12335100 BLACKFOOT RIVER ABOVE NEVADA CREEK, NEAR HELMVILLE, MT

Pend Oreille Basin
Blackfoot Subbasin

LOCATION.--Lat 46°55′09″, long 113°00′53″ referenced to North American Datum of 1927, in SW ¼ SW ¼ SE ¼ sec.32, T.14 N., R.11 W., Powell County, MT, Hydrologic Unit 17010203, on right bank 40 ft downstream from county road bridge, 1.9 mi south of Browns Lake, 4.2 mi upstream from Nevada Creek, 4.4 mi northwest of Helmville, and at river mile 72.0.

DRAINAGE AREA.--494 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year. Records equivalent to those published as "12335000 Blackfoot River near Helmville," September 1940 to October 1953 at site 13.5 mi upstream.

GAGE.--Water-stage recorder. Elevation of gage is 4,280 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Numerous diversions for irrigation occur upstream from station. U.S. Geological Survey satellite telemeter is located at the station. Several observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 5, 1953 reached a discharge of 6,040 ft^3/s at 12335000 Blackfoot River near Helmville.

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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	161	182	e120	150	125	e150	221	761	881	478	190	147
2	166	182	e120	144	125	e140	237	808	857	454	187	148
3	164	171	e120	141	125	e135	233	798	886	432	183	144
4	163	166	e110	139	124	e135	219	777	941	425	180	143
5	161	161	e120	138	124	e130	226	747	996	412	170	142
6	161	161	e100	e135	123	130	316	732	973	413	168	141
7	163	161	e90	136	126	119	412	749	946	396	167	140
8	163	169	e100	136	127	116	349	773	979	376	164	139
9	162	160	e110	134	121	116	316	763	1,010	363	161	141
10	161	156	e120	132	e115	116	299	731	1,070	351	159	140
11	161	157	e120	137	e110	115	295	715	1,150	338	157	138
12	160	161	e120	138	e115	e115	324	714	1,130	325	157	138
13	159	161	e120	136	e120	e115	359	720	1,070	328	156	140
14	158	171	e120	135	e120	114	433	748	1,020	318	154	140
15	158	e160	e110	136	e110	111	506	792	1,000	303	150	149
16	159	156	e110	134	e100	111	584	875	963	290	150	166
17	158	155	e110	134	e90	111	643	1,020	914	279	156	173
18	158	154	e100	135	e85	113	629	1,200	869	270	164	164
19	159	153	e100	131	e90	114	576	1,340	814	261	160	162
20	161	152	e110	131	e100	112	531	1,460	779	256	155	164
21	161	e150	e120	130	e110	112	512	1,510	720	246	150	164
22	159	e150	e140	129	e130	113	529	1,510	680	236	147	165
23	159	e150	e160	128	e140	116	586	1,430	632	232	145	166
24	159	e140	e160	128	e120	120	624	1,320	595	222	144	162
25	158	e130	e150	e125	e110	124	621	1,280	568	220	152	159
26	158	e140	e150	e120	e120	139	604	1,260	547	217	156	158
27	161	148	e160	e120	e140	148	592	1,260	532	209	152	156
28	161	151	e170	e120	e160	148	593	1,200	514	203	147	155
29	159	e140	e180	125	---	163	604	1,140	501	198	146	154
30	158	e120	e170	125	---	189	667	1,050	492	192	146	152
31	160	---	e160	126	---	211	---	942	---	189	147	---
Total	4,969	4,668	3,950	4,108	3,305	4,001	13,640	31,125	25,029	9,432	4,920	4,550
Mean	160	156	127	133	118	129	455	1,004	834	304	159	152
Max	166	182	180	150	160	211	667	1,510	1,150	478	190	173
Min	158	120	90	120	85	111	219	714	492	189	144	138
Ac-ft	9,860	9,260	7,830	8,150	6,560	7,940	27,050	61,740	49,650	18,710	9,760	9,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	163	156	140	137	128	141	275	726	846	335	178	162
Max	180	180	165	152	151	183	455	1,004	1,457	538	242	199
(WY)	(2005)	(2000)	(2000)	(2000)	(2003)	(2003)	(2006)	(2006)	(2002)	(2002)	(2002)	(2004)
Min	142	139	127	129	107	121	139	433	578	262	152	135
(WY)	(2002)	(2002)	(2006)	(2001)	(2001)	(2002)	(2001)	(2001)	(2000)	(2000)	(2000)	(2001)

