

Water-Data Report 2006

**06294500 BIGHORN RIVER ABOVE TULLOCK CREEK, NEAR BIGHORN, MT**

Big Horn Basin  
Lower Bighorn Subbasin

LOCATION.--Lat 46°07'29", long 107°28'06" referenced to North American Datum of 1927, in SE ¼ SE ¼ NE ¼ sec.3, T.4 N., R.34 E., Treasure County, Hydrologic Unit 10080015, on right bank 1.9 mi upstream from Tullock Creek, 3.6 mi southwest of Bighorn, 4.5 mi southeast of Custer, and at river mile 3.0.

DRAINAGE AREA.--22,414 mi<sup>2</sup>. Area at site used Oct. 7, 1955, to Sept. 30, 1981, 22,885 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1981 to current year. Previously published as "06294700 Bighorn River at Bighorn, MT" from 1956-81, and as "06294700 Bighorn River near Custer" from 1945-55. Flows are equivalent at all sites.

GAGE.--Water-stage recorder. Elevation of gage is 2,700 ft, referenced to National Geodetic Vertical Datum of 1929. May 11, 1945 to Dec. 6, 1945, nonrecording gage, and Dec. 7, 1945 to Oct. 6, 1955, water-stage recorder 1.7 mi upstream at different elevation. Oct. 7, 1955 to Sept. 30, 1981, at site 2.3 mi downstream at different elevation.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Bighorn Lake beginning November 1965 (usable capacity, 1,312,000 acre-ft). Major regulation prior to November 1965 by 14 reservoirs in Wyoming and 1 in Montana with combined usable capacity of about 1,400,000 acre-ft. Diversion for irrigation of about 445,200 acres upstream from station. U.S. Army Corps of Engineers satellite telemeter at station. Several unpublished observations of water temperature and specific conductance were made during the year.

## 06294500 BIGHORN RIVER ABOVE TULLOCK CREEK, NEAR BIGHORN, MT—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,390	2,680	2,990	2,660	2,590	2,330	3,570	2,580	2,430	2,190	e1,550	1,310
2	2,330	2,710	2,530	2,620	2,580	2,310	3,010	2,460	2,390	2,130	1,560	1,290
3	2,410	2,740	2,520	2,610	2,610	2,330	2,820	2,530	2,360	2,200	1,560	1,280
4	2,450	2,880	2,550	2,600	2,570	2,350	2,640	2,520	2,370	2,220	1,570	1,290
5	2,710	3,130	e2,600	2,600	2,630	2,320	2,570	2,500	2,370	2,270	1,580	1,270
6	2,610	3,180	e2,600	2,600	2,610	2,310	2,680	2,440	2,340	2,220	1,580	1,270
7	2,620	3,260	e2,600	2,610	2,600	2,280	2,800	2,440	2,300	2,190	1,610	1,250
8	2,550	3,310	e2,600	2,630	2,570	2,260	2,720	2,450	2,260	2,180	1,560	1,260
9	2,660	3,100	e2,600	2,610	2,580	2,280	2,700	2,450	2,270	2,070	1,550	1,200
10	2,600	2,540	2,650	2,610	2,560	2,340	2,680	2,500	2,380	2,040	1,540	1,190
11	2,520	2,560	2,640	2,630	2,470	2,340	2,660	2,510	2,380	1,990	1,510	1,160
12	2,520	2,640	2,650	2,630	2,530	2,330	2,650	2,600	2,360	1,860	1,530	1,140
13	2,480	2,700	2,690	2,610	2,540	2,330	2,650	2,630	2,330	1,770	1,570	1,340
14	2,480	2,700	2,740	2,640	2,590	2,320	2,650	2,540	2,310	1,650	1,580	1,560
15	2,460	2,770	2,720	2,640	2,560	2,330	2,630	2,530	2,360	1,570	1,510	1,750
16	2,470	2,790	2,360	2,630	2,470	2,340	2,650	2,490	2,310	1,570	1,470	1,870
17	2,450	2,850	2,370	2,620	e2,400	2,320	2,690	2,420	2,330	1,530	1,500	1,960
18	2,460	2,780	e2,400	2,630	e2,400	2,320	2,810	2,390	2,330	1,500	1,630	1,900
19	2,470	2,600	e2,400	2,620	e2,400	2,350	2,770	2,430	2,350	1,520	1,560	1,940
20	2,490	2,600	e2,400	2,610	e2,400	2,360	2,800	2,600	2,320	1,540	1,530	1,940
21	2,500	2,650	2,380	2,600	2,340	2,330	2,810	2,780	2,290	1,600	1,500	1,780
22	2,510	2,680	2,390	2,570	2,270	2,330	2,740	2,830	2,250	1,530	1,390	1,760
23	2,540	2,740	2,460	2,600	2,280	2,310	2,740	2,900	2,260	1,510	1,360	1,830
24	2,560	2,770	2,540	2,610	2,280	2,310	2,770	2,980	2,250	1,520	1,350	1,830
25	2,580	2,820	2,620	2,590	2,280	2,310	2,750	3,110	2,310	1,500	1,320	1,840
26	2,620	2,880	2,610	2,620	2,280	2,350	2,720	3,250	2,330	1,500	1,360	1,730
27	2,600	2,980	2,620	2,620	2,300	2,360	2,680	2,880	2,320	1,470	1,360	1,670
28	2,510	2,990	2,610	2,620	2,310	2,360	2,650	2,820	2,350	1,480	1,360	1,680
29	2,530	2,970	2,640	2,610	---	2,390	2,630	2,720	2,370	1,510	1,320	1,620
30	2,590	2,980	2,650	2,580	---	2,690	2,610	2,610	2,330	1,530	1,300	1,590
31	2,630	---	2,630	2,620	---	2,990	---	2,490	---	e1,540	1,290	---
<b>Total</b>	78,300	84,980	79,760	81,050	69,000	73,180	82,250	81,380	69,910	54,900	45,960	46,500
<b>Mean</b>	2,526	2,833	2,573	2,615	2,464	2,361	2,742	2,625	2,330	1,771	1,483	1,550
<b>Max</b>	2,710	3,310	2,990	2,660	2,630	2,990	3,570	3,250	2,430	2,270	1,630	1,960
<b>Min</b>	2,330	2,540	2,360	2,570	2,270	2,260	2,570	2,390	2,250	1,470	1,290	1,140
<b>Ac-ft</b>	155,300	168,600	158,200	160,800	136,900	145,200	163,100	161,400	138,700	108,900	91,160	92,230

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3,141	3,217	3,077	2,967	3,122	3,590	3,453	4,248	6,716	5,158	2,783	2,776
<b>Max</b>	5,546	5,599	4,907	5,478	5,314	6,580	7,881	9,102	15,180	19,090	6,972	4,952
<b>(WY)</b>	(1972)	(1974)	(1968)	(1968)	(1971)	(1972)	(1997)	(1947)	(1948)	(1967)	(1997)	(1973)
<b>Min</b>	1,103	1,223	1,280	1,382	1,544	908	1,063	1,304	1,050	707	868	1,009
<b>(WY)</b>	(2003)	(1978)	(1961)	(1961)	(2003)	(1966)	(1966)	(1966)	(1966)	(1960)	(1961)	(1966)



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