Water-Data Report 2011

11516530 Klamath River below Iron Gate Dam, CA

Klamath River Basin

LOCATION.--Lat 41°55′41″, long 122°26′35″ referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.17, T.47 N., R.5 W., Siskiyou County, CA, Hydrologic Unit 18010206, Mt. Diablo Meridian, on left bank, 0.1 mi downstream from Bogus Creek, 0.5 mi downstream from Iron Gate Dam, and 6 mi northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi^2, approximately (not including Lost River, Butte Creek, or Lower Klamath Lake Basins).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1960 to current year.
PRECIPITATION: Water years 1999-2001
CHEMICAL DATA: Water years 1962-81, 2002-04 (seasonal records only).
DISSOLVED OXYGEN: Water years 1999-2001, 2002-03 (seasonal records only).
pH: Water years 1999-2001, 2002-03 (seasonal records only).
SPECIFIC CONDUCTANCE: Water years 1999-2001, 2002-03 (seasonal records only).
AIR TEMPERATURE: Water years 1999-2001.
WATER TEMPERATURE: Water years 1962-80, 1999-2001, 2002-03 (seasonal records only).

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft above NGVD of 1929 (levels by PacifiCorp, formerly Pacific Power and Light Co.).

REMARKS.--Records good. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft; Iron Gate Reservoir (station 11516510), other smaller reservoirs and diversions upstream from station. Records collected in connection with Federal Energy Regulatory Commission (FERC) project no. 2083. See schematic diagram of Klamath River and Trinity River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft^3/s, Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 389 ft^3/s, Aug. 25-28, 1992.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 11516530, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/11516530.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,030	1,320	1,340	1,330	1,860	1,460	5,550	4,610	3,340	1,700	1,060	1,040
2	1,030	1,330	1,360	1,320	1,850	2,280	5,620	4,260	3,320	1,630	1,050	1,060
3	1,030	1,330	1,360	1,320	1,870	2,380	5,390	4,110	3,170	1,570	1,050	1,080
4	1,030	1,330	1,360	1,320	1,860	2,370	5,040	3,910	3,080	1,520	1,060	1,080
5	1,030	1,330	1,340	1,320	1,670	2,420	4,980	3,840	3,050	1,430	1,060	1,080
6	1,030	1,330	1,350	1,210	1,620	2,630	4,770	3,820	3,040	1,310	1,060	1,080
7	1,030	1,330	1,340	1,160	1,620	2,680	4,460	3,610	2,900	1,200	1,060	1,090
8	1,030	1,330	1,340	1,150	1,620	2,560	4,250	3,530	2,800	1,120	1,050	1,090
9	1,030	1,330	1,350	1,150	3,160	2,490	4,230	3,470	2,790	1,100	1,060	1,080
10	1,030	1,340	1,350	1,150	4,140	2,600	4,140	3,490	2,720	1,110	1,060	1,080
11	1,030	1,330	1,360	1,150	3,180	2,810	3,920	3,460	2,640	1,110	1,050	1,080
12	1,040	1,330	1,360	1,150	2,760	2,860	3,650	3,240	2,530	1,110	1,030	1,070
13	1,030	1,330	1,450	1,210	2,530	2,830	3,430	3,160	2,490	1,070	1,040	1,070
14	1,030	1,340	1,860	1,190	2,280	2,750	3,190	3,100	2,480	1,050	1,040	1,070
15	1,030	1,330	1,920	1,230	2,110	3,180	2,990	3,120	2,430	1,060	1,040	1,070
16	1,030	1,330	1,900	1,720	1,980	3,620	2,930	3,210	2,350	1,060	1,040	1,070
17	1,030	1,330	1,850	1,710	1,820	3,010	2,990	3,240	2,340	1,050	1,040	1,070
18	1,030	1,340	1,740	1,830	1,730	2,990	3,430	3,230	2,250	1,050	1,040	1,070
19	1,030	1,330	1,660	1,900	1,610	2,970	3,730	3,190	2,220	1,080	1,040	1,070
20	1,030	1,330	1,550	1,810	1,500	3,170	3,890	3,200	2,200	1,090	1,040	1,080
21	1,030	1,330	1,460	1,720	1,390	3,830	3,790	3,200	2,160	1,070	1,050	1,080
22	1,030	1,330	1,350	1,710	1,340	4,030	3,760	3,190	2,080	1,080	1,050	1,070
23	1,040	1,330	1,320	1,700	1,320	4,030	4,070	3,190	2,030	1,090	1,050	1,070
24	1,050	1,330	1,320	1,700	1,320	3,860	4,360	3,170	1,960	1,090	1,050	1,070
25	1,040	1,330	1,320	1,690	1,320	3,850	4,360	3,220	1,940	1,090	1,050	1,070
26	1,040	1,330	1,320	1,690	1,330	4,180	4,350	3,230	1,880	1,080	1,050	1,080
27	1,040	1,330	1,320	1,690	1,330	4,150	4,270	3,400	1,830	1,080	1,050	1,100
28	1,050	1,330	1,350	1,690	1,340	4,150	4,260	3,190	1,820	1,080	1,050	1,100
29	1,040	1,330	1,430	1,690	---	4,210	4,460	3,130	1,800	1,080	1,050	1,110
30	1,040	1,330	1,340	1,700	---	4,910	4,710	3,030	1,760	1,080	1,050	1,100
31	1,080	---	1,330	1,720	---	5,250	---	3,230	---	1,080	1,060	---
Total	32,090	39,920	45,000	46,030	53,460	100,510	124,970	105,980	73,400	36,320	32,530	32,330
Mean	1,035	1,331	1,452	1,485	1,909	3,242	4,166	3,419	2,447	1,172	1,049	1,078
Max	1,080	1,340	1,920	1,900	4,140	5,250	5,620	4,610	3,340	1,700	1,060	1,110
Min	1,030	1,320	1,320	1,150	1,320	1,460	2,930	3,030	1,760	1,050	1,030	1,040
Ac-ft	63,650	79,180	89,260	91,300	106,000	199,400	247,900	210,200	145,600	72,040	64,520	64,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,553	1,923	2,451	2,775	2,888	3,385	2,944	2,176	1,246	832	979	1,242
Max	3,353	5,254	6,735	9,553	9,150	10,780	6,922	5,559	3,289	1,429	1,208	2,052
(WY)	(1985)	(1985)	(1984)	(1997)	(1965)	(1972)	(1971)	(1998)	(1998)	(1982)	(1965)	(1965)
Min	852	873	889	888	525	511	572	512	506	428	398	538
(WY)	(1982)	(1992)	(1992)	(1992)	(1992)	(1992)	(1994)	(1992)	(1992)	(1992)	(1992)	(1992)

