Water-Data Report 2013

13250000 PAYETTE RIVER NEAR LETHA, ID

Middle Snake-Boise Basin
Payette Subbasin

LOCATION.--Lat 43°53′46″, long 116°37′40″ referenced to North American Datum of 1983, in SE ¼ SW ¼ SW ¼ sec.31, T.7 N., R.2 W., Gem County, ID, Hydrologic Unit 17050122, Letha quad., on left bank just upstream from county road bridge, 1.1 mi east of Letha, and at mile 25.

DRAINAGE AREA.--2,760 mi^2, approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1978 to September 1983, October 1983 to September 1986 (irrigation season only), May 1994 to current year. July to November 1952, March to November 1953, at site 0.6 mi upstream not equivalent due to inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 2,280 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry and crest stage gage. Flow regulated by Deadwood Reservoir, Cascade Reservoir, and to some extend by Black Canyon Dam about 13.5 mi upstream. Diversions above station for irrigation of about 190,000 acres, of which 50,000 acres are located below station. About 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 27,000 ft^3/s Jan. 2, 1997; minimum, 51 ft^3/s June 11, 1994, gage height, 6.97 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,680 ft^3/s Dec. 6, gage height, 12.67 ft; minimum daily, 206 ft^3/s Sept. 23.

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 13250000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/13250000.2013.pdf

