

Water-Data Report 2007

11436999 Caples Creek Release below Caples Dam, near Kirkwood, CA

Sacramento River Basin

LOCATION.--Lat 38°42'31", long 120°03'02" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.18, T.10 N., R.18 E., Alpine County, CA, Hydrologic Unit 18020129, Eldorado National Forest, on right bank, 500 ft downstream from main dam and outlet gate of Caples Lake, and 1.3 mi east of Kirkwood.

DRAINAGE AREA.--13.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1992 to current year. Unpublished records for water years 1971 and 1978-92 available in files of the U.S. Geological Survey. Records of release flows plus spillway flows for September 1922 to September 1992 were published as "Caples Lake Outlet near Kirkwood" (station 11437000).

REVISED RECORDS.--WSP 1931: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,730 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records were collected by El Dorado Irrigation District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 184.

REMARKS.--Flow regulated by Caples Lake (station 11436950) 500 ft upstream. Flow over Caples Lake Spillway bypasses this gage. No diversion upstream from station. See schematic diagram of South Fork American River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 372 ft³/s, May 21, 2006, gage height, 3.43 ft; minimum daily, 4.6 ft³/s, Sept. 16, 2004.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.1	25	33	86	8.8	7.8	8.9	13	16	79	16	34
2	9.3	25	33	87	8.8	7.9	9.0	15	16	70	24	34
3	9.4	25	33	90	8.8	8.2	9.0	15	16	57	26	34
4	9.7	25	33	90	8.8	8.4	10	15	16	57	26	34
5	10	26	33	76	8.6	8.3	11	15	17	57	23	34
6	10	26	33	57	8.5	8.2	11	15	17	56	20	30
7	10	26	33	57	8.2	8.2	11	15	17	56	17	18
8	10	26	33	60	7.0	8.3	11	15	17	56	15	6.5
9	10	26	33	62	5.9	8.3	11	15	17	40	15	6.2
10	10	25	33	62	6.3	8.4	11	15	17	24	17	5.5
11	10	25	25	70	6.3	8.6	11	15	17	24	19	6.2
12	10	25	17	77	5.9	8.6	11	15	17	24	19	6.0
13	10	26	17	78	5.7	8.7	11	15	17	24	21	5.9
14	10	20	17	78	5.7	8.9	11	15	21	24	25	6.2
15	8.6	14	18	78	5.7	8.9	12	15	40	24	25	6.3
16	8.6	14	18	63	5.7	9.0	12	15	53	22	25	6.2
17	8.6	14	17	46	5.6	9.1	12	15	53	19	30	21
18	32	14	46	46	5.5	9.3	12	15	59	16	36	38
19	49	14	52	35	5.4	9.3	12	15	66	13	36	36
20	33	14	36	25	6.0	9.2	12	15	70	13	36	35
21	25	19	53	25	6.4	9.0	12	15	74	13	36	35
22	25	23	68	21	6.2	8.9	12	15	74	13	36	35
23	25	23	68	15	6.6	8.7	12	15	74	13	35	34
24	25	23	68	15	7.1	8.7	12	15	74	13	35	34
25	25	23	68	12	7.7	8.7	12	16	77	13	35	34
26	25	22	68	8.8	7.8	8.8	12	16	79	13	35	34
27	25	22	68	8.8	7.8	8.8	12	16	79	13	35	34
28	25	23	75	8.8	7.8	8.8	12	16	79	13	35	34
29	25	28	85	8.8	---	8.8	12	16	79	13	34	34
30	25	33	85	8.8	---	8.8	12	16	79	13	34	18
31	25	---	85	8.8	---	8.8	---	16	---	13	34	---
Total	552.3	674	1,384	1,463.8	194.6	268.4	338.9	470	1,347	898	855	729.0
Mean	17.8	22.5	44.6	47.2	6.95	8.66	11.3	15.2	44.9	29.0	27.6	24.3
Max	49	33	85	90	8.8	9.3	12	16	79	79	36	38
Min	8.6	14	17	8.8	5.4	7.8	8.9	13	16	13	15	5.5
Ac-ft	1,100	1,340	2,750	2,900	386	532	672	932	2,670	1,780	1,700	1,450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.3	28.6	24.6	28.2	21.2	18.3	22.8	75.1	104	54.3	30.3	27.0
Max	54.5	69.5	49.0	116	92.4	40.0	83.5	252	203	183	64.5	55.3
(WY)	(1996)	(2006)	(2004)	(1997)	(1997)	(1997)	(1995)	(2006)	(1995)	(1995)	(1995)	(1995)
Min	6.72	6.75	6.60	8.70	6.95	7.22	5.80	8.18	5.90	5.99	10.1	15.2
(WY)	(1998)	(1998)	(1998)	(2002)	(2007)	(2003)	(2003)	(2001)	(2001)	(2001)	(1999)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1993 - 2007	
Annual total	22,019.2		9,175.0			
Annual mean	60.3		25.1		38.3	
Highest annual mean					64.1	2006
Lowest annual mean					19.8	2001
Highest daily mean	368	May 21	90	Jan 3	368	May 21, 2006
Lowest daily mean	5.9	Sep 21	5.4	Feb 19	4.6	Sep 16, 2004
Annual seven-day minimum	6.4	Sep 21	5.6	Feb 13	5.6	Feb 13, 2007
Maximum peak flow			94	Jul 2	372	May 21, 2006
Maximum peak stage			2.42	Jul 2	3.43	May 21, 2006
Annual runoff (ac-ft)	43,680		18,200		27,760	
10 percent exceeds	199		62		82	
50 percent exceeds	25		17		19	
90 percent exceeds	12		8.3		7.8	