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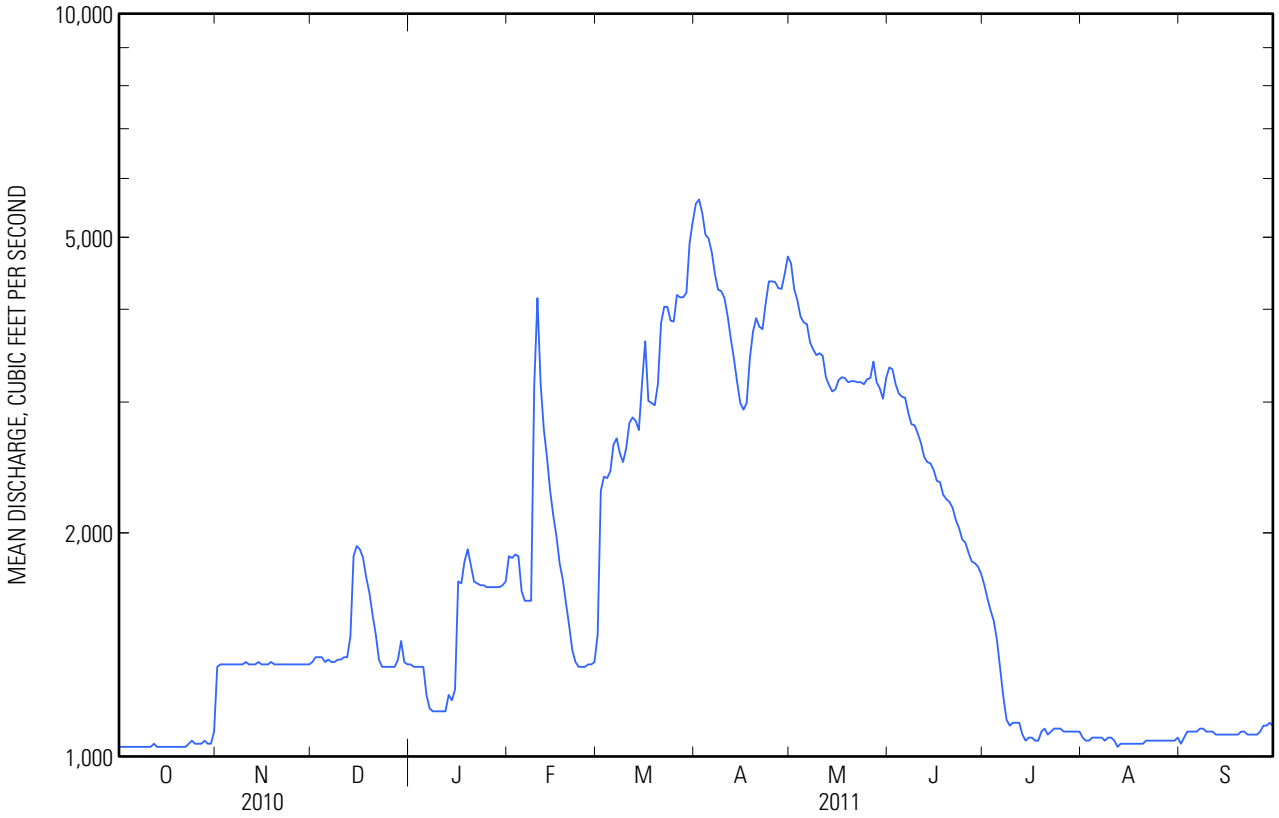
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1961 - 2011	
Annual total	437,055		722,540			
Annual mean	1,197		1,980		2,028	
Highest annual mean					3,657	1965
Lowest annual mean					641	1992
Highest daily mean	1,920	Dec 15	5,620	Apr 2	25,000	Dec 22, 1964
Lowest daily mean	811	Jul 8	1,030	Oct 1	389	Aug 25, 1992
Annual seven-day minimum	814	Jul 5	1,030	Oct 1	390	Aug 24, 1992
Maximum peak flow			5,700	Apr 2	29,400	Dec 22, 1964
Maximum peak stage			6.82	Apr 2	13.63	Dec 22, 1964
Annual runoff (ac-ft)	866,900		1,433,000		1,469,000	
10 percent exceeds	1,370		3,830		3,860	
50 percent exceeds	1,300		1,350		1,360	
90 percent exceeds	905		1,040		743