



Water-Data Report 2007

08316000 SANTA FE RIVER NEAR SANTA FE, NM

Rio Grande-Elephant Butte Basin
Rio Grande-Santa Fe Subbasin

LOCATION.--Lat 35°41'16", long 105°50'37" referenced to North American Datum of 1983, Santa Fe County, NM, Hydrologic Unit 13020201, in Santa Fe National Forest, on left bank 0.4 mi downstream from McClure Dam, 5.3 mi east of Santa Fe, and at mile 36.6.

DRAINAGE AREA.--18.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1910, January 1913 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1953, published as "Santa Fe Creek near Santa Fe."

REVISED RECORDS.--WSP 1512: 1933, 1936-37(M), 1942, drainage area. WSP 1732: 1923, 1925. WDR NM-75-1: 1927.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 7,720 ft above NGVD of 1929, from topographic map. See WSP 1312 for history of changes prior to Oct. 1, 1947.

REMARKS.--Records good. Flow regulated by McClure Reservoir (station 08315500), completed in 1926, raised in 1935, 1947, and again in 1989.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks that probably exceeded 1,000 ft³/s occurred Aug. 19, 1872, and Sept. 29 or 30, 1904. Without regulation, the flood of Sept. 23, 1929, might have exceeded 1,500 ft³/s.

08316000 SANTA FE RIVER NEAR SANTA FE, 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	2.9	3.1	2.9	2.8	2.5	10	23	8.7	20	9.6	9.2	8.7
2	3.0	3.1	2.9	2.8	2.5	10	22	8.8	19	9.6	9.2	8.7
3	3.1	3.1	2.9	2.8	2.5	10	22	14	19	9.4	9.1	8.7
4	3.1	3.1	2.9	2.9	2.5	10	22	29	18	9.4	9.1	8.7
5	3.1	3.1	2.9	2.9	2.5	10	22	28	16	9.4	9.2	8.7
6	3.1	3.1	2.9	2.9	2.6	6.6	19	27	16	9.4	9.2	8.7
7	3.1	3.1	2.9	2.9	2.7	3.7	17	27	14	9.4	9.1	8.7
8	3.2	3.1	2.9	2.9	2.7	3.7	17	27	14	9.4	9.1	8.7
9	3.3	3.1	2.9	2.9	2.8	3.7	17	27	13	9.4	9.1	8.7
10	3.2	3.1	2.9	2.9	2.9	3.7	16	37	13	9.4	9.1	8.7
11	3.2	3.1	2.9	2.9	2.9	3.8	16	48	14	9.4	9.1	8.7
12	3.2	3.1	2.9	e2.9	3.0	3.8	14	31	17	9.4	9.1	8.7
13	3.2	3.1	2.9	2.9	2.9	3.9	7.2	19	15	9.4	9.0	6.0
14	3.2	3.1	2.9	2.9	2.9	4.1	e7.2	17	13	9.4	9.1	3.1
15	3.2	3.1	2.9	2.4	2.9	4.2	e7.2	16	12	9.4	9.0	3.1
16	3.2	3.1	2.9	2.3	6.0	4.3	e7.1	16	11	9.4	9.0	3.1
17	3.2	3.1	2.9	2.3	10	4.4	e7.1	16	10	9.3	9.0	3.1
18	3.2	3.1	2.9	2.3	10	4.4	12	16	9.8	9.4	9.0	3.1
19	3.2	3.1	2.9	2.3	10	4.4	16	16	9.7	9.5	9.0	3.1
20	3.1	3.1	2.9	2.4	10	4.4	13	16	9.9	9.4	9.0	3.1
21	3.1	3.0	2.9	2.4	10	4.4	13	16	9.8	9.3	8.9	3.1
22	3.1	2.9	2.9	2.4	10	4.5	12	19	9.7	9.3	8.9	3.1
23	3.1	2.9	2.9	2.3	10	4.6	13	26	9.7	9.3	8.8	3.1
24	3.1	2.9	2.9	2.4	10	4.7	12	25	9.7	9.3	8.8	3.1
25	3.2	2.9	2.9	2.4	10	4.7	12	23	9.7	9.3	8.8	3.1
26	3.2	2.9	2.9	2.4	10	4.7	12	23	9.6	9.3	8.9	3.1
27	3.2	2.9	2.9	2.4	10	11	12	23	9.6	9.2	8.7	3.1
28	3.1	2.9	2.9	2.5	10	23	10	23	9.6	9.2	8.7	3.1
29	3.2	2.9	2.9	2.5	---	23	10	22	9.6	9.2	8.7	3.1
30	3.2	2.9	2.9	2.5	---	23	9.7	22	9.6	9.2	8.7	3.1
31	3.1	---	2.8	2.5	---	23	---	20	---	9.1	8.7	---
Total	97.6	91.1	89.8	81.0	166.8	243.7	419.5	686.5	380.0	290.1	278.3	163.1
Mean	3.15	3.04	2.90	2.61	5.96	7.86	14.0	22.1	12.7	9.36	8.98	5.44
Max	3.3	3.1	2.9	2.9	10	23	23	48	20	9.6	9.2	8.7
Min	2.9	2.9	2.8	2.3	2.5	3.7	7.1	8.7	9.6	9.1	8.7	3.1
Ac-ft	194	181	178	161	331	483	832	1,360	754	575	552	324

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.76	2.89	2.36	2.20	2.61	4.72	12.2	22.5	16.9	9.24	8.51	6.79
Max	22.6	13.5	7.19	6.87	14.2	30.0	68.5	92.9	75.2	56.2	74.0	36.0
(WY)	(1942)	(1942)	(1959)	(1970)	(1916)	(1916)	(1915)	(1941)	(1921)	(1919)	(1921)	(1929)
Min	0.07	0.05	0.02	0.04	0.04	0.08	0.02	0.53	0.70	0.25	0.03	0.05
(WY)	(2003)	(2003)	(2003)	(2003)	(2006)	(2004)	(2002)	(1955)	(1955)	(2002)	(2002)	(2002)

08316000 SANTA FE RIVER NEAR SANTA FE, NM—Continued**SUMMARY STATISTICS**

	Calendar Year 2006	Water Year 2007	Water Years 1913 - 2007	
Annual total	1,431.72	2,987.5		
Annual mean	3.92	8.18	7.98	
Highest annual mean			26.2	1919
Lowest annual mean			1.84	2002
Highest daily mean	44 Aug 24	48 May 11	378 Sep 23, 1929	
Lowest daily mean	0.03 Jan 25	2.3 Jan 16	^a 0.00 Aug 2, 2000	
Annual seven-day minimum	0.04 Feb 13	2.3 Jan 15	0.00 Aug 2, 2000	
Maximum peak flow		50 May 10	^b 1,500 Aug 14, 1921	
Maximum peak stage		2.52 May 10	^c 5.17 Aug 14, 1921	
Instantaneous low flow		2.3 Jan 15	0.00 Aug 2, 2000	
Annual runoff (ac-ft)	2,840	5,930	5,780	
10 percent exceeds	7.6	17	18	
50 percent exceeds	3.1	7.2	4.0	
90 percent exceeds	0.05	2.9	0.89	

^a Many days.^b From rating curve extended above 150 ft³/s.^c Site and datum then in use.