Water-Data Report 2012

13046000 HENRYS FORK NEAR ASHTON, ID

Upper Snake Basin
Lower Henrys Subbasin

LOCATION.--Lat 44°04′11″, long 111°30′38″ referenced to North American Datum of 1983, in NW ¼ NE ¼ NW ¼ sec.33, T.9 N., R.42 E., Fremont County, ID, Hydrologic Unit 17040203, Lemon Lake quad., on left bank 0.8 mi downstream from powerplant, 3.1 mi west of Ashton, and at mile 44.2.

DRAINAGE AREA.--1,097 mi^2, Mean elevation, 6,710 ft.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1890 to June 1891, August 1902 to June 1909, April 1920 to current year (seasonal records only 1920-26). Monthly discharge only for some periods, published in WSP 1317. Published as "Henrys Fork in canyon, above Fall River", 1890-91, and as "North Fork of Snake River near Ora", 1902-09. Published as station 13046023 from 1981-92.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1890-91. WDR ID-95-1: 1993 (M). WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,090 ft above NGVD of 1929, from topographic map. April 1890 to June 1891, nonrecording gage at site 5.5 mi downstream at different datum. August 1902 to Apr. 15, 1921, nonrecording gage, and Apr. 16, 1921 to May 3, 1930, water-stage recorder, at site 1.0 mi downstream at different datum. May 3, 1930 to Sept. 30, 1980, water-stage recorder at site 0.5 mi upstream at different datum.

REMARKS.--Records good including estimated daily discharges. Station equipment includes satellite telemetry. Diurnal fluctuation caused by powerplant above station. Flow regulated by Henrys Lake (see station 13039000), Island Park Reservoir, and by Ashton Dam, 0.8 mi upstream. Diversions above station for irrigation of about 24,500 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--
UNREGULATED PERIOD (1890-1922): Maximum discharge prior to regulation, 6,000 ft^3/s May 8, 1890; minimum daily, 910 ft^3/s Feb. 4, 1906.
REGULATED PERIOD (1923 to current year): Maximum discharge since regulation began, 8,140 ft^3/s May 15, 1984, gage height, 6.50 ft; minimum, 53 ft^3/s Sept. 20, 1960, gage height, 5.45 ft, site and datum then in use; minimum daily, 171 ft^3/s Oct. 18, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,900 ft^3/s April 27, gage height 4.87 ft; minimum discharge, 615 ft^3/s, Jan. 21, gage height, 2.45 ft.

