

Water-Data Report 2007

**08407500 PECOS RIVER AT RED BLUFF, NM**

Upper Pecos Basin  
Upper Pecos-Black Subbasin

LOCATION.--Lat 32°04'30.69", long 104°02'21.97" referenced to North American Datum of 1983, Eddy County, NM, Hydrologic Unit 13060011, on right bank at Red Bluff, 0.2 mi downstream from Red Bluff Draw, 1.6 mi northwest of the El Paso Natural Gas (Pecos River) compressor station, 5.2 mi north of the New Mexico-Texas State line, 5.5 mi upstream from Delaware River, and at mile 411.2.

DRAINAGE AREA.--19,540 mi<sup>2</sup>, approximately (contributing area).

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 2,850.05 ft above NGVD of 1929.

REMARKS.--Records good, except for those estimated, which are poor. Flow regulated by many reservoirs and diversion dams. Diversions and ground-water withdrawals upstream from station for irrigation of about 202,000 acres, 1959 determination. Several from station for irrigation of about 202,000 acres, 1959 determination. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Oct. 1904 reached a stage of 28.0 ft, from information by Panhandle and Santa Fe Railway Co. (For dates of other historical floods see stations 08404000, 08406500.)

## 08407500 PECOS RIVER AT RED BLUFF, NM—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	70	75	93	68	64	59	58	60	52	70	72	52
2	79	89	87	65	64	56	55	92	50	67	128	53
3	84	95	81	66	64	55	52	69	51	65	149	54
4	83	79	78	66	63	52	51	82	50	60	112	60
5	77	75	75	66	62	51	49	67	53	58	90	70
6	71	75	73	66	62	54	50	53	47	224	80	56
7	75	76	72	65	62	59	57	49	43	140	70	53
8	73	75	71	60	63	57	58	55	46	87	65	54
9	73	75	70	56	63	54	57	95	48	95	65	52
10	94	75	69	56	62	52	74	287	61	80	63	243
11	98	74	70	56	61	49	70	139	71	108	59	148
12	88	70	70	56	62	52	61	87	81	119	57	123
13	86	70	70	57	62	59	53	69	73	73	56	119
14	91	72	68	58	67	65	49	63	70	71	55	88
15	104	72	68	62	67	60	58	62	63	65	53	73
16	100	73	69	64	67	53	66	110	58	63	50	65
17	117	69	68	61	64	50	57	82	58	58	49	57
18	86	68	66	60	62	48	57	78	54	58	56	52
19	81	67	65	58	62	48	54	82	64	53	74	52
20	89	68	72	67	61	48	50	74	64	52	68	57
21	85	74	71	75	60	48	55	70	58	79	58	89
22	80	545	73	77	62	48	51	65	53	91	52	277
23	76	882	68	75	60	58	50	63	55	115	49	195
24	76	934	66	71	60	153	55	61	64	92	47	111
25	76	971	66	70	59	312	49	54	62	79	48	90
26	84	976	67	69	65	153	49	55	56	65	50	e85
27	81	931	66	66	58	84	51	67	62	57	52	82
28	70	532	65	64	57	71	57	75	121	55	55	80
29	71	172	68	64	---	65	68	68	97	57	50	72
30	72	111	73	63	---	61	63	62	90	57	52	77
31	79	---	73	64	---	59	---	58	---	62	50	---
<b>Total</b>	2,569	7,620	2,211	1,991	1,745	2,193	1,684	2,453	1,875	2,475	2,034	2,739
<b>Mean</b>	82.9	254	71.3	64.2	62.3	70.7	56.1	79.1	62.5	79.8	65.6	91.3
<b>Max</b>	117	976	93	77	67	312	74	287	121	224	149	277
<b>Min</b>	70	67	65	56	57	48	49	49	43	52	47	52
<b>Ac-ft</b>	5,100	15,110	4,390	3,950	3,460	4,350	3,340	4,870	3,720	4,910	4,030	5,430

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	251	163	127	106	93.3	70.4	68.5	196	166	111	143	254
<b>Max</b>	5,255	1,382	813	703	534	295	823	6,954	3,181	1,273	4,210	6,521
<b>(WY)</b>	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(2004)	(1941)	(1941)	(1941)	(1966)	(1941)
<b>Min</b>	10.0	6.71	8.57	10.7	13.7	7.76	6.38	7.90	4.30	2.55	5.08	5.77
<b>(WY)</b>	(1965)	(1978)	(1978)	(1965)	(1965)	(1978)	(1978)	(1971)	(1990)	(1966)	(1964)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1938 - 2007	
<b>Annual total</b>	33,711		31,589			
<b>Annual mean</b>	92.4		86.5		146	
<b>Highest annual mean</b>					1,655	1941
<b>Lowest annual mean</b>					19.2	1977
<b>Highest daily mean</b>	976	Nov 26	976	Nov 26	50,700	Aug 24, 1966
<b>Lowest daily mean</b>	30	Mar 25	43	Jun 7	0.22	Aug 1, 1966
<b>Annual seven-day minimum</b>	37	Apr 6	48	Jun 3	0.33	Jul 26, 1966
<b>Maximum peak flow</b>			992	Nov 25	<sup>a</sup> 111,000	Aug 23, 1966
<b>Maximum peak stage</b>			7.21	Nov 25	33.32	Aug 23, 1966
<b>Instantaneous low flow</b>			40	Jun 7	0.19	Aug 1, 1966
<b>Annual runoff (ac-ft)</b>	66,870		62,660		105,800	
<b>10 percent exceeds</b>	106		96		202	
<b>50 percent exceeds</b>	70		65		57	
<b>90 percent exceeds</b>	42		52		15	

<sup>a</sup> From rating curve extended above 32,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow.

