



Water-Data Report 2012

06017000 BEAVERHEAD RIVER AT DILLON, MT

Missouri Headwaters Basin
Beaverhead Subbasin

LOCATION.--Lat 45°13'06", long 112°39'19" referenced to North American Datum of 1983, in NW ¼ NE ¼ NW ¼ sec.24, T.7 S., R.9 W., Beaverhead County, MT, Hydrologic Unit 10020002, on right bank 0.2 mi downstream from West Side Canal and county road bridge, at Dillon, and at river mile 2,456.1.

DRAINAGE AREA.--2,895 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August to September 1907 (gage heights only), October 1950 to September 1952, September 1963 to September 1971, April 2002 to September 2009 (seasonal records only), October 2009 to September 2011, October 2011 to September 2012 (seasonal records only).

GAGE.--Water-stage recorder. Elevation of gage is 5,100 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1952, nonrecording gages at same site at different elevation.

REMARKS.--Records are good except for estimated daily discharges, which are fair. Some regulation by Lima Reservoir (station number 06012500) and nearly complete regulation by Clark Canyon Reservoir (station number 06015300) since August 1964. Diversions for irrigation of about 125,500 acres, of which about 23,000 acres lies downstream from station. Bureau of Reclamation 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 Several unpublished observations of water temperature and specific conductance were made during the year.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	682					399	410	241	181	227	170	153
2	668					393	412	217	177	234	179	153
3	675					394	392	188	181	232	198	144
4	693					398	389	184	178	226	193	139
5	699					401	389	185	179	220	183	151
6	690					402	393	168	195	224	170	138
7	689					365	380	169	207	201	179	130
8	679					368	376	168	192	196	195	148
9	677					369	375	166	172	206	188	137
10	675					374	354	175	198	207	172	e135
11	680					378	366	173	210	202	178	e134
12	659					384	372	177	212	180	157	134
13	642					391	373	179	189	185	152	142
14	639					389	365	171	179	185	154	142
15	636					387	360	176	177	206	161	135
16	652					394	345	184	171	204	171	140
17	658					405	319	190	179	207	172	151
18	661					412	305	228	180	209	146	146
19	657					407	307	227	195	198	164	156
20	661					385	293	240	196	194	156	126
21	659					379	290	237	191	224	150	137
22	616					399	288	230	189	208	136	125
23	614					407	293	218	185	205	131	125
24	604					415	293	236	177	181	128	129
25	558					410	297	257	171	179	125	138
26	498					411	285	251	180	190	126	140
27	437					415	322	282	195	196	130	140
28	518					401	331	276	207	206	127	140
29	530					393	298	229	220	205	123	135
30	529					394	258	206	230	198	124	132
31	530					395	---	196	---	192	141	---
Total	19,465					12,214	10,230	6,424	5,693	6,327	4,879	4,175
Mean	628					394	341	207	190	204	157	139
Max	699					415	412	282	230	234	198	156
Min	437					365	258	166	171	179	123	125
Ac-ft	38,610					24,230	20,290	12,740	11,290	12,550	9,680	8,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	269	438	409	364	375	333	309	242	299	228	229	263
Max	680	700	613	462	539	606	1,078	742	1,157	493	639	796
(WY)	(1966)	(1966)	(1966)	(1971)	(1971)	(1969)	(1969)	(1969)	(1964)	(1971)	(2011)	(1965)
Min	84.7	230	226	221	218	137	90.0	83.6	91.9	67.1	114	65.1
(WY)	(2005)	(1965)	(1967)	(1967)	(1967)	(2008)	(2004)	(2005)	(2005)	(1951)	(2004)	(2004)

*During periods of operation [October 1950 to September 1952, September 1963 to September 1971, April 2002 to September 2009 (seasonal records only), October 2009 to September 2011, October 2011 to September 2012 (seasonal records only)].

06017000 BEAVERHEAD RIVER AT DILLON, MT—Continued**SUMMARY STATISTICS**

	2012 Season		Water Years 1951 – 2012*		Seasons 1951-2012*	
Annual total			298			
Annual mean			523	1971		
Highest annual mean			104	2005		
Lowest annual mean						
Highest daily mean	699	Oct 5	1,700	Jun 21, 1964	699	Oct 5, 2011
Lowest daily mean	123	Aug 29	18	Jun 19, 1952	31	May 26, 2005
Annual seven-day minimum			32	Jul 27, 1951		
Maximum peak flow	715	Oct 5	1,740	Jun 21, 1964	715	Oct 5, 2011
Maximum peak stage	5.03	Oct 5	6.63	Jun 21, 1964	5.03	Oct 5, 2011
Instantaneous low flow	a119	Aug 29	b18	Jun 19, 1952		
Annual runoff (ac-ft)			215,800			
10 percent exceeds			535			
50 percent exceeds			253			
90 percent exceeds			100			

*During periods of operation [October 1950 to September 1952, September 1963 to September 1971, April 2002 to September 2009 (seasonal records only), October 2009 to September 2011, October 2011 to September 2012 (seasonal records only)].

^aGage height, 3.39 ft.

^bObserved, gage height 3.19 ft.