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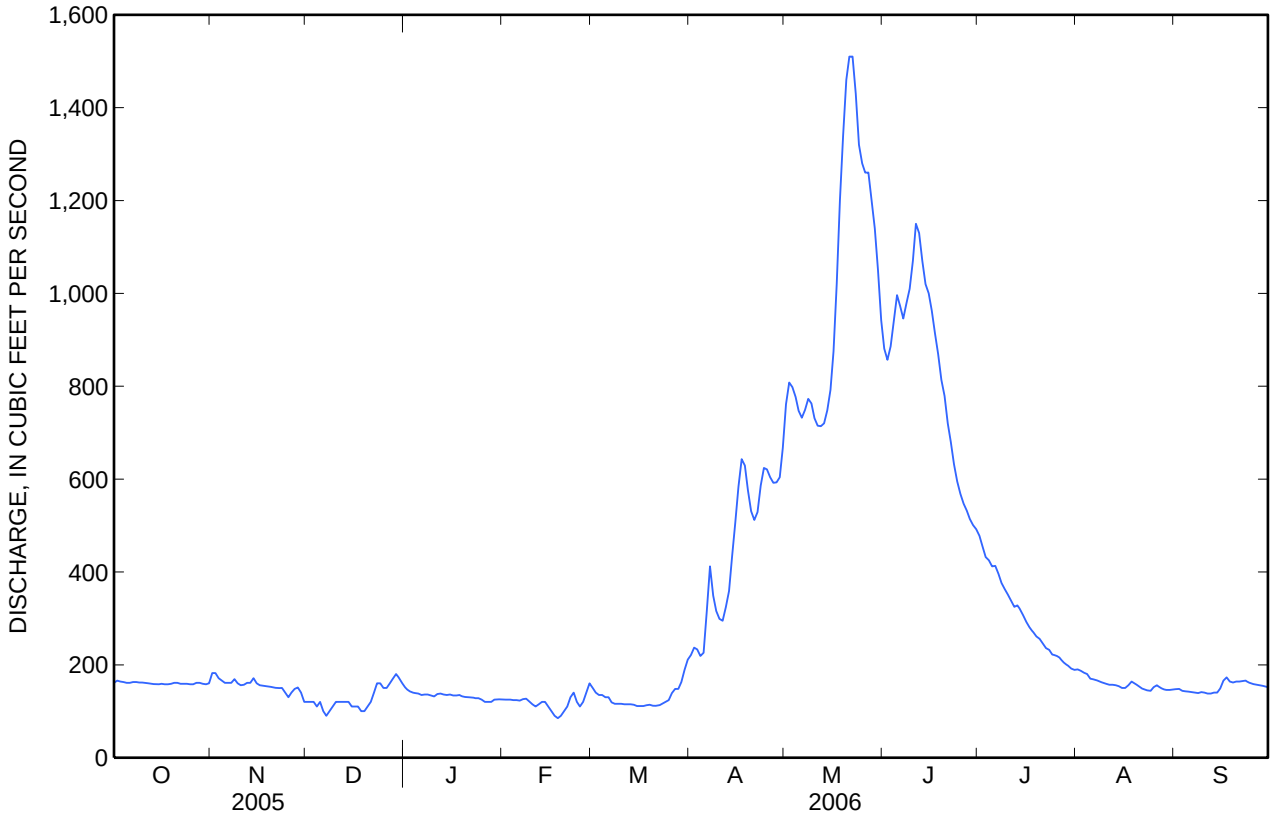
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 2000 - 2006	
Annual total	109,417		113,697			
Annual mean	300		311		283	
Highest annual mean					328	2002
Lowest annual mean					215	2001
Highest daily mean	1,800	May 12	1,510	May 21	1,820	Jun 18, 2002
Lowest daily mean	60	Jan 5	85	Feb 18	60	Jan 5, 2005
Annual seven-day minimum	69	Jan 3	98	Feb 15	69	Jan 3, 2005
Maximum peak flow			1,530	May 22	1,890	Jun 19, 2002
Maximum peak stage			6.40	May 22	6.91	Jun 19, 2002
Annual runoff (ac-ft)	217,000		225,500		204,800	
10 percent exceeds	870		802		658	
50 percent exceeds	160		160		162	
90 percent exceeds	120		116		125