Water-Data Report 2012

06026210 BIG HOLE RIVER NEAR GLEN, MT

Missouri Headwaters Basin
Big Hole Subbasin

LOCATION.--Lat 45°26'25", long 112°33'22" referenced to North American Datum of 1983, in NW ¼ SW ¼ SE ¼ sec.35, T.4 S., R.8 W., Madison County, MT, Hydrologic Unit 10020004, on left bank 50 ft downstream from private suspension bridge, 0.1 mi downstream from Sandy Hollow, 7.0 mi southeast of Glen, and at river mile 17.2.

DRAINAGE AREA.--2,655 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1997 to current year (seasonal records only).

REVISED RECORDS.--WDR MT-10-1: 2003 (M)

GAGE.--Water-stage recorder. Elevation of gage is 4,850 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good except for estimated daily discharges, which are fair. Figures of discharge for seasons 1998-99 are the sum of river flow, Fred Bryan Ditch on left bank, and Upper and Lower Raffety Ditches on right bank. 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 Several unpublished observations of water temperature and specific conductance were made during the year.

06026210 BIG HOLE RIVER NEAR GLEN, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

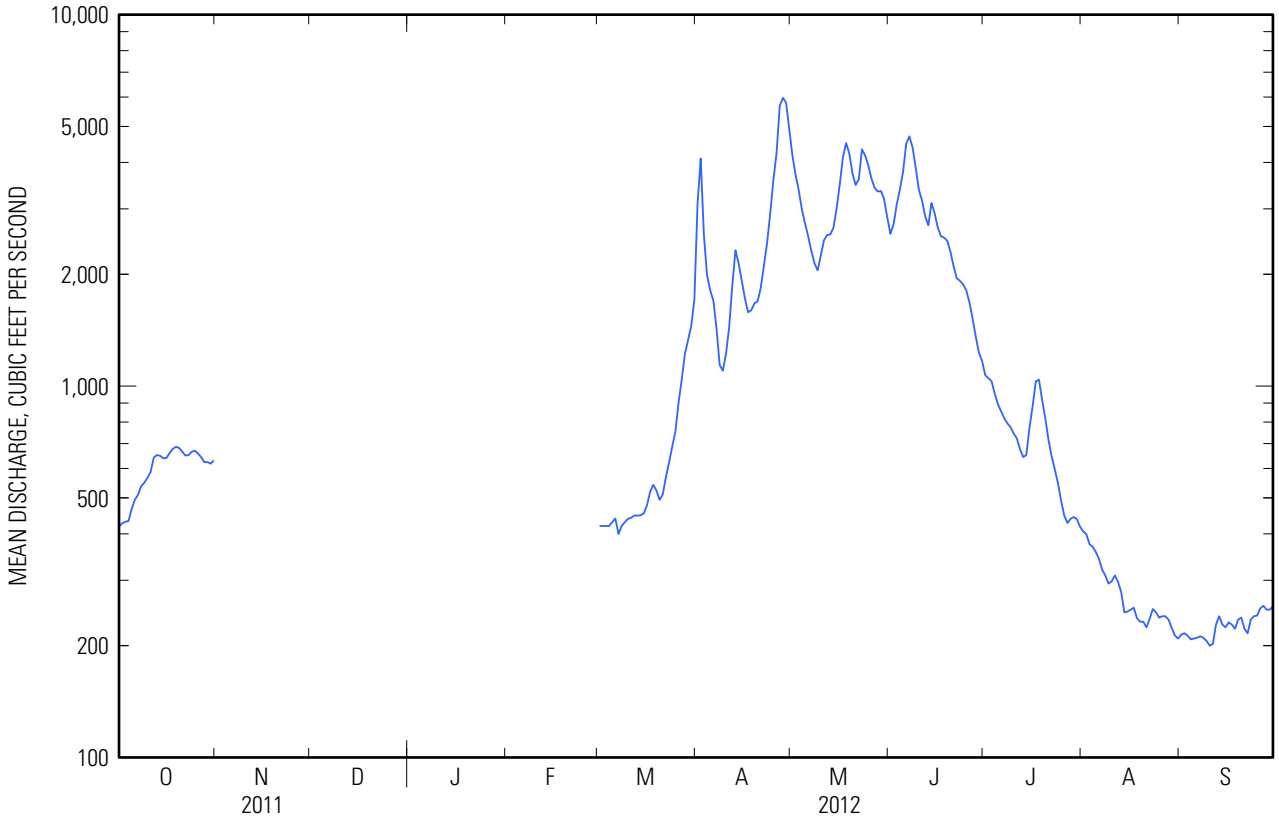
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	419					e420	3,090	4,180	2,570	1,070	406	214
2	427					e420	4,100	3,710	2,720	1,050	399	216
3	431					e420	2,560	3,370	3,080	1,030	375	213
4	433					e420	1,990	2,990	3,380	955	369	208
5	466					e430	1,810	2,740	3,770	894	357	209
6	494					e440	1,700	2,530	4,490	856	342	210
7	509					e400	1,430	2,310	4,700	820	320	212
8	537					e420	1,140	2,140	4,400	794	309	210
9	549					e430	1,100	2,050	3,880	775	294	206
10	566					439	1,220	2,250	3,380	745	298	200
11	587					442	1,440	2,470	3,160	723	309	202
12	642					448	1,870	2,550	2,870	676	297	228
13	652					448	2,320	2,560	2,710	644	279	240
