



Water-Data Report 2007

07208500 RAYADO CREEK NEAR CIMARRON, NM

Upper Canadian Basin
Cimarron Subbasin

LOCATION.--Lat 36°22'20.44", long 104°58'09.44" referenced to North American Datum of 1983, Colfax County, NM, Hydrologic Unit 11080002, in Maxwell Grant, on right bank 2.5 mi upstream from State Highway 21, 4.0 mi downstream from Bonito Creek, and 9.8 mi southwest of Cimarron.

DRAINAGE AREA.--65 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1909 to February 1910, June to August 1910, May 1911 to May 1913, July 1913 to February 1915, October 1915 to September 1918, March 1919 to September 1920, June 1923 to September 1924, March to May 1927, August 1927 to current year. Monthly discharge only for some periods, published in WSP 1311. Records for April and May 1910, published in WSP 287, are unreliable and should not be used. Published as Rayado River "at," "near," or "above" Abreú's Ranch near Cimarron prior to October 1925 and as "Rayado River at Sauble Ranch, near Cimarron," October 1925 to September 1952. From September 1952 to September 1997, published as "Rayado Creek at Sauble Ranch near Cimarron."

REVISED RECORDS.--WSP 1281: 1914, 1934-35(M), 1937(M), 1941(P), 1942(M), 1944(M), drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Oct. 13, 1976. Elevation of gage is 6,720 ft above NGVD of 1929, from topographic map. See WSP 1921 for history of changes prior to Oct. 1, 1954. Oct. 1, 1954, to June 16, 1965, at site 270 ft downstream at datum 2.79 ft lower.

REMARKS.--Records fair except for those estimated, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The major flood of June 10, 1913, destroyed the gage (stage and discharge not determined). Another major flood probably occurred Sept. 29 or 30, 1904.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated; &, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.4	5.4	e3.1	e4.2	e3.6	e10	40	67	28	11	12	9.3
2	5.2	5.1	e3.1	e3.7	e3.5	e11	39	84	27	11	27	16
3	5.1	5.4	e2.9	e3.6	e3.5	e10	40	88	27	11	28	15
4	4.9	5.3	e3.3	e4.6	e3.7	e10	41	87	26	10	25	13
5	4.9	5.3	e3.8	e4.8	e3.9	e11	45	86	25	9.9	37	12
6	4.9	5.3	e3.9	e3.1	e4.4	9.5	48	79	22	9.4	34	12
7	4.9	5.2	e4.2	e3.2	e4.6	8.9	46	70	21	9.2	30	10
8	8.5	5.1	e4.3	e3.1	e5.0	11	46	63	20	9.7	26	9.8
9	11	4.9	e4.4	e3.9	e5.5	12	46	57	20	9.7	23	9.4
10	9.8	4.9	e4.4	e4.2	e6.2	14	47	54	20	9.7	20	10
11	8.5	4.7	e4.8	e5.0	e7.1	15	43	50	18	9.9	19	9.6
12	7.3	e5.2	e4.0	e5.4	e7.8	15	42	49	21	10	17	9.1
13	6.8	e4.3	e3.8	e5.0	e7.1	18	37	50	18	11	16	8.6
14	6.5	4.6	e3.8	e3.4	e6.9	22	41	52	17	11	15	8.0
15	6.9	e3.1	e4.8	e2.9	e6.8	29	43	58	16	10	14	7.7
16	8.4	e5.4	e5.4	e3.3	e7.3	33	48	63	15	9.6	13	7.3
17	7.4	4.9	e5.6	e3.5	e7.2	39	54	62	14	9.0	13	7.2
18	7.0	5.1	e5.7	e3.4	e7.6	45	52	64	14	9.0	12	7.8
19	6.9	4.5	e5.1	e3.7	7.2	47	54	59	13	9.5	11	7.3
20	6.5	4.9	e4.5	e3.9	&7.0	49	54	56	13	13	10	7.2
21	6.4	4.8	e3.4	e3.7	e6.5	50	56	54	13	14	9.6	9.2
22	6.4	4.6	e3.3	e3.4	&8.3	50	55	51	14	12	9.4	7.5
23	6.3	4.2	e3.2	e3.5	e7.6	51	55	50	14	10	8.7	7.0
24	6.1	4.7	e3.3	e3.7	e8.6	50	55	50	13	9.3	8.3	7.1
25	6.1	4.4	e3.1	e3.8	e8.5	47	53	47	12	8.6	8.0	6.7
26	6.0	3.6	e3.6	e3.8	e9.1	49	54	43	12	8.2	7.8	6.5
27	5.7	3.9	e4.2	e3.8	e8.0	55	54	39	11	8.2	8.0	6.4
28	6.3	4.3	e5.0	e3.9	8.2	59	57	36	11	8.5	7.7	6.3
29	5.9	e3.8	e4.6	e3.8	---	54	59	33	12	11	9.8	7.3
30	5.6	e2.7	e4.2	e3.9	---	48	63	31	11	16	11	7.3
31	5.5	---	e3.7	e4.0	---	44	---	29	---	13	10	---
Total	203.1	139.6	126.5	119.2	180.7	976.4	1,467	1,761	518	321.4	500.3	267.6
Mean	6.55	4.65	4.08	3.85	6.45	31.5	48.9	56.8	17.3	10.4	16.1	8.92
Max	11	5.4	5.7	5.4	9.1	59	63	88	28	16	37	16
Min	4.9	2.7	2.9	2.9	3.5	8.9	37	29	11	8.2	7.7	6.3
Ac-ft	403	277	251	236	358	1,940	2,910	3,490	1,030	637	992	531

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.76	4.99	3.94	3.63	4.06	8.08	30.8	51.1	21.8	10.1	11.3	7.14
Max	30.4	20.0	12.4	8.01	8.68	31.5	144	287	231	54.7	71.5	33.0
(WY)	(1942)	(1942)	(1987)	(1942)	(1987)	(2007)	(1987)	(1941)	(1965)	(1969)	(1965)	(1991)
Min	1.23	1.40	1.27	1.04	1.95	2.98	4.65	2.24	1.71	1.42	1.81	0.88
(WY)	(1957)	(1957)	(1957)	(2002)	(1951)	(1951)	(2002)	(2002)	(2002)	(1956)	(2002)	(1956)

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	Calendar Year 2006	Water Year 2007	Water Years 1912 - 2007	
Annual total	1,971.0	6,580.8		
Annual mean	5.40	18.0	13.6	
Highest annual mean			41.6	1965
Lowest annual mean			2.53	2002
Highest daily mean	19	Aug 27	88	May 3 Jun 18, 1965
Lowest daily mean	1.2	Jun 21	2.7	Nov 30 0.40 Nov 16, 1956
Annual seven-day minimum	1.4	Jun 18	3.2	Nov 29 0.67 Sep 15, 1956
Maximum peak flow			95 May 3	^a 9,000 Jun 17, 1965
Maximum peak stage			3.22 May 3	^b 11.50 Jun 17, 1965
Instantaneous low flow			1.6 Nov 23	^c 0.03 Dec 3, 1950
Annual runoff (ac-ft)	3,910	13,050	9,830	
10 percent exceeds	10	51	30	
50 percent exceeds	4.6	9.3	5.4	
90 percent exceeds	2.6	3.8	2.6	

^a From rating curve extended above 70 ft³/s, on basis of field estimate of peak flow.

^b From Floodmarks.

^c Also may have been less during periods of ice effect.

