Water-Data Report 2013

10257500 Falls Creek near White Water, CA

Salton Sea Basin

LOCATION.--Lat 33°52′10″, long 116°40′15″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.33, T.3 S., R.3 E., Riverside County, CA, Hydrologic Unit 18100200, on right bank, at upstream side of Desert Water Agency Diversion Dam, 0.75 mi upstream from confluence with Snow Creek, and 4.4 mi southwest of White Water.

DRAINAGE AREA.--4.14 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1922 to January 1927, January 1928 to July 1931, October 1994 to current year. Previous gage destroyed by flood of Aug. 29, 1931. Monthly and yearly discharges for 1922-31, published in WSP 1314. Discharge records for Falls Creek Diversion (station 10257499) since October 1994 available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder, broad-crested weir, and crest-stage gage on creek, totalizing flow meter on diversion. Auxiliary gage 0.25 mi downstream with crest-stage gage and culvert control. Elevation of gage is 1,940 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records for diversion provided by Desert Water Agency.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation upstream from station. Diversion (station 10257499) immediately upstream takes a varying portion of the base flow. For combined record of creek and diversion, see station 10257501. Published record prior to 1995 represents entire flow from basin. Records for the period 1922-1931 (prior to construction of diversion) are equivalent to those for station 10257501. Both creek only and combined flow published beginning October 1994. Statistics for station 10257501 (combined flow) reflect equivalent total flow from basin. See schematic diagram of Salton Sea Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--(Combined creek and diversion) Maximum discharge, 582 ft^3/s, Jan. 11, 2005, gage height, 7.94 ft (creek gage; no diversion at peak), from rating curve extended above 6.5 ft^3/s on basis of critical depth computations; minimum daily, 0.10 ft^3/s, Sept. 11, 1997.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and (or) maximum (*), from rating curve extended as noted above:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sep 3	1645	*101	*5.74

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 10257500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/10257500.2013.pdf

10257500 Falls Creek near White Water, CA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.26	0.35	0.44	0.45	0.61	0.23	0.13	0.26	0.15	0.09	0.12	0.12
2	0.25	0.36	0.43	0.44	0.57	0.13	0.13	0.25	0.14	0.08	0.13	0.14
3	0.24	0.36	0.45	0.42	0.68	0.12	0.11	0.25	0.14	0.09	0.11	6.6
4	0.26	0.35	0.45	0.43	0.67	0.16	0.10	0.23	0.13	0.10	0.11	1.8
5	0.28	0.34	0.43	0.43	0.60	0.16	0.10	0.25	0.13	0.11	0.11	1.1
6	0.29	0.35	0.44	0.43	0.56	0.15	0.11	0.30	0.13	0.11	0.11	0.74
7	0.30	0.35	0.42	0.43	0.54	0.25	0.10	0.33	0.12	0.11	0.11	0.53
8	0.31	0.36	0.40	0.41	0.65	0.56	0.10	0.32	0.12	0.11	0.11	0.38
9	0.31	0.40	0.39	0.42	0.66	0.47	0.14	0.28	0.11	0.10	0.11	0.29
10	0.33	0.44	0.39	0.44	0.61	0.47	0.12	0.25	0.11	0.11	0.11	0.17
11	0.38	0.45	0.40	0.49	0.57	0.44	0.10	0.22	0.12	0.11	0.11	0.18
12	0.40	0.45	0.40	0.44	0.55	0.41	0.10	0.19	0.11	0.11	0.11	0.26
13	0.40	0.43	0.57	0.38	0.53	0.24	0.10	0.18	0.11	0.10	0.11	0.14
14	0.36	0.42	0.57	0.41	0.53	0.13	0.16	0.17	0.11	0.10	0.10	0.06
15	0.33	0.42	0.51	0.50	0.51	0.15	0.13	0.17	0.11	0.09	0.10	0.05
16	0.32	0.44	0.46	0.51	0.50	0.18	0.15	0.17	0.11	0.08	0.10	0.12
17	0.31	0.44	0.47	0.50	0.49	0.16	0.17	0.17	0.11	0.07	0.10	0.16
18	0.32	0.45	0.68	0.49	0.49	0.16	0.17	0.18	0.11	0.07	0.10	0.14
19	0.32	0.44	0.64	0.47	0.49	0.09	0.15	0.18	0.11	0.07	0.08	0.14
20	0.33	0.44	0.52	0.46	0.62	0.21	0.13	0.17	0.11	0.08	0.08	0.14
21	0.36	0.42	0.49	0.45	0.54	0.14	0.11	0.16	0.11	0.54	0.08	0.06
22	0.36	0.42	0.45	0.45	0.51	0.13	0.10	0.16	0.10	1.4	0.09	0.02
23	0.35	0.41	0.44	0.45	0.48	0.12	0.10	0.17	0.10	0.35	0.09	0.02
24	0.38	0.40	0.42	0.78	0.46	0.11	0.17	0.16	0.11	0.20	0.09	0.02
25	0.37	0.40	0.45	1.9	0.45	0.11	0.09	0.16	0.11	0.16	0.09	0.11
26	0.37	0.41	0.49	2.6	0.44	0.17	0.09	0.16	0.11	0.15	0.10	0.17
27	0.36	0.42	0.47	1.3	0.43	0.33	0.06	0.17	0.11	0.14	0.09	0.17
28	0.36	0.42	0.45	1.1	0.40	0.21	0.04	0.17	0.11	0.14	0.09	0.16
29	0.35	0.41	0.45	0.88	---	0.09	0.04	0.17	0.11	0.14	0.10	0.17
30	0.34	0.43	0.47	0.76	---	0.08	0.09	0.16	0.11	0.13	0.10	0.17
31	0.35	---	0.48	0.66	---	0.11	---	0.16	---	0.13	0.11	---
Total	10.25	12.18	14.52	20.28	15.14	6.47	3.39	6.32	3.47	5.37	3.15	14.33
Mean	0.33	0.41	0.47	0.65	0.54	0.21	0.11	0.20	0.12	0.17	0.10	0.48
Max	0.40	0.45	0.68	2.6	0.68	0.56	0.17	0.33	0.15	1.4	0.13	6.6
Min	0.24	0.34	0.39	0.38	0.40	0.08	0.04	0.16	0.10	0.07	0.08	0.02
Ac-ft	20	24	29	40	30	13	6.7	13	6.9	11	6.2	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.84	0.94	1.65	2.12	2.05	1.65	1.51	1.34	0.97	0.71	0.59	0.67
Max	2.52	2.81	11.0	19.9	8.51	8.75	7.90	4.25	3.33	2.37	2.67	2.23
(WY)	(1923)	(1923)	(2011)	(2005)	(2005)	(1995)	(1926)	(1926)	(1998)	(1926)	(1926)	(1926)
Min	0.13	0.27	0.46	0.31	0.36	0.15	0.11	0.13	0.12	0.11	0.10	0.12
(WY)	(2003)	(2010)	(2006)	(1999)	(2002)	(1997)	(2013)	(1997)	(2013)	(2002)	(2013)	(2002)

