

	Candela, Coahuila		Espinazo, Nuevo Leon		Garza Ayala, Nuevo Leon		Nueva Cd. Guerrero, Tamaulipas		Cd. Mier, Tamaulipas	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	3	15	5	23	0	20	10	23	14	28
Feb.	1	11	0	11	10	16	12	25	16	29
Mar.	1	7	0	7	3	18	14	15	11	15
April	35	27	0	24	0	34	10	36	35	36
May	19	36		44	45	51	31	61	23	64
June	2	49	29	31	0	56	60	58	11	62
July	19	57	105	44	46	78	0	37	0	35
Aug.	17	54	19	34	28	60	0	47	14	59
Sept.	138	73	13	50	218	108	194	104	180	109
Oct.	16	35	17	28	126	62	65	49	151	57
Nov.	3	18		13	35	31	0	31	0	31
Dec.	58	12		11	113	26	65	20	110	23
Yearly	312	394		320	624	560	461	506	565	548

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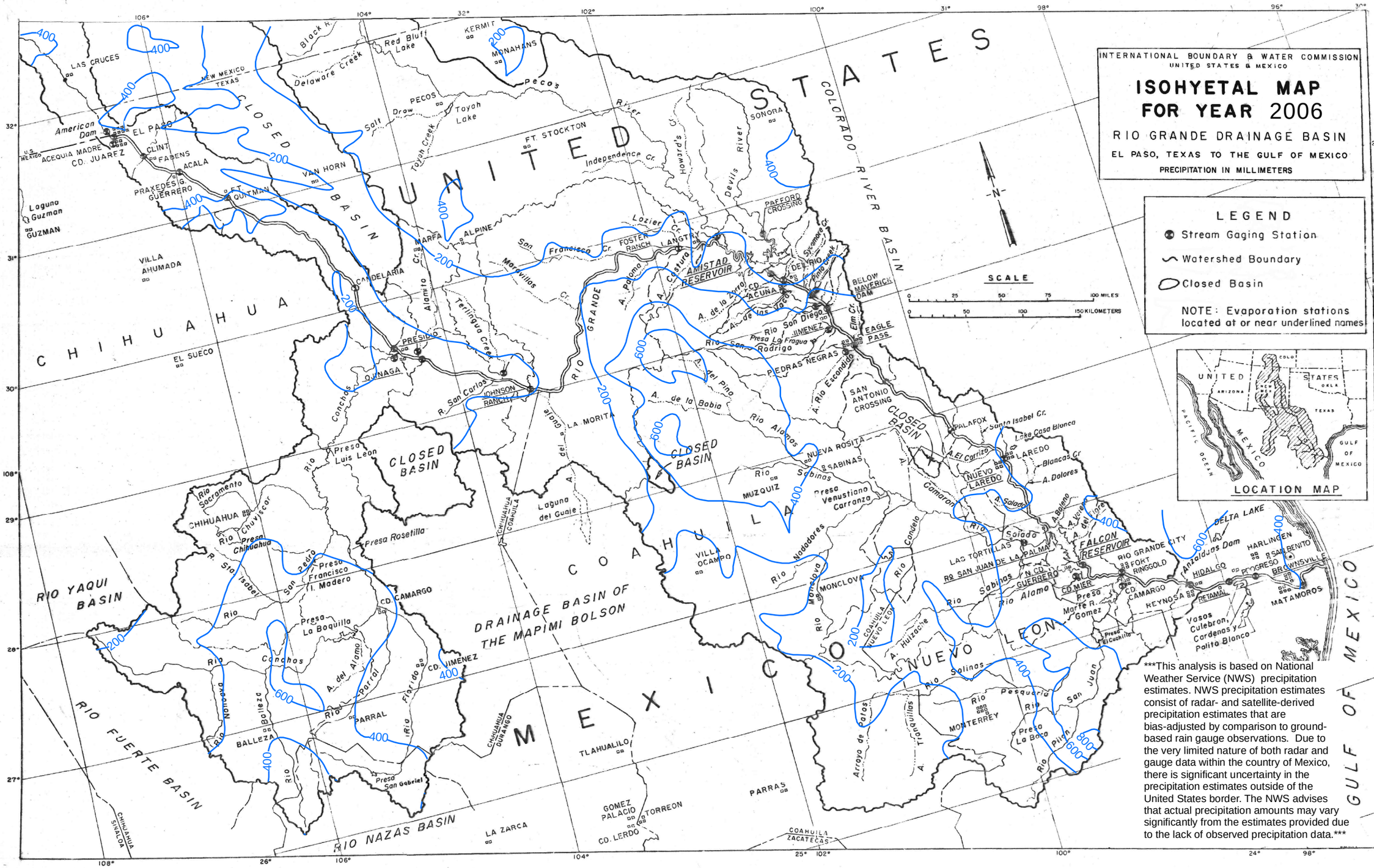
	San Juan de Vaqueria, Coahuila		General Cepeda, Coahuila		Saltillo, Coahuila		Cienega de Flores, Nuevo Leon		Ejido Marin, Nuevo Leon	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	30	23	35	13	21	16	T	27	T	25
Feb.	1	12	0	11	0	13	14	22	10	17
Mar.	0	8	3	7	5	9	9	25	6	20
April	0	17	0	12	12	16	98	35	20	31
May	6	36	7	23	15	29	2	60	62	49
June	17	64	8	52	52	51	14	77	21	61
July	117	85	36	76	86	65	80	58	29	53
Aug.	74	90	75	72	215	62	30	99	44	64
Sept.	92	73	81	69	98	63	218	137	132	104
Oct.	22	34	6	29	20	30	49	62	34	45
Nov.	0	11	1	12	T	19	33	26	30	19
Dec.		9	21	13	31	15	61	26		24
Yearly		462	273	389	555	388	608	654		512

	Tepehuaje, Nuevo Leon		Gomez Farias, Coahuila		Monterrey, Nuevo Leon		Villa Allende, Nuevo Leon		Casillas, Nuevo Leon	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	31	33	33	T	17	0	31	3	22
Feb.	7	18	0	17	5	18	29	32	0	13
Mar.	16	26		9	15	20	20	36	19	16
April	42	59	14	21	4	30	10	68	4	26
May	44	76	40	39	28	46	50	96	42	54
June	7	70	28	55	49	71	57	131	38	75
July	106	53	193	63	133	59	74	89	110	73
Aug.	30	72	99	61	26	78	87	128	36	74
Sept.	296	149	109	53	309	159	245	237	124	114
Oct.	44	73	48	28	91	80	19	133	49	59
Nov.	28	18	0	12	42	29	36	39	0	17
Dec.	94	21	33	18	107	19	65	29	31	15
Yearly	714	666		409	809	626	692	1,049	456	558

	Montemorelos, Nuevo Leon		El Realito, Nuevo Leon		Agua Blanca, Nuevo Leon		Dr. Gonzales, Nuevo Leon		El Canada, Nuevo Leon	
Month	2006	Average	2006	Average	2006	Average	2006	Average	2006	Average
Jan.	0	24	0	28	8	22	0	35	8	14
Feb.	16	25	7	13	0	13	12	17	9	19
Mar.	26	33	13	22	22	16	12	20	8	24
April	53	58	30	42	11	23	36	38	13	28
May	67	83	55	69	25	49	16	58	15	56
June	8	95	32	67	4	63	0	67	20	55
July	112	63	144	60	75	90	76	45	35	39
Aug.	35	100	48	95	71	89	27	70	8	56
Sept.	269	180	254	119	314	140	281	104	275	135
Oct.	44	99	27	49	50	61	18	51	49	72
Nov.	65	38	14	15	5	20	26	27	34	22
Dec.	46	24	72	27	78	16		39	2	10
Yearly	741	822	696	606	663	602		571	476	530

	Retamal, Tamaulipas									
Month	2006	Average								
Jan.	5	25								
Feb.	4	26								
Mar.	4	21								
April	2	36								
May	41	59								
June	2	61								
July	113	44								
Aug.	23	60								
Sept.	241	94								
Oct.	93	62								
Nov.	5	30								
Dec.	51	31								
Yearly	584	549								


INTERNATIONAL BOUNDARY & WATER COMMISSION
UNITED STATES & MEXICO
ISOHYETAL MAP
FOR YEAR 2006
RIO GRANDE DRAINAGE BASIN
EL PASO, TEXAS TO THE GULF OF MEXICO
PRECIPITATION IN MILLIMETERS
LEGEND
Stream Gaging Station
Watershed Boundary
Closed Basin
NOTE: Evaporation stations located at or near underlined names
SCALE
0 25 50 75 100 MILES
0 50 100 150 KILOMETERS
N
LOCATION MAP
UNITED STATES
MEXICO
PACIFIC OCEAN
GULF OF MEXICO
CHIHUAHUA
COAHUILA
NUEVO LEON
DRAINAGE BASIN OF THE MAPIMI BOLSON
RIO YAQUI BASIN
RIO FUERTE BASIN
RIO NAZAS BASIN
COLORADO RIVER BASIN
CLOSED BASIN
AMISTAD RESERVOIR
FALCON RESERVOIR
EL PASO
CD. JUAREZ
DEL RIO
EAGLE PASS
PIEDRAS NEGRAS
LAREDO
NUEVO LAREDO
MONTERREY
MATAMOROS
BROWNSVILLE
HARLINGEN
DELTA LAKE
RIO GRANDE CITY
REYNOSA
CD. MIER
CD. CAMARGO
CD. JIMENEZ
PARRAL
CHIHUAHUA
PRESIDIO
OJINAGA
MARFA
ALPINE
FT. STOCKTON
PECOS
VAN HORN
FT. QUITMAN
CANDELARIA
LAS CRUCES
ACEQUIA MADRE
PRAXEDIS G. GUERRERO
CLINT
FABENS
ACALA
GUZMAN
VILLA AHUMADA
EL SUECO
JOHNSON RANCH
LA MORITA
SAN ANTONIO CROSSING
PALAFOX
NUEVA ROSITA
SABINAS
MUZQUIZ
VILLA OCAMPO
MONCLOVA
LAS TORTILLAS
RO SAN JUAN DE LA PALMA
FORT RINGGOLD
HIDALGO
PROGRESO
PETAMAL
MONTERREY
TLAHUALILO
GOMEZ PALACIO
TORREON
CD. LERDO
LA ZARCA
PARRAS
BALLEZA
Presa Rosetilla
Presa Luis Leon
Presa Chihuahua
Presa Francisco I. Madero
Presa La Boquilla
Presa San Gabriel
Presa Venustiano Carranza
Presa Morte R. Gomez
Presa El Cuchillo
Presa La Boca
Laguna Guzman
Laguna del Guaje
Vasos Culebron, Cardenas y Palito Blanco
Anzalduas Dam
Below Maverick Dam
Pecos River
Rio Grande
Rio Conchos
Rio Sabinas
Rio Alamo
Rio Salinas
Rio San Juan
Rio Pilon
Rio Sacramento
Rio Chuviscar
Rio Sta Isabel
Rio Nadadores
Rio Monclova
Rio Candela
Rio Florido
Rio Parral
Rio Balleza
Rio Conchos
Rio Pesquera
Rio Camaron
Rio Salado
Rio Alamos
Rio Muzquiz
Rio Sabinas
Rio Alamo
Rio Solinas
Rio Pesquera
Rio Pilon
Rio Tacubillas
Rio Huizache
Rio Sabinas
Rio Salado
Rio Bolsico
Rio Verde
Rio del Tigre
Rio Dolores
Rio Blancas
Rio Santa Isabel
Rio Escondido
Rio Elm Cr.
Rio Pinto Creek
Rio Devils River
Rio Howard's Cr.
Rio Sycamore Cr.
Rio Castaño
Rio Polomo
Rio Lozier Cr.
Rio San Francisco Cr.
Rio Marquillas
Rio Terlingua Creek
Rio Alamito
Rio Conchos
Rio San Carlos
Rio Salado del Pino
Rio Salado del Babia
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AVERAGE RAINFALL ON SUBDIVISIONS OF THE RIO GRANDE WATERSHED
With Averages for the 134 Years 1871 - 2006, Inclusive

