



Water-Data Report 2007

09367500 LA PLATA RIVER NEAR FARMINGTON, NM

Upper San Juan Basin
Middle San Juan Subbasin

LOCATION.--Lat 36°44'15.27", long 108°15'01.21" referenced to North American Datum of 1983, San Juan County, NM, Hydrologic Unit 14080105, between two large culverts 30 ft upstream from U.S. Highway 64 in Farmington, and 800 ft upstream from mouth.

DRAINAGE AREA.--583 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1938 to Sept. 2003, June 2005 to current year.

REVISED RECORDS.--WSP 1243: 1944-45. WSP 1313: 1943-44(M), 1946-50(M). WSP 1733: 1951(M).

GAGE.--Water-stage recorder. Elevation of gage is 5,210 ft above National Geodetic Vertical Datum of 1929, from river-profile map. Prior to July 28, 1978, at elevation 1.0 ft higher. Dec. 6, 1990, to July 1, 1993, at site 1,000 ft downstream at different datum. Dec. 2, 1999, returned to site 1,000 ft downstream.

REMARKS.--Records fair except for those estimated, which are poor. Diversions for irrigation of about 24,000 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, Oct. 5 or 6, 1911, and September 10, 1939.

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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	e0.26	e12	e8.3	22	e16	14	5.2	3.3	0.34	0.12	0.54	21
2	e0.89	e13	e8.0	17	e10	12	4.3	23	0.96	0.11	1.7	19
3	e0.86	e12	e7.0	15	e9.0	9.7	3.1	45	3.0	0.11	7.9	2.5
4	e0.81	e13	e6.0	18	e10	12	3.0	7.7	2.1	0.09	5.7	1.1
5	e3.9	e13	e6.0	22	e12	14	3.0	5.0	2.0	0.10	1.8	1.1
6	e46	e13	e7.0	15	e15	13	2.9	14	2.0	0.10	1.7	1.0
7	e196	e11	e8.0	13	e20	13	3.2	14	9.4	0.12	39	0.97
8	e174	e13	e10	18	e22	17	3.0	4.9	2.1	0.12	2.1	0.98
9	e145	14	e11	20	e23	23	3.3	3.4	1.1	0.11	0.27	0.97
10	e159	12	e11	20	e25	30	3.5	2.8	0.40	0.12	0.19	0.99
11	e37	12	e12	20	e26	24	2.9	2.5	0.36	2.1	0.21	1.0
12	e17	13	e10	25	e32	20	3.6	2.7	0.40	0.47	0.22	0.98
13	e11	12	e8.0	25	e29	17	3.6	2.2	0.41	0.13	0.22	0.99
14	e10	15	e10	21	e27	19	3.1	7.0	0.33	0.06	0.69	0.98
15	e21	14	e12	7.5	e23	19	2.7	22	0.31	0.01	0.25	0.98
16	e8.5	15	21	e9.5	e22	17	2.8	21	0.28	0.01	0.26	2.6
17	e6.0	14	21	e10	23	15	3.1	36	0.31	0.02	0.26	1.3
18	e8.7	15	20	e12	20	19	3.2	62	0.33	0.02	0.29	31
19	e6.7	17	24	e14	21	22	3.0	14	0.33	0.02	0.32	2.3
20	e6.2	17	22	e16	21	22	2.6	3.4	0.27	0.03	0.32	1.3
21	e5.7	18	16	e14	17	14	3.1	1.7	0.26	0.03	0.35	1.3
22	e6.0	17	12	e12	16	14	3.1	3.7	0.21	0.43	0.43	1.4
23	e6.5	18	15	e10	17	15	3.0	5.1	0.18	2.2	0.59	6.8
24	e6.0	19	15	e12	17	15	3.2	8.9	0.17	0.00	0.63	6.7
25	e5.1	19	13	e14	16	15	3.1	3.8	0.16	0.00	0.71	2.1
26	e4.9	17	16	e15	15	11	3.1	1.6	0.15	0.00	0.68	2.0
27	e7.7	17	19	e15	15	7.1	2.8	0.74	0.14	6.3	1.1	2.3
28	e7.0	17	22	e16	13	5.9	2.9	0.47	0.13	54	0.86	3.8
29	e7.2	16	27	e16	---	4.7	3.1	0.57	0.13	6.5	0.96	3.4
30	e6.7	9.1	23	e17	---	3.9	2.9	0.43	0.12	1.7	41	1.4
31	e6.2	---	18	e18	---	5.0	---	0.41	---	6.6	1.2	---
Total	927.82	437.1	438.3	499.0	532.0	462.3	95.4	323.32	28.38	81.73	112.45	124.24
Mean	29.9	14.6	14.1	16.1	19.0	14.9	3.18	10.4	0.95	2.64	3.63	4.14
Max	196	19	27	25	32	30	5.2	62	9.4	54	41	31
Min	0.26	9.1	6.0	7.5	9.0	3.9	2.6	0.41	0.12	0.00	0.19	0.97
Ac-ft	1,840	867	869	990	1,060	917	189	641	56	162	223	246

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	19.3	12.7	14.0	17.7	23.1	33.9	81.6	61.4	31.4	8.70	11.3	10.8
Max	537	141	73.1	100	89.2	166	408	783	252	117	64.5	170
(WY)	(1942)	(1987)	(1987)	(1979)	(1979)	(1993)	(1980)	(1941)	(1957)	(1986)	(1957)	(1941)
Min	0.00	0.00	0.00	0.03	0.13	0.16	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1947)	(1955)	(1956)	(1957)	(2003)	(1959)	(1951)	(1939)	(1939)	(1948)	(1960)	(1955)

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	Calendar Year 2006	Water Year 2007	Water Years 1938 - 2007
Annual total	3,104.01	4,062.04	
Annual mean	8.50	11.1	27.0
Highest annual mean			134
Lowest annual mean			0.48
Highest daily mean	288	Jul 9	196
Lowest daily mean	0.00	May 28	0.00
Annual seven-day minimum	0.00	Jun 13	0.02
Maximum peak flow			430
Maximum peak stage			5.80
Instantaneous low flow			0.00
Annual runoff (ac-ft)	6,160	8,060	19,580
10 percent exceeds	16	22	59
50 percent exceeds	1.7	6.7	4.0
90 percent exceeds	0.00	0.26	0.00

^a From rating curve extended on basis of slope-area measurement of peak flow.

^b From floodmarks.

