Water-Data Report 2013

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, NM

Upper Canadian Basin
Upper Canadian Subbasin

LOCATION.--Lat 36°17'51.25", long 104°29'43.70" referenced to North American Datum of 1983, Colfax County, NM, Hydrologic Unit 11080003, on left bank at head of gorge, 2.1 mi south of Taylor Springs, 2.3 mi downstream from Cimarron River, 2.4 mi upstream from Chico Creek, 7.1 mi southeast of Springer, and at mile 847.9.

DRAINAGE AREA.--2,850 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1940 to September 1958, and annual maximum, water years 1959-63. June 1964 to current year. Water-year estimate for 1940, published in WSP 1311.

REVISED RECORDS.--WSP 1177: drainage area. WSP 1281: 1941-42(P), 1945-47(M), 1948-50(P).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,640 ft above NGVD of 1929, from topographic map. Prior to June 10, 1964, water-stage recorder at site 1.7 mi downstream at different datum; operated as crest-stage gage at that site and datum during water years 1959-64.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 30,000 acres upstream from station. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood prior to 1965 occurred Sept. 29, 1904, discharge published as 91,100 ft^3/s in WSP 842 and 847.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,600 ft^3/s, July 15, gage height, 9.27 ft; minimum, no flow many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.1	0.00	0.01	0.08	e0.32	e0.55	e0.23	0.01	2.2	237	161	110
2	1.3	0.00	0.01	0.07	e0.32	e0.55	e0.14	0.01	2.4	38	25	328
3	0.11	0.00	0.01	0.05	e0.31	e0.55	e0.14	0.01	3.1	11	15	45
4	0.01	0.00	0.01	0.03	e0.29	e0.55	e0.17	0.01	3.8	5.6	75	14
5	0.00	0.00	0.01	0.03	e0.29	e0.48	e0.20	0.00	4.0	4.9	448	8.3
6	0.00	0.00	0.01	e0.00	e0.25	e0.45	e0.20	0.01	5.2	38	281	5.7
7	0.00	0.00	0.01	e0.00	e0.20	e0.41	e0.14	0.01	5.0	173	205	4.5
8	0.00	0.00	0.02	e0.65	e0.16	e0.31	e0.17	0.00	5.3	9.6	372	3.7
9	0.00	0.00	0.02	e0.58	e0.13	e0.25	0.02	0.00	11	10	865	3.5
10	0.00	0.00	0.03	e0.33	e0.13	e0.25	0.04	0.00	8.3	5.6	453	3.4
11	0.00	0.00	0.03	e0.15	e0.13	e0.25	0.04	0.01	5.8	2.9	154	7.5
12	1.6	0.00	0.03	e0.27	e0.27	e0.27	0.04	0.01	5.3	3.3	84	63
13	19	0.00	0.04	e0.31	e0.32	e0.25	0.04	0.01	4.6	3.6	54	756
14	3.8	0.00	0.05	e0.47	e0.32	e0.25	0.03	0.01	6.7	405	65	182
15	2.0	0.00	0.05	e0.76	e0.34	e0.23	0.03	0.01	4.0	1,240	36	46
16	0.47	0.00	0.05	e0.93	e0.29	e0.23	0.03	0.01	2.8	101	36	166
17	0.11	0.00	0.04	e0.91	e0.27	e0.18	0.03	0.01	7.6	43	31	57
18	0.03	0.00	0.04	e0.71	e0.27	e0.18	0.09	0.00	7.6	20	21	22
19	0.01	0.00	0.05	e0.58	e0.27	e0.18	0.07	0.01	8.5	161	16	15
20	0.00	0.00	0.04	e0.65	e0.27	e0.27	0.05	0.01	6.8	373	19	19
21	0.00	0.00	0.04	e0.47	e0.34	e0.18	0.04	0.02	5.3	255	21	21
22	0.00	0.00	0.04	e0.35	e0.41	e0.22	0.04	0.03	3.6	32	12	11
23	0.00	0.00	0.05	e0.43	e0.45	e0.23	0.03	0.03	2.4	19	8.0	169
24	0.00	0.00	0.05	e0.31	e0.45	e0.23	0.04	563	1.4	13	5.7	97
25	0.00	0.01	0.06	e0.41	e0.45	e0.23	0.04	474	0.85	10	5.2	22
26	0.00	0.01	0.05	e0.27	e0.48	e0.23	0.05	57	0.53	102	4.4	13
27	0.00	0.01	0.05	e0.42	e0.52	e0.23	0.05	14	0.34	47	3.4	8.9
28	0.00	0.01	0.05	e0.38	e0.55	e0.23	0.03	6.9	0.20	16	3.2	6.9
29	0.00	0.01	0.04	e0.36	---	e0.30	0.02	4.4	0.12	11	3.1	6.0
30	0.00	0.01	0.05	e0.32	---	e0.30	0.01	3.6	101	18	2.8	5.2
31	0.00	---	0.06	e0.32	---	e0.23	---	2.9	---	11	2.5	---
Total	35.54	0.06	1.10	11.60	8.80	9.25	2.25	1,126.03	225.74	3,419.5	3,487.3	2,219.6
Mean	1.15	0.00	0.04	0.37	0.31	0.30	0.07	36.3	7.52	110	112	74.0
Max	19	0.01	0.06	0.93	0.55	0.55	0.23	563	101	1,240	865	756
Min	0.00	0.00	0.01	0.00	0.13	0.18	0.01	0.00	0.12	2.9	2.5	3.4
Ac-ft	70	0.1	2.2	23	17	18	4.5	2,230	448	6,780	6,920	4,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	31.8	20.1	18.2	19.1	22.3	26.3	114	213	122	78.7	105	65.6
Max	451	192	105	121	186	337	2,853	2,174	2,313	509	563	1,354
(WY)	(1942)	(1942)	(1943)	(1943)	(1948)	(1987)	(1942)	(1941)	(1965)	(1947)	(1981)	(1942)
Min	0.00	0.00	0.02	0.04	0.06	0.03	0.08	0.32	0.53	0.00	0.01	0.00
(WY)	(1957)	(2013)	(2004)	(2004)	(2004)	(2004)	(2013)	(2002)	(2006)	(2012)	(2003)	(1956)