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 13046000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/13046000.2012.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	1,650	1,400	1,500	e1,300	1,440	1,360	1,980	2,910	2,030	1,750	2,190	1,990
2	1,660	1,380	e1,500	1,160	1,420	1,360	1,900	2,910	2,020	1,740	2,140	1,970
3	1,670	1,390	e1,600	1,210	1,390	1,350	1,850	2,870	2,000	1,750	2,140	1,930
4	1,680	1,400	e1,550	1,260	1,380	1,350	1,890	2,910	2,010	1,730	2,150	1,960
5	1,760	1,440	e1,350	1,360	1,370	1,350	2,000	2,910	2,030	1,730	2,140	1,890
6	1,800	1,420	e1,400	1,300	1,370	1,380	1,990	2,780	2,060	1,810	2,210	1,770
7	1,820	1,420	e1,550	1,210	1,370	1,360	1,850	2,670	1,990	1,870	2,260	1,680
8	1,740	1,360	e1,500	1,220	1,370	1,360	1,750	2,550	1,930	1,870	2,200	1,550
9	1,710	1,430	e1,500	1,180	1,390	1,360	1,750	2,390	2,040	1,890	2,170	1,560
10	1,710	1,400	e1,450	1,210	1,380	1,360	1,850	2,410	2,010	1,880	2,190	1,560
11	1,870	1,400	e1,500	e1,350	1,360	1,360	2,070	2,500	1,950	2,020	2,210	1,540
12	1,810	1,430	e1,550	e1,300	1,360	1,370	2,440	2,560	1,910	2,050	2,170	1,550
13	1,660	1,440	e1,500	e1,400	1,360	1,380	2,370	2,490	1,890	2,060	2,100	1,460
14	1,480	1,420	e1,400	e1,450	1,350	1,410	2,140	2,470	1,880	2,130	2,060	1,430
15	1,650	1,400	1,390	e1,500	1,350	1,450	2,140	2,470	1,880	2,240	2,200	1,410
16	1,690	1,480	1,380	e1,500	1,340	1,520	2,060	2,370	1,890	2,190	2,170	1,400
17	1,750	1,530	1,380	e1,300	1,350	1,720	2,080	2,420	1,880	2,210	2,160	e1,380
18	1,720	1,610	1,370	e1,500	1,350	1,780	2,230	2,330	1,860	2,050	2,130	1,360
19	1,690	1,570	1,390	e1,550	1,380	1,690	2,290	2,320	1,840	2,070	2,150	1,360
20	1,680	1,550	1,370	1,420	1,350	1,560	2,400	2,270	1,840	2,160	2,080	1,370
21	1,680	1,550	1,420	1,490	1,380	1,490	2,720	2,110	1,810	2,060	2,060	1,360
22	1,690	1,540	1,330	1,420	1,370	1,480	2,920	2,210	1,770	2,100	2,060	1,350
23	1,680	1,540	e1,400	1,400	1,350	1,540	3,010	2,110	1,760	2,110	2,120	1,360
24	1,690	1,540	e1,450	1,380	1,340	1,630	3,070	2,190	1,750	2,130	2,020	1,360
25	1,460	1,550	e1,500	1,390	1,360	1,710	3,290	2,070	1,750	2,140	2,050	1,390
26	1,400	1,510	e1,450	1,410	1,360	1,740	3,470	2,080	1,750	2,150	2,060	1,390
27	1,420	1,530	e1,500	1,320	1,350	1,710	3,700	e2,150	1,750	2,220	2,100	1,360
28	1,390	1,560	e1,500	1,420	1,360	1,650	3,530	e2,190	1,760	2,230	2,090	1,350
29	1,410	1,530	e1,400	1,430	1,360	1,610	3,190	e2,150	1,730	2,260	2,070	1,340
30	1,400	1,540	1,270	1,450	---	1,610	2,980	e2,050	1,720	2,260	1,890	1,350
31	1,390	---	e1,300	1,450	---	1,820	---	e2,000	---	2,150	1,870	---
Total	50,810	44,260	44,650	42,240	39,660	46,820	72,910	74,820	56,490	63,010	65,610	45,730
Mean	1,639	1,475	1,440	1,363	1,368	1,510	2,430	2,414	1,883	2,033	2,116	1,524
Max	1,870	1,610	1,600	1,550	1,440	1,820	3,700	2,910	2,060	2,260	2,260	1,990
Min	1,390	1,360	1,270	1,160	1,340	1,350	1,750	2,000	1,720	1,730	1,870	1,340
Ac-ft	100,800	87,790	88,560	83,780	78,670	92,870	144,600	148,400	112,000	125,000	130,100	90,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 1922, BY WATER YEAR (WY) (UNREGULATED)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,209	1,172	1,135	1,121	1,106	1,089	1,548	2,743	2,154	1,425	1,243	1,210
Max	1,321	1,273	1,270	1,270	1,270	1,270	2,028	4,167	2,697	1,618	1,434	1,351
(WY)	(1905)	(1905)	(1891)	(1891)	(1891)	(1891)	(1907)	(1904)	(1909)	(1907)	(1922)	(1921)
Min	1,039	990	990	990	979	938	1,172	1,663	1,345	1,085	1,034	995
(WY)	(1906)	(1906)	(1906)	(1906)	(1906)	(1906)	(1920)	(1905)	(1905)	(1905)	(1905)	(1905)

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SUMMARY STATISTICS

	Water Years 1891 - 192	
Annual mean	[a]1,395	
Highest annual mean	1,600	190
Lowest annual mean	1,223	190
Highest daily mean	5,370	May 20, 190
Lowest daily mean	910	Feb 4, 190
Annual seven-day minimum	910	Mar 5, 190
Maximum peak flow	6,000	May 8, 189
Annual runoff (ac-ft)	1,010,000	
10 percent exceeds	2,400	
50 percent exceeds	1,260	
90 percent exceeds	990	