In Millimeters

The Precipitation records of all stations on or adjacent to the watershed subdivisions listed below have been used, with proper weighting for area, in calculating the average rainfalls shown here. The drainage area for each subdivision is shown in parentheses. The hundreds of individual records are delineated in the various "Indexes to Precipitation Records" shown in Water Bulletins Nos. 10, 14, 22, 26, and Supplement 40A.

	El Paso to Fort Quitman (6,933 Square Km)		Fort Quitman to Above Rio Conchos (7,915 Square Km)		* Above Rio Conchos to Johnson Ranch (9,795 Square Km)		Johnson Ranch to Foster Ranch (33,623 Square Km)	
Month	2006	Period Average	2006	Period Average	2006	Period Average	2006	Period Average
Jan.	0	11	0	10	1	9	2	12
Feb.	2	10	0	8	0	8	1	10
Mar.	0	8	2	6	0	5	1	10
April	0	7	0	9	6	10	7	19
May	2	11	1	15	2	19	5	36
June	3	20	21	32	14	29	21	42
July	18	53	51	70	27	47	12	45
Aug.	69	47	65	60	65	48	73	50
Sept.	65	36	28	48	8	40	15	52
Oct.	28	23	29	27	22	23	18	32
Nov.	0	11	0	11	0	9	0	15
Dec.	0	15	10	13	27	10	21	13
Yearly	187	252	207	309	172	257	176	336

	Pecos River below Sheffield (8,780 Square Km)		# Foster Ranch to Amistad Dam (7,249 Square Km)		Devils River (11,150 Square Km)		+ Amistad Dam to Eagle Pass (4,209 Square Km)	
Month	2006	Period Average	2006	Period Average	2006	Period Average	2006	Period Average
Jan.	4	17	3	17	6	17	2	18
Feb.	5	22	0	22	6	20	0	23
Mar.	12	20	2	24	24	27	3	25
April	32	44	4	40	11	43	23	42
May	11	47	16	68	22	65	27	70
June	25	59	10	60	26	65	15	63
July	13	45	4	45	15	46	7	46
Aug.	25	50	26	46	53	54	25	48
Sept.	37	61	38	71	58	72	94	75
Oct.	28	49	9	51	42	56	12	54
Nov.	0	24	0	26	0	37	0	26
Dec.	15	18	13	20	13	24	10	21
Yearly	207	456	125	490	276	526	218	511

	! Eagle Pass to Laredo (9,829 Square Km)		** Laredo to Falcon Dam (8,726 Square Km)		## Falcon Dam to Rio Grande City (1,212 Square Km)		United States Side Below Rio Grande City (2,554 Square Km)	
Month	2006	Period Average	2006	Period Average	2006	Period Average	2006	Period Average
Jan.	5	19	0	20	0	23	3	31
Feb.	8	21	1	22	3	22	2	28
Mar.	6	23	2	21	12	23	15	26
April	35	42	43	36	31	31	6	35
May	61	76	63	78	29	60	35	69
June	32	62	47	52	40	55	18	64
July	21	38	38	51	61	46	72	44
Aug.	12	56	4	48	6	51	19	57
Sept.	60	74	216	80	163	92	200	110
Oct.	16	49	39	45	78	51	65	65
Nov.	0	25	0	38	0	22	5	34
Dec.	37	24	76	22	106	19	73	31
Yearly	293	509	529	513	529	495	513	594

* Excluding Rio Conchos, Alamito Creek, and Terlingua Creek
\# Excluding Pecos and Devils Rivers
\+ Excluding Arroyo Las Vacas, San Felipe Creek, Pinto Creek, Rio San Diego, and Rio San Rodrigo
! Excluding Rio Escondido
** Excluding Rio Salado above old Cd. Guerrero
Excluding Rio Alamo and Rio San Juan

LOCATION OF RAINFALL STATIONS ON THE RIO GRANDE WATERSHED

The precipitation records of stations listed below began on the date shown and extend through the current year. For detailed information regarding sources of data, specific periods of record, and other pertinent matters relative to these and additional rainfall stations on the Rio Grande watershed, see "Index to Precipitation Records" in Water Bulletins Nos. 10, 14, 22, 26, and Supplement 40A. With the exception of Las Cruces, New Mexico, all United States precipitation stations listed below are in Texas, while those in Mexico are in the indicated state as shown.

IN THE UNITED STATES

NAME OF STATION	TYPE GAGE	LATI-TUDE	LONGI-TUDE	ELEV. METERS	RECORD BEGAN	WATERSHED SUBDIVISION	OBSERVER
A.A. Baker Ranch	R	29` 44'	101` 08'	524	July 1962	Devils River	I. B. & W. C.
Adobes Ranch	C	29` 46'	104` 34'	777	# 1950	Fort Quitman - Above Rio Conchos	I. B. & W. C.
American Dam	S	31` 47'	106` 32'	1,137	# 1938	El Paso - Fort Quitman	I. B. & W. C.
Amistad Dam	R	29` 27'	101` 01'	351	July 1962	Foster Ranch - Amistad Dam	I. B. & W. C.
Amistad Reservoir near Comstock	C	29` 32'	101` 12'	344	# 1970	Foster Ranch - Amistad Dam	I. B. & W. C.
Anzalduas Dam	S	26` 08'	98` 20'	39	1972	Lower Rio Grande Valley	I. B. & W. C.
Apache Ranch	C	27` 56'	99` 56'	152	#May 1953	Eagle Pass - Laredo	Ranch Foreman
Big Satan Creek Station	C	29` 34'	100` 57'	351	Nov. 1968	Devils River	I. B. & W. C.
Bill Shannon Ranch	C	29` 57'	104` 40'	817	#July 1956	Fort Quitman - Above Rio Conchos	Bill Shannon
Brotherton Ranch	S	29` 42'	101` 19'	427	1961	Langtry - Below Amistad Dam	Perry Calk
Brownsville Irrigation and Drainage District	S	25` 52'	97` 27'	!	1992	Lower Rio Grande Valley	Joe Barrera
Buoy No. 11	C	29` 30'	101` 10'	**	#Dec. 1969	Foster Ranch - Amistad Dam	I. B. & W. C.
Cliff Lowry Ranch No. 1	R	29` 28'	100` 52'	454	July 1962	Devils River	I. B. & W. C.
Comstock	R	29` 41'	101` 10'	466	#May 1939	Foster Ranch - Amistad Dam	I. B. & W. C.
Corralitos Ranch	C	27` 07'	99` 25'	105	1953	Laredo - Falcon Dam	I. B. & W. C.
Dead Man's Canyon near Comstock	C	29` 47'	101` 19'	399	Sept. 1967	Pecos River below Sheffield	I. B. & W. C.
Devils Lake	R	29` 34'	100` 58'	349	#May 1939	Devils River	I. B. & W. C.
Devils River at Cauthorn Ranch	S	30` 04'	101` 06'	505	#April 1976	Devils River	I. B. & W. C.
Eagle Pass	S	28` 42'	100` 30'	248	1964	Eagle Pass - Laredo	I. B. & W. C.
Ed Crane Ranch	S	29` 50'	101` 05'	497	# 1955	Devils River	E. J. Crane Jr.
Edinburg City Water Plant	S	26` 18'	98` 10'	30	# 1934	Lower Rio Grande Valley	City of Edinburg
El Indio	S	28` 31'	100` 19'	221	#June 1941	Eagle Pass - Laredo	Mrs. Courtney
Evans Creek near Comstock	C	29` 32'	101` 06'	360	#July 1969	Devils River	I. B. & W. C.
Falcon Dam	S	26` 33'	99` 08'	98	April 1950	Laredo - Falcon Dam	I. B. & W. C.
Fort Hancock Bridge	S	31` 16'	105` 51'	1,067	#April 1940	El Paso - Fort Quitman	I. B. & W. C.
Garciasville	R	26` 20'	98` 41'	61	#April 1957	Lower Rio Grande Valley	I. B. & W. C.
Gillis Headquarters	S	29` 36'	100` 47'	430	1968	Amistad Dam - Eagle Pass	Jake Schiller
Gillis Ranch	S	29` 40'	101` 03'	439	# 1965	Devils River	Walter Gillis
Goldwire Ranch	C	29` 44'	100` 57'	514	Nov. 1968	Devils River	I. B. & W. C.
Guayuco Arroyo	R	31` 10'	105` 40'	1,097	#May 1940	El Paso - Fort Quitman	I. B. & W. C.
HCWCID No. 6 Goodwin Pump No. 3	S	26` 16'	98` 24'	53	1953	Lower Rio Grande Valley	HCWCID No. 6
HCWCID No. 6 Goodwin Pump No. 4B	S	26` 18'	98` 22'	64	1953	Lower Rio Grande Valley	HCWCID No. 6
H.K. Fawcett Ranch	C	29` 52'	100` 53'	488	# 1941	Devils River	I. B. & W. C.
H.T. Fletcher Ranch	S	30` 12'	104` 16'	1,554	# 1939	Alamito Creek	Hayes Mitchell Jr.
H.T. Miers Ranch Headquarters	C	29` 44'	100` 50'	536	# 1957	Devils River	I. B. & W. C.
H.T. Miers Ranch No. 2	R	29` 43'	100` 53'	488	April 1964	Devils River	I. B. & W. C.
Harlow Ranch	C	29` 49'	101` 10'	517	#Mar. 1969	Devils River	I. B. & W. C.
Huisache Ranch	C	26` 57'	99` 21'	117	Aug. 1953	Laredo - Falcon Dam	I. B. & W. C.
Hutto Ranch No. 1	R	29` 30'	100` 50'	378	# 1964	Devils River	I. B. & W. C.
Hutto Ranch No. 2	R	29` 38'	100` 54'	369	# 1964	Devils River	I. B. & W. C.
J.G. Brite Ranch	R	29` 33'	101` 01'	351	#Sept. 1962	Devils River	I. B. & W. C.
Johnson Ranch	C	29` 01'	103` 23'	625	#July 1933	Johnson Ranch - Foster Ranch	I. B. & W. C.
Keisling Ranch	S	28` 23'	100` 17'	226	Dec. 1958	Eagle Pass - Laredo	I. B. & W. C.
La Feria Materials Yard	V	26` 10'	97` 50'	18	# 1960	Lower Rio Grande Valley	CCWCID #3
La Feria Pumping Plant	S	26` 03'	97` 50'	18	# 1952	Lower Rio Grande Valley	CCWCID #3
Laredo Water Plant	S	27` 33'	99` 31'	410	# 1930	Eagle Pass - Laredo	Laredo Water Plant
Las Cruces	S	32` 19'	106` 47'	1,187	1975	Caballo Dam - El Paso	I. B. & W. C.
Las Moras Creek	S	29` 00'	100` 38'	244	1958	Amistad Dam - Eagle Pass	I. B. & W. C.
Laughlin Air Force Base	S	29` 21'	100` 47'	329	Dec. 1958	Amistad Dam - Eagle Pass	U. S. A. F.

