

Water-Data Report 2007

08408500 DELAWARE RIVER NEAR RED BLUFF, NM

Lower Pecos Basin
Delaware Subbasin

LOCATION.--Lat 32°01'23.31", long 104°03'16.04" referenced to North American Datum of 1983, Eddy County, NM, Hydrologic Unit 13070002, near center of channel on downstream side of pier of bridge on U.S. Highway 285, 2.1 mi north of the New Mexico-Texas State line, 3.6 mi southwest of Red Bluff, 3.7 mi upstream from mouth, and 14 mi south of Malaga. Mouth at Pecos River mile 405.6.

DRAINAGE AREA.--689 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1912 to September 1913, May 1914 to June 1915, October 1937 to current year. Published as "near Malaga" 1912-13, and as "near Angeles, Tex." 1914-15.

GAGE.--Water-stage recorder with satellite telemetry and rain gage. Elevation of gage is 2,900.66 ft above NGVD of 1929 (U.S. Boundary Commission post). Prior to May 1914, at site 3.0 mi upstream at different datum. May 1914 to June 1915, at site 2.5 mi downstream at different datum.

REMARKS.--Records good, except for estimated which are fair. One small upstream diversion. Several observations of water temperature were made during the year.

08408500 DELAWARE RIVER NEAR 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	1.3	1.5	1.9	1.8	2.3	1.5	1.9	3.0	1.1	7.8	2.2	1.6
2	1.4	1.6	1.8	1.8	2.3	1.5	2.0	3.4	1.3	7.6	e2.2	1.4
3	1.6	1.7	1.9	1.9	2.1	1.4	1.9	2.6	1.4	7.5	e2.2	1.4
4	1.8	1.7	1.9	1.9	2.0	1.5	2.0	2.4	1.5	8.0	e2.2	1.4
5	1.8	1.8	1.9	1.9	1.9	1.4	2.0	2.2	5.6	8.0	e2.2	1.5
6	1.8	1.9	2.0	1.9	1.9	1.4	2.0	2.2	2.1	160	e2.2	1.5
7	1.8	1.9	1.9	1.9	1.9	1.5	2.1	2.1	3.0	21	e2.2	1.5
8	1.8	2.0	1.9	1.9	1.9	1.5	2.2	2.4	1.9	13	e2.2	1.8
9	1.9	2.0	1.9	2.0	e1.8	1.5	2.0	3.3	1.9	12	e2.1	1.7
10	2.8	1.9	2.0	2.0	e1.8	1.4	1.9	3.6	2.3	12	e2.0	6.0
11	2.3	1.8	2.0	2.0	e1.7	1.5	1.7	2.7	3.0	12	e2.0	401
12	1.9	1.9	2.0	2.1	e1.7	1.4	1.7	2.3	2.5	18	e1.9	10
13	1.8	1.9	1.9	2.1	e1.7	1.5	1.6	2.1	2.3	15	e3.0	4.1
14	2.9	2.0	2.0	2.0	e1.7	1.5	1.6	1.8	2.2	13	3.2	2.4
15	3.1	1.9	1.9	2.2	e1.7	1.4	1.6	1.6	2.2	66	3.0	1.9
16	3.4	1.9	1.9	2.3	e1.7	1.4	1.6	2.3	2.5	23	2.8	1.7
17	3.5	2.0	1.8	2.3	e1.7	1.4	1.6	2.3	2.9	12	2.8	2.6
18	2.0	2.1	1.8	2.3	1.7	1.4	1.6	2.1	4.1	9.1	2.7	4.3
19	1.5	2.0	1.9	2.4	1.6	1.5	1.6	1.8	3.1	7.2	e3.3	2.0
20	1.5	2.0	2.1	2.8	1.6	1.5	1.6	1.7	3.2	6.1	e3.5	2.0
21	1.6	2.1	1.9	3.0	1.6	1.5	1.6	1.5	3.3	6.9	e3.0	99
22	1.5	2.1	1.9	2.7	1.7	1.6	1.5	1.4	3.5	77	2.1	19
23	1.5	2.1	1.9	2.7	1.7	55	1.5	1.3	3.6	49	e2.5	5.3
24	1.6	2.1	1.9	2.7	1.6	80	1.5	1.2	3.8	11	e2.5	3.5
25	1.7	2.1	1.9	2.6	1.6	3.0	1.4	1.2	3.9	6.4	2.1	2.9
26	1.6	2.1	1.8	2.5	1.4	2.0	1.4	1.2	4.6	4.4	1.9	2.7
27	1.5	2.1	1.8	2.4	1.4	1.6	1.4	1.2	6.7	3.8	1.8	2.6
28	1.5	2.1	1.8	2.4	1.5	1.7	1.4	1.3	10	e3.5	1.7	2.6
29	1.5	2.1	1.9	2.4	---	1.9	2.0	1.3	15	e3.1	1.7	3.5
30	1.5	1.9	1.8	2.3	---	1.8	2.2	1.2	8.6	e2.7	1.6	3.5
31	1.5	---	1.8	2.3	---	1.9	---	1.2	---	2.3	1.6	---
Total	58.9	58.3	58.8	69.5	49.2	181.1	52.1	61.9	113.1	608.4	72.4	596.4
Mean	1.90	1.94	1.90	2.24	1.76	5.84	1.74	2.00	3.77	19.6	2.34	19.9
Max	3.5	2.1	2.1	3.0	2.3	80	2.2	3.6	15	160	3.5	401
Min	1.3	1.5	1.8	1.8	1.4	1.4	1.4	1.2	1.1	2.3	1.6	1.4
Ac-ft	117	116	117	138	98	359	103	123	224	1,210	144	1,180

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
Mean	26.4	3.22	2.99	3.06	2.88	2.67	5.72	8.46	17.5	12.8	20.3	21.1
Max	748	18.9	7.99	8.57	8.77	9.44	135	233	281	166	326	303
(WY)	(1956)	(1979)	(1987)	(1987)	(1987)	(1987)	(1954)	(1941)	(1938)	(1952)	(1966)	(1978)
Min	0.00	0.00	0.00	0.00	0.13	0.42	0.23	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(2002)	(2002)	(2002)	(1966)	(1993)	(1968)	(2001)	(1950)	(1947)	(1983)	(1953)

08408500 DELAWARE RIVER NEAR RED BLUFF, NM—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1938 - 2007	
Annual total	1,117.02		1,980.1			
Annual mean	3.06		5.42		10.6	
Highest annual mean					66.1	1956
Lowest annual mean					0.71	2001
Highest daily mean	157	Aug 29	401	Sep 11	22,000	Oct 2, 1955
Lowest daily mean	0.17	Jun 19	1.1	Jun 1	^c 0.00	Jun 12, 1938
Annual seven-day minimum	0.17	Jun 17	1.2	May 26	0.00	Jul 29, 1946
Maximum peak flow			1,670 Sep 11		^a 81,400	Oct 2, 1955
Maximum peak stage			7.22 Sep 11		^b 27.00	Oct 2, 1955
Instantaneous low flow			1.1 Jun 1		0.00	Jun 11, 1938
Annual runoff (ac-ft)	2,220		3,930		7,700	
10 percent exceeds	3.9		5.8		6.8	
50 percent exceeds	1.8		2.0		2.0	
90 percent exceeds	0.35		1.5		0.00	

^a From rating curve extended above 6,500 ft³/s, on basis of slope-area measurement at gage heights 12.84 ft, 17.55 ft, and 27.0 ft.

^b From floodmarks.

^c No flow most days.