14	649					449	2,140	2,670	3,110	652	246	228
15	639					454	1,920	3,010	2,920	773	247	224
16	640					477	1,720	3,500	2,670	883	250	231
17	660					519	1,580	4,140	2,530	1,030	253	228
18	677					542	1,600	4,510	2,510	1,040	237	222
19	686					523	1,670	4,230	2,460	917	232	235
20	682					494	1,690	3,740	2,300	819	232	238
21	666					511	1,840	3,480	2,100	717	224	222
22	650					569	2,110	3,600	1,950	647	236	216
23	652					623	2,430	4,340	1,920	597	251	235
24	665					687	2,920	4,180	1,880	548	246	240
25	670					755	3,590	3,930	1,810	491	238	241
26	658					903	4,250	3,620	1,680	448	240	252
27	643					1,040	5,680	3,420	1,520	428	240	256
28	624					1,220	5,970	3,340	1,360	439	235	250
29	624					1,330	5,800	3,350	1,230	444	223	250
30	618					1,450	4,930	3,190	1,170	438	213	255
31	631					1,710	---	2,850	---	418	209	---
Total	18,446					19,833	77,610	100,950	80,230	22,761	8,606	6,791
Mean	595					640	2,587	3,256	2,674	734	278	226
Max	686					1,710	5,970	4,510	4,700	1,070	406	256
Min	419					400	1,100	2,050	1,170	418	209	200
Ac-ft	36,590					39,340	153,900	200,200	159,100	45,150	17,070	13,470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	480					594	1,300	2,576	3,374	1,129	349	311
Max	708					1,324	2,587	4,068	7,766	3,783	774	553
(WY)	(1998)					(2007)	(2012)	(2009)	(2011)	(2011)	(2011)	(2010)
Min	318					362	491	1,133	1,274	394	149	204
(WY)	(2004)					(2008)	(2005)	(2004)	(2004)	(2007)	(2000)	(2006)

06026210 BIG HOLE RIVER NEAR GLEN, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1997 - 2012	
Highest daily mean	11,600	Jun 10	5,970	Apr 28	11,600	Jun 10, 2011
Lowest daily mean	384	Sep 14	200	Sep 10	122	Aug 29, 2000
Maximum peak flow			6,160	Apr 27	11,900	Jun 10, 2011
Maximum peak stage			5.55	Apr 27	7.63	Jun 10, 2011
Instantaneous low flow			[a]191	Sep 10	[b]111	Aug 24, 2006

[a]Gage height, 2.05 ft.
[b]Gage height, 1.84 ft.