S Standard R Recording C Cumulative V Visual ** Reservoir surface
Some months or years missing

LOCATION OF RAINFALL STATIONS ON THE RIO GRANDE WATERSHED

IN THE UNITED STATES

NAME OF STATION	TYPE GAGE	LATI-TUDE	LONGI-TUDE	ELEV. METERS	RECORD BEGAN	WATERSHED SUBDIVISION	OBSERVER
Lewis Ranch	S	29` 32'	100` 40'	427	# 1964	Amistad Dam - Eagle Pass	B.C. Lewis Jr.
Lewis James Ranch	S	30` 11'	102` 07'	998	# 1966	Johnson Ranch - Foster Ranch	Lewis James
Long Ranch	R	29` 27'	100` 56'	347	Oct. 1971	Devils River	I. B. & W. C.
Los Ebanos	C	26` 14'	98` 34'	46	#April 1957	Lower Rio Grande Valley	I. B. & W. C.
Lowry Ranch No. 2	R	29` 37'	100` 55'	354	May 1965	Devils River	I. B. & W. C.
Martin King Ranch	R	29` 43'	101` 02'	445	#Nov. 1954	Foster Ranch - Amistad Dam	I. B. & W. C.
Maverick County Canal Headgate	S	29` 10'	100` 46'	265	#Mar. 1948	Amistad Dam - Eagle Pass	MCWCID #1
Mercedes LRGFCP Office	S	26` 07'	97` 56'	22	1994	Lower Rio Grande Valley	I. B. & W. C.
Mercedes Pump	S	26` 04'	97` 54'	!	1938	Lower Rio Grande Valley	I. B. & W. C.
Middle Fork San Pedro	C	29` 29'	100` 52'	357	#June 1969	Devils River	I. B. & W. C.
North Fork San Pedro	C	29` 31'	100` 53'	349	#June 1969	Devils River	I. B. & W. C.
Owens Ranch	S	30` 48'	102` 42'	686	#July 1963	Pecos River below Sheffield	Mrs. W. Owens
Pafford Crossing	C	29` 40'	101` 00'	360	Mar. 1960	Devils River	I. B. & W. C.
Pecos River near Langtry Station	C	29` 48'	101` 26'	384	July 1967	Pecos River below Sheffield	I. B. & W. C.
Penitas (Edinburg Pumping Plant)	S	26` 14'	98` 27'	30	July 1957	Lower Rio Grande Valley	M. Stevens
Pinto Creek Station	C	29` 09'	100` 43'	265	#Dec. 1958	Amistad Dam - Eagle Pass	I. B. & W. C.
Presidio (IBWC)	S	29` 34'	104` 23'	792	#Nov. 1949	Above Rio Conchos - Johnson Ranch	I. B. & W. C.
Prosser Ranch No. 1	C	29` 53'	101` 14'	521	Mar. 1965	Pecos River below Sheffield	I. B. & W. C.
Prosser Ranch No. 2	C	29` 48'	101` 15'	564	#Mar. 1965	Devils River	I. B. & W. C.
Prosser Ranch No. 3	C	30` 02'	101` 16'	616	#Mar. 1965	Pecos River below Sheffield	I. B. & W. C.
Redford	C	29` 29'	104` 13'	762	#July 1954	Above Rio Conchos - Johnson Ranch	I. B. & W. C.
Rio Grande near Dryden	R	29` 48'	102` 08'	411	May 1976	Johnson Ranch - Foster Ranch	National Weather Service
Roma (International Bridge)	S	26` 24'	99` 01'	70	# 1941	Falcon Dam - Rio Grande City	I. B. & W. C.
Ross Foster Ranch	C	29` 45'	101` 46'	375	May 1961	Johnson Ranch - Foster Ranch	I. B. & W. C.
Rough Canyon near Del Rio	C	29` 34'	100` 56'	350	#June 1969	Devils River	I. B. & W. C.
San Benito Pump	S	26` 03'	97` 45'	15	Oct. 1933	Lower Rio Grande Valley	CCWCID No. 2
Sellers Ranch	C	29` 34'	101` 02'	363	#Mar. 1960	Devils River	I. B. & W. C.
Shafter	S	29` 49'	104` 19'	1,195	#July 1968	Above Rio Cochos - Johnson Ranch	Raymond Wylic
Stewart Ranch	R	29` 35'	100` 52'	405	#April 1960	Devils River	I. B. & W. C.
Study Butte	S	29` 19'	103` 32'	777	July 1977	Terlingua Creek	Shirley Willard
Terlingua Creek Station	C	29` 12'	103` 36'	675	#Mar. 1952	Terlingua Creek	I. B. & W. C.
Trees Farm	R	28` 38'	100` 25'	219	#Mar. 1959	Eagle Pass - Laredo	I. B. & W. C.
Tuffy Whitehead Ranch	R	29` 37'	101` 07'	433	July 1962	Devils River	I. B. & W. C.
United Irrigation District	S	26` 11'	98` 24'	!	#Aug. 1961	Lower Rio Grande Valley	United Irrig. District
Van Dalsem Farm	C	28` 27'	100` 19'	213	# 1959	Eagle Pass - Laredo	I. B. & W. C.
Walker Ranch	C	29` 49'	101` 13'	466	#Aug. 1969	Devils River	I. B. & W. C.
Wardlaw Standart Ranch	S	29` 18'	100` 38'	326	April 1977	Pinto Creek	Hadly Wardlaw
Zapata	S	26` 54'	99` 16'	116	1992	Laredo - Falcon Dam	I. B. & W. C.
Zuberbueler Ranch	S	29` 41'	101` 14'	445	#Feb. 1975	Foster Ranch - Amistad Dam	J.U. Zuberbueler

S Standard R Recording C Cumulative ! Not Available # Some months or years missing

