



Water-Data Report 2007

08447410 Pecos River near Langtry, TX

Lower Pecos Basin
Lower Pecos Subbasin

LOCATION.--Lat 29°48'10", long 101°26'45" referenced to North American Datum of 1927, Val Verde County, TX, Hydrologic Unit 13070008, at gaging station 7.4 mi east of Langtry, and 15.0 mi upstream from confluence with the Rio Grande.

DRAINAGE AREA.--44,015 mi² of which 8,836 mi² probably is noncontributing, (revised).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1954 to Aug. 14, 2007 (discontinued).

BIOCHEMICAL DATA: Oct. 1974 to Aug. 14, 2007 (discontinued).

PESTICIDE DATA: July 1975 to June 1982, Oct. 1995 to Aug. 14, 2007 (discontinued).

SEDIMENT DATA: Oct. 1974 to Aug. 14, 2007 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1970 to Sept. 1976 and Oct. 1980 (local observer), Nov. 1980 to Sept. 1985.

WATER TEMPERATURE: Oct. 1970 to Sept. 1976 and Oct. 1980 (local observer), Nov. 1980 to Sept. 1985.

INSTRUMENTATION.--Water-quality monitor Nov. 1980 to Sept. 1985.

REMARKS.--Instantaneous discharges published in the table were provided 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 Oct. 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, 6,000 microsiemens/cm, Mar. 21, 22, 1981; minimum, 230 microsiemens/cm, Oct. 11, 1981.

WATER TEMPERATURE: Maximum, 32.5°C, June 8, 1981; minimum, 1.5°C, Dec. 26, 27, 1983.

08447410 Pecos River near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 9

[Remark codes: <, less than; E, estimated. Value qualifier codes: c, see laboratory comment; d, diluted sample; method hi range exceeded; m, value is highly variable by this method; n, below the LRL and above the LT-MDL. Null value qualifier codes: e, required equipment not functional/avail.]

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Turbidity			Dissolved oxygen, mg/L (00300)	pH, water, field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specific conductance, µS/cm 25 degC (90095)	Specific conductance, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
				white light, det ang 90+/-30	Barometric pressure, mm Hg (00025)	Dissolved oxygen, percent of saturation (00301)							
Feb 13...	1100	1.83	148	<2.0	733	11.5	117	8.2	8.0	4,400	4,300	13.5	840
Mar 13...	1100	1.85	154	<2.0	732	9.2	107	--e	7.5	4,340	4,420	20.1	850
Apr 24...	1030	1.98	194	<2.0	727	8.2	102	8.6	8.3	3,830	3,810	23.5	710
May 22...	1200	2.34	336	2.5	727	8.7	108	8.2	8.4	2,370	2,380	22.9	490
Jun 19...	1030	2.54	495	3.2	733	11.5	154	8.2	8.3	2,060	2,050	28.1	450
Jul 17...	1030	2.31	192	<2.0	730	7.3	99	8.1	8.3	1,940	1,900	28.5	390
Aug 14...	1030	2.36	351	<2.0	732	7.5	103	8.1	8.3	2,880	2,900	29.5	540

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 9

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Date	Noncarb hard-ness, wat flt field, water, mg/L as CaCO3 (00904)				Magnes-ium, water, mg/L (00915)			Potas-sium, water, mg/L (00925)		Sodium adsorp-tion ratio (00931)		Sodium frac-tion of cations (00932)		Alka-licity, wat flt inc tit (00930)		Bicar-bonate, wat flt incr. titr., (00936)		Carbon-ate, wat flt incr. titr., (00945)		Chlor-ide, wat fltrd, (00940)		Fluor-ide, wat fltrd, (00950)		Silica, water, fltrd, (00955)	
	Calcium mg/L (00915)	Magnes-ium, water, mg/L (00925)	Potas-sium, water, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium frac-tion of cations (00932)	Sodium, water, mg/L (00930)	Sodium, water, mg/L (00936)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)	Sodium, water, mg/L (00945)		
Feb 13...	690	185d	91.6d	9.25d	8.6	59	572d	151	181	1	1,010d	.92	10.1d												
Mar 13...	720	181d	95.0d	9.48d	9.2	61	612d	124	149	1	1,040d	.88	9.45d												
Apr 24...	560	153dc	78.1dc	8.24dc	8.1	60	495dc	143	172	1	866d	.87	9.18dc												
May 22...	290	121d	46.2d	6.01d	5.4	54	274d	199	239	1	457d	.73	17.1d												
Jun 19...	290	106d	43.1d	5.39d	5.2	55	250d	151	181	1	395d	.81	18.3d												
Jul 17...	250	91.5	39.1	5.06	4.9	55	220	146	178	<1	368d	.78	18.0												
Aug 14...	390	121d	57.1d	6.90d	7.0	60	374d	155	187	1	599d	.84	16.1d												

