

Water-Data Report 2013

09468500 SAN CARLOS RIVER NEAR PERIDOT, AZ

Upper Gila Basin
San Carlos Subbasin

LOCATION.--Lat 33°17'47", long 110°27'03" referenced to North American Datum of 1927, in SE ¼ sec.36, T.1 S., R.18 E., Graham County, AZ, Hydrologic Unit 15040007, in San Carlos Indian Reservation, on U.S. Highway 70 bridge, 0.9 mi south of Peridot. (unsurveyed).

DRAINAGE AREA.--1,026 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Aug. 1910 to Jan. 1911 (gage heights only), Apr. 1914 to July 1915, Aug. to Sept. 1915 (monthly discharge only), Oct. 1929 to current year. Prior to Oct. 1929 published as "at San Carlos."

REVISED RECORDS.--WSP 1283: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,542.29 ft above sea level (AZ Highway Department benchmark). See WSP 1713 or 1733 for history of changes prior to Feb.1, 1942. Feb. 1, 1942, to Aug. 13, 1970, at sites 1.9 mi upstream at different datums. Aug. 14, 1970, to Sept. 30, 1980, at site 1.8 mi upstream at datum 2,578.90 ft, above sea level. Supplementary water-stage recorder Dec. 21, 1967, to July 2, 1968, at site 2.2 mi downstream at datum in use prior to Feb. 1, 1942; Jan. 31, 1979, to Sept. 30, 1980, at present site and datum.

