Water-Data Report 2013

11427700 Duncan Canyon Creek near French Meadows, CA

Sacramento River Basin

LOCATION.--Lat 39°08′09″, long 120°28′39″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.24, T.15 N., R.13 E., Placer County, CA, Hydrologic Unit 18020128, in Tahoe National Forest, on left bank, 0.2 mi upstream from diversion dam, 0.5 mi downstream from Little Duncan Creek, 2 mi northwest of French Meadows, and 20 mi northeast of Foresthill.

DRAINAGE AREA.--9.94 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1960 to current year. Published as "Duncan Creek near French Meadows" 1961-2000.

GAGE.--Water-stage recorder. Elevation of gage is 5,270 ft above NGVD of 1929, from topographic map. Prior to Sept. 3, 1965, at site 150 ft upstream at datum 9.56 ft higher.

COOPERATION.--Records provided by Placer County Water Agency, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2079.

REMARKS.--No regulation or diversion upstream from station. See schematic diagram of Middle Fork American and Rubicon River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,650 ft^3/s, Dec. 22, 1964, gage height, 10.6 ft, from floodmarks, from rating curve extended above 400 ft^3/s, on basis of computation of flow over diversion dam, maximum gage height, 10.95 ft, Jan. 1, 1997 (backwater from debris dam); minimum daily, 0.10 ft^3/s, several days during July and August 1977.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 30	1545	1,270	8.69
Dec 2	1100	*1,920	*9.32

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 11427700, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11427700.2013.pdf

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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	0.53	14	602	19	29	22	95	31	7.8	4.7	1.1	0.59
2	0.52	5.5	993	19	28	25	88	27	7.3	4.2	1.1	0.68
3	0.52	4.9	360	19	27	33	88	26	6.8	3.9	1.0	0.77
4	0.53	4.7	197	18	27	31	128	24	6.3	3.6	0.97	0.76
5	0.56	4.9	427	18	27	34	133	24	5.9	3.5	0.93	0.70
6	0.63	4.6	250	18	26	34	113	32	5.5	3.1	0.88	0.64
7	0.70	4.0	154	17	25	29	112	32	5.1	2.8	0.87	0.59
8	0.71	4.0	110	18	24	28	104	35	4.7	2.4	0.87	0.57
9	0.71	4.5	86	19	23	27	84	27	4.4	2.2	0.83	0.56
10	0.71	4.7	70	18	22	28	78	24	4.5	2.1	0.77	0.56
11	0.71	4.2	57	17	21	31	84	22	4.4	2.0	0.74	0.56
12	0.75	4.4	51	17	21	37	83	20	4.1	1.9	0.74	0.56
13	0.78	4.8	43	e17	21	46	81	19	3.9	1.8	0.78	0.78
14	0.76	5.6	37	e17	21	57	77	17	3.7	1.8	0.77	1.2
15	0.71	5.5	33	17	22	62	71	16	3.5	1.8	0.75	0.78
16	0.71	6.3	31	16	23	64	59	18	3.4	1.7	0.73	0.74
17	0.71	78	88	16	22	62	50	17	3.3	1.7	0.71	0.71
18	0.71	58	57	17	22	59	45	15	3.2	1.6	0.73	0.72
19	0.71	30	43	17	23	61	44	13	3.2	1.6	0.75	0.70
20	0.71	25	35	17	22	121	46	11	3.1	1.5	0.76	0.66
21	0.71	126	33	18	20	128	49	10	3.0	1.4	0.73	6.7
22	1.5	45	33	18	20	99	52	10	2.8	1.4	0.70	3.3
23	2.0	27	33	18	20	82	51	9.7	2.8	1.4	0.66	1.7
24	2.2	23	30	20	19	75	47	9.3	7.5	1.3	0.67	1.3
25	2.7	20	26	51	19	72	42	8.9	40	1.4	0.71	1.2
26	3.2	17	26	47	18	68	40	8.5	17	1.3	0.74	1.1
27	4.4	14	24	38	18	67	42	9.0	9.4	1.3	0.73	1.0
28	5.2	25	22	32	19	73	41	15	7.3	1.2	0.72	1.0
29	4.9	94	21	29	---	77	40	11	6.1	1.2	0.67	1.0
30	4.5	759	21	29	---	81	37	9.5	5.2	1.1	0.64	1.0
31	4.2	---	20	29	---	100	---	8.6	---	1.1	0.59	---
Total	48.89	1,427.6	4,013	680	629	1,813	2,104	559.5	195.2	64.0	24.34	33.13
Mean	1.58	47.6	129	21.9	22.5	58.5	70.1	18.0	6.51	2.06	0.79	1.10
Max	5.2	759	993	51	29	128	133	35	40	4.7	1.1	6.7
Min	0.52	4.0	20	16	18	22	37	8.5	2.8	1.1	0.59	0.56
Ac-ft	97	2,830	7,960	1,350	1,250	3,600	4,170	1,110	387	127	48	66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.88	15.8	37.6	40.5	40.6	53.5	82.3	125	61.3	8.95	1.54	1.08
Max	51.1	172	256	213	291	161	162	302	316	100	10.4	4.51
(WY)	(1963)	(1984)	(1965)	(1997)	(1986)	(1986)	(1989)	(2005)	(1983)	(1983)	(1983)	(1982)
Min	0.22	1.09	0.76	1.76	3.24	5.75	12.7	12.9	2.71	0.51	0.19	0.34
(WY)	(1978)	(1977)	(1977)	(1991)	(1977)	(1977)	(1977)	(1992)	(1992)	(1977)	(1977)	(1960)

