Water-Data Report 2012

06023500 BIG HOLE RIVER NEAR JACKSON, MT

Missouri Headwaters Basin
Big Hole Subbasin

LOCATION.--Lat 45°14'45", long 113°27'26" referenced to North American Datum of 1983, in NW ¼ SW ¼ SE ¼ sec.4, T.7 S., R.15 W., Beaverhead County, MT, Hydrologic Unit 10020004, 1 mi downstream from Pioneer Creek, and 9 mile southwest of Jackson, MT.

DRAINAGE AREA.--44 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1948 to October 1953 (no winter records after 1951), August 2009 to current year (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 6,950 ft referenced to National Geodetic Vertical Datum of 1929. Prior to June 20, 1948, staff gage at site 100 ft upstream.

COOPERATION.--Records are collected and computed by the Montana Department of Natural Resources and Conservation and reviewed by the U.S Geological Survey.

REMARKS.--Records are good except for estimated daily discharges, which are poor. Montana Department of Natural Resources and Conservation telemeter at site. Natural storage in lakes at headwaters. Unknown acreage for diversions from irrigation upstream of the station.

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 06023500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/06023500.2012.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	15						25	132	138	92	23	13
2	15						20	117	185	90	22	13
3	15						18	105	230	87	22	12
4	15						18	101	244	83	21	12
5	17						18	97	289	75	e20	12
6	23						16	88	241	70	e20	12
7	22						21	85	185	66	19	12
8	20						16	88	166	64	19	11
9	18						17	101	166	61	19	11
10	18						21	129	145	59	20	11
11	23						28	122	132	57	21	11
12	24						34	116	125	53	19	11
13	20						32	122	140	52	18	11
14	19						30	139	150	60	18	11
15	19						26	163	145	60	17	10
16	26						24	194	144	53	16	9.8
17	35						27	227	154	62	16	9.9
18	25						28	215	173	49	15	9.9
19	22						26	186	150	44	15	e10
20	20						30	170	128	41	15	e10
21	19						42	178	119	39	15	e10
22	20						55	220	125	37	16	e10
23	19						70	205	132	36	15	9.8
24	19						107	168	136	31	14	10
25	18						137	153	137	29	13	11
26	e16						210	140	131	29	13	11
27	17						283	131	113	28	14	11
28	e15						196	126	101	27	13	11
29	16						156	123	97	26	12	10
30	16						139	122	92	25	12	10
31	17						---	122	---	24	12	---
Total	603						1,870	4,385	4,613	1,609	524	326.4
Mean	19.5						62.3	141	154	51.9	16.9	10.9
Max	35						283	227	289	92	23	13
Min	15						16	85	92	24	12	9.8
Ac-ft	1,200						3,710	8,700	9,150	3,190	1,040	647

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.8	14.0	12.3	9.48	9.85	9.80	47.3	139	226	99.8	27.4	16.3
Max	25.8	21.1	16.1	10.4	12.1	12.1	65.4	215	321	220	41.5	21.5
(WY)	(1951)	(1951)	(1951)	(1951)	(1951)	(1950)	(1949)	(1951)	(1948)	(2011)	(1951)	(1950)
Min	10.3	8.54	9.81	9.00	8.43	7.65	10.0	53.8	142	40.0	15.8	10.9
(WY)	(1953)	(1953)	(1950)	(1949)	(1950)	(1951)	(2011)	(2010)	(1949)	(1949)	(1949)	(2012)

*During periods of operation (April 1948 to October 1953 (no winter record after 1951), August 2009 to current year, (seasonal records only).

