

Water-Data Report 2012

12331500 FLINT CREEK NEAR DRUMMOND, MT

Pend Oreille Basin
Flint-Rock Subbasin

LOCATION.--Lat 46°37'44", long 113°09'02" referenced to North American Datum of 1983, in NE ¼ NW ¼ NE ¼ sec.18, T.10 N., R.12 W., Granite County, MT, Hydrologic Unit 17010202, on left bank 10 ft downstream from county bridge, 2.0 mi upstream from mouth, and 2.7 mi south of Drummond.

DRAINAGE AREA.--490 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1948 to September 1949, August 1990 to April 2003, August 2003 to September 2004, and October 2006 to current year. Monthly discharges only for some periods are published in Water Supply Paper 1316.

GAGE.--Water-stage recorder. Elevation of gage is 4,017.27 ft, referenced to the National Geodetic Vertical Datum of 1929. June 1948 to September 1949 at same site with different elevation.

REMARKS.--Records are good except for estimated daily discharges, which are poor. Some regulation by Georgetown Lake (station number 12325000). Diversions for irrigation include about 25,000 acres of which 1,000 acres are downstream from the station. During irrigation season, flow is supplemented by water from East Fork Rock Creek which is diverted in sec.5, T.4 N., R.14 W., 500 ft below Rock Creek Dam, through a canal into Trout Creek, thence into Flint Creek. U.S. Geological Survey satellite telemeter is located at the station. Several unpublished observations of specific conductance and water temperature were made during the year.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	113	178	140	137	123	122	190	287	83	34	25	19
2	132	169	154	e135	121	138	178	256	134	41	19	17
3	148	172	149	e140	116	126	172	235	216	42	23	17
4	170	175	e150	131	108	164	170	216	210	38	22	23
5	186	177	114	132	112	229	168	223	321	38	19	30
6	173	169	e140	127	126	224	169	203	407	38	18	29
7	179	164	e155	128	123	141	165	185	313	37	27	31
8	184	169	e150	127	104	135	174	169	247	42	24	30
9	177	164	142	128	125	134	174	136	237	40	12	29
10	175	162	139	125	115	188	171	123	218	41	13	32
11	208	163	e140	117	112	196	175	127	210	37	17	35
12	215	167	e150	105	112	167	204	100	176	39	16	36
13	204	166	e140	126	111	152	211	72	232	35	15	42
14	203	165	e150	e150	110	142	204	61	258	40	16	46
15	216	162	137	e150	107	143	202	52	209	49	14	45
16	222	149	135	e140	104	168	197	77	193	55	15	36
17	220	e160	139	e100	113	169	188	95	187	55	17	36
18	208	e150	139	e110	109	160	184	97	201	49	15	33
19	201	e130	134	e120	106	147	183	80	202	42	16	43
20	195	e115	132	e150	105	134	180	23	174	42	18	47
21	193	e140	132	157	110	146	187	10	135	41	18	46
22	190	e155	113	133	e130	176	205	78	112	42	22	45
23	189	161	116	121	e160	177	216	125	102	42	18	50
24	199	158	e140	106	154	201	255	50	97	38	17	53
25	195	156	e145	141	143	173	321	28	80	33	16	55
26	186	146	e150	123	131	171	398	30	68	32	18	51
27	186	165	e145	116	128	166	499	48	61	29	19	52
28	182	154	142	116	120	162	433	74	50	29	21	65
29	184	150	e145	e140	130	161	363	77	39	25	21	76
30	181	149	e140	e150	---	160	321	76	37	24	21	80
31	180	---	e155	145	---	176	---	69	---	28	18	---
Total	5,794	4,760	4,352	4,026	3,468	5,048	6,857	3,482	5,209	1,197	570	1,229
Mean	187	159	140	130	120	163	229	112	174	38.6	18.4	41.0
Max	222	178	155	157	160	229	499	287	407	55	27	80
Min	113	115	113	100	104	122	165	10	37	24	12	17
Ac-ft	11,490	9,440	8,630	7,990	6,880	10,010	13,600	6,910	10,330	2,370	1,130	2,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	140	131	99.1	97.4	111	135	164	184	295	134	51.2	77.3
Max	189	192	144	156	232	256	326	459	917	461	167	196
(WY)	(2009)	(2009)	(1999)	(1997)	(1996)	(1997)	(1996)	(1997)	(2011)	(2011)	(1993)	(1993)
Min	81.2	91.4	58.0	49.6	56.9	79.5	86.8	14.1	14.9	12.8	6.66	18.0
(WY)	(1993)	(1993)	(2007)	(2007)	(1993)	(1991)	(2001)	(1992)	(1992)	(2000)	(1991)	(2001)

*During periods of operation (August 1990 to April 2003, August 2003 to September 2004, October 2006 to current year).

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1991 – 2012*	
Annual total	93,478		45,992			
Annual mean	256		126		135	
Highest annual mean					255	2011
Lowest annual mean					60.2	1992
Highest daily mean	1,390	Jun 8	499	Apr 27	1,390	Jun 8, 2011
Lowest daily mean	54	Aug 28	10	May 21	0.59	May 6, 1992
Annual seven-day minimum	57	Aug 23	15	Aug 9	1.8	Aug 9, 1992
Maximum peak flow			^a 521	Apr 27	^c 1,460	Jun 8, 2011
Maximum peak stage			^b 3.94	Jan 29	6.99	Feb 9, 1996
Annual runoff (ac-ft)	185,400		91,230		97,760	
10 percent exceeds	660		204		236	
50 percent exceeds	156		134		109	
90 percent exceeds	94		25		29	

*During periods of operation (August 1990 to April 2003, August 2003 to September 2004, October 2006 to current year).

^aGage height, 3.79 ft.

^bBackwater from ice.

^cGage height, 5.15 ft.

