12330000 BOULDER CREEK AT MAXVILLE, MT

Pend Oreille Basin
Flint-Rock Subbasin

LOCATION.--Lat 46°28′20″, long 113°13′59″ referenced to North American Datum of 1927, in SE ¼ NE ¼ SW ¼ sec.4, T.8 N., R.13 W., Granite County, MT, Hydrologic Unit 17010202, on right bank 0.2 mi upstream from mouth and 0.7 mi north of Maxville.

DRAINAGE AREA.--71.3 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1939 to current year (no winter records in water year 2007). Monthly discharge only for some periods, published in Water Supply Paper 1316.

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft, referenced to the National Geodetic Vertical Datum of 1929. Apr. 15, 1939, to July 7, 1941, nonrecording gage was located at a site 75 ft upstream at a different elevation. July 8-20, 1941, nonrecording gage was located at a site 175 ft upstream at an elevation 1.03 ft higher.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Diversions occur upstream for irrigation of about 240 acres near the station. U.S. Geological Survey 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 Several unpublished observations of water temperature and specific conductance were made during the year.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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15					e26	25	99	184	67	22	11
2	13					e23	24	125	188	64	21	12
3	15					e24	23	158	197	59	20	12
4	15					e23	24	120	204	52	19	13
5	16					19	24	96	310	49	19	16
6	19					17	24	83	343	47	21	16
7	15					17	24	77	278	44	20	15
8	11					17	24	86	274	42	19	13
9	12					17	26	107	268	40	18	9.3
10	13					16	25	161	301	39	18	7.7
11	15					17	25	198	346	38	17	7.6
12	16					18	24	207	278	36	17	8.1
13	16					21	24	216	242	35	17	8.8
14	16					22	23	189	223	35	15	6.8
15	16					21	22	161	204	34	13	6.5
16	20					20	22	164	189	34	13	6.5
17	20					21	23	186	181	34	14	6.7
18	19					23	25	195	160	32	14	6.9
19	18					24	24	205	133	29	13	7.5
20	26					25	24	203	121	28	13	15
21	23					24	24	236	113	28	13	20
22	21					23	23	184	104	27	13	20
23	20					23	23	155	96	26	12	29
24	20					24	25	145	90	27	12	28
25	20					25	28	136	84	35	12	25
26	19					27	32	134	78	29	12	26
27	19					27	32	162	73	28	11	26
28	20					26	40	231	74	27	11	24
29	20					25	56	194	75	25	11	24
30	19					25	82	178	70	25	11	24
31	e20					25	---	179	---	24	11	---
Total	547					685	844	4,970	5,481	1,139	472	451.4
Mean	17.6					22.1	28.1	160	183	36.7	15.2	15.0
Max	26					27	82	236	346	67	22	29
Min	11					16	22	77	70	24	11	6.5
Ac-ft	1,080					1,360	1,670	9,860	10,870	2,260	936	895

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2006 AND SEASON 2007

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	22.5	23.1	20.5	18.4	18.2	18.4	28.5	115	173	57.4	20.4	17.6
Max	51.1	44.8	39.0	32.4	30.5	28.6	56.3	261	376	244	68.4	54.1
(WY)	(1960)	(1976)	(1976)	(1976)	(1951)	(1976)	(1943)	(1976)	(1975)	(1975)	(1975)	(1965)
Min	3.59	11.8	11.0	8.49	10.0	12.3	10.4	54.7	35.0	12.6	8.14	6.59
(WY)	(1988)	(1988)	(1988)	(1988)	(1941)	(1993)	(1991)	(1977)	(1992)	(1988)	(1988)	(1991)