LOCATION OF RAINFALL STATIONS ON THE RIO GRANDE WATERSHED

IN MEXICO

NAME OF STATION	TYPE GAGE	LATI-TUDE	LONGI-TUDE	ELEV. METERS	RECORD BEGAN	WATERSHED SUBDIVISION	OBSERVER
Agua Blanca, Nuevo Leon	S	25` 32'	100` 31'	2,290	1958	Rio San Juan	C. N. A.
Allende, Nuevo Leon	S	25` 14'	100` 01'	474	1938	Rio San Juan	C. N. A.
Anahuac, Nuevo Leon	S	27` 15'	100` 08'	200	#June 1933	Rio Salado	C. N. A.
Bachiniva, Chihuahua	S	28` 46'	107` 15'	1,980	1952	Rio Conchos	Meteor. Service of Mexico
Candela, Coahuila	S	26` 50'	100` 39'	620	# 1970	Rio Salado	C. N. A.
Casillas, Nuevo Leon	S	25` 11'	100` 12'	1,260	# 1958	Rio San Juan	C. N. A.
Cd. Acuna, Coahuila	S	29` 20'	100` 57'	274	1951	Amistad Dam-Eagle Pass	C. I. L. A.
Cd. Camargo, Chihuahua	S	27` 41'	105` 10'	1,223	1956	Rio Conchos	Meteor. Service of Mexico
Cd. Delicias, Chihuahua	S	28` 12'	105` 26'	1,173	1932	Rio Conchos	C.N.A.
Cd. Juarez, Chihuahua	S	31` 44'	106` 24'	990	1903	El Paso-Ft Quitman	I. B. & W. C.
Cd. Mier, Tamaulipas	S	26` 26'	99` 09'	80	# 1955	Falcon Dam-Rio Grande C.	I. B. & W. C.
Cienega de Flores, N. L.	R	25` 57'	100` 10'	380	# 1938	Rio San Juan	S.A.R.H.
Dr. Gonzalez, N. L.	S	25` 51'	99` 55'	370	1992	Rio San Juan	C. N. A.
Ejido Marin, Nuevo Leon	S	25` 51'	100` 01'	490	# 1979	Rio San Juan	S. A. R. H.
El Canada, Nuevo Leon	S	25` 48'	100` 16'	470	#Jan. 1958	Rio San Juan	C. N. A.
El Realito, Nuevo Leon	S	25` 16'	99` 18'	230	# 1970	Rio San Juan	S. A. R. H.
Emiliano, Zapata, Coah.	S	29` 02'	100` 53'	210	1964	Amistad-Eagle Pass	C. N. A.
Escalon, Chihuahua	S	26` 45'	104` 20'	1,169	1957	Rio Conchos	C. N. A.
Espinazo, Nuevo Leon	S	26` 15'	101` 06'	825	# 1980	Rio Salado	S. A. R. H.
Garza Ayala, Nuevo Leon	S	26` 29'	100` 03'	218	# 1968	Rio San Juan	S. A. R. H.
General Cepeda, Coahuila	S	25` 22'	101` 28'	1,400	# 1926	Rio San Juan	S. A. R. H.
Gomez Farias, Coahuila	S	24` 58'	101` 03'	!	# 1979	Rio San Juan	C. N. A.
Jimenez, Chihuahua	S	27` 08'	104` 54'	1,380	# 1951	Rio Conchos	Meteor. Service of Mexico
Jimenez, Coahuila	S	29` 04'	100` 40'	248	1951	Amistad Dam-Eagle Pass	C. I. L. A.
La Chupparosa, Coahuila	R	29` 30'	101` 15'	350	# 1970	Foster Ranch-Amistad Dam	I. B. & W. C.
La Trasquila, Chihuahua	S	29` 44'	107` 04'	1,441	1962	Rio Conchos	C.N.A.
Monclova, Coahuila	S	26` 54'	101` 25'	615	1897	Rio Salado	C. N. A.
Montemorelos, Nuevo Leon	S	25` 10'	99` 50'	375	1904	Rio San Juan	C. N. A.
Monterrey, Nuevo Leon	S	25` 40'	100` 16'	495	1896	Rio San Juan	C. N. A.
Nueva Cd. Guerrero,Tamps. CILA	S	26` 35'	99` 15'	106	1954	Laredo-Falcon Dam	I. B. & W. C.
Nuevo Laredo, Tamps. CILA	S	27` 30'	99` 30'	126	1950	Laredo-Falcon Dam	S. M. N.
Ocampo, Coahuila	S	27` 18'	102` 23'	1,050	1960	Rio Salado	S. A. R. H.
Ojinaga, Chihuahua	S	29` 33'	104` 24'	739	1954	Rio Conchos	C. I. L. A.
Ojinaga, (M.S. of Mexico) Chihuahua	S	29` 35'	104` 25'	780	1906	Rio Conchos	C. N. A.
Palestina, Coahuila	S	29` 09'	100` 59'	330	1931	Amistad-Eagle Pass	S. A. R. H.
Piedras Negras, Coahuila	S	28` 42'	100` 31'	250	1951	Eagle Pass-Laredo	Meteor. Service of Mexico
Presa Cabeceras, Coahuila	S	29` 02'	101` 04'	348	1964	Eagle Pass-Laredo	S. A. R. H.
Presa Carranza, Coah.	S	27` 31'	100` 37'	272	1927	Rio Salado	C. N. A.
Presa Centenario, Coah.	S	29` 12'	100` 56'	325	1964	Eagle Pass-Laredo	C. N. A.
Presa de La Amistad,Coah. CILA		29` 27'	101` 03'	329	1977	Amistad Dam - Eagle Pass	I. B. & W. C.
Presa El Retamal, Tamaulipas	S	26` 02'	98` 02'	25	1949	Lower Rio Grande Valley	I. B. & W. C.
Presa Fco. I. Madero (Las Virgenes)		28` 10'	105` 37'	1,300	1943	Lower Rio Grande Valley	C.N.A.
Presa La Boquilla, Chih.		27` 32'	105` 24'	1,323	1910	Rio Conchos	C.N.A.
Presa Luis L. Leon, Chih. (El Granero)	S	28` 59'	105` 16'	1,055	1964	Rio Conchos	S. A. R. H.
Presa San Miguel, Coah.	S	29` 02'	100` 57'	!	1964	Amistad-Eagle Pass	C. N. A.
Progreso, Coahuila	S	27` 25'	101` 00'	360	1943	Rio Salado	S. A. R. H.
Sabinas, Coahuila	S	27` 50'	101` 07'	339	1922	Rio Salado	C. N. A.
Saltillo, Coahuila	S	25` 22'	101` 01'	1,790	1886	Rio San Juan	C. N. A.
San Juan de Vaqueria,Coah	S	25` 15'	101` 13'	!	# 1980	Rio San Juan	C. N. A.
Tepehuaje, Nuevo Leon	S	25` 30'	99` 46'	250	1979	Rio San Juan	S. A. R. H.
Villa Hidalgo, Coahuila	S	27` 47'	99` 52'	140	1951	Eagle Pass-Laredo	C. N. A.

S Standard R Recording C Cumulative ! Not Available # Some months or years missing

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

EVAPORATION IN THE RIO GRANDE BASIN
IN THE UNITED STATES

In Millimeters

Tabulated below are records of evaporation observed at seven stations in Texas operated by the United States Section of the Commission from Presidio to Brownsville. At all stations, the exposure to wind was uniform and relatively unimpeded. The sites were kept cleared of all high brush and trees within 46 meters, and all brush, tall weeds, and other obstructions within 30 meters of the fenced enclosures. Within the enclosures all vegetation has been eradicated or kept trimmed to within 0.10 meter of the ground surface. For specific location of these stations, refer to data opposite same station name shown in "Location of Rainfall Stations on the Rio Grande Watershed," on preceding pages of this bulletin.

Records were obtained by means of:

1. Standard National Weather Service pan. A circular pan, 1.22 meters in diameter and 0.25 meter deep, made of 22-gage galvanized iron, is set on a wooden platform with the rim of the pan 0.41 meter above the ground. The water level is maintained between 0.05 and 0.08 meter below the rim of the pan and is measured with a micrometer gage. This type of pan was in operation at Amistad Dam and Falcon Dam.

2. A circular pan, 0.61 meter in diameter and 0.91 meter deep, made of 22-gage galvanized iron, is set in the ground with the rim of the pan 0.08 meter above the ground surface and the top covered with a circular screen of No. 4 (6 millimeter) galvanized hardware cloth. This type of pan, equipped with an automatic feed tank that maintains the water at a level 0.08 meter below the rim of the pan, was in operation at Martin King Ranch.

3. An evaporometer, developed by the United States Section of the Commission and calibrated against a 0.61 meter pan described above, was in operation at Presidio, Johnson Ranch, Long Ranch, and at a site 11.3 kilometers east of Brownsville.

	Presidio		Johnson Ranch		Martin King Ranch		Long Ranch	
Month	2006	Average 1949-2006	2006	Average 1949-2006	2006	Average 1956-2006	2006	Average 1971-2006
Jan.	81	79	155	98	86	94	85	60
Feb.	106	109	114	138	111	106	68	74
Mar.	328	178	248	226	209	171	153	115
April	256	222	298	288	224	213	161	150
May	321	268	417	355	345	243	240	167
June	406	288	480	366	316	282	290	204
July	263	268	308	364	387	321	243	229
Aug.	264	247	237	325	322	321	262	210
Sept.	198	201	178	260	251	240	198	156
Oct.	171	153	169	195	171	184	61	115
Nov.	125	104	123	124	189	129	119	77
Dec.	80	77	72	93	100	103	68	59
Total	2,599	2,194	2,799	2,832	2,711	2,407	1,948	1,616

	Amistad Dam		Falcon Dam		Brownsville			
Month	2006	Average 1963-2006	2006	Average 1956-2006	2006	Average 1958-2006		
Jan.	134	98	148	104	157	82		
Feb.	146	121	140	130	173	93		
Mar.	232	202	234	206	214	124		
April	265	252	303	255	270	153		
May	352	284	342	301	296	151		
June	383	329	363	342	243	162		
July	382	371	369	386	205	186		
Aug.	361	347	378	354	240	179		
Sept.	222	252	237	246	186	136		
Oct.	204	192	141	187	158	121		
Nov.	178	131	140	133	176	101		
Dec.	110	97	86	100	139	87		
Total	2,969	2,676	2,881	2,744	2,457	1,575		

EVAPORATION IN THE RIO GRANDE BASIN IN MEXICO

In Millimeters

Tabulated below are records of evaporation observed at eight stations operated and maintained by the Mexican Section of the Commission. Seven stations are along the Rio Grande from Cd. Acuna, Coahuila to Cd. Mier, Tamaulipas, and one is located on the Rio Conchos near Ojinaga, Chihuahua. At all stations, except Ojinaga, the sites were kept cleared of all high brush and trees within 46 meters and of all brush and tall weeds within 30 meters of the fenced enclosures. The Ojinaga station is 9 meters landward of the east Rio Conchos levee with a concrete V-shaped irrigation ditch and road between the levee and the 8 x 8-meter woven wire pen, which encloses a 150-cm evaporation pan and a 70 x 50-cm shelter with thermometers. Inside the enclosures, all vegetation has been eradicated or kept trimmed to within 0.08 meter of the ground surface. The exposure to wind was uniform and relatively unimpeded. For specific location of these stations, refer to data opposite same station name shown in "Location of Rainfall Stations on the Rio Grande Watershed."

The type of pan used at all these stations was a standard National Weather Service-type pan, 1.22 meters in diameter and 254 millimeters deep, made of 22-gage galvanized iron, set on a wooden platform with the rim of the pan 406 millimeters above the ground. The water level was maintained between 51 and 76 millimeters below the rim of the pan and was measured with a micrometer gage.

Data for other evaporation stations in the Rio Grande basin in Mexico, which were operated by various Mexican agencies, are available in a Spanish water bulletin published by the Mexican Section of the Commission.

