

Water-Data Report 2007

08377200 Rio Grande at Foster Ranch near Langtry, TX

Rio Grande-Amistad Basin
Amistad Reservoir Subbasin

LOCATION.--Lat 29°46'50", long 101°45'20" referenced to North American Datum of 1927, Val Verde County, TX, Hydrologic Unit 13040212, at gaging station 0.1 mi downstream from Terrell-Val Verde County line, 12.3 mi west of Langtry, and 597.2 mi downstream from the American Dam at El Paso.

DRAINAGE AREA.--80,742 mi², United States and Mexico; from International Boundary and Water Commission Water Bulletin No. 44.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Apr. 1974 to Sept. 6, 2007 (discontinued).

BIOCHEMICAL DATA: Oct. 1975 to Aug. 1982, Oct. 1995 to Sept. 6, 2007 (discontinued).

PESTICIDE DATA: July 1975 to June 1982, Oct. 1995 to Sept. 6, 2007 (discontinued).

SEDIMENT DATA: Oct. 1974 to Sept. 6, 2007 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1974 to Sept. 1981 (local observer).

WATER TEMPERATURE: Oct. 1974 to Sept. 1981 (local observer).

REMARKS.--Instantaneous discharges published in the table were provided directly by International Boundary and Water Commission. Records of daily mean discharge for water year 2007 are published in International Boundary and Water Commission Water Bulletins Nos. 76 and 77. Since Sept. 1995, suspended sediment chemistry and quality assurance data for this station may be obtained from the U.S. Geological Survey Texas Water Science Center upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,110 microsiemens/cm, Dec. 4, 1974; minimum daily, 225 microsiemens/cm, May 2, 1981.

WATER TEMPERATURE: Maximum daily, 32.0°C, June 13, 1977, July 25, 26, 1979, July 4, 1980, and June 8, 1981; minimum daily, 9.0°C, Jan. 12, 1975, Jan. 8, 1976, and Jan. 18, 1981.

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 10

[Remark codes: <, less than; E, estimated. Value qualifier codes: +, improper preservation; c, see laboratory comment; d, diluted sample: method hi range exceeded; e, see field comment; m, value is highly variable by this method; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specific conductance, wat unf lab, µS/cm 25 degC (90095)	Specific conductance, wat unf lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Feb													
14...	1130	1.84	419	30	734	E11.4	--	8.2	8.2	1,990	1,940	13.9	420
Mar													
14...	1200	1.71	305	480d	726	6.9e	79	7.8	7.6	1,110	1,100	19.1	270
Apr													
25...	1130	1.69	290	77	729	8.2	103	8.2	8.2	1,430	1,430	24.3	350
May													
23...	1200	3.90	4,740	16,400d	728	6.1	76	7.6	7.8	807	778	23.6	220
Jul													
18...	1120	3.11	2,390	E20,800d	731	6.9	90	7.6	7.7	906	900	26.5	270
Aug													
15...	1230	2.53	1,300	1,320d	731	6.8	93	8.2	8.3d	1,220d	1,220	29.0	300
Sep													
06...	1100	1.89	468	120	728	7.6	100	7.8	7.5	1,250	1,270	26.7	310

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 10

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Date	Noncarb hard- ness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium frac- tion of cations percent (00932)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
Feb 14...	250	115d	32.0d	7.13d	5.5	57	259d	172	206	2	292d	1.19	14.3d
Mar 14...	150	77.6	18.4	5.55	3.1	48	115	119	145	<1	123	.78	9.96
Apr 25...	210	96.5	25.8	6.50	3.8	50	161	145	176	<1	142	1.21	21.4
May 23...	120	74.8	7.67	4.66	2.2	42	76.1	105	128	<1	34.0	.72	9.84
Jul 18...	170	92.8	8.84	5.62	2.3	41	86.7	102	124	<1	33.8	.95	12.6
Aug 15...	150	99.5	12.0	6.97	3.2	48	129	152	183	<1	88.9	1.24	17.9
Sep 06...	180	88.8	21.7	6.24	3.5	49	140	137	E166	<1	107	1.17	20.7

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 10

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Date	Sulfate	Residue	Residue	Ammonia	Ammonia	Nitrate			Organic	Organic	Particulate		
	water, fltrd, mg/L (00945)	water, fltrd, sum of constituents mg/L (70301)	on evap. at 180degC wat flt mg/L (70300)	+ org-N, water, fltrd, mg/L as N (00623)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (71846)	Ammonia water, fltrd, mg/L as N (00608)	+ nitrite water fltrd, mg/L as N (00631)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)	nitro-gen, water, fltrd, mg/L (00607)	nitro-gen, water, unfltrd mg/L (00605)	nitro-gen, susp, water, mg/L (49570)
Feb 14...	428d	1,260	1,290	.20	.47	--	E.015n	.346	.34	.004	--	--	.20
Mar 14...	229		715	.45	1.4	.11	.088	.780	.77	.013	.36	1.4	.85
Apr 25...	363d	909	957	.16	.70	--	<.020	.515	.51	.002	--	--	.27
May 23...	224	499	527	.27	--	--	<.020	.662	.66	.004	--	--	10.7
Jul 18...	276	584	611	.25	--	--	<.020	.963	.96	.002	--	--	E19.0c
Aug 15...	319d	769	825	.28	1.9	--	<.020	.666d	.66	.003	--	--	2.42
Sep 06...	328d		865	.16	.36	--	<.020	.545	.54	.004	--	--	.41

