

Water-Data Report 2012

06287800 BIGHORN RIVER AT BRIDGE, AT ST. XAVIER, MT

Big Horn Basin
Little Bighorn Subbasin

LOCATION.--Lat 45°27'39", long 107°44'55" referenced to North American Datum of 1927, in NE ¼ sec.27, T.4 S., R.32 E., Big Horn County, MT, Hydrologic Unit 10080016, at bridge on County Road 327 (Pryor Cutoff Road), about 1.3 miles west of St. Xavier MT

DRAINAGE AREA.--19,900 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1, 2012 to September 30, 2012.

GAGE.--Water-stage recorder. Elevation of gage is 3,050 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 Several unpublished observations of water temperature and specific conductance were made during the year.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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1									1,760	1,870	1,790	1,730
2									1,770	1,860	1,780	1,720
3									1,760	1,870	1,790	1,710
4									1,770	1,890	1,780	1,700
5									1,760	1,860	1,770	1,700
6									1,760	1,730	1,770	1,680
7									1,750	1,740	1,760	1,680
8									1,750	1,750	1,770	1,670
9									1,750	1,760	1,760	1,660
10									1,750	1,760	1,750	1,640
11									1,740	1,780	1,750	1,670
12									1,770	1,780	1,750	1,730
13									1,780	1,780	1,750	1,720
14									1,790	1,790	1,740	1,710
15									1,800	1,790	1,750	1,700
16									1,810	1,810	1,750	1,690
17									1,820	1,800	1,740	1,680
18									1,820	1,800	1,730	1,680
19									1,830	1,810	1,720	1,680
20									1,820	1,810	1,720	1,680
21									1,810	1,810	1,720	1,660
22									1,830	1,810	1,740	1,650
23									1,830	1,820	1,780	1,640
24									1,840	1,820	1,780	1,640
25									1,840	1,810	1,770	1,640
26									1,830	1,820	1,770	1,680
27									1,830	1,820	1,760	1,670
28									1,840	1,810	1,760	1,640
29									1,850	1,810	1,750	1,640
30									1,860	1,800	1,740	1,640
31									---	1,790	1,730	---
Total									53,920	55,960	54,420	50,330
Mean									1,797	1,805	1,755	1,678
Max									1,860	1,890	1,790	1,730
Min									1,740	1,730	1,720	1,640
Ac-ft									107,000	111,000	107,900	99,830

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
Mean									1,797	1,805	1,755	1,678
Max									1,797	1,805	1,755	1,678
(WY)									(2012)	(2012)	(2012)	(2012)
Min									1,797	1,805	1,755	1,678
(WY)									(2012)	(2012)	(2012)	(2012)

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SUMMARY STATISTICS

Water Year 2012		
Highest daily mean	1,890	Jul 4
Lowest daily mean	1,640	Sep 10
Maximum peak flow	^a 1,930	Jul 4
Maximum peak stage	^b 6.65	Jun 1

^aGage height, 6.40 ft.

^bBackwater from algae.