	Ojinaga, Chihuahua		La Amistad, Coahuila		Cd. Acuna, Coahuila		Jimenez, Coahuila	
Month	2006	Average 1954-2006	2006	Average 1977-2006	2006	Average 1951-2006	2006	Average 1951-2006
Jan.	97	86	135	91	101	81	82	88
Feb.	126	120	128	115	106	107	97	112
Mar.	242	194	204	182	158	177	136	173
April	300	242	244	227	188	207	157	196
May	384	306	332	256	264	234	214	225
June	367	323	353	293	274	272	221	262
July	327	315	338	335	288	307	245	295
Aug.	230	271	308	312	263	281	222	272
Sept.	263	215	192	232	182	202	139	197
Oct.	165	167	174	166	155	144	113	142
Nov.	104	106	134	108	110	90	87	94
Dec.	66	78	81	86	66	72	52	78
Total	2,671	2,423	2,623	2,403	2,155	2,174	1,765	2,134

	Villa Hidalgo, Coahuila		Nuevo Laredo, Tamaulipas		Nueva Cd. Guerrero, Tamaulipas		Cd. Mier, Tamaulipas	
Month	2006	Average 1951-2006	2006	Average 1964-2006	2006	Average 1954-2006	2006	Average 1955-2006
Jan.	123	88	130	99	163	89	140	94
Feb.	122	115	121	121	142	110	110	119
Mar.	187	175	190	193	228	178	178	190
April	230	223	272	247	321	219	320	233
May	292	258	310	278	332	258	336	268
June	323	298	315	325	325	293	334	307
July	292	335	303	359	385	334	396	349
Aug.	322	307	322	335	379	307	387	317
Sept.	190	219	239	241	242	223	227	233
Oct.	138	166	160	188	139	168	140	181
Nov.	123	108	138	125	113	117	115	119
Dec.	67	83	99	95	62	87	53	89
Total	2,409	2,375	2,599	2,606	2,831	2,383	2,736	2,499

TEMPERATURE, HUMIDITY, AND WIND

The maximum and minimum temperatures shown for the stations in Mexico are from daily maximum and minimum thermometer observations. The mean monthly temperatures are averages of these daily maximum and minimum temperatures.

The mean monthly temperatures and relative humidities shown for stations in the United States were integrated from continuous records of hygrothermographs, housed in louvered shelters, with the sensing elements of the instruments 0.41 meters above the ground and 2.74 meters southwest of either a 0.61 or 1.22-meter diameter evaporation pan. The maximum and minimum temperatures shown below are the extreme temperatures for the month as recorded on the charts except for Falcon Dam and Amistad Dam, where the readings are based on daily maximum and minimum thermometer observations.

Monthly mean wind velocities are based on the total kilometers of wind movement indicated by a standard 3-cup anemometer installed and operated according to specifications for a Class A National Weather Service evaporation station.

Temperature - In Degrees Celsius

In The United States

Month	Amistad Dam, Texas: Mean 2006	Amistad Dam, Texas: Average 1963-2006	Amistad Dam, Texas: 2006 Max.	Amistad Dam, Texas: 2006 Min.	Falcon Dam, Texas: Mean 2006	Falcon Dam, Texas: Average 1950-2006	Falcon Dam, Texas: 2006 Max.	Falcon Dam, Texas: 2006 Min.
Jan.	14	11	30	2	18	13	32	4
Feb.	14	13	30	1	17	16	34	1
Mar.	21	18	33	2	23	20	37	3
April	25	22	39	12	24	24	39	14
May	27	26	41	14	29	27	39	16
June	30	29	42	20	31	29	38	21
July	31	30	41	21	31	30	37	21
Aug.	30	30	41	21	32	30	42	22
Sept.	27	27	38	17	28	27	39	18
Oct.	23	22	33	7	24	23	35	8
Nov.	19	16	33	3	21	18	33	7
Dec.	13	12	24	-3	15	14	28	1
Yearly	23	21	42	-3	24	23	42	1

In Mexico

Month	Ojinaga, Chihuahua: Mean 2006	Ojinaga, Chihuahua: Average 1954-2006	Ojinaga, Chihuahua: 2006 Max.	Ojinaga, Chihuahua: 2006 Min.	La Amistad, Coahuila: Mean 2006	La Amistad, Coahuila: Average 1977-2006	La Amistad, Coahuila: 2006 Max.	La Amistad, Coahuila: 2006 Min.	Cd. Acuna, Coahuila: Mean 2006	Cd. Acuna, Coahuila: Average 1951-2006	Cd. Acuna, Coahuila: 2006 Max.	Cd. Acuna, Coahuila: 2006 Min.
Jan.	12	10	29	-4	14	11	30	2	14	10	31	1
Feb.	15	13	33	-4	14	13	31	0	14	12	32	-1
Mar.	20	17	36	2	20	17	33	4	20	17	35	4
April	25	22	41	7	24	22	39	11	25	22	41	11
May	29	26	44	11	27	26	40	14	28	26	41	15
June	32	30	45	18	30	29	41	21	30	29	43	21
July	32	30	44	21	30	30	39	20	31	30	41	22
Aug.	30	30	44	21	31	30	40	21	31	30	41	20
Sept.	28	27	40	18	26	27	38	16	27	27	38	15
Oct.	23	21	38	5	23	22	33	9	23	21	37	8
Nov.	17	15	33	2	18	16	31	4	18	15	34	3
Dec.	10	11	27	-5	12	12	25	-2	12	11	26	-1
Yearly	23	21	45	-5	22	21	41	-2	23	21	43	-1

Month	Jimenez, Coahuila: Mean 2006	Jimenez, Coahuila: Average 1951-2006	Jimenez, Coahuila: 2006 Max.	Jimenez, Coahuila: 2006 Min.	Villa Hidalgo, Coahuila: Mean 2006	Villa Hidalgo, Coahuila: Average 1951-2006	Villa Hidalgo, Coahuila: 2006 Max.	Villa Hidalgo, Coahuila: 2006 Min.	Nuevo Laredo, Tamaulipas: Mean 2006	Nuevo Laredo, Tamaulipas: Average 1964-2006	Nuevo Laredo, Tamaulipas: 2006 Max.	Nuevo Laredo, Tamaulipas: 2006 Min.
Jan.	13	12	32	-5	16	13	33	-2	17	13	32	5
Feb.	14	14	34	-5	15	14	33	-3	16	16	32	-1
Mar.	21	18	39	0	23	19	38	4	24	20	37	5
April	27	22	43	8	27	24	42	11	28	24	42	12
May	29	26	42	11	29	27	42	13	30	28	42	17
June	32	29	45	15	32	30	42	19	31	30	42	21
July	33	30	44	22	32	31	42	21	31	31	40	23
Aug.	34	30	47	23	33	31	42	23	32	31	42	24
Sept.	28	27	43	14	28	27	40	17	28	28	39	18
Oct.	24	22	38	4	24	23	39	6	24	24	36	7
Nov.	18	16	34	-1	19	17	33	2	20	19	33	5
Dec.	12	12	28	-6	13	13	27	-1	15	14	26	1
Yearly	24	22	47	-6	24	22	42	-3	25	23	42	-1

TEMPERATURE, HUMIDITY, AND WIND

Temperature - In Degrees Celsius

In Mexico

Month	Nueva Cd. Guerrero, Tamaulipas				Cd. Mier, Tamaulipas				El Retamal, Tamaulipas			
	Mean 2006	Average 1958-2006	2006 Max.	2006 Min.	Mean 2006	Average 1955-2006	2006 Max.	2006 Min.	Mean 2006	Average 1951-2006	2006 Max.	2006 Min.
Jan.	19	14	32	3	18	14	31	5	12	16	20	5
Feb.	18	16	32	2	19	16	33	2	16	17	31	2
Mar.	26	20	36	6	26	21	37	5	26	21	34	7
April	29	24	40	15	28	25	41	13	24	25	32	15
May	29	28	41	16	30	28	41	19	23	27	28	16
June	30	30	41	20	31	30	41	22	25	29	29	20
July	31	31	41	20	32	31	42	23	26	30	29	23
Aug.	32	31	44	22	33	31	43	23	27	30	29	24
Sept.	28	28	42	19	29	29	41	20	24	28	29	19
Oct.	25	24	38	13	26	24	37	14	22	25	29	9
Nov.	19	19	29	3	20	19	34	5	18	20	27	5
Dec.	14	15	26	0	14	15	28	1	13	16	23	4
Yearly	25	23	44	0	26	24	43	1	21	24	34	2

Mean Wind Speed - Kilometers Per Hour

In the United States

Month	Martin King Ranch, Texas		Amistad Dam, Texas		Falcon Dam, Texas	
	2006	Average 1956-2006	2006	Average 1963-2006	2006	Average 1950-2006
Jan.	6.6	6.0	3.0	4.7	4.8	5.1
Feb.	7.7	7.1	5.1	5.3	5.0	5.9
Mar.	13.1	9.1	7.2	6.3	7.1	6.6
April	12.4	9.7	6.7	6.5	7.7	7.4
May	14.1	10.4	5.8	6.5	7.5	7.7
June	12.5	11.0	5.3	6.6	7.3	7.8
July	13.8	10.5	7.2	6.3	7.7	8.1
Aug.	11.4	9.5	6.4	5.6	7.7	7.2
Sept.	9.7	7.9	4.8	5.0	4.8	5.3
Oct.	9.3	7.6	5.5	4.8	2.7	4.7
Nov.	9.4	6.4	5.4	4.5	3.7	5.0
Dec.	7.7	5.6	3.7	4.4	4.5	4.8
Yearly	10.6	8.4	5.5	5.5	5.9	6.3

Mean Relative Humidity - Percent

In the United States

Month	Amistad Dam, Texas		Falcon Dam, Texas	
	2006	Average 1963-2006	2006	Average 1950-2006
Jan.	47	61	48	68
Feb.	53	58	52	66
Mar.	54	55	52	64
April	57	57	54	64
May	55	63	55	67
June	49	62	53	65
July	56	59	57	63
Aug.	59	60	55	63
Sept.	63	64	63	67
Oct.	58	64	68	67
Nov.	54	63	57	68
Dec.	62	61	67	68
Yearly	56	61	57	66

DRAINAGE BASIN AND IRRIGATED AREAS
Along the Rio Grande and Tributaries - 2006

The total area within the outer rim of the Rio Grande basin is about 868,945 square kilometers, but it contains large areas, especially along its southwestern boundary, that contribute no surface runoff to the Rio Grande. Such noncontributing areas constitute about 47 percent of the total area, leaving 456,701 square kilometers of productive watershed which is listed in the tabulation below.