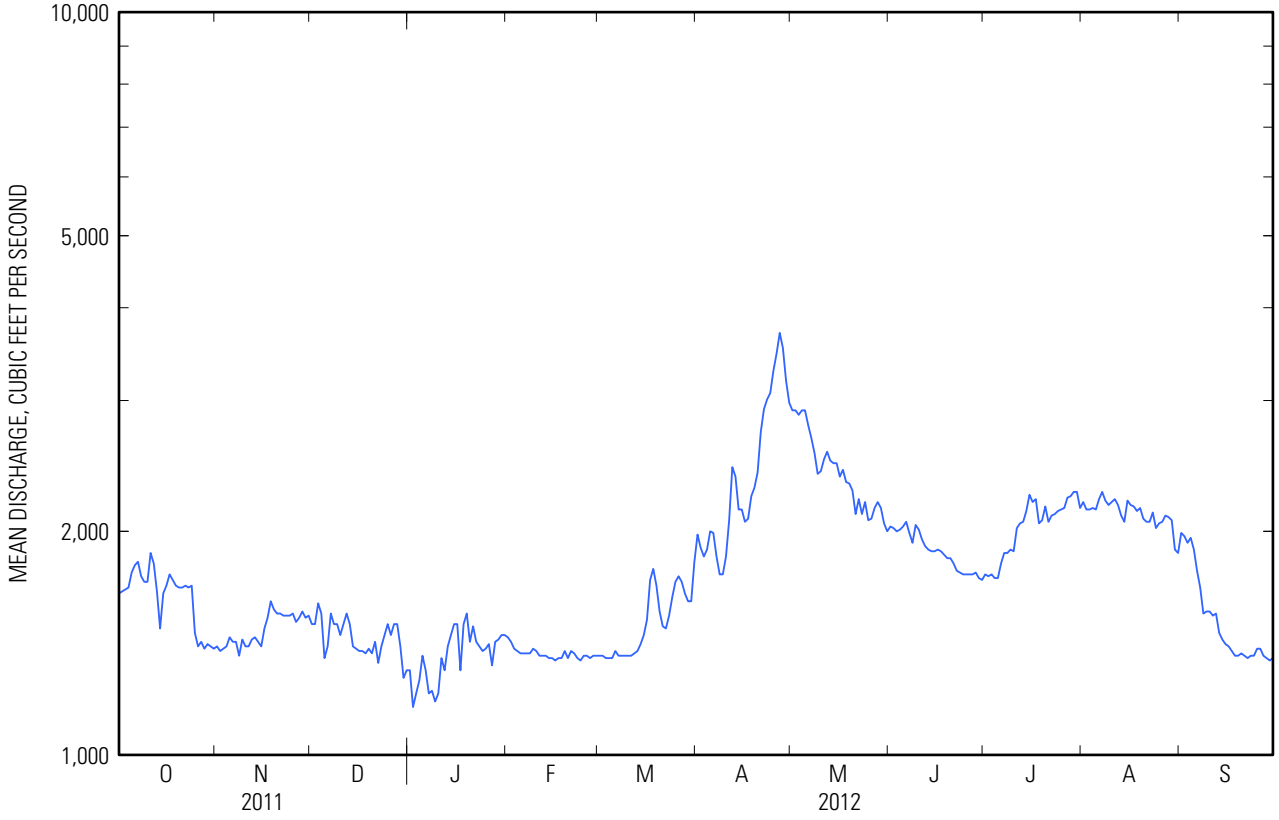
[a] Statistics 1891-1922 are prior to regulation.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,213	1,104	1,051	1,033	1,061	1,108	1,616	2,623	2,113	1,950	1,896	1,516
Max	1,830	2,067	1,704	1,758	1,760	1,910	2,768	5,256	4,511	3,223	3,212	2,250
(WY)	(1998)	(1972)	(1998)	(1997)	(1997)	(1997)	(1997)	(1997)	(1984)	(1984)	(1984)	(1945)
Min	753	633	630	624	624	648	901	966	1,032	1,019	898	842
(WY)	(1967)	(1959)	(1941)	(1942)	(1939)	(1942)	(1967)	(1934)	(1934)	(1934)	(1934)	(1934)

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1923 - 2012	
Annual total	668,509		[b]647,010			
Annual mean	1,832		1,768		1,534	
Highest annual mean					2,361	1984
Lowest annual mean					996	1934
Highest daily mean	6,550	Jun 8	3,700	Apr 27	7,670	May 15, 1984
Lowest daily mean	784	Feb 1	1,160	Jan 2	171	Oct 18, 1961
Annual seven-day minimum	1,020	Jan 28	1,250	Jan 2	452	Nov 23, 1958
Annual runoff (ac-ft)	1,326,000		1,283,000		1,111,000	
10 percent exceeds	3,400		2,260		2,400	
50 percent exceeds	1,550		1,680		1,360	
90 percent exceeds	1,090		1,360		806	

[b] Regulated.

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