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 10

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Date	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd sediment total, mg/L (00694)	Inorganic carbon, suspnd sediment total, mg/L (00688)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Aluminum, water, fltrd, µg/L (01106)	Antimony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)
Feb 14...	.55	.81	.020	.007	E.005n	.046	2.3	<.1	2.3	2.3	E.9n	E.16nd	2.7
Mar 14...	1.2	2.2	--	<.006	E.005n	.343d	17.9	11.2	6.7	3.9	8.0	.16	1.6
Apr 25...	.67	1.2	.018	.006	E.004n	.088	5.0	.2	4.9	1.6	E.8n	.24	3.8
May 23...	.93		--	E.006n	.008	1.71+oc	314	223	91.3	3.6	2.3	.42	1.4
Jul 18...	1.2		.027	.009	.008	.96+oc	E529c	E304c	E225c	3.4	5.0	.53	1.4
Aug 15...	.95	2.6	.058	.019	.014	.97oc	55.1	1.2	53.9	3.0	3.5	.38	3.9
Sep 06...	.70	.90	.028	.009	E.004n	.104d	7.0	1.2	5.8	1.6	--	.26	3.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 10

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Date	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Cobalt, water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium, water, fltrd, µg/L (01130)	Manganese, water, fltrd, µg/L (01056)	Molybdenum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)
Feb 14...	88	<.06	296d	<.16d	E.07n	.16	.69	<30d	E.07n	138d	2.6	9.7	1.4
Mar 14...	104	<.06	182d	<.04	E.07n	.24	.84	7	<.12	64.4	4.8	6.3	.97
Apr 25...	107	<.06	278d	E.02n	E.07n	.06	.41	<6	<.12	95.1	1.2	9.2	.76
May 23...	89	<.06	97d	<.04	<.12	.10	1.4	<6	<.12	35.1	.3	5.7	1.1
Jul 18...	91	<.06	152d	E.02n	<.12	.10	5.7	<6	.67	22.8	.5	9.5	1.3
Aug 15...	120	<.06	232d	<.04	E.09n	.11	1.1	E3n	<.12	62.1	.3	8.4	1.2
Sep 06...	135	<.06	345d	<.04	--	.09	--	--	.36	78.3	--	8.9	--

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 10

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Date	Selenium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Strontium, water, fltrd, µg/L (01080)	Vanadium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	2,6-Di-ethyl- aniline water, fltrd 0.7u GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF µg/L (82673)
Feb 14...	.97	E.1n	2,460	3.6	.86	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006
Mar 14...	.83	<.1	1,320	2.7	--	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006
Apr 25...	1.3	<.1	2,240	5.7	E.54n	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006
May 23...	1.1	<.1	1,300	4.0	1.4	<.002	<.014mc	<.006	<.005	<.002	E.005n	<.080mc	<.006
Jul 18...	2.2	<.1	1,290d	4.2	6.1	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006
Aug 15...	1.1	<.1	2,000	7.7	<.60	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006
Sep 06...	1.2	<.1	1,980	5.8	--	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 10

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Date	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd, 0.7u GF µg/L (82680)	Carbo- furan, water, fltrd, 0.7u GF µg/L (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7u GF µg/L (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7u GF µg/L (82677)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF µg/L (82663)
Feb 14...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009
Mar 14...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	E.003n	<.012	<.005	<.009	<.02mc	<.003	<.009
Apr 25...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.006	<.009
May 23...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.005	<.009
Jul 18...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009
Aug 15...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.004	<.009
Sep 06...	<.002	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 8 of 10

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Date	Etho- prop, water, fltrd 0.7u GF µg/L (82672)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)	Fipro- nil sulfide water, fltrd, µg/L (62167)	Fipro- nil sulfone water, fltrd, µg/L (62168)	Fipro- nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water, fltrd 0.7u GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7u GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7u GF µg/L (82671)
Feb 14...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002
Mar 14...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002
Apr 25...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002
May 23...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002
Jul 18...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002
Aug 15...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002
Sep 06...	<.012	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 9 of 10

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Date	Naprop- amide, water, fltrd 0.7u GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7u GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF µg/L (82683)	Phorate water, fltrd 0.7u GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7u GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7u GF µg/L (82679)	Propar- gite, water, fltrd 0.7u GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water, fltrd 0.7u GF µg/L (82670)
	Feb 14...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006
Mar 14...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02
Apr 25...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	E.01n
May 23...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02
Jul 18...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02
Aug 15...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02
Sep 06...	<.018	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02

08377200 Rio Grande at Foster Ranch near Langtry, TX—Continued

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Part 10 of 10

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Date	Terba- cil, water, fltrd 0.7u GF µg/L (82665)	Terbu- fos, water, fltrd 0.7u GF µg/L (82675)	Thio- bencarb water, fltrd 0.7u GF µg/L (82681)	Tri- allate, water, fltrd 0.7u GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF µg/L (82661)	Uranium natural water, fltrd, µg/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
Feb									
14...	<.040mc	<.01	<.010	<.006	<.006	5.24	95	37	42
Mar									
14...	<.040mc	<.01	<.010	<.006	<.006	3.08	99	530	436
Apr									
25...	<.040mc	<.01	<.010	<.006	<.006	5.42	99	120	94
May									
23...	<.040mc	<.01	<.010	<.006	<.006	3.35	100	77	985
Jul									
18...	<.040mc	<.01	<.010	<.006	<.006	3.18	100	22,300	144,000
Aug									
15...	<.040mc	<.01	<.010	<.006	<.006	5.87	100	1,580	5,570
Sep									
06...	<.040mc	<.01	<.010	<.006	<.006	4.97	100	132	167