The irrigated areas shown below are listed in accordance with the location of their diversions points and are all within the Rio Grande Basin, except in the lower Rio Grande Valley where large portions of irrigated lands in both countries lie outside the basin boundary line.

On the United States side, only the areas irrigated in 2006 are shown, except that in some reaches the figures shown represent acreages which were subject to irrigation in 2006 but for which data on the portion actually irrigated is not known. On the Mexican side, part of the data may have been gathered prior to 2006. The irrigated area data tabulated are the best data that could be obtained.

DESIGNATION OF AREAS AND GAGING STATIONS	Drainage Basin Square Kilometers			Irrigated Areas - Hectares		
	United States	Mexico	Total	United States	Mexico	Total
Above Elephant Butte Dam	67,141	0	67,141			
Elephant Butte Dam to Caballo Dam	3,354	0	3,354	0	0	
Above Caballo Dam	70,495	0	70,495	0	0	0
Caballo Dam to American Dam	5,317	0	5,317	28,912	0	28,912
Above American Dam	75,812	0	75,812	28,912		28,912
American Dam to Acala Station (Discontinued)	1,740	1,409	3,149	27,928	11,061	38,989
Above Acala Gaging Station (Discontinued)	77,552	1,409	78,961	56,840	11,061	67,901
Acala Station to Fort Quitman Station	1,717	2,056	3,773	6,904	0	6,904
Above Fort Quitman Gaging Station	79,269	3,465	82,734	63,744	11,061	74,805
Fort Quitman Station to Above Presidio Station	4,263	3,652	7,915	1,517	100	1,617
Above Presidio Station above Rio Conchos	83,532	7,117	90,649	65,261	11,161	76,422
Rio San Pedro above Francisco I. Madero Dam	0	10,778	10,778	0	0	0
Rio Conchos above Boquilla Dam	0	10,282	10,282	0	0	0
Boquilla Dam to Luis L. Leon Dam	0	38,490	38,490	0	44,139	44,139
Luis L. Leon Dam to mouth of river	0	8,837	8,837	0	5,664	5,664
Rio Conchos - Total	0	68,387	68,387	0	49,803	49,803
Alamito Creek above Gaging Station	3,895	0	3,895	0	0	0
Presidio Station Above Rio Conchos to Presidio Station below Rio Conchos - excluding above tributaries	881	235	1,116	1,060	0	1,060
Presidio Station above Rio Conchos to Presidio Station below Rio Conchos - Total	4,776	68,622	73,398	1,060	49,803	50,863
Above Presidio Station below Rio Conchos	88,308	75,739	164,047	66,321	60,964	127,285
Terlingua Creek above Gaging Station	2,771	0	2,771	0	0	0
Presidio Station below Rio Conchos to Johnson Ranch Station - excluding Terlingua Creek	2,831	5,848	8,679	465	0	465
Presidio Station below Rio Conchos to Johnson Ranch Station - Total	5,602	5,848	11,450	465	0	465
Above Johnson Ranch Gaging Station	93,910	81,587	175,497	66,786	60,964	127,750
Johnson Ranch Station to Foster Ranch Station	16,607	17,016	33,623	127	0	127
Above Foster Ranch Gaging Station	110,517	98,603	209,120	66,913	60,964	127,877
Pecos River above Girvin(In the State of Texas)	76,566	0	76,566	2,766	0	2,766
Pecos River, Girvin to Station near Langtry	14,548	0	14,548	0	0	0
Station near Langtry to Station at Mouth (Discontinued)	334	0	334	0	0	0
Pecos River - Total	91,448	0	91,448	2,766	0	2,766
Devils River above Pafford Crossing	10,259	0	10,259	0	0	0
Pafford Crossing to Station at Mouth (Discontinued)	891	0	891	0	0	0
Foster Ranch Station to Amistad Dam excluding above tributaries	1,033	6,164	7,197	0	0	0
Foster Ranch Station to Amistad Dam- Total	103,631	6,164	109,795	2,766	0	2,766
Above Amistad Dam	214,148	104,767	318,915	69,679	60,964	130,643
Amistad Dam to Below Amistad Dam Gaging Station	13	10	23	0	0	0
Above the Below Amistad Dam Gaging Station	214,161	104,777	318,938	69,679	60,964	130,643
Below Amistad Dam Station to Del Rio Station	155	259	414	96	328	424
Above Del Rio Gaging Station	214,316	105,036	319,352	69,775	61,292	131,067
Arroyo Las Vacas above Gaging Station	0	906	906	0	0	0
San Felipe Creek above Gaging Station	119	0	119	871	0	871

DRAINAGE BASIN AND IRRIGATED AREAS
Along the Rio Grande and Tributaries - 2006

DESIGNATION OF AREAS AND GAGING STATIONS	Drainage Basin Square Kilometers			Irrigated Areas - Hectares		
	United States	Mexico	Total	United States	Mexico	Total
Pinto Creek Above Gaging Station	645	0	645	78	0	78
Rio San Diego above Gaging Station	0	2,209	2,209	0	3,832	3,832
Gaging Station to mouth of river	0	16	16	0	0	0
Rio San Diego - Total	0	2,225	2,225	0	3,832	3,832
Del Rio Station to Jimenez Station - excluding above tributaries	1,733	285	2,018	a) 19,496	0	19,496
Del Rio Station to Jimenez Station - Total	2,497	3,416	5,913	20,445	3,832	24,277
Above the Jimenez Gaging Station	216,813	108,452	325,265	90,220	65,124	155,344
Rio San Rodrigo - Total	0	2,717	2,717	0	450	450
Jimenez Station to Piedras Negras Station-excluding Rio San Rodrigo	1,375	378	1,753	89	120	209
Jimenez Station to Piedras Negras Station-Total	1,375	3,095	4,470	89	570	659
Above Piedras Negras Gaging Station	218,188	111,547	329,735	90,309	65,694	156,003
Rio Escondido above Gaging Station	0	3,779	3,779	0	0	0
Rio Escondido - Total	0	3,810	3,810	0	0	0
Piedras Negras Station to El Indio Station - excluding Rio Escondido	614	533	1,147	0	0	0
Piedras Negras Station to El Indio Station - Total	614	4,343	4,957	0	0	0
Above El Indio Gaging Station	218,802	115,890	334,692	90,309	65,694	156,003
El Indio Gaging Station to Laredo Gaging Station	3,201	5,481	8,682	3,332	1,178	4,510
Above Laredo Gaging Station	222,003	121,371	343,374	93,641	66,872	160,513
Rio Salado above Venustiano Carranza Dam	0	41,002	41,002	0	1,500	1,500
Rio Salado-Venustiano Carranza Dam to Las Tortillas Gaging Station	0	18,969	18,969	0	11,471	11,471
Rio Salado-Las Tortillas Gaging Station to River Road Crossing	0	435	435	0	500	500
Rio Salado- Total	0	60,406	60,406	0	13,471	13,471
Laredo Station to Falcon Dam - excluding Rio Salado	5,289	3,437	8,726	b) 11,777	1,065	12,842
Laredo Station to Falcon Dam - Total	5,289	63,843	69,132	11,777	14,536	26,313
Amistad Dam to Falcon Dam - excluding above tributaries	12,380	10,383	22,763	34,790	2,691	37,481
Above Falcon Dam	227,292	185,214	412,506	105,418	81,408	186,826
Rio Alamo above Gaging Station	0	4,339	4,339	0	0	0
Rio San Juan above Marte Gomez Dam	0	33,010	33,010	0	2,476	2,476
Rio San Juan - Marte Gomez Dam to Camargo Gaging Station	0	505	505	0	61,558	61,558
Rio San Juan - Total	0	33,538	33,538	0	64,034	64,034
Falcon Dam to Rio Grande City Station - excluding above tributaries	575	637	1,212	1,509	0	1,509
Falcon Dam to Rio Grande City Station - Total	575	38,514	39,089	1,509	64,034	65,543
Above Rio Grande City Gaging Station	227,867	223,728	451,595	106,927	145,442	252,369
Rio Grande City Station to Anzalduas Dam	2,466	2,067	4,533	63,181	0	63,181
Anzalduas Canal				0	198,898	198,898
Above Anzalduas Dam	230,333	225,795	456,128	170,108	344,340	514,448
Anzalduas Dam to Progreso Station(Discontinued)	34	423	457	45,109	2,492	47,601
Above Progreso Gaging Station	230,367	226,218	456,585	215,217	346,832	562,049
Progreso Station to San Benito Station	18	23	41	123,733	1,336	125.069
Above San Benito Gaging Station	230,385	226,241	456,626	338,950	348,168	687,118
San Benito Station to Brownsville Station	36	39	75	27,604	1,182	28,786
Above Brownsville Gaging Station	230,421	226,280	456,701	366,554	349,350	715,904
Brownsville Station to Gulf of Mexico				1,180	0	1,180
Falcon Dam to Gulf of Mexico - excluding Rio Alamo and Rio San Juan				262,316	203,908	466,224
Amistad Dam to Gulf of Mexico excluding above tributaries				297,106	206,599	503,705
Above Gulf of Mexico				367,734	349,350	717,084

a) Includes 15,142 hectares irrigated from the Maverick Canal below Mile 13 gaging station.
b) Includes 45 hectares irrigated from small reservoirs.

08-4507.00 SUPPLEMENTARY DATA - INTERNATIONAL AMISTAD RESERVOIR
DEDUCED INFLOWS

Considering that a knowledge of the mean daily inflows reaching the International Amistad Reservoir would serve a useful purpose, such data have been deduced for 2006 showing the flows as closely as they can be approximated. These data are based on the daily operation of the International Amistad Reservoir, taking into account: a) record of gage heights at the dam; b) releases; c) filtrations; d) elevation-area-capacity tables based on 1992 survey; and e) rate of evaporation measured at the dam.

Flow contributions from different sources, river channel losses, reservoir evaporation, accuracy of gage-height records, displacement due to wind action on the reservoir, and bank storage and return incident to changes in reservoir level, all tend to cause variations in the deduced determinations; and the inflows shown below should not necessarily be in agreement with the combined flow of the Rio Grande at Foster Ranch, Pecos River near Langtry, and Devils River at Pafford Crossing.