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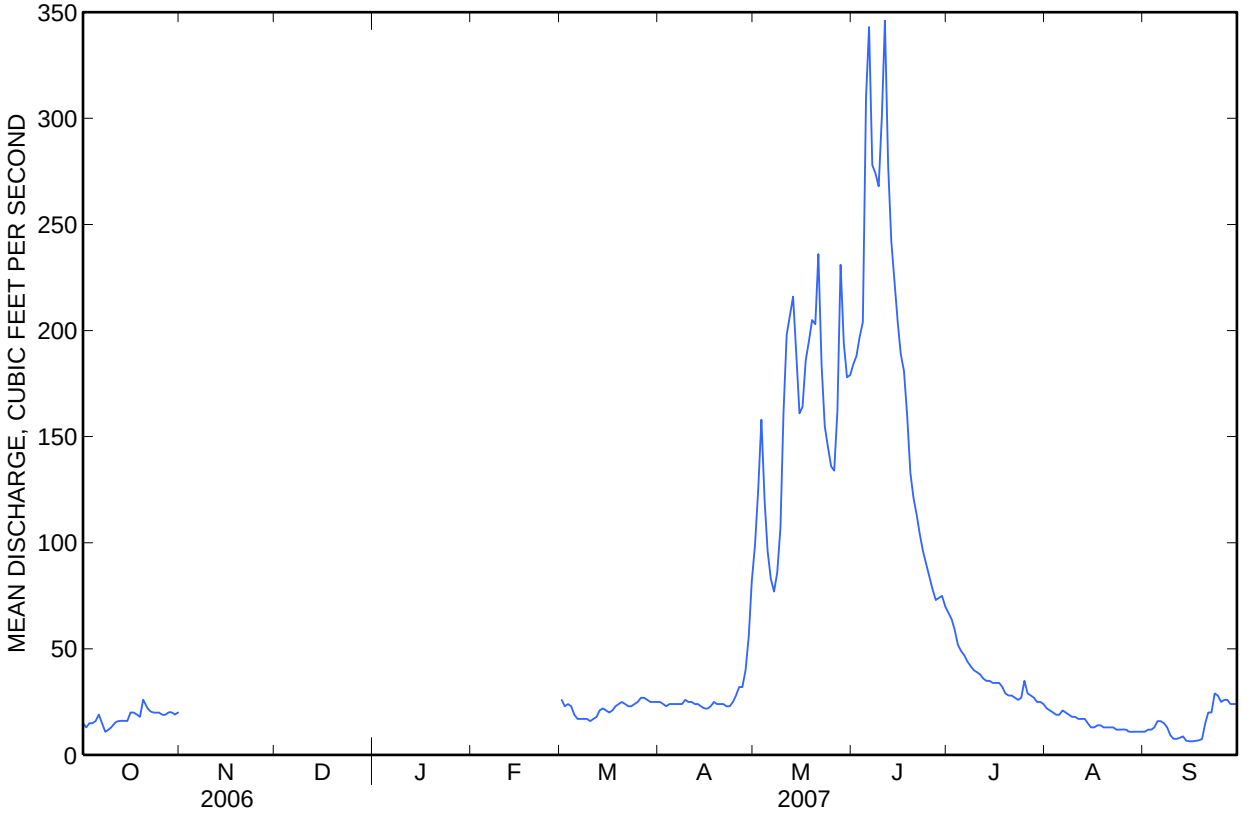
SUMMARY STATISTICS

	Season 2007		Water Years 1940 - 2006	
Annual mean			44.4	
Highest annual mean			82.2	1976
Lowest annual mean			20.4	1992
Highest daily mean	346	Jun 11	1,140	Jun 19, 1975
Lowest daily mean	6.5	Sep 15	2.8	Oct 13, 1991
Annual seven-day minimum			3.4	Oct 8, 1987
Maximum peak flow	381	Jun 11	1,460	Jun 19, 1975
Maximum peak stage	3.22	Jun 11	4.55	Jun 19, 1975
Instantaneous low flow			[a]2.8	Oct 13, 1991
Annual runoff (ac-ft)			32,160	
10 percent exceeds			108	
50 percent exceeds			21	
90 percent exceeds			12	

[a] Result of upstream diversion.