08315480 SANTA FE RIVER ABOVE McCLURE RESERVOIR NEAR SANTA FE, NM

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

LOCATION.--Lat 35°41'19.3", long 105°49'26.7" referenced to North American Datum of 1983, Santa Fe County, NM, Hydrologic Unit 13020201, in Santa Fe National Forest, on right bank upstream from flow line of McClure Reservoir, 0.20 mi upstream from McClure Reservoir, 2.3 mi upstream from Nichols Reservoir, and 6.0 mi east of Santa Fe.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder with satellite telemetry and 1.5-ft and 8-ft Parshall flume. Elevation of gage is 7,920 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Low flows in 1.5-ft Parshall flume computed under station 08315479.

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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	4.1	3.2	2.5	e3.0	e3.4	e5.8	11	17	e19	3.1	4.6	7.1
2	3.7	3.2	2.5	e3.0	e3.6	e6.2	10	e27	e18	3.2	4.6	6.2
3	3.5	3.2	2.5	e2.9	e4.2	e6.2	9.9	e30	e17	3.1	4.3	5.4
4	3.2	3.2	e2.5	e2.8	e4.1	e6.8	9.7	e30	e16	3.1	4.1	4.8
5	3.2	3.0	e2.6	e2.9	e3.3	e6.4	9.9	28	e15	3.5	4.0	4.5
6	3.1	2.7	e2.6	e3.0	e4.0	e6.0	10	25	e14	3.3	4.5	4.2
7	2.8	2.7	e2.7	e3.2	e4.4	e5.6	11	21	e14	3.7	4.3	3.9
8	3.1	2.7	e2.8	e3.3	e3.8	e6.0	11	16	e14	3.9	4.0	3.7
9	3.3	2.6	e2.6	e3.2	e4.3	e6.4	11	15	e14	3.8	4.0	3.6
10	4.5	2.5	e2.7	e3.2	e4.6	e6.6	11	17	e14	3.9	4.1	3.5
11	4.5	2.5	e2.5	e3.0	e4.7	e6.8	11	18	e14	4.0	3.9	3.3
12	4.2	2.6	e2.6	e3.2	e5.0	e7.2	10	19	e15	3.9	4.1	3.1
13	3.9	2.5	e2.7	e3.3	e5.1	e7.5	10	21	e14	4.2	3.8	2.9
14	3.8	2.5	e2.8	e3.1	e4.8	9.0	10	26	e13	4.0	3.6	2.7
15	3.8	2.5	e2.7	e3.3	e4.7	11	10	29	e13	3.8	3.8	2.6
16	3.7	2.6	e2.6	e3.2	e6.0	13	10	29	e13	3.7	3.9	2.5
17	3.6	2.5	e2.5	e3.2	e5.6	13	10	28	e13	3.7	3.6	2.6
18	3.7	2.5	e2.5	e3.3	e5.8	14	10	27	e12	3.7	3.6	3.1
19	3.5	2.4	e2.6	e3.4	e5.4	16	10	28	11	4.0	3.5	2.5
20	3.5	2.5	e2.5	e3.5	e6.0	15	10	26	8.8	5.0	3.4	2.7
21	3.5	2.5	e2.4	e3.4	e6.2	14	10	27	6.5	5.2	3.3	3.0
22	3.5	2.5	e2.6	e3.3	e6.0	15	10	e27	3.7	4.1	2.9	2.4
23	3.5	2.6	e2.5	e3.7	e6.2	18	10	e25	3.5	3.9	2.3	2.5
24	3.5	2.7	e2.4	e3.6	e5.9	20	11	e23	3.2	3.9	2.6	2.5
25	3.5	2.7	e2.6	e3.5	e6.2	19	11	e22	3.0	3.7	2.2	2.2
26	3.4	2.6	e2.6	e3.4	e5.8	18	11	e22	2.8	3.5	2.8	2.1
27	3.3	2.7	e2.7	e3.5	e5.4	23	11	e22	2.9	3.5	3.3	2.0
28	3.2	2.6	e2.9	e3.5	e5.6	25	11	e22	3.8	3.9	2.5	2.0
29	3.2	2.4	e2.8	e3.3	---	23	13	e22	3.4	4.1	2.6	2.0
30	3.2	2.4	e2.7	e3.6	---	15	15	e21	3.1	4.7	2.6	1.9
31	3.2	---	e2.6	e3.5	---	12	---	e20	---	4.8	4.8	---
Total	109.7	79.8	80.8	101.3	140.1	376.5	318.5	730	317.7	119.9	111.6	97.5
Mean	3.54	2.66	2.61	3.27	5.00	12.1	10.6	23.5	10.6	3.87	3.60	3.25
Max	4.5	3.2	2.9	3.7	6.2	25	15	30	19	5.2	4.8	7.1
Min	2.8	2.4	2.4	2.8	3.3	5.6	9.7	15	2.8	3.1	2.2	1.9
Ac-ft	218	158	160	201	278	747	632	1,450	630	238	221	193

