

Water-Data Report 2012

12325500 FLINT CREEK NEAR SOUTHERN CROSS, MT

Pend Oreille Basin
Flint-Rock Subbasin

LOCATION.--Lat 46°13'58", long 113°18'00" referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.36, T.6 N., R.14 W., Granite County, MT, Hydrologic Unit 17010202, on right wing wall of weir, 0.5 mi downstream from power plant, 2.0 mi downstream from Georgetown Dam, 3.5 mi northwest of Southern Cross, 6.8 mi south of Philipsburg, and at river mile 36.8.

DRAINAGE AREA.--52.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1940 to September 1998, August 2000 to current year (seasonal records only).

REVISED RECORDS.--Water Supply Paper (WSP) 1216: 1942, maximum discharge. WSP 1246: Drainage area.

GAGE.--Water-stage recorder and sharp-crested, contracted, rectangular weir. Elevation of gage is 5,630 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to June 3, 1982, nonrecording gage at same site and elevation. Prior to Nov. 27, 1973, gage at same site and elevation 0.20 ft higher.

REMARKS.--Records are good. Flow regulated by Georgetown Lake (station number 12325000). Flow may be augmented by interbasin diversion from Silver Lake to Georgetown Lake or reduced by pumping from Georgetown Lake to Silver Lake. U.S. Geological Survey satellite telemeter at station. Several unpublished observations of water temperature and specific conductance were made during the water year.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	41						31	30	31	44	30	39
2	41						30	30	31	44	30	39
3	41						30	29	31	44	34	39
4	41						30	30	32	44	33	37
5	39						30	30	41	38	30	30
6	34						30	29	48	32	30	30
7	34						30	29	45	31	30	30
8	33						29	29	45	31	30	30
9	30						29	29	44	31	30	30
10	28						30	29	44	31	30	30
11	28						30	29	44	30	30	30
12	28						30	29	44	30	30	30
13	28						30	29	45	30	30	30
14	28						30	29	45	31	30	30
15	28						30	29	45	30	30	28
16	28						30	29	45	30	30	25
17	28						30	29	45	30	30	25
18	28						30	29	45	30	30	24
19	28						30	29	44	30	30	24
20	28						30	29	44	30	30	24
21	28						30	29	44	30	33	24
22	28						30	30	44	30	39	24
23	28						30	29	44	30	39	24
24	28						30	29	44	30	39	24
25	28						30	30	44	30	39	24
26	28						30	31	44	30	39	24
27	28						30	31	44	30	39	24
28	28						30	31	44	30	39	24
29	28						30	31	44	30	39	24
30	28						30	31	44	30	39	20
31	28						---	31	---	30	39	---
Total	950						899	917	1,278	1,001	1,030	840
Mean	30.6						30.0	29.6	42.6	32.3	33.2	28.0
Max	41						31	31	48	44	39	39
Min	28						29	29	31	30	30	20
Ac-ft	1,880						1,780	1,820	2,530	1,990	2,040	1,670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.0	21.5	19.8	18.5	19.9	22.1	25.8	35.2	59.8	46.6	34.6	32.0
Max	59.2	62.2	50.0	37.5	53.8	80.4	121	106	142	131	78.5	74.3
(WY)	(1984)	(1984)	(1976)	(1996)	(1968)	(1943)	(1948)	(1976)	(1948)	(1975)	(1975)	(1993)
Min	3.90	3.86	2.66	2.86	3.37	4.10	1.62	7.75	25.9	26.4	21.7	13.0
(WY)	(1974)	(1974)	(1975)	(1975)	(1975)	(1975)	(1941)	(1962)	(1955)	(1988)	(1952)	(2000)

*During periods of operation (October 1940 to September 1998; seasonal records beginning August 2000).

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1941 – 2012*	
Annual mean					29.3	
Highest annual mean					57.9	1976
Lowest annual mean					13.2	1962
Highest daily mean	175	Jul 4	48	Jun 6	175	Jul 4, 2011
Lowest daily mean	27	Apr 1	20	Sep 30	0.00	Nov 30, 1966 ^b
Annual seven-day minimum					1.4	Mar 8, 1941
Maximum peak flow					^c 192	Jun 15, 2008
Maximum peak stage					^a 1.18	Jun 5
Annual runoff (ac-ft)					21,240	
10 percent exceeds					50	
50 percent exceeds					28	
90 percent exceeds					7.0	

*During periods of operation (October 1940 to September 1998; seasonal records beginning August 2000).

^aAlso occurred on June 6.

^bPartial days of no flow in several years.

^cGage height, 2.71 ft.