In spite of the deficiencies noted above and others that may occur, the data shown below represent a reasonable approximation of the flows entering the International Amistad Reservoir.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	50.1	41.4	48.0	65.0	45.2	47.3	38.7	33.7	94.4	130	46.8	31.5
2	47.9	44.3	48.9	65.5	50.7	48.0	47.1	53.4	57.3	117	43.4	31.9
3	47.3	43.5	47.6	65.0	66.5	48.2	40.1	53.9	67.6	105	40.2	29.5
4	47.4	44.1	48.1	62.1	89.4	43.8	44.4	94.1	54.2	102	40.4	28.1
5	45.9	48.3	53.0	61.3	85.5	36.6	42.8	96.7	74.6	95.1	43.0	25.8
6	43.2	42.5	53.6	58.8	77.7	34.2	45.9	78.9	92.4	85.9	42.8	27.8
7	40.8	38.0	51.7	56.0	54.7	38.1	37.8	111	101	77.6	42.4	24.0
8	42.3	38.5	49.3	50.6	60.3	40.8	42.3	105	72.8	67.6	38.4	20.4
9	43.9	38.9	51.0	47.7	61.6	43.6	34.0	88.0	78.4	65.0	43.8	18.8
10	40.0	40.8	50.5	42.9	59.4	39.4	38.8	68.6	80.1	73.1	51.3	21.9
11	40.5	38.5	49.0	40.5	53.7	38.2	30.1	55.0	64.5	68.9	47.1	27.7
12	39.9	36.1	49.1	41.2	42.9	33.9	31.1	53.0	77.9	70.6	41.7	26.1
13	40.3	34.8	45.1	46.6	41.3	35.8	27.9	50.0	67.7	74.8	38.3	28.9
14	36.0	34.8	41.7	46.9	64.7	38.2	41.3	55.8	62.3	66.3	38.5	31.8
15	36.3	31.2	42.5	49.5	72.8	29.0	40.8	59.1	98.5	71.5	36.4	36.0
16	39.0	35.5	40.9	52.2	76.2	24.9	43.5	77.5	117	73.3	29.0	33.6
17	39.4	38.1	41.7	55.2	51.3	30.7	38.0	69.1	131	81.9	29.8	37.5
18	36.8	34.2	41.7	57.2	48.4	47.9	40.2	62.0	131	143	30.4	38.4
19	32.7	33.0	41.2	59.8	41.9	52.7	34.2	58.3	142	90.1	35.8	42.3
20	38.1	32.0	46.0	63.9	43.2	47.6	38.6	64.1	135	62.9	33.5	44.0
21	35.2	34.7	45.0	56.9	39.6	30.7	38.6	61.8	152	57.3	31.8	43.0
22	34.8	37.6	43.9	53.5	39.8	29.5	44.4	50.7	154	47.0	33.6	42.3
23	33.6	38.7	40.0	50.6	40.1	30.1	47.1	48.0	171	41.2	37.6	40.7
24	37.8	40.1	38.1	64.6	40.9	44.9	37.8	43.3	173	41.9	31.9	38.3
25	37.4	41.5	35.4	66.5	40.4	49.0	36.3	44.4	177	48.2	35.9	35.5
26	34.9	38.9	33.2	57.4	44.4	53.3	32.2	41.3	167	42.9	34.1	36.5
27	38.8	38.9	36.0	47.0	40.8	45.2	40.4	47.3	151	45.5	36.0	34.5
28	43.6	43.2	41.7	50.6	52.0	44.6	28.0	55.8	141	48.0	38.2	34.6
29	44.0		42.8	50.5	39.6	36.8	32.4	72.4	141	45.2	38.6	35.0
30	40.2		50.0	46.5	47.7	43.2	24.2	82.5	131	43.6	35.6	34.1
31	39.8		54.0		43.3		38.9	129		44.4		34.2
Sum	1,082.1	1,247.9	1,400.7	1,632.0	1,656.0	1,206.2	1,177.9	2,063.7	3,357.7	2,226.8	1,146.3	1,014.7

Month	Current Year 2006: Extreme Gage Meters High	Extreme Gage Meters Low	Extreme-Cubic Meters per Second @ High Day	@ High	@ Low Day	@ Low	Average	Total	Period 1977-2006: Volume-Thousand Cubic Meters Average	Maximum	Minimum
Jan.			1	50.1	19	32.7	40.3	107,819	144,400	368,798	93,044
Feb.			5	48.3	15	31.2	38.6	93,493	139,426	432,864	79,713
Mar.			31	54.0	26	33.2	45.2	121,020	157,719	322,164	81,276
April			25	66.5	11	40.5	54.4	141,005	163,470	437,055	77,250
May			4	89.4	!21	39.6	53.4	143,078	207,329	472,211	104,422
June			26	53.3	16	24.9	40.2	104,216	227,128	562,118	104,216
July			2	47.1	30	24.2	38.0	101,771	223,564	496,282	101,771
Aug.			31	129	1	33.7	66.6	178,304	286,951	1,037,318	107,940
Sept.			25	177	4	54.2	112	290,105	303,961	1,624,752	79,376
Oct.			18	143	23	41.2	71.8	192,396	320,250	1,172,715	82,132
Nov.			10	51.3	16	29.0	38.2	99,040	170,551	560,631	88,007
Dec.			20	44.0	9	18.8	32.7	87,670	130,089	321,211	85,916
Yearly				177		18.8	52.6	1,659,917	2,474,838	5,003,493	1,386,893

@ Mean daily ! And other days

08-4611.00 SUPPLEMENTARY DATA - INTERNATIONAL FALCON RESERVOIR
DEDUCED INFLOWS

Considering that a knowledge of the mean daily inflows reaching the International Falcon Reservoir would serve a useful purpose, such data have been deduced for 2006 showing the flows as closely as they can be approximated. These data are based on the daily operation of the International Falcon Reservoir, taking into account: a) record of gage heights at the dam; b) releases as measured at both hydroelectric plants and outlet works; c) elevation-area-capacity tables based on 1992 survey; and d) rate of evaporation measured at the dam and Nueva Cd. Guerrero.

Flow contributions from different sources, irrigation diversion between Laredo and Falcon, river channel losses, reservoir evaporation, accuracy of gage-height records, displacement due to wind action on the reservoir, and bank storage and return incident to changes in reservoir level, all tend to cause variations in the deduced determinations; and the inflows shown below should not necessarily be in agreement with the combined flow of the Rio Grande at Laredo and the Rio Salado at Las Tortillas.

In spite of the deficiencies noted above and others that may occur, the data shown below represent a reasonable approximation of the flows entering the International Falcon Reservoir.

MEAN DAILY DISCHARGE IN CUBIC METERS PER SECOND 2006 --- ANNUAL AND PERIOD SUMMARY

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	59.8	59.5	56.1	130	80.6	76.8	59.9	26.6	6.66	141	43.2	11.9
2	25.4	30.2	90.9	55.5	61.5	70.8	60.9	20.8	33.0	122	20.9	35.2
3	38.8	68.2	65.4	65.4	67.2	50.3	79.5	41.4	30.8	57.8	0	19.7
4	66.0	63.5	62.5	53.9	81.9	45.3	62.1	23.6	11.6	56.5	7.51	17.8
5	32.5	82.4	81.0	74.1	113	43.1	44.1	25.1	20.5	74.3	35.1	62.6
6	6.69	50.8	71.8	88.2	107	59.7	60.3	50.0	12.9	56.1	34.0	66.2
7	53.3	37.2	67.1	69.3	115	46.4	39.4	50.0	18.3	27.2	10.9	111
8	35.1	35.8	85.6	35.0	62.1	32.8	50.6	25.7	37.2	20.1	17.7	54.9
9	42.8	90.3	54.4	49.2	80.6	44.8	57.8	25.6	29.0	23.1	50.7	71.2
10	11.8	54.1	81.8	33.9	147	50.2	23.4	30.2	11.4	37.8	19.2	57.4
11	39.8	50.5	52.9	64.7	68.9	38.9	32.0	34.3	27.5	43.2	14.5	80.0
12	68.4	69.3	77.1	60.2	58.7	45.4	42.2	26.6	218	29.2	26.9	50.0
13	47.3	47.3	78.7	46.9	76.8	18.5	31.5	24.4	360	117	23.2	64.7
14	47.8	74.0	48.9	55.5	215	31.8	22.9	18.8	243	135	26.8	42.9
15	55.1	52.1	57.5	77.2	265	35.5	24.3	43.0	74.9	137	23.8	26.1
16	79.9	89.5	55.4	91.1	169	2.43	51.3	26.5	93.5	56.1	2.51	47.8
17	22.7	93.9	73.0	55.2	95.4	41.8	26.5	32.1	168	27.4	16.7	30.6
18	56.9	45.0	78.2	63.0	83.6	40.5	24.9	19.0	234	26.6	19.1	40.8
19	66.4	28.8	104	54.1	93.0	11.2	20.9	30.5	278	20.2	24.6	14.1
20	101	61.8	65.0	93.5	80.6	15.5	37.9	43.8	181	23.6	21.3	49.9
21	77.4	58.7	60.8	61.6	84.7	26.0	40.6	25.0	86.8	25.7	12.8	24.6
22	69.2	121	61.3	61.1	65.0	19.8	37.7	35.6	52.6	19.7	20.0	31.9
23	18.8	49.2	60.9	80.3	56.6	82.9	31.7	34.8	54.7	25.0	18.5	59.4
24	43.9	80.1	14.9	94.6	60.6	42.9	9.83	5.42	550	11.1	12.2	58.2
25	49.1	61.4	23.8	201	39.4	48.7	32.4	31.5	246	23.6	43.7	24.0
26	40.0	58.3	67.5	72.2	57.8	30.1	16.4	23.7	209	34.7	1.81	15.9
27	68.4	70.5	75.1	64.1	65.7	24.1	30.4	25.4	108	27.0	25.7	36.0
28	53.0	67.0	71.8	72.2	57.4	49.1	19.7	44.1	86.3	0	16.3	22.9
29	71.4		52.5	57.4	64.2	51.5	23.9	26.1	127	.67	35.2	44.2
30	41.8		58.9	50.0	51.9	77.0	25.0	20.4	133	24.1	23.7	43.9
31	61.5		72.2		44.6		25.2	26.6		32.4		24.3
Sum	1,750.4	1,551.99	2,130.4	2,027.0	1,253.83	2,769.8	916.62	1,145.23	1,455.17	3,742.66	1,340.1	648.53

