

Water-Data Report 2011

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 mi².

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 ft³/s, Jan. 11, 2005, gage height, 7.94 ft (creek gage; no diversion at peak), from rating curve extended above 6.5 ft³/s on basis of critical depth computations; minimum daily, 0.10 ft³/s, Sept. 11, 1997.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*), from rating curve extended as noted above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 22	0735	*244	*6.59

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.52	0.54	0.62	e2.7	0.81	2.7	4.3	1.6	1.7	1.2	1.1	0.73
2	0.52	0.51	0.62	e2.6	0.34	2.7	5.0	1.5	1.7	1.1	1.00	0.76
3	0.54	0.51	0.62	e2.0	0.32	3.2	4.7	1.3	1.7	1.3	0.89	0.75
4	0.50	0.52	0.62	1.9	0.33	2.9	3.8	1.4	1.7	1.3	0.86	0.77
5	0.51	0.52	0.63	1.9	0.30	2.8	3.4	1.6	1.7	1.4	0.84	0.92
6	0.56	0.53	0.72	2.1	0.29	3.2	3.5	1.8	1.7	1.5	0.85	0.95
7	0.56	0.55	0.71	2.1	0.28	4.1	3.5	1.8	1.7	1.4	0.84	0.82
8	0.52	0.52	0.65	2.0	0.24	3.5	3.2	1.8	1.7	1.2	0.83	0.76
9	0.47	0.56	0.63	1.9	0.25	3.1	2.8	1.8	1.7	1.2	0.84	0.75
10	0.45	0.56	0.79	1.8	0.24	2.9	2.6	1.6	1.7	1.1	0.85	0.80
11	0.44	0.57	0.75	1.8	0.22	2.4	2.5	1.4	1.7	1.1	0.86	0.87
12	0.42	0.56	0.75	1.7	0.21	1.8	2.4	1.4	1.6	1.0	0.87	0.86
13	0.41	0.55	0.75	1.7	0.20	1.7	1.9	1.5	1.6	1.0	0.86	1.3
14	0.42	0.54	0.74	1.6	0.19	1.7	1.3	1.5	1.6	1.1	0.85	1.1
15	0.43	0.55	0.72	1.6	0.19	1.9	1.2	1.5	1.7	1.1	0.80	1.0
16	0.44	0.54	0.80	1.6	0.75	2.2	1.4	1.9	1.6	1.1	0.81	0.95
17	0.48	0.55	0.76	1.8	1.4	2.2	1.8	2.2	1.5	1.0	0.79	0.93
18	0.53	0.55	0.75	1.9	1.7	1.9	2.1	2.3	1.5	0.96	0.77	0.89
19	1.4	0.56	1.6	1.9	6.0	1.7	2.6	2.2	1.5	0.93	0.80	0.86
20	1.2	0.75	47	1.8	4.0	1.8	2.5	2.1	1.5	0.91	0.81	0.82
21	0.85	1.4	53	1.8	3.0	3.7	2.1	2.1	1.4	0.85	0.80	0.81
22	0.73	0.95	103	1.7	2.6	2.9	1.9	2.2	1.4	0.86	0.78	0.80
23	0.67	0.79	29	1.6	2.4	2.9	1.9	2.1	1.4	0.92	0.75	0.79
24	0.66	0.70	19	1.5	2.3	3.1	1.9	2.0	1.3	0.99	0.76	0.82
25	0.51	0.70	15	1.5	2.2	2.7	1.8	2.0	1.3	0.96	0.77	0.84
26	0.56	0.68	14	1.5	4.4	2.7	2.0	2.0	1.2	0.92	0.78	0.86
27	0.56	0.65	12	1.4	3.0	2.6	2.1	2.0	1.1	0.94	0.85	0.81
28	0.55	0.67	11	1.4	2.8	2.1	1.9	2.2	1.2	0.95	0.88	0.81
29	0.54	0.63	12	1.4	---	2.1	2.0	2.2	1.2	0.94	0.81	0.82
30	0.56	0.62	e7.6	1.4	---	2.5	1.9	1.9	1.2	0.98	0.75	0.90
31	0.57	---	e3.0	1.4	---	3.5	---	1.8	---	1.3	0.72	---
Total	18.08	18.83	339.83	55.0	40.96	81.2	76.0	56.7	45.5	33.51	25.77	25.85
Mean	0.58	0.63	11.0	1.77	1.46	2.62	2.53	1.83	1.52	1.08	0.83	0.86
Max	1.4	1.4	103	2.7	6.0	4.1	5.0	2.3	1.7	1.5	1.1	1.3
Min	0.41	0.51	0.62	1.4	0.19	1.7	1.2	1.3	1.1	0.85	0.72	0.73
Ac-ft	36	37	674	109	81	161	151	112	90	66	51	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.85	0.96	1.72	2.24	2.17	1.74	1.58	1.42	1.03	0.74	0.62	0.69
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	0.15	0.13	0.13	0.11	0.10	0.12
(WY)	(2003)	(2010)	(2006)	(1999)	(2002)	(1997)	(1997)	(1997)	(2002)	(2002)	(2006)	(2002)

10257500 Falls Creek near White Water, CA—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1923 - 2011	
Annual total	753.13	817.23		
Annual mean	2.06	2.24	1.29	
Highest annual mean			4.10	2005
Lowest annual mean			0.26	2002
Highest daily mean	103	Dec 22	210	Jan 11, 2005
Lowest daily mean	0.03	Sep 2	0.00	Apr 16, 1997
Annual seven-day minimum	0.05	Sep 1	0.00	Apr 13, 1997
Maximum peak flow			582	Jan 11, 2005
Maximum peak stage			a7.94	Jan 11, 2005
Annual runoff (ac-ft)	1,490	1,620	938	
10 percent exceeds	2.6	2.9	2.5	
50 percent exceeds	0.75	1.2	0.70	
90 percent exceeds	0.30	0.54	0.16	

^a Creek gage only; no diversion at peak.

