Water-Data Report 2013

05014500 SWIFTCURRENT CREEK AT MANY GLACIER, MT

Saskatchewan Basin
St. Mary Subbasin

LOCATION.--Lat 48°47'56", long 113°39'24" referenced to North American Datum of 1983, in SE ¼ sec.11, T.35 N., R.16 W., Glacier County, MT, Hydrologic Unit 10010002, Glacier National Park, on right bank 100 ft upstream from outlet of Swiftcurrent Lake at Many Glacier, and 11 mi southwest of Babb.

DRAINAGE AREA.--30.9 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1912 to current year (records incomplete most years prior to 1959). Published as "at McDermott Lake" 1912-14. Monthly discharge only for some periods, published in Water Supply Paper (WSP) 1308.

REVISED RECORDS.--WSP 1508: 1918, maximum discharge; 1943. Water Data Report MT-75-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,876.78 ft, referenced to National Geodetic Vertical Datum of 1929. Prior to May 23, 1916, nonrecording gage on left bank of lake opposite present gage and at present elevation, and May 23, 1916, to June 15, 1918, nonrecording gage at present site and elevation.

REMARKS.--Records are good. No regulation or diversion occurs upstream 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 Several unpublished observations of water temperature and specific conductance were made during the year.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 05014500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05014500.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	38	463	107	26	22	17	44	145	384	458	94	65
2	30	350	118	25	21	23	50	123	364	472	108	63
3	39	268	121	24	20	32	70	112	366	510	163	62
4	39	259	108	23	20	32	82	109	355	500	174	61
5	36	381	136	23	19	30	115	114	349	399	159	61
6	34	508	136	23	19	31	177	139	412	323	142	66
7	32	464	124	24	19	33	177	194	552	267	127	74
8	32	443	111	21	19	33	147	292	684	247	120	73
9	32	315	90	22	19	32	120	374	636	249	114	70
10	29	231	74	e20	20	29	100	485	572	232	108	65
11	29	180	70	e20	19	27	92	519	489	232	104	63
12	28	150	71	e20	18	24	83	697	452	227	103	61
13	27	131	70	e20	16	29	77	1,170	416	203	104	58
14	46	121	61	e20	17	37	69	1,240	366	177	109	55
15	58	106	60	e20	19	52	62	753	341	159	103	53
16	134	92	55	20	19	63	56	495	345	155	99	54
17	189	82	54	20	22	66	50	393	346	157	93	49
18	156	83	52	18	23	58	46	370	374	160	92	55
19	135	79	51	17	22	51	44	364	492	173	90	55
20	182	151	44	17	22	44	49	367	1,090	171	85	50
21	190	251	e45	17	20	43	58	412	868	162	84	47
22	156	216	e45	17	17	42	52	481	562	156	83	41
23	132	171	e40	18	15	37	48	638	443	148	77	49
24	108	144	e35	20	16	34	45	597	410	145	73	54
25	92	121	e35	17	15	32	45	452	397	143	70	57
26	79	101	e35	22	16	31	52	357	466	140	70	58
27	72	84	34	24	17	30	96	332	467	135	68	53
28	78	77	33	24	16	30	161	354	456	132	68	60
29	105	71	31	22	---	31	190	401	475	124	69	170
30	200	87	29	21	---	34	176	443	455	113	70	267
31	409	---	27	22	---	38	---	422	---	102	66	---
Total	2,946	6,180	2,102	647	527	1,125	2,633	13,344	14,384	6,971	3,089	2,069
Mean	95.0	206	67.8	20.9	18.8	36.3	87.8	430	479	225	99.6	69.0
Max	409	508	136	26	23	66	190	1,240	1,090	510	174	267
Min	27	71	27	17	15	17	44	109	341	102	66	41
Ac-ft	5,840	12,260	4,170	1,280	1,050	2,230	5,220	26,470	28,530	13,830	6,130	4,100
Cfsm	3.08	6.67	2.19	0.68	0.61	1.17	2.84	13.9	15.5	7.28	3.22	2.23
In.	3.55	7.44	2.53	0.78	0.63	1.35	3.17	16.06	17.32	8.39	3.72	2.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2013, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	83.4	76.3	37.3	32.8	26.0	31.5	104	372	489	259	115	83.9
Max	243	320	99.8	177	68.4	144	340	656	822	519	207	236
(WY)	(1948)	(2007)	(1981)	(1918)	(1995)	(2007)	(1934)	(1928)	(1975)	(1916)	(1916)	(1968)
Min	19.5	13.0	13.6	10.1	6.93	9.71	16.9	205	193	114	49.9	30.1
(WY)	(1988)	(1988)	(1979)	(1979)	(1985)	(1975)	(1975)	(1955)	(1926)	(1944)	(2007)	(2007)

*Only for complete months of operation (records incomplete most years prior to 1959).