Current Year 2006						Period 1968-2006		
	Extreme Gage Meters		Extreme-Cubic Meters per Second			Volume-Thousand Cubic Meters		
Month	High	Low	@ High Day	@ High	@ Low Day	@ Low	Average	Total	Average	Maximum	Minimum
Jan.			20	101	6	6.69	50.1	134,092	150,033	311,728	47,600
Feb.			22	121	19	28.8	62.5	151,235	177,633	558,835	50,610
Mar.			19	104	24	14.9	65.4	175,133	200,923	552,528	55,251
April			25	201	10	33.9	71.0	184,067	242,562	705,205	61,564
May			15	265	25	39.4	89.3	239,311	363,328	948,240	125,635
June			23	82.9	16	2.43	41.8	108,331	313,065	950,659	57,491
July			3	79.5	24	9.83	36.9	98,948	277,212	1,302,981	41,298
Aug.			! 6	50.0	24	5.42	29.6	79,196	263,802	1,262,218	69,984
Sept.			24	550	1	6.66	125	323,366	371,845	1,779,529	77,734
Oct.			1	141	28	0	46.9	125,727	345,135	1,684,800	45,704
Nov.			9	50.7	3	0	21.6	56,033	177,321	664,762	50,154
Dec.			7	111	1	11.9	43.2	115,785	146,634	376,047	43,033
Yearly				550		0	56.8	1,791,224	3,029,493	7,690,727	1,419,986

@ Mean daily ! And other days

WATER BULLETIN NUMBER 76 -- INTERNATIONAL BOUNDARY AND WATER COMMISSION

CORRECTIONS TO PREVIOUS WATER BULLETINS

FOREWORD

2005 Bulletin, Page 4, Correction in the 5th paragraph, should read that major reservoirs in the basin have a total storage capacity of approximately 15,107,600 thousand cubic meters - - (NOT 15,113,600).

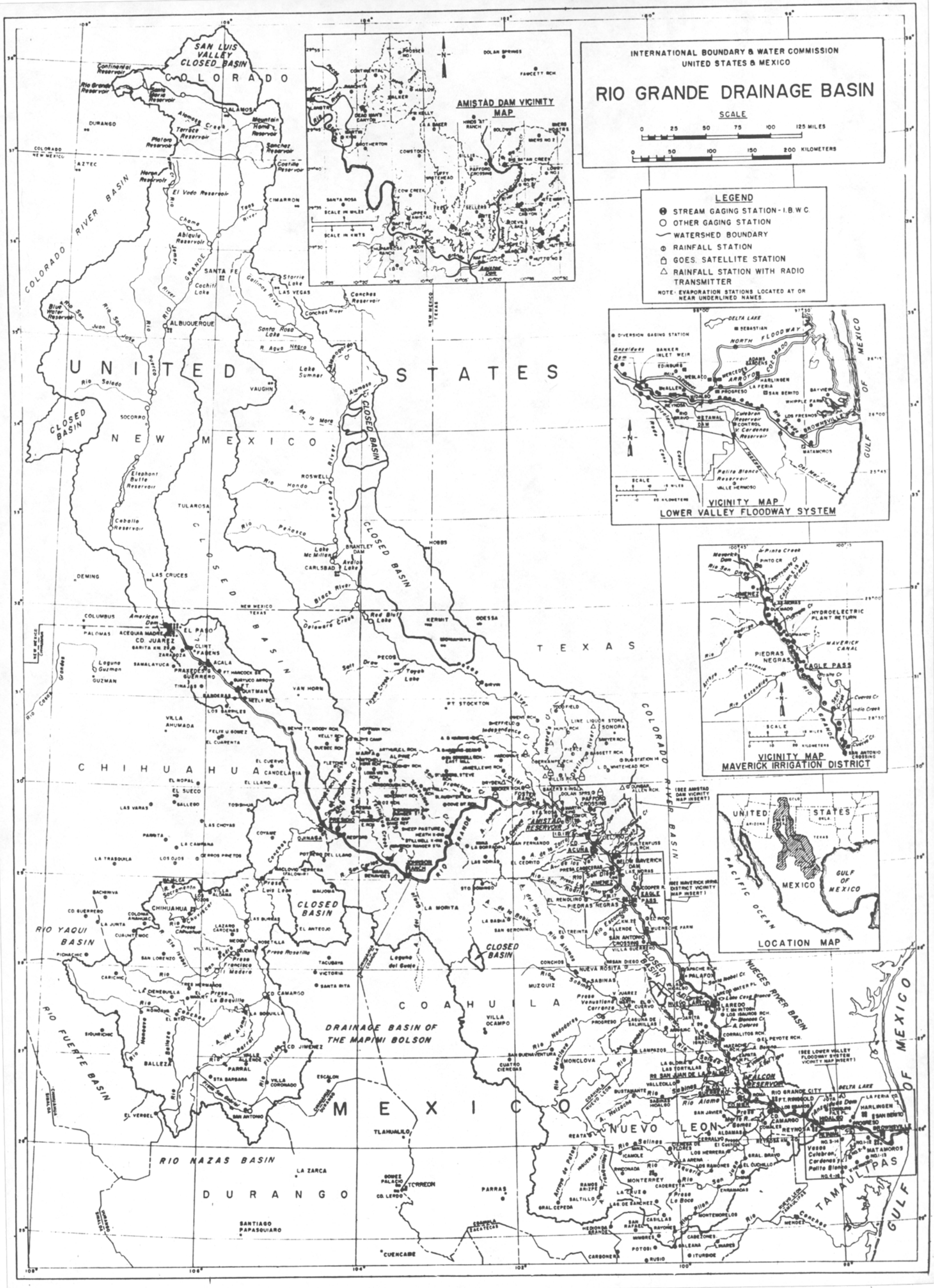
GENERAL HYDROLOGIC CONDITIONS FOR 2005

2005 Bulletin, Page 6, Correction in the 8th paragraph, should read that Diversions from the Rio Grande in the United States were 98% of average - - (NOT 79%).

STORED WATER IN LARGE RESERVOIRS OF THE RIO GRANDE BASIN

2005 Bulletin, Page 84, Correction for the capacity of Marte R. Gomez, should read 830.0 - - (NOT 995.00).

2005 Bulletin, Page 84, Correction for the capacity of Total in Mexican Reservoirs, should read 7,490.2 - - (NOT 7,655.2).


INTERNATIONAL BOUNDARY & WATER COMMISSION
UNITED STATES & MEXICO
RIO GRANDE DRAINAGE BASIN
SCALE
0 25 50 75 100 125 MILES
0 50 100 150 200 KILOMETERS
LEGEND
STREAM GAGING STATION - I.B.W.C.
OTHER GAGING STATION
WATERSHED BOUNDARY
RAINFALL STATION
GOES. SATELLITE STATION
RAINFALL STATION WITH RADIO TRANSMITTER
NOTE: EVAPORATION STATIONS LOCATED AT OR NEAR UNDERLINED NAMES
AMISTAD DAM VICINITY MAP
VICINITY MAP
LOWER VALLEY FLOODWAY SYSTEM
VICINITY MAP
MAVERICK IRRIGATION DISTRICT
LOCATION MAP
UNITED STATES
MEXICO
GULF OF MEXICO
PACIFIC OCEAN
SAN LUIS VALLEY CLOSED BASIN
COLORADO
COLORADO RIVER BASIN
UNITED STATES
NEW MEXICO
TEXAS
CHIHUAHUA
COAHUILA
NUEVO LEON
TAMAULIPAS
DURANGO
MEXICO
CLOSED BASIN
RIO YAQUI BASIN
RIO FUERTE BASIN
RIO NAZAS BASIN
DRAINAGE BASIN OF THE MAPIMI BOLSON
NUECES RIVER BASIN
GULF OF MEXICO
ALBUQUERQUE
SANTA FE
LAS VEGAS
ROSWELL
CARLSBAD
EL PASO
CD. JUAREZ
DEL RIO
EAGLE PASS
PIEDRAS NEGRAS
LAREDO
MONTERREY
SALTILLO
TORREON
CHIHUAHUA
DURANGO
SAN ANTONIO
AMISTAD RESERVOIR
FALCON RESERVOIR
ELEPHANT BUTTE RESERVOIR
CONCHOS RESERVOIR
LAKE SUMNER
BRANTLEY DAM
LAKE McMILLAN
RED BLUFF LAKE
ALAMOSA
DURANGO
AZTEC
CIMARRON
VAUGHN
SOCORRO
TULAROSA
DEMING
LAS CRUCES
COLUMBUS
PALOMAS
VAN HORN
PECOS
HOBBS
KERMIT
ODESSA
BRYAN
PT. STOCKTON
SONORA
MEXICO
GULF OF MEXICO
TAMAULIPAS
NUEVO LEON
COAHUILA
CHIHUAHUA
DURANGO
SANTIAGO PAPASQUIARO
CUENCAME
LA ZARCA
PARRAS
MONTERREY
SALTILLO
TORREON
CD. LERDO
GOMEZ PALACIO
MATAMOROS
BROWNSVILLE
HARLINGEN
SAN BENITO
PROGRESO
BAYVIEW
WHIPPLE FARM
LOS FRESNOS
DELTA LAKE
SEBASTIAN
NORTH FLOODWAY
ADAMS GARDENS
MERCEDES
ARROYO COLORADO
WESLACO
EDINBURG
BANKER INLET WEIR
Anzalduas Dam
DIVERSION GAGING STATION
PROGRESO
HIDALGO
ALLENDE
SAN ANTONIO CROSSING
PIEDRAS NEGRAS
EAGLE PASS
MAVERICK CANAL
HYDROELECTRIC PLANT RETURN
PINTO CR
Pinto Creek
Maverick Dam
Rio San Diego
Rio San Antonio
Rio Escondido
Cuevas Cr
Indio Creek
SAN ANTONIO CROSSING
SCALE
0 10 20 KILOMETERS
10 MILES
AMISTAD DAM VICINITY MAP INSERT
LOWER VALLEY FLOODWAY SYSTEM VICINITY MAP INSERT
MAVERICK IRRIG. DISTRICT VICINITY MAP INSERT