13250000 PAYETTE RIVER NEAR LETHA, ID—Continued

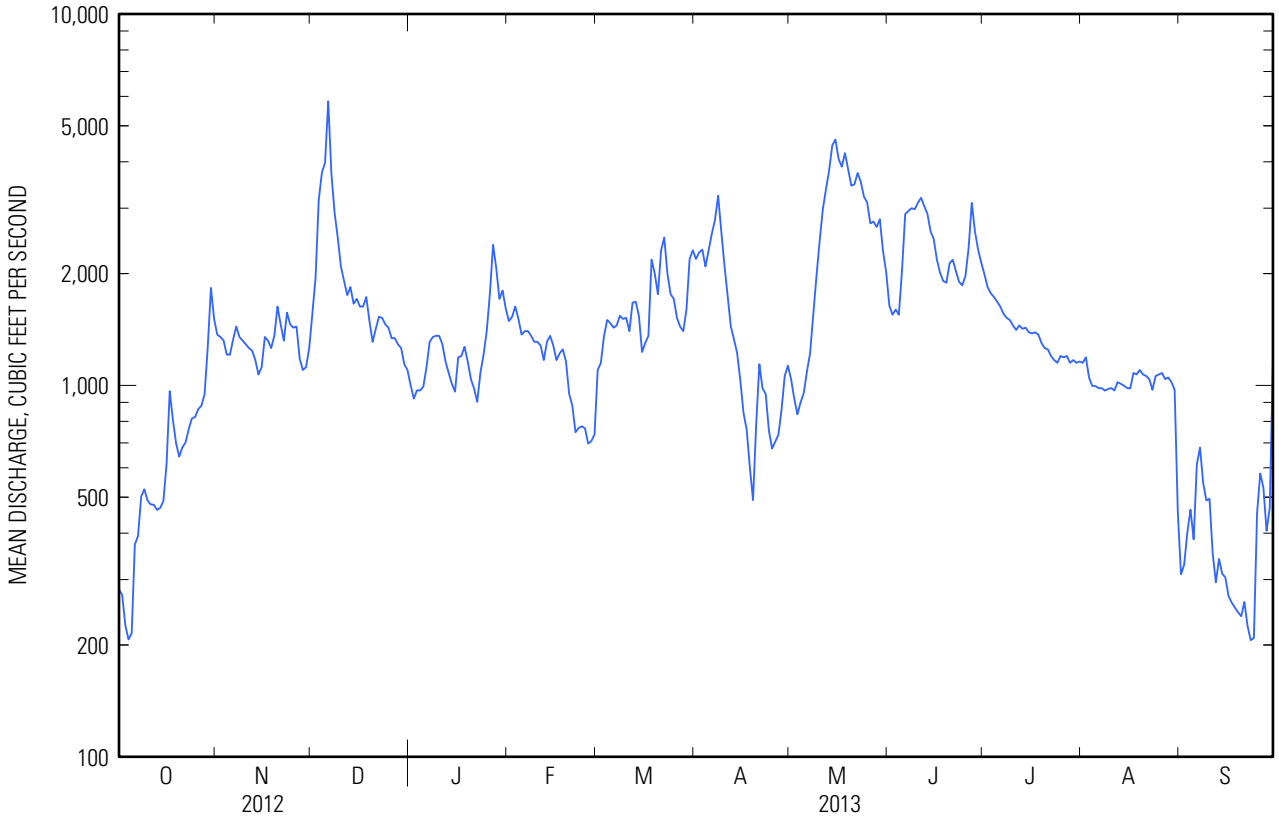
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	282	1,370	1,560	1,000	1,490	1,100	2,190	1,040	1,640	1,990	1,150	310
2	273	1,350	1,950	921	1,530	1,150	2,280	922	1,550	1,840	1,190	329
3	226	1,320	3,150	970	1,630	1,360	2,320	836	1,600	1,770	1,050	402
4	207	1,210	3,740	969	1,510	1,500	2,090	900	1,550	1,730	997	463
5	215	1,210	3,980	992	1,370	1,470	2,310	953	2,040	1,680	996	385
6	373	1,330	5,820	1,120	1,400	1,430	2,560	1,090	2,890	1,630	983	613
7	393	1,440	3,720	1,310	1,400	1,450	2,790	1,220	2,950	1,560	983	680
8	502	1,350	2,920	1,350	1,360	1,540	3,240	1,550	3,000	1,520	968	546
9	525	1,320	2,500	1,360	1,310	1,510	2,590	1,960	2,980	1,500	978	490
10	490	1,290	2,090	1,360	1,310	1,520	2,100	2,440	3,100	1,450	984	495
11	478	1,260	1,910	1,290	1,280	1,400	1,740	2,970	3,200	1,410	969	353
12	477	1,240	1,750	e1,160	1,170	1,670	1,440	3,370	3,040	1,450	1,020	295
13	462	1,170	1,840	e1,080	1,310	1,680	1,330	3,790	2,900	1,420	1,010	341
14	468	1,070	1,660	1,010	1,360	1,540	1,220	4,430	2,600	1,430	998	311
15	488	1,120	1,710	962	1,280	1,230	1,030	4,590	2,480	1,390	984	304
16	613	1,350	1,630	e1,190	1,170	1,300	843	4,070	2,180	1,380	981	271
17	965	1,320	1,630	e1,200	1,220	1,360	760	3,880	2,010	1,390	1,080	260
18	808	1,260	1,730	e1,270	1,250	2,180	601	4,220	1,910	1,370	1,070	252
19	699	1,360	1,490	e1,160	1,160	2,000	491	3,820	1,890	1,300	1,100	245
20	643	1,630	1,310	e1,040	949	1,760	787	3,450	2,130	1,260	1,070	239
21	681	1,460	1,420	e981	882	2,310	1,140	3,480	2,180	1,250	1,060	261
22	702	1,320	1,530	e903	748	2,500	982	3,730	2,030	1,200	1,040	225
23	763	1,570	1,520	e1,080	768	2,000	948	3,530	1,900	1,170	973	206
24	815	1,460	1,460	1,210	776	1,760	757	3,220	1,860	1,150	1,060	209
25	822	1,430	1,430	1,400	766	1,710	676	3,110	1,970	1,200	1,070	453
26	863	1,440	1,340	1,770	697	1,520	705	2,730	2,340	1,190	1,080	579
27	882	1,180	1,340	2,390	708	1,440	736	2,760	3,100	1,200	1,040	530
28	947	1,100	1,290	2,070	738	1,400	860	2,670	2,600	1,150	1,050	406
29	1,270	1,120	1,260	1,710	---	1,600	1,060	2,800	2,320	1,170	1,020	468
30	1,830	1,260	1,140	1,800	---	2,190	1,130	2,300	2,140	1,150	973	1,160
31	1,510	---	1,100	1,610	---	2,310	---	2,020	---	1,160	455	---
Total	20,672	39,310	62,920	39,638	32,542	50,890	43,706	83,851	70,080	43,460	31,382	12,081
Mean	667	1,310	2,030	1,279	1,162	1,642	1,457	2,705	2,336	1,402	1,012	403
Max	1,830	1,630	5,820	2,390	1,630	2,500	3,240	4,590	3,200	1,990	1,190	1,160
Min	207	1,070	1,100	903	697	1,100	491	836	1,550	1,150	455	206
Ac-ft	41,000	77,970	124,800	78,620	64,550	100,900	86,690	166,300	139,000	86,200	62,250	23,960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	850	1,385	1,706	1,951	2,313	3,422	4,883	6,170	6,023	1,986	1,055	676
Max	1,829	2,929	4,185	8,417	6,722	6,786	10,850	10,950	11,050	5,899	1,933	1,664
(WY)	(1984)	(1984)	(1996)	(1997)	(1997)	(1997)	(2006)	(2006)	(1982)	(1982)	(2011)	(1986)
Min	381	879	800	1,033	1,030	1,539	1,175	1,170	340	145	145	145
(WY)	(2004)	(1980)	(1980)	(2001)	(2005)	(2010)	(2001)	(2001)	(1994)	(2001)	(2001)	(1994)

13250000 PAYETTE RIVER NEAR LETHA, ID—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1979 - 2013	
Annual total	1,125,111		530,532			
Annual mean	3,074		1,454		2,694	
Highest annual mean					4,743	1997
Lowest annual mean					840	2001
Highest daily mean	18,200	Apr 27	5,820	Dec 6	27,000	Jan 2, 1997
Lowest daily mean	181	Sep 17	206	Sep 23	63	Sep 18, 1994
Annual seven-day minimum	209	Sep 15	234	Sep 18	73	Sep 17, 1994
Annual runoff (ac-ft)	2,232,000		1,052,000		1,951,000	
10 percent exceeds	8,800		2,630		7,100	
50 percent exceeds	1,440		1,300		1,470	
90 percent exceeds	485		490		511