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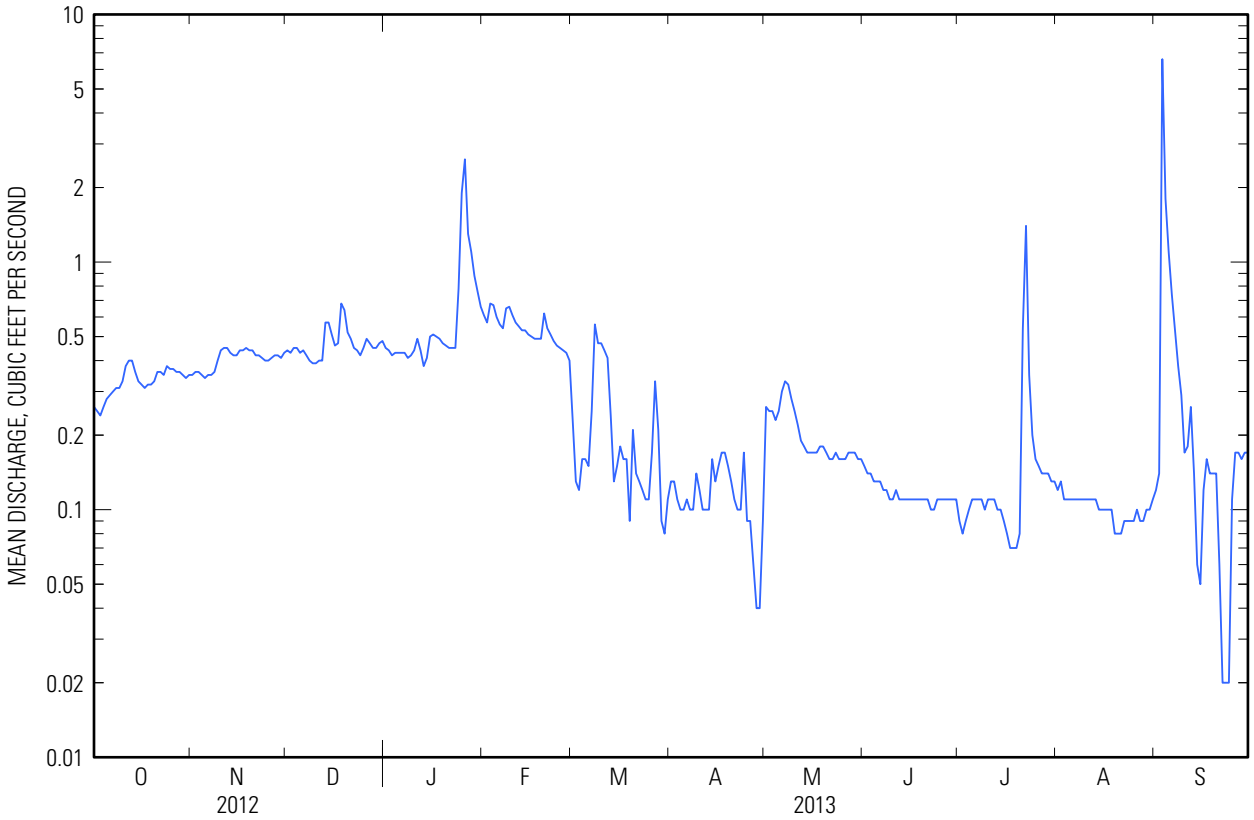
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1923 - 2013	
Annual total	194.39		114.87			
Annual mean	0.53		0.31		1.23	
Highest annual mean					4.10	2005
Lowest annual mean					0.26	2002
Highest daily mean	2.5	Apr 22	6.6	Sep 3	210	Jan 11, 2005
Lowest daily mean	0.19	Feb 11	0.02	Sep 22	0.00	Apr 16, 1997
Annual seven-day minimum	0.21	Jan 31	0.07	Sep 19	0.00	Apr 13, 1997
Maximum peak flow			101	Sep 3	582	Jan 11, 2005
Maximum peak stage			5.74	Sep 3	[a]7.94	Jan 11, 2005
Annual runoff (ac-ft)	386		228		892	
10 percent exceeds	1.0		0.52		2.4	
50 percent exceeds	0.40		0.21		0.64	
90 percent exceeds	0.25		0.10		0.15	

[a] Creek gage only; no diversion at peak.