

Water-Data Report 2012

**06288400 BIGHORN RIVER AT TWO LEGGINS BRIDGE, NEAR HARDIN, MT**

Big Horn Basin  
Little Bighorn Subbasin

LOCATION.--Lat 45°38'39", long 107°39'27" referenced to North American Datum of 1927, in SE ¼ SW ¼ NE ¼ sec.21, T.2 S., R.33 E., Big Horn County, MT, Hydrologic Unit 10080016, on Secondary Highway 313 bridge over the Bighorn River at Two Leggins Fishing Access about 5.3 miles southwest of Hardin MT.

DRAINAGE AREA.--20,610 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 2012 to September 30, 2012.

GAGE.--Water-stage recorder. Elevation of gage is 2,930 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are fair. Since November 1965, flow has been regulated by Bighorn Lake (usable capacity, 1,312,000 acre-ft). Major regulation prior to November 1965 occurred from 14 reservoirs in Wyoming and one in Montana with a combined usable capacity of about 1,400,000 acre-ft. U.S. Geological Survey satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

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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							e2,850	2,240	1,500	1,630	1,490	1,480
2							e2,850	2,160	1,610	1,640	1,470	1,480
3							e2,800	2,140	1,600	1,610	1,500	1,460
4							2,830	2,110	1,580	1,630	1,510	1,420
5							2,800	2,100	1,540	1,650	1,510	1,460
6							2,800	2,050	1,520	1,460	1,500	1,410
7							2,790	2,010	1,520	1,420	1,490	1,440
8							2,770	1,980	1,500	1,420	1,480	1,450
9							3,100	1,810	1,510	1,430	1,480	1,440
10							5,980	1,590	1,490	1,410	1,480	1,420
11							5,370	1,580	1,500	1,410	1,500	1,430
12							3,120	1,580	1,470	1,420	1,490	1,540
13							2,580	1,580	1,460	1,400	1,500	1,510
14							2,560	1,550	1,460	1,430	1,500	1,480
15							2,560	1,520	1,470	1,440	1,520	1,470
16							2,520	1,560	1,480	1,460	1,530	1,460
17							2,200	1,580	1,510	1,480	1,540	1,450
18							2,170	1,610	1,530	1,460	1,520	1,440
19							2,160	1,640	1,520	1,530	1,510	1,440
20							2,170	1,650	1,490	1,480	1,480	1,440
21							2,130	1,640	1,440	1,490	1,460	1,420
22							2,120	1,630	1,520	1,480	1,470	1,390
23							2,140	1,630	1,560	1,470	1,540	1,380
24							2,160	1,560	1,580	1,450	1,540	1,370
25							2,170	1,580	1,580	1,430	1,530	1,370
26							2,200	1,650	1,550	1,440	1,530	1,440
27							2,230	1,640	1,580	1,470	1,520	1,430
28							2,290	1,670	1,570	1,470	1,510	1,390
29							2,280	1,630	1,590	1,470	1,500	1,380
30							2,260	1,510	1,610	1,480	1,500	1,370
31							---	1,440	---	1,480	1,500	---
<b>Total</b>							80,960	53,620	45,840	45,940	46,600	43,060
<b>Mean</b>							2,699	1,730	1,528	1,482	1,503	1,435
<b>Max</b>							5,980	2,240	1,610	1,650	1,540	1,540
<b>Min</b>							2,120	1,440	1,440	1,400	1,460	1,370
<b>Ac-ft</b>							160,600	106,400	90,920	91,120	92,430	85,410

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>							2,699	1,730	1,528	1,482	1,503	1,435
<b>Max</b>							2,699	1,730	1,528	1,482	1,503	1,435
<b>(WY)</b>							(2012)	(2012)	(2012)	(2012)	(2012)	(2012)
<b>Min</b>							2,699	1,730	1,528	1,482	1,503	1,435
<b>(WY)</b>							(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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**SUMMARY STATISTICS**

<b>Water Year 2012</b>		
<b>Highest daily mean</b>	5,980	Apr 10
<b>Lowest daily mean</b>	1,370	Sep 24
<b>Maximum peak flow</b>	6,740	Apr 10
<b>Maximum peak stage</b>	12.43	Apr 10
<b>Instantaneous low flow</b>	<sup>a</sup> 1,310	Jul 6

<sup>a</sup>Gage height, 9.48 ft.