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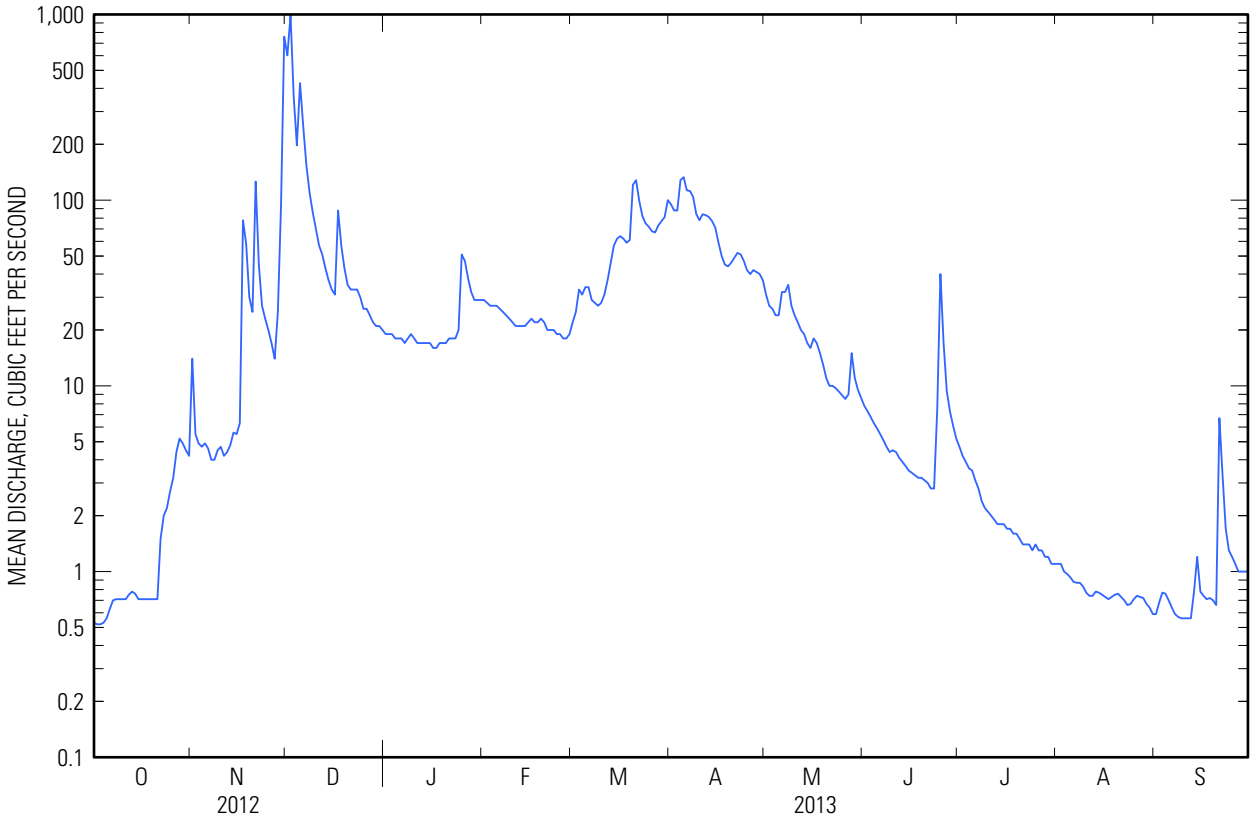
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1960 - 2013	
Annual total	16,261.41		11,591.66			
Annual mean	44.4		31.8		39.3	
Highest annual mean					86.8	1982
Lowest annual mean					4.27	1977
Highest daily mean	993	Dec 2	993	Dec 2	2,800	Jan 1, 1997
Lowest daily mean	0.52	Oct 2	0.52	Oct 2	0.10	Jul 31, 1977
Annual seven-day minimum	0.53	Sep 28	0.57	Oct 1	0.11	Aug 8, 1977
Maximum peak flow			1,920	Dec 2	3,650	Dec 22, 1964
Maximum peak stage			9.32	Dec 2	[a]10.95	Jan 1, 1997
Annual runoff (ac-ft)	32,250		22,990		28,500	
10 percent exceeds	110		74		111	
50 percent exceeds	13		16		9.6	
90 percent exceeds	0.70		0.71		0.78	

[a] Backwater from debris dam.