

Water-Data Report 2009

11218400 North Fork Kings River below Dinkey Creek, near Balch Camp, CA

Tulare Lake Basin

LOCATION.--Lat 36°52'47", long 119°07'40" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.22, T.12 S., R.26 E., Fresno County, CA, Hydrologic Unit 18030010, in Sierra National Forest, on right bank, 1.1 mi upstream from junction with Kings River, 1.7 mi south of Balch Camp, 2.1 mi downstream from Dinkey Creek, 9 mi east of Trimmer, and 24 mi southeast of Shaver.

DRAINAGE AREA.--387 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1960 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,035 ft above NGVD of 1929, from river-profile map.

COOPERATION.--Records, including diversion to Kings River Powerplant (station 11218700), were provided by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 175.

REMARKS.--Flow regulated by Courtright Reservoir (station 11214550), Wishon Reservoir (station 11214800), and Black Rock Reservoir (station 11216100); Balch Afterbay, capacity, 318 acre-ft; and Haas and Balch Powerplants. Water is diverted from Balch Afterbay to Kings River Powerplant, beginning Mar. 1, 1962. Some water diverted from Balch Afterbay returns upstream from station at a release to Dinkey Creek. See schematic diagram of Kings River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,400 ft³/s, Feb. 1, 1963, gage height, 19.20 ft, from rating curve extended above 10,100 ft³/s; minimum daily, 6.4 ft³/s, Oct. 3, 1977.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	41	105	68	92	255	470	564	1,060	412	87	42	44
2	41	373	63	97	301	336	635	1,880	307	83	42	44
3	41	154	58	98	268	355	583	1,140	271	79	42	44
4	43	111	55	132	282	316	423	928	245	76	43	44
5	63	100	53	221	341	267	418	920	296	72	43	44
6	51	83	52	232	269	247	490	994	325	69	47	44
7	47	84	53	204	233	225	540	1,030	283	67	48	44
8	45	85	53	275	269	221	576	1,070	254	65	49	45
9	44	110	51	336	433	225	448	1,080	256	63	49	46
10	44	112	51	222	610	205	416	1,080	232	61	48	45
11	44	93	51	211	438	211	371	1,060	223	60	48	44
12	44	89	51	205	437	208	372	981	206	58	47	45
13	45	103	54	230	197	225	472	895	202	57	47	44
14	46	97	55	211	199	253	490	858	199	56	47	44
15	46	92	60	192	196	259	396	883	188	54	46	44
16	45	85	60	289	216	288	358	883	181	53	46	46
17	45	80	60	172	241	362	374	862	196	52	46	45
18	45	75	128	239	234	423	487	792	175	51	45	45
19	45	72	66	216	220	481	663	707	162	50	46	44
20	45	70	62	178	215	486	879	652	153	49	45	44
21	48	68	63	332	212	509	1,010	558	145	48	45	44
22	51	65	107	1,010	220	441	1,080	533	138	47	45	44
23	51	65	84	1,010	421	350	1,130	508	130	47	45	44
24	50	63	77	2,160	413	327	977	461	121	46	48	43
25	49	63	134	1,080	346	329	690	407	114	45	48	44
26	49	68	85	444	283	351	589	375	109	45	47	44
27	50	81	80	366	294	421	640	352	105	44	46	43
28	50	74	90	457	482	497	729	330	99	44	46	44
29	49	71	95	290	---	555	734	313	95	43	45	44
30	49	70	96	291	---	503	771	300	90	43	46	44
31	51	---	94	312	---	514	---	338	---	42	45	---
Total	1,457	2,861	2,209	11,804	8,525	10,860	18,305	24,230	5,912	1,756	1,422	1,327
Mean	47.0	95.4	71.3	381	304	350	610	782	197	56.6	45.9	44.2
Max	63	373	134	2,160	610	555	1,130	1,880	412	87	49	46
Min	41	63	51	92	196	205	358	300	90	42	42	43
Ac-ft	2,890	5,670	4,380	23,410	16,910	21,540	36,310	48,060	11,730	3,480	2,820	2,630
Diversion, in acre-feet, to Kings River Powerplant	6,670	4,870	10,320	3,120	8,430	18,280	28,480	40,000	30,530	32,710	19,380	22,960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	49.5	86.1	131	254	282	378	634	1,024	828	279	58.3	48.1
Max	288	347	920	1,492	1,269	1,329	2,192	4,253	4,210	1,894	422	233
(WY)	(1983)	(1984)	(1967)	(1997)	(1986)	(1986)	(2006)	(1969)	(1983)	(1983)	(1961)	(1978)
Min	10.6	17.6	19.3	26.3	30.0	48.1	111	129	47.3	21.9	16.2	14.1
(WY)	(1978)	(1978)	(1977)	(1991)	(1991)	(1977)	(1977)	(1977)	(1976)	(1976)	(1968)	(1968)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1961 - 2009	
Annual total	73,819		90,668			
Annual mean	202		248		337	
Highest annual mean					1,045	1983
Lowest annual mean					49.2	1977
Highest daily mean	1,030	May 18	2,160	Jan 24	14,900	Dec 6, 1966
Lowest daily mean	37	Aug 24	41	Oct 1	6.4	Oct 3, 1977
Annual seven-day minimum	38	Aug 20	42	Jul 29	9.6	Oct 2, 1977
Maximum peak flow			2,800	Jan 22	27,400	Feb 1, 1963
Maximum peak stage			7.88	Jan 22	19.20	Feb 1, 1963
Annual runoff (ac-ft)	146,400		179,800		244,400	
10 percent exceeds	516		620		841	
50 percent exceeds	91		105		96	
90 percent exceeds	40		44		32	