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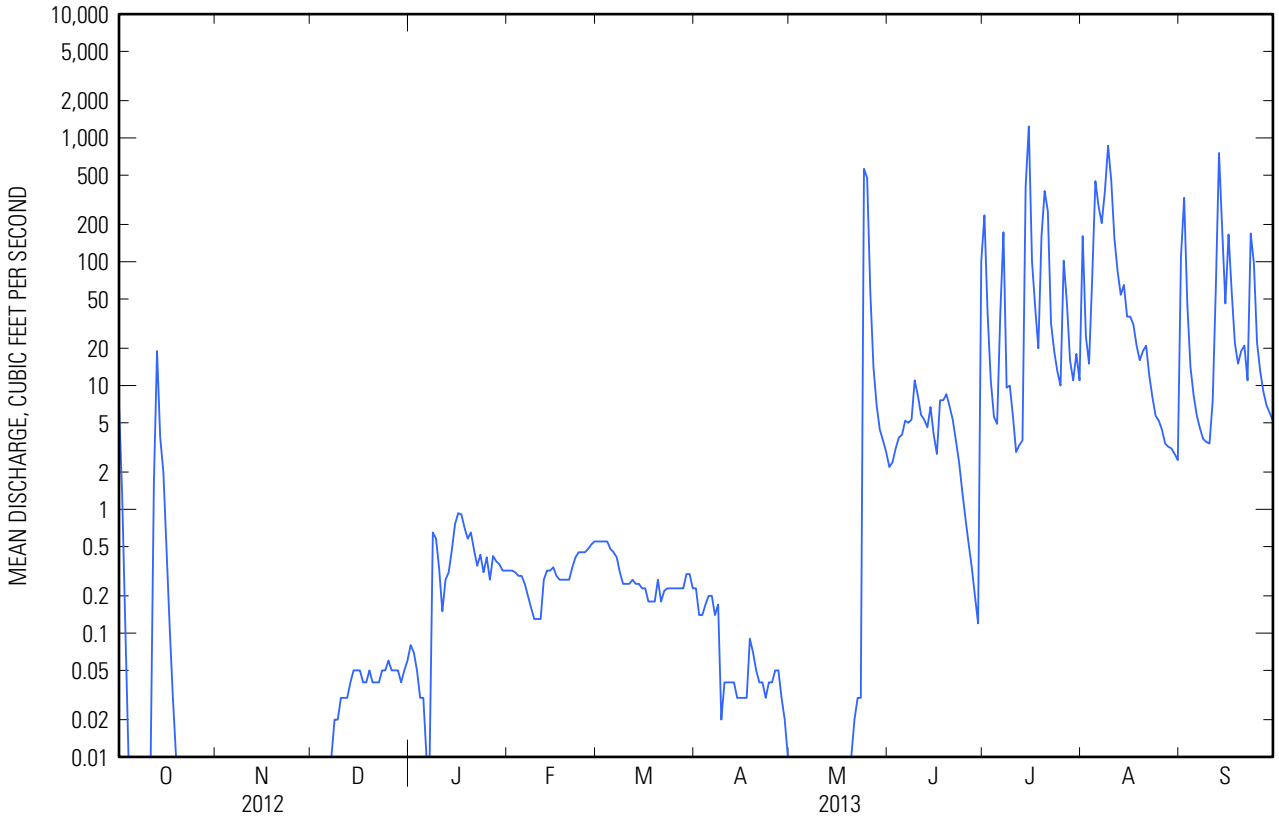
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1940 - 2013	
Annual total	785.34		10,546.77			
Annual mean	2.15		28.9		70.3	
Highest annual mean					564	1942
Lowest annual mean					2.17	2012
Highest daily mean	97	Sep 30	1,240	Jul 15	43,000	Jun 18, 1965
Lowest daily mean	0.00	Jun 29	0.00	Oct 5	0.00	Jun 29, 1946
Annual seven-day minimum	0.00	Jun 29	0.00	Oct 5	0.00	Jun 24, 1953
Maximum peak flow			3,600	Jul 15	[a]162,000	Jun 18, 1965
Maximum peak stage			9.27	Jul 15	[b]47.40	Jun 18, 1965
Instantaneous low flow			0.00	Oct 4	0.00	Jun 29, 1946
Annual runoff (ac-ft)	1,560		20,920		50,910	
10 percent exceeds	4.0		45		110	
50 percent exceeds	0.40		0.29		13	
90 percent exceeds	0.00		0.00		1.1	

[a] From rating curve extended above 7,000 ft³/s, on basis of slope-area measurement of peak flow.
[b] From Floodmarks.