REMARKS.--Records poor. Diversions above station for irrigation of about 600 acres. Small inflow from sewage treatment system about 3.6 mi upstream. Flow regulated to some extent since June 15, 1979, by Talkalai Reservoir; capacity, about 6,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft³/s, Jan. 8, 1993, gage height, 12.12 ft, from rating curve extended above 23,000 ft³/s on basis of rate of change in storage in San Carlos Reservoir; maximum gage height 14.8 ft, Dec. 22, 1965, site and datum then in use; minimum discharge, no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,770 ft³/s, July 26, gage height, 9.77 ft; minimum daily discharge, no flow on 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	e0.00	e0.00	e0.00	e5.4	e53	e11	e13	e1.1	e0.00	e0.00	e5.5	e49
2	e0.00	e0.00	e0.00	e5.2	e43	e12	e11	e0.80	e0.00	e0.00	e9.3	e30
3	e0.00	e0.00	e0.00	e4.7	e37	e13	e10	e0.72	e0.00	e0.00	e4.7	e17
4	e0.00	e0.00	e0.00	e4.7	e32	e13	e9.3	e0.86	e0.00	e0.00	e2.1	e6.8
5	e0.00	e0.00	e0.00	e4.2	e29	e12	e8.7	e0.69	e0.00	e0.00	e1.5	e4.6
6	e0.00	e0.00	e0.00	e4.7	e27	e13	e7.9	e0.67	e0.00	e0.00	e1.0	e2.9
7	e0.00	e0.00	e0.00	e5.1	e25	e12	e7.3	e0.67	e0.00	e0.00	e0.45	e2.2
8	e0.00	e0.00	e0.00	e4.7	e24	e14	e6.9	e0.60	e0.00	e0.00	e0.11	e6.9
9	e0.00	e0.00	e0.00	e4.8	e22	e18	e6.7	e0.57	e0.00	e0.00	e0.00	e16
10	e0.00	e0.00	e0.00	e5.0	e20	e18	e7.2	e0.47	e0.00	e0.00	e0.00	e13
11	e0.00	e0.00	e0.00	e5.4	e20	e291	e7.6	e0.44	e0.00	e0.00	e0.00	e12
12	e0.00	e0.00	e0.00	e5.5	e19	e360	e7.0	e0.43	e0.00	e0.00	e0.00	e8.7
13	e0.00	e0.00	e0.00	e5.3	e18	e178	e6.5	e0.39	e0.00	e0.00	e0.00	e6.8
14	e0.00	e0.00	e0.00	e5.2	e17	e103	e5.7	e0.35	e0.00	e0.00	e0.00	e5.6
15	e0.00	e0.00	e0.09	e4.9	e16	e68	e4.9	e0.29	e0.00	e0.00	e0.00	e11
16	e0.00	e0.00	e2.4	e4.8	e15	e48	e4.1	e0.25	e0.00	e0.00	e0.00	e12
17	e0.00	e0.00	e3.4	e4.9	e15	e37	e4.0	e0.20	e0.00	e0.00	e0.00	e18
18	e0.00	e0.00	e3.4	e5.5	e14	e30	e4.6	e0.15	e0.00	e0.00	e0.00	e12
19	e0.00	e0.00	e3.5	e5.5	e14	e27	e4.2	e0.13	e0.00	e0.00	e0.00	e5.7
20	e0.00	e0.00	e3.2	e5.9	e15	e24	e4.0	e0.06	e0.00	e0.00	e0.00	e4.0
21	e0.00	e0.00	e3.6	e6.3	e17	e22	e3.6	e0.03	e0.00	e0.00	e0.00	e3.2
22	e0.00	e0.00	e6.1	e7.4	e17	e21	e3.3	e0.03	e0.00	e0.00	e0.00	e2.9
23	e0.00	e0.00	e6.7	e8.6	e15	e20	e2.8	e0.00	e0.00	e0.00	e0.00	e1.9
24	e0.00	e0.00	e6.2	e8.7	e14	e18	e2.4	e0.00	e0.00	e0.00	e0.00	e1.2
25	e0.00	e0.00	e5.1	e8.6	e13	e17	e2.0	e0.00	e0.00	e0.00	e0.00	e1.0
26	e0.00	e0.00	e4.6	e12	e13	e17	e2.0	e0.00	e0.00	e669	e0.00	e0.86
27	e0.00	e0.00	e4.4	e17	e12	e17	e1.8	e0.00	e0.00	e207	e0.00	e0.79
28	e0.00	e0.00	e4.2	e586	e11	e16	e1.7	e0.00	e0.00	e59	e0.00	e0.72
29	e0.00	e0.00	e4.2	e735	---	e15	e1.7	e0.00	e0.00	e31	e26	e0.68
30	e0.00	e0.00	e4.2	e276	---	e14	e1.3	e0.00	e0.00	e17	e1,230	e0.61
31	e0.00	---	e4.4	e98	---	e14	---	e0.00	---	e8.2	e95	---
Total	0.00	0.00	69.69	1,865.0	587	1,493	163.2	9.90	0.00	991.20	1,375.66	258.06
Mean	0.00	0.00	2.25	60.2	21.0	48.2	5.44	0.32	0.00	32.0	44.4	8.60
Max	0.00	0.00	6.7	735	53	360	13	1.1	0.00	669	1,230	49
Min	0.00	0.00	0.00	4.2	11	11	1.3	0.00	0.00	0.00	0.00	0.61
Med	0.00	0.00	2.4	5.4	17	18	4.8	0.25	0.00	0.00	0.00	5.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.2	17.7	94.5	152	162	132	21.5	6.83	3.13	20.3	50.6	22.3
Max	519	178	1,581	3,208	1,500	1,262	170	41.8	19.8	252	337	166
(WY)	(1973)	(1979)	(1966)	(1993)	(1980)	(1941)	(1941)	(1980)	(1993)	(2006)	(2006)	(1983)
Min	0.00	0.00	0.05	5.80	7.03	4.18	0.11	0.00	0.00	0.00	0.00	0.00
(WY)	(2003)	(2005)	(2010)	(1958)	(1953)	(2009)	(2009)	(2008)	(1948)	(1947)	(2009)	(1956)

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SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 1930 - 2013	
Annual total	1,868.79	6,812.71		
Annual mean	5.11	18.7	58.8	
Highest annual mean			426	1993
Lowest annual mean			4.69	2011
Highest daily mean	100 Sep 4	1,230 Aug 30	20,000	Jan 8, 1993
Lowest daily mean	0.00 May 20	0.00 Oct 1	0.00	Jun 16, 1930
Annual seven-day minimum	0.00 May 20	0.00 Oct 1	0.00	Jun 24, 1930
10 percent exceeds	15	20	62	
50 percent exceeds	0.00	0.72	9.0	
90 percent exceeds	0.00	0.00	0.00	