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.50	2.50	1.70	1.67	2.58	4.88	9.98	17.9	7.85	2.91	7.91	2.66
Max	4.85	5.95	2.82	3.27	8.30	12.1	30.6	52.5	21.9	5.38	30.2	6.10
(WY)	(2006)	(1999)	(2001)	(2007)	(2005)	(2007)	(2005)	(2005)	(2005)	(1998)	(2006)	(2006)
Min	0.89	0.92	0.85	0.84	0.84	0.90	1.28	1.00	0.45	0.90	0.72	0.72
(WY)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2006)	(2002)	(2002)	(2002)	(2002)	(2002)

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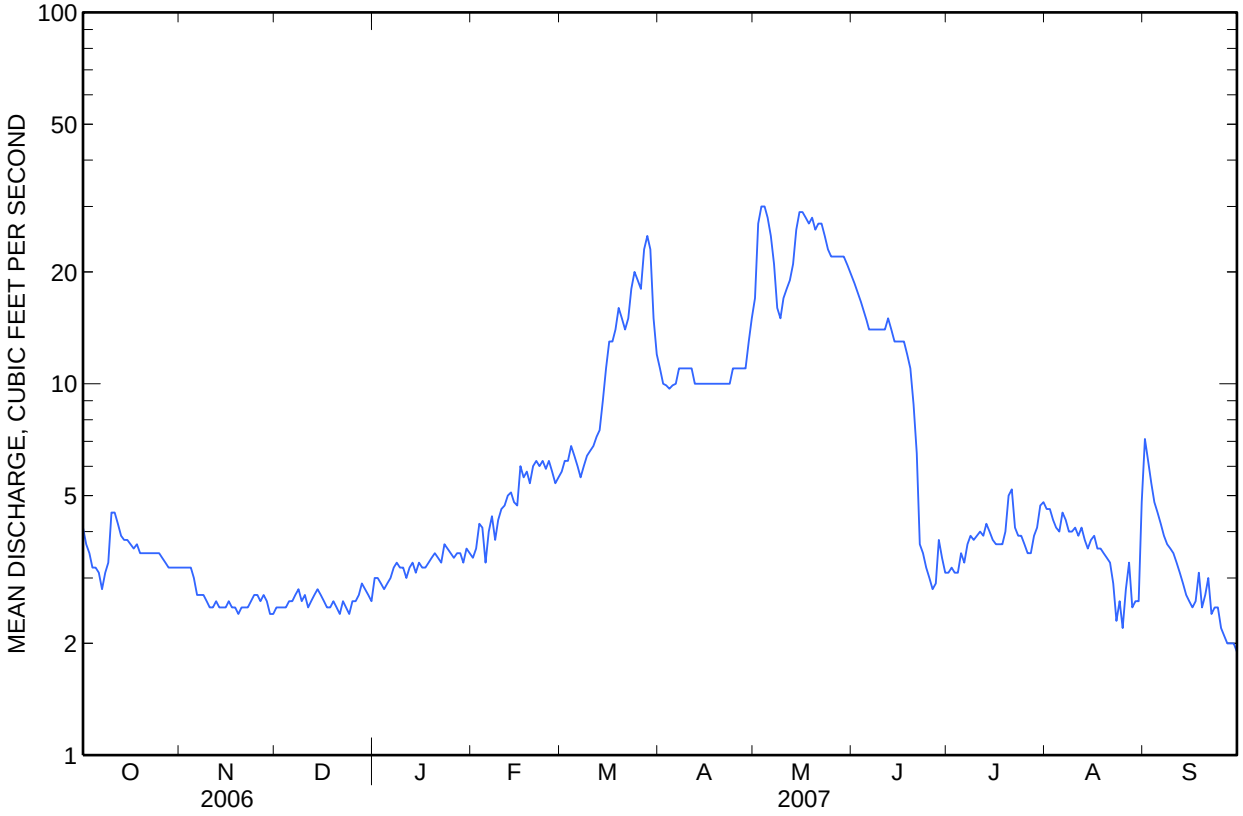
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1998 - 2007	
Annual total	1,759.37		2,583.4			
Annual mean	4.82		7.08		5.37	
Highest annual mean					11.6	2005
Lowest annual mean					0.91	2002
Highest daily mean	73	Aug 22	30	May 3	104	May 23, 2005
Lowest daily mean	0.41	Jun 21	1.9	Sep 30	0.05	Sep 7, 2002
Annual seven-day minimum	0.45	Jun 17	2.1	Sep 24	0.11	Sep 2, 2002
Maximum peak flow			35	May 18	113	May 23, 2005
Maximum peak stage			1.07	May 18	2.05	May 23, 2005
Instantaneous low flow			1.7	Sep 30	0.00	Oct 1, 2004
Annual runoff (ac-ft)	3,490		5,120		3,890	
10 percent exceeds	7.6		17		14	
50 percent exceeds	2.4		3.8		2.2	
90 percent exceeds	0.91		2.5		0.85