Water-Data Report 2012

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

REMARKS.--Records good except for estimated daily discharges, which are fair. 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, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 11516530, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11516530.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,050	1,310	1,290	1,670	1,010	1,290	1,880	3,480	1,640	1,210	1,020	1,440
2	1,050	1,310	1,280	1,560	1,010	1,300	e1,860	3,250	1,590	1,110	1,020	1,040
3	1,030	1,320	1,280	1,450	1,000	1,300	1,860	3,190	1,580	1,030	1,020	1,020
4	1,020	1,320	1,280	1,340	1,000	1,300	2,060	3,220	1,590	1,030	1,020	1,020
5	1,030	1,370	1,280	1,220	1,000	1,290	3,210	3,190	1,570	1,030	1,020	1,020
6	1,040	1,670	1,280	1,100	1,000	1,290	3,670	3,190	1,560	1,030	1,020	1,020
7	1,050	1,550	1,280	1,020	1,000	1,310	3,930	3,190	1,570	1,020	1,020	1,020
8	1,050	1,420	1,280	1,020	1,000	1,310	3,970	3,190	1,570	1,010	1,020	1,020
9	1,050	1,330	1,290	1,020	1,000	1,300	3,870	3,190	1,570	1,020	1,020	1,020
10	1,050	1,340	1,290	1,020	1,000	1,290	3,850	3,180	1,570	1,020	1,020	1,020
11	1,050	1,340	1,280	1,020	1,000	1,290	3,850	3,200	1,570	1,020	1,020	1,020
12	1,050	1,340	1,280	1,020	1,000	1,290	3,800	3,200	1,570	1,020	1,020	1,030
13	1,050	1,330	1,290	1,020	1,010	1,300	3,480	3,160	1,570	1,010	1,020	1,040
14	1,050	1,330	1,280	1,020	999	1,300	3,510	3,030	1,570	1,010	1,020	1,040
15	1,050	1,330	1,280	1,020	999	1,310	3,510	2,750	1,570	1,010	1,020	1,040
16	1,050	1,330	1,280	1,020	1,010	1,440	e3,140	2,550	1,560	1,020	1,020	1,030
17	1,040	1,560	1,240	1,030	1,010	1,430	3,050	2,380	1,560	1,030	1,020	1,030
18	1,030	1,560	1,110	1,120	996	1,410	3,040	2,180	1,570	1,030	1,020	1,040
19	1,020	1,480	1,040	1,660	996	1,420	2,990	2,010	1,570	1,020	1,020	1,040
20	1,010	1,400	1,040	1,540	1,000	1,410	2,870	1,950	1,570	1,020	1,020	1,020
21	1,020	1,360	1,050	1,400	1,000	1,420	2,930	1,950	1,560	1,020	1,020	1,030
22	1,020	1,340	1,040	1,280	1,000	1,430	2,950	1,950	1,550	1,030	1,010	1,030