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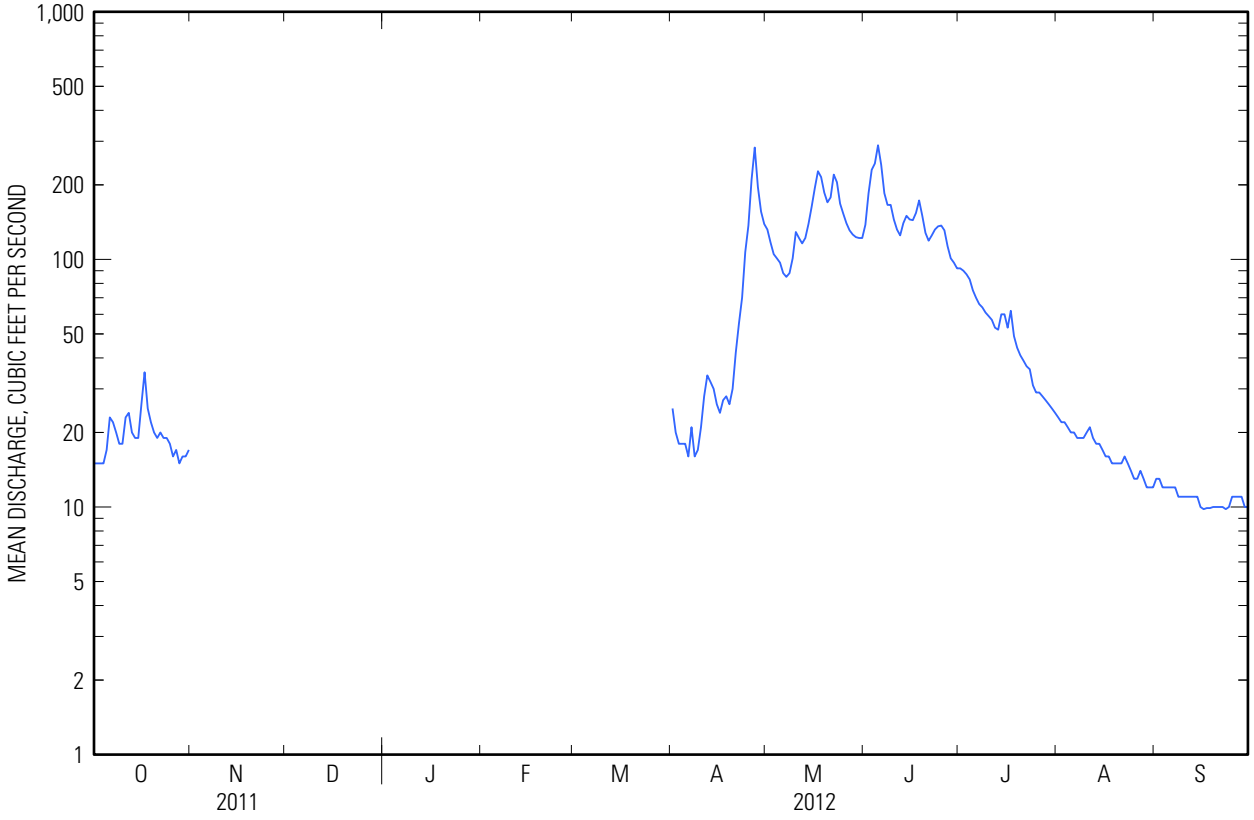
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1948 – 2012*	
Annual mean					52.2	
Highest annual mean					60.9	1951
Lowest annual mean					46.1	1949
Highest daily mean	483	Jun 24	289	Jun 5	690	May 29, 1948
Lowest daily mean	8.0	Apr 1	9.8	Sep 16	5.0	Feb 1, 1950
Annual seven-day minimum					6.0	Jan 29, 1950
Maximum peak flow			322	Apr 27	690	May 29, 1948
Maximum peak stage			3.03	Apr 27	[a]4.45	May 29, 1948
Annual runoff (ac-ft)					37,790	
10 percent exceeds					168	
50 percent exceeds					18	
90 percent exceeds					9.0	

*During periods of operation (April 1948 to October 1953 (no winter record after 1951), August 2009 to current year, (seasonal records only).

[a]Site and datum then in use.