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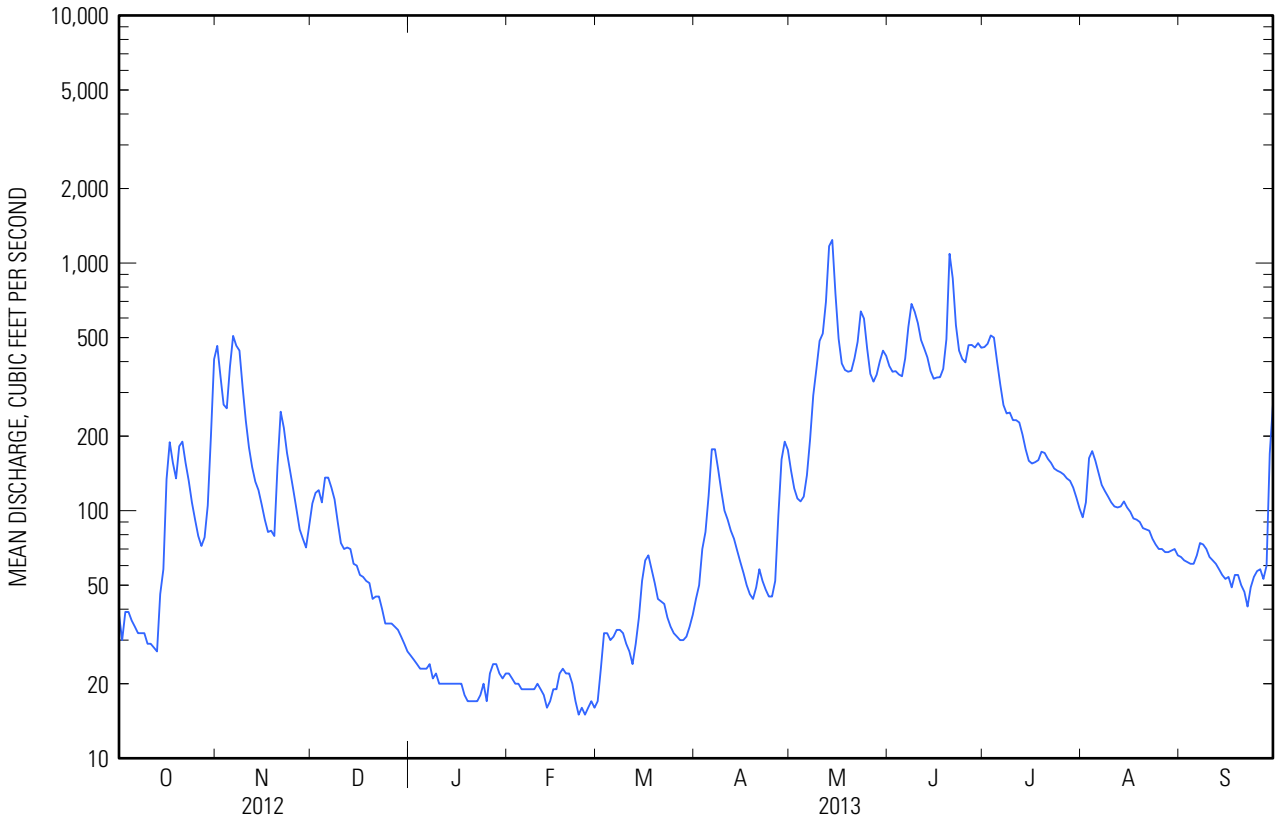
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1912 – 2013*	
Annual total	62,144		56,017			
Annual mean	170		153		140	
Highest annual mean					184	1991
Lowest annual mean					86.4	2001
Highest daily mean	1,020	Jun 18	1,240	May 14	4,130	Jun 8, 1964
Lowest daily mean	12	Feb 20	15	Feb 23	[a]0.00	Nov 14, 1976
Annual seven-day minimum	13	Feb 19	16	Feb 22	4.6	Nov 13, 1976
Maximum peak flow			1,380	May 14	[b]6,700	Jun 8, 1964
Maximum peak stage			5.19	May 14	[c]10.00	Jun 8, 1964
Annual runoff (ac-ft)	123,300		111,100		101,700	
Annual runoff (cfsm)	5.49		4.97		4.54	
Annual runoff (inches)	74.81		67.44		61.70	
10 percent exceeds	504		430		388	
50 percent exceeds	71		77		64	
90 percent exceeds	18		20		18	

*For complete years only.
[a]Result of pumping operations, Nov. 14-16, 1976.
[b]From rating curve extended above 1,100 ft³/s, on basis of flow over dam computation.
[c]From floodmarks.