



Water-Data Report 2007

07216500 MORA RIVER NEAR GOLONDRINAS, NM

Upper Canadian Basin
Upper Canadian Subbasin

LOCATION.--Lat 35°53'27.14", long 105°09'49.03" referenced to North American Datum of 1983, Mora County, NM, Hydrologic Unit 11080003, in Mora Grant, on right bank 0.7 mi upstream from bridge on State Highway 161, 1.2 mi east of Golondrinas, 1.9 mi upstream from Coyote Creek, 4.7 mi downstream from Rito Cebolla, and at mile 75.8.

DRAINAGE AREA.--267 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1915 to May 1921, October 1921 to March 1922, May, August, and September 1922, July 1923 to July 1924, December 1924 to September 1986, March 1988 to current year. Monthly discharge only, 1915-30, published in WSP 1311.

REVISED RECORDS.--WSP 1281: 1951(M). WSP 1311: 1935(M), 1937-38(M), 1940-42(M), 1949(M). WSP 1511: drainage area. WSP 1731: 1958(M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,750 ft above NGVD of 1929, from topographic map. Mar. 10, 1915, to June 4, 1921, water-stage recorder at site 2.8 mi upstream at different datum. July 6, 1921, to Jan. 5, 1929, nonrecording gage or water-stage recorder at site 0.7 mi downstream at datum about 14 ft lower. Jan. 6, 1929, to Apr. 1, 1972, water-stage recorder at site 0.7 mi downstream at datum about 15 ft lower.

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of about 12,000 acres upstream from station. Off-channel lakes make it possible to divert and store water during non-irrigation season. Several observations of water temperature were made during the year. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Sept. 29, 1904, and June 11, 1913, probably exceeded 25,000 ft³/s.

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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	16	4.3	4.3	e4.0	e5.4	4.1	10	15	61	22	27	17
2	16	4.3	4.7	e3.5	e5.7	3.9	11	40	62	24	26	25
3	17	4.4	4.6	e3.5	e5.5	5.9	5.3	69	57	26	36	20
4	17	4.5	4.7	e4.0	e5.2	4.6	5.7	64	60	25	37	18
5	17	4.5	5.0	e4.0	e5.7	4.1	7.2	59	58	32	38	17
6	17	4.9	4.6	e4.5	e9.0	4.1	9.9	58	54	26	38	17
7	17	5.9	4.3	e4.5	e7.8	4.1	11	56	50	27	38	16
8	20	6.2	4.2	e5.0	e8.4	3.9	11	48	41	28	37	16
9	22	6.2	4.3	e4.5	e7.8	3.8	9.2	44	38	28	38	15
10	26	6.4	4.3	e4.5	e8.5	3.9	7.3	40	50	19	40	18
11	20	6.4	4.3	e4.5	e8.3	4.0	4.4	32	51	21	39	19
12	18	6.7	4.2	e4.0	e8.4	4.0	6.2	25	80	25	41	16
13	17	6.1	4.2	e4.0	e8.3	4.0	11	23	92	30	37	14
14	17	5.9	4.3	e4.5	e7.9	3.8	16	36	88	30	35	13
15	17	5.6	4.4	e4.5	e8.8	3.7	16	45	79	27	33	13
16	16	5.5	4.3	e5.0	e8.5	8.0	16	60	65	25	31	9.7
17	10	5.7	4.1	e5.0	e9.0	9.6	15	73	62	26	28	12
18	7.6	5.8	4.1	e5.0	e10	8.6	16	84	54	25	28	13
19	7.3	5.9	4.4	e5.0	e11	9.1	17	98	50	25	28	13
20	7.8	5.7	4.6	e5.5	e12	9.4	24	118	45	24	28	14
21	9.2	5.8	4.4	e5.5	14	7.9	25	127	43	25	23	18
22	7.8	5.0	4.3	e6.0	16	6.9	26	120	45	25	23	17
23	7.3	3.8	5.2	7.9	16	3.7	15	114	30	26	22	17
24	7.5	3.7	e5.0	6.0	16	4.9	9.7	109	27	30	14	17
25	9.6	3.7	e5.0	7.3	15	8.2	11	102	25	21	7.0	15
26	9.4	3.9	e4.0	4.2	15	11	11	109	19	21	9.9	15
27	9.9	3.7	e4.5	4.5	14	5.9	9.5	107	19	23	12	15
28	8.9	3.9	e5.0	5.0	4.8	4.7	11	105	21	23	11	15
29	5.4	3.8	e4.5	5.3	---	6.6	10	90	21	23	12	17
30	4.4	3.6	e4.5	5.2	---	8.2	13	86	21	25	27	17
31	4.2	---	e4.5	5.6	---	10	---	74	---	34	23	---
Total	406.3	151.8	138.8	151.5	272.0	184.6	370.4	2,230	1,468	791	866.9	478.7
Mean	13.1	5.06	4.48	4.89	9.71	5.95	12.3	71.9	48.9	25.5	28.0	16.0
Max	26	6.7	5.2	7.9	16	11	26	127	92	34	41	25
Min	4.2	3.6	4.0	3.5	4.8	3.7	4.4	15	19	19	7.0	9.7
Ac-ft	806	301	275	301	540	366	735	4,420	2,910	1,570	1,720	950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.2	13.9	11.4	11.6	10.9	12.6	42.3	89.8	71.4	38.7	53.9	32.3
Max	119	86.8	38.9	29.7	27.2	68.8	361	661	377	321	307	153
(WY)	(1942)	(1942)	(1942)	(1942)	(1919)	(1985)	(1942)	(1941)	(1941)	(1919)	(1961)	(1991)
Min	0.21	0.40	0.52	0.65	0.55	0.58	0.25	0.75	0.03	1.45	0.00	0.27
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1955)	(2003)	(1934)	(2002)	(1934)	(1956)

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	Calendar Year 2006	Water Year 2007	Water Years 1915 - 2007	
Annual total	2,290.4	7,510.0		
Annual mean	6.28	20.6	33.5	
Highest annual mean			144	1941
Lowest annual mean			2.31	2003
Highest daily mean	67	Aug 21	127	May 21
Lowest daily mean	1.3	Jun 20	3.5	Jan 2
Annual seven-day minimum	1.4	Jun 18	3.8	Nov 24
Maximum peak flow			238	Aug 30
Maximum peak stage			2.43	Aug 30
Instantaneous low flow			1.4	Jan 7
Annual runoff (ac-ft)	4,540	14,900	24,260	
10 percent exceeds	17	50	82	
50 percent exceeds	4.0	12	13	
90 percent exceeds	2.0	4.2	2.0	

^a From rating curve extended above 660 ft³/s, on basis of slope-area measurement of peak flow.

^b Site and datum then in use.