08447410 Pecos River near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 9

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Date	Sulfate water, fltrd, mg/L (00945)	Residue water, sum of constituents, 180degC wat flt (70301)	Residue on evap. at 180degC (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + 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)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Organic nitrogen, water, unfltrd mg/L (00605)	Particulate nitrogen, water, mg/L (49570)
Feb													
13...	610d	2,590	2,750	.24	.16	.04	.033	.51	.50	.006	.20	.13	.03
Mar													
13...	621d	2,650	2,780	.28	.26c	.03	.027	.25	.25	.006	.26	.24	<.02
Apr													
24...	514d	2,220	2,670	.27	.25	--	E.020n	.53	.52	.007	--	--	.03
May													
22...	294d	1,340	1,420	.22	.24	--	<.020	1.50	1.49	.005	--	--	.11
Jun													
19...	248d	1,160	1,240	.16	.32	--	<.020	1.12	1.11	.006	--	--	.05
Jul													
17...	234d	1,070	1,200	.14	.21	--	<.020	.92	.91	.007	--	--	.02
Aug													
14...	362d	1,640	1,730	.20	.20	--	E.010n	.87	.86	.006	--	--	.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 9

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Date	Total nitrogen, water, fltrd, unfltrd mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L as P (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 sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic, water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)
Feb													
13...	.74	.67	--	E.003n	E.004n	E.004n	.1	<.1	<.1	1.1	1.1d	261d	<18d
Mar													
13...	.54	.52	--	E.004n	E.004n	<.008	<.1	<.1	<.1	1.6	1.3d	280d	<18d
Apr													
24...	.80	.78	--	E.004n	<.006	E.005n	.3	<.1	.3	2.3	1.6d	221d	<18dc
May													
22...	1.7	1.7	--	E.005n	<.006	.009	1.0	<.1	1.0	2.4	1.7	191d	<30d
Jun													
19...	1.3	1.4	.019	.006	<.006	.008	.6	<.1	.6	1.9	1.6	171	<12d
Jul													
17...	1.1	1.1	.020	.007	<.006	<.008	.3	<.1	.3	1.6	1.5	160	<6
Aug													
14...	1.1	1.1	.029	.010	<.006	E.004n	.3	<.1	.3	1.4	1.8dc	194d	<18d

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 9

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Date	2,6-Diethyl-aniline												Azin-phos-methyl	Ben-flur-alin	Butyl-
	Lithium water, fltrd, µg/L (01130)	Selenium, water, fltrd, µg/L (01145)	Strontium, water, fltrd, µg/L (01080)	Vanadium, water, fltrd, µg/L (01085)	aniline water, fltrd, 0.7u GF (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)	Atrazine, water, fltrd, µg/L (39632)	0.7u GF (82686)	water, fltrd, µg/L (82673)	water, fltrd, µg/L (07u GF (82673))	water, fltrd, µg/L (04028)	
Feb 13...	84.8d	.90d	3,560d	7.8d	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006	<.002		
Mar 13...	89.4d	.88d	3,680d	7.3d	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006	<.002		
Apr 24...	77.8d	.92d	3,330d	8.3d	<.002	<.014mc	<.006	<.005	<.002	E.004n	<.080mc	<.006	<.002		
May 22...	49.7	.81	2,020	7.6	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006	<.002		
Jun 19...	41.5	.63	1,800	8.1	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006	<.002		
Jul 17...	41.2	.55	1,790	8.9	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006	<.002		
Aug 14...	46.6dc	.83dc	2,520dc	9.5dc	<.002	<.014mc	<.006	<.005	<.002	<.007	<.080mc	<.006	<.002		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 9