23	1,020	1,320	1,040	1,160	1,000	1,420	3,380	1,980	1,550	1,040	1,020	1,030
24	1,010	1,330	1,040	1,040	1,000	1,410	3,840	1,950	1,540	1,040	1,020	1,030
25	1,010	1,340	1,050	1,210	1,000	1,420	3,710	2,030	1,530	1,040	1,020	1,030
26	1,010	1,340	1,060	1,290	1,000	1,410	3,800	1,950	1,520	1,030	1,020	1,030
27	1,010	1,340	1,060	1,160	1,000	1,410	3,950	1,950	1,520	1,030	1,020	1,030
28	1,010	1,340	1,060	1,070	1,000	1,450	3,880	1,950	1,500	1,040	1,010	1,030
29	1,020	1,340	1,040	1,040	1,030	1,560	3,860	1,950	1,390	1,040	1,020	1,030
30	1,030	1,340	1,210	1,040	---	1,830	3,760	1,860	1,320	1,040	1,020	1,030
31	1,080	---	1,780	1,030	---	1,900	---	1,730	---	1,040	1,570	---
Total	32,060	41,330	37,380	36,610	29,070	43,240	99,460	79,930	46,470	32,090	32,150	31,270
Mean	1,034	1,378	1,206	1,181	1,002	1,395	3,315	2,578	1,549	1,035	1,037	1,042
Max	1,080	1,670	1,780	1,670	1,030	1,900	3,970	3,480	1,640	1,210	1,570	1,440
Min	1,010	1,310	1,040	1,020	996	1,290	1,860	1,730	1,320	1,010	1,010	1,020
Ac-ft	63,590	81,980	74,140	72,620	57,660	85,770	197,300	158,500	92,170	63,650	63,770	62,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,543	1,912	2,427	2,745	2,851	3,346	2,951	2,183	1,252	836	980	1,238
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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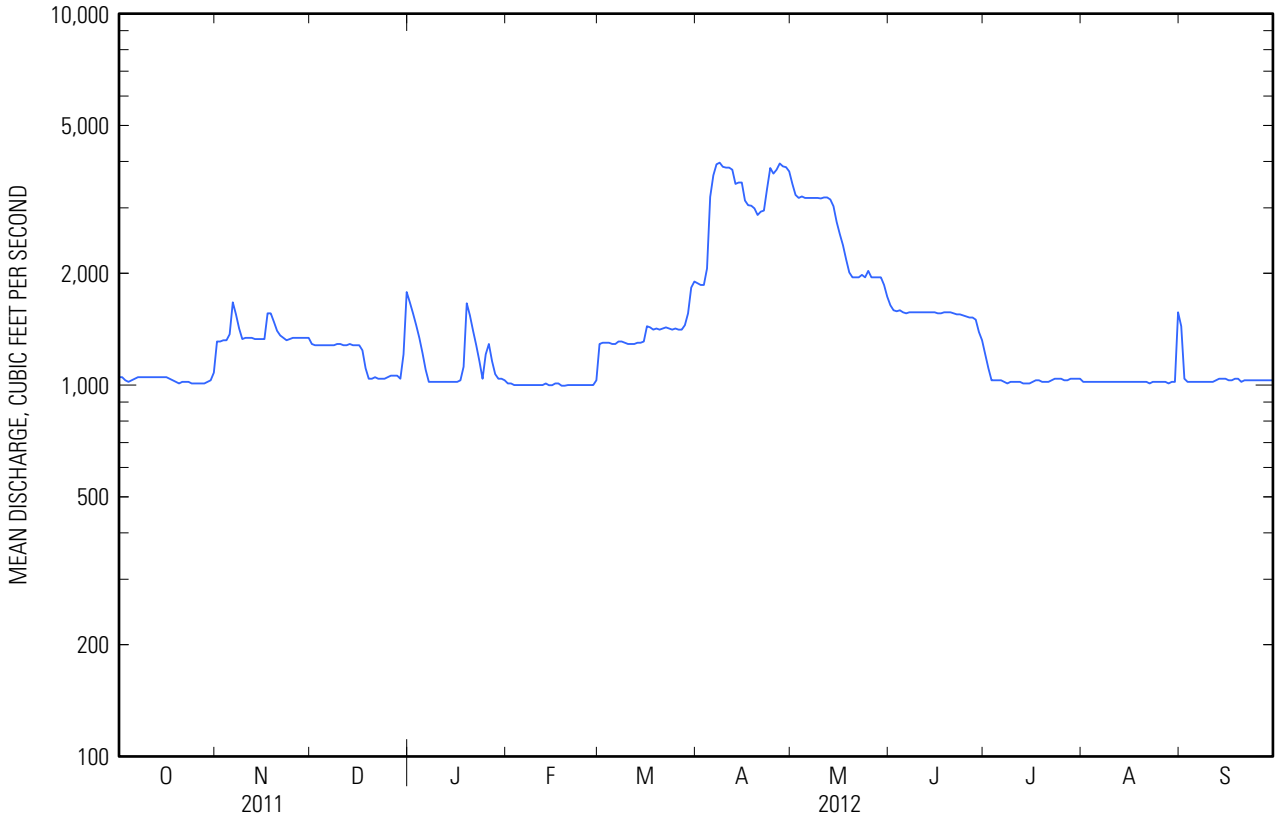
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1961 - 2012	
Annual total	716,300		541,060			
Annual mean	1,962		1,478		2,018	
Highest annual mean					3,657	1965
Lowest annual mean					641	1992
Highest daily mean	5,620	Apr 2	3,970	Apr 8	25,000	Dec 22, 1964
Lowest daily mean	1,010	Oct 20	996	Feb 18	389	Aug 25, 1992
Annual seven-day minimum	1,010	Oct 22	999	Feb 18	390	Aug 24, 1992
Maximum peak flow			4,070	Apr 8	29,400	Dec 22, 1964
Maximum peak stage			5.64	Apr 8	13.63	Dec 22, 1964
Annual runoff (ac-ft)	1,421,000		1,073,000		1,462,000	
10 percent exceeds	3,830		3,000		3,820	
50 percent exceeds	1,340		1,210		1,360	
90 percent exceeds	1,050		1,010		743