

Water-Data Report 2008

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 mi², 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 those for estimated daily discharges, 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.)

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	83	80	78	72	81	74	30	40	33	72	35	31
2	132	101	79	71	77	74	35	41	34	79	37	46
3	96	526	78	71	76	78	36	46	36	87	34	73
4	76	803	76	71	78	80	37	45	33	75	37	29
5	69	868	73	72	80	80	40	41	29	70	39	23
6	66	887	74	74	77	69	42	e53	29	74	32	24
7	65	888	74	74	74	57	36	e66	28	80	31	17
8	64	890	74	74	73	48	34	57	34	70	32	49
9	63	899	75	73	72	e44	35	55	30	80	e33	23
10	62	897	75	79	72	e45	41	50	30	98	33	29
11	71	882	83	111	73	e47	45	46	38	119	27	38
12	69	701	90	138	74	e49	43	45	29	172	26	36
13	65	262	94	136	74	e44	40	40	22	151	19	40
14	57	150	83	125	73	e40	33	41	18	121	19	44
15	52	113	79	115	e71	e36	33	36	23	e81	21	48
16	65	96	78	108	e72	e39	38	35	36	e64	22	44
17	58	89	74	102	73	e43	40	43	49	e61	34	43
18	53	87	74	97	79	e38	47	42	48	e60	45	35
19	60	86	73	94	77	e37	45	41	37	e56	45	e26
20	61	83	74	91	78	e37	42	41	39	e48	41	e23
21	80	81	74	90	79	e36	43	41	58	e44	29	e21
22	87	80	72	90	e77	36	43	38	53	e46	24	e22
23	93	79	74	89	76	37	41	36	56	e47	20	e31
24	81	80	72	88	75	46	38	34	66	e55	18	34
25	87	84	71	89	77	37	38	31	69	e41	17	41
26	86	85	72	89	74	40	45	38	61	e44	22	41
27	81	83	72	88	73	42	43	37	58	e55	22	43
28	73	81	73	88	72	49	40	35	57	e47	26	41
29	74	79	73	90	73	54	42	37	63	e47	28	40
30	73	78	71	89	---	45	42	34	70	e44	31	39
31	73	---	71	80	---	33	---	34	---	39	32	---
Total	2,275	10,198	2,353	2,818	2,180	1,514	1,187	1,299	1,266	2,227	911	1,074
Mean	73.4	340	75.9	90.9	75.2	48.8	39.6	41.9	42.2	71.8	29.4	35.8
Max	132	899	94	138	81	80	47	66	70	172	45	73
Min	52	78	71	71	71	33	30	31	18	39	17	17
Ac-ft	4,510	20,230	4,670	5,590	4,320	3,000	2,350	2,580	2,510	4,420	1,810	2,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	249	166	126	106	93.0	70.1	68.1	194	164	110	141	251
Max	5,255	1,382	813	703	534	295	823	6,954	3,181	1,273	4,210	6,521
(WY)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(2004)	(1941)	(1941)	(1941)	(1966)	(1941)
Min	10.0	6.71	8.57	10.7	13.7	7.76	6.38	7.90	4.30	2.55	5.08	5.77
(WY)	(1965)	(1978)	(1978)	(1965)	(1965)	(1978)	(1978)	(1971)	(1990)	(1966)	(1964)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1938 - 2008	
Annual total	34,015		29,302			
Annual mean	93.2		80.1		145	
Highest annual mean					1,655	1941
Lowest annual mean					19.2	1977
Highest daily mean	899	Nov 9	899	Nov 9	50,700	Aug 24, 1966
Lowest daily mean	43	Jun 7	17	Aug 25	0.22	Aug 1, 1966
Annual seven-day minimum	48	Jun 3	21	Aug 22	0.33	Jul 26, 1966
Maximum peak flow			922	Nov 9	^a 111,000	Aug 23, 1966
Maximum peak stage			7.53	Nov 9	33.32	Aug 23, 1966
Instantaneous low flow			13	Aug 25	0.19	Aug 1, 1966
Annual runoff (ac-ft)	67,470		58,120		105,100	
10 percent exceeds	104		90		200	
50 percent exceeds	65		57		57	
90 percent exceeds	52		31		15	

^aFrom rating curve extended above 32,000 ft³/s, on basis of slope-area measurement of peak flow.