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Date	cis-Permethrin						Desulfuryl-fipronil				Disulfoton, EPTC,			Ethalflur-alin,	Ethoprop-
	Carbaryl, water, fltrd, 0.7u GF (82680) µg/L	Carbofuran, water, fltrd, 0.7u GF (82674) µg/L	Chlorpyrifos, water, fltrd, 0.7u GF (38933) µg/L	methrin water, fltrd, 0.7u GF (82687) µg/L	Cyano-zine, water, fltrd, 0.7u GF (04041) µg/L	DCPA, water, fltrd, 0.7u GF (82682) µg/L	fipronil, water, fltrd, 0.7u GF (62170) µg/L	Diazinon, water, fltrd, 0.7u GF (39572) µg/L	Dieldrin, water, fltrd, 0.7u GF (39381) µg/L	foton, water, fltrd, 0.7u GF (82677) µg/L	water, fltrd, 0.7u GF (82668) µg/L	water, fltrd, 0.7u GF (82663) µg/L	water, fltrd, 0.7u GF (82672) µg/L		
Feb 13...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		
Mar 13...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		
Apr 24...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		
May 22...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		
Jun 19...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		
Jul 17...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		
Aug 14...	<.060mc	<.020mc	<.005	<.010	<.018	<.003	<.012	<.005	<.009	<.02mc	<.002	<.009	<.012		

08447410 Pecos River near Langtry, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 9

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Date	Desulf- inyl- ipro- nil amide, wat fltr 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, 0.7u GF 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)	Naprop- amide, water, fltrd 0.7u GF µg/L (82684)
Feb													
13...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018
Mar													
13...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018
Apr													
24...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018
May													
22...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018
Jun													
19...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018
Jul													
17...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018
Aug													
14...	<.029mc	<.013	<.024	<.016mc	<.006	<.004	<.060	<.016	<.008	<.010	<.012	<.002	<.018

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 8 of 9

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Date	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)	Pend- meth- alin, water, fltrd 0.7u GF µg/L (82683)	Phorate water, fltrd 0.7u GF µg/L (82664)	Prome- ton, water, fltrd 0.7u GF µg/L (04037)	Propy- zamide, water, fltrd 0.7u GF µg/L (82676)	Pro- panil, water, fltrd 0.7u GF µg/L (04024)	Propar- pane, water, fltrd 0.7u GF µg/L (82679)	Simazine, water, fltrd 0.7u GF µg/L (82685)	Tebu- thiuron, water, fltrd 0.7u GF µg/L (82670)	Terba- cil, water, fltrd 0.7u GF µg/L (82665)	
Feb													
13...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc
Mar													
13...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc
Apr													
24...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc
May													
22...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc
Jun													
19...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc
Jul													
17...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc
Aug													
14...	<.003	<.010	<.004	<.020	<.020	<.01	<.004	<.010	<.011	<.02	<.006	<.02	<.040mc

08447410 Pecos River near Langtry, TX—Continued

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WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 9 of 9

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Date	Terbu-fos, water, 0.7u GF µg/L (82675)	Thio-bencarb water, 0.7u GF µg/L (82681)	Tri-allate, water, 0.7u GF µg/L (82678)	flur-alin, water, 0.7u GF µg/L (82661)	Suspnd. <.063mm (70331)	Sus-pended sediment, percent (80154)	Sus-pended sediment, concentra-tion mg/L (80155)
Feb							
13...	<.01	<.010	<.006	<.006	54	3	1.2
Mar							
13...	<.01	<.010	<.006	<.006	35	5	2.1
Apr							
24...	<.01	<.010	<.006	<.006	60	3	1.6
May							
22...	<.01	<.010	<.006	<.006	67	2	1.8
Jun							
19...	<.01	<.010	<.006	<.006	99	62	83
Jul							
17...	<.01	<.010	<.006	<.006	98	81	42
Aug							
14...	<.01	<.010	<.006	<.006	100	3	2.8