Water-Data Report 2012

04029990 MONTREAL RIVER AT SAXON FALLS NEAR SAXON, WI

Southwestern Lake Superior Basin
Bad-Montreal Subbasin

LOCATION.--Lat 46°32′13″, long 90°22′47″ referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.21, T.47 N., R.1 E., Iron County, WI, Hydrologic Unit 04010302, at Saxon Falls powerhouse, 3.4 mi northeast of Saxon, and 3.8 mi upstream from mouth.

DRAINAGE AREA.--262 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1938 to September 1970, October 1986 to current year. Published as "Montreal River near Saxon" (04030000), September 1938 to September 1970.

REVISED RECORDS.--WSP 894: 1938-39. WSP 924: 1939-40. WSP 1307: 1948(M). WSP 1627: 1958.

GAGE.--Headwater and tailwater gages read by Northern States Power Company.

COOPERATION.--Records were provided by Northern States Power Company and reviewed by the Geological Survey.

REMARKS.--Diurnal fluctuation caused by Saxon Falls powerplant. Flow regulated by Gile Reservoir on West Branch Montreal River (capacity 1,290,000,000 ft^3) since April 1941.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 04029990, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/04029990.2012.pdf

04029990 MONTREAL RIVER AT SAXON FALLS NEAR SAXON, WI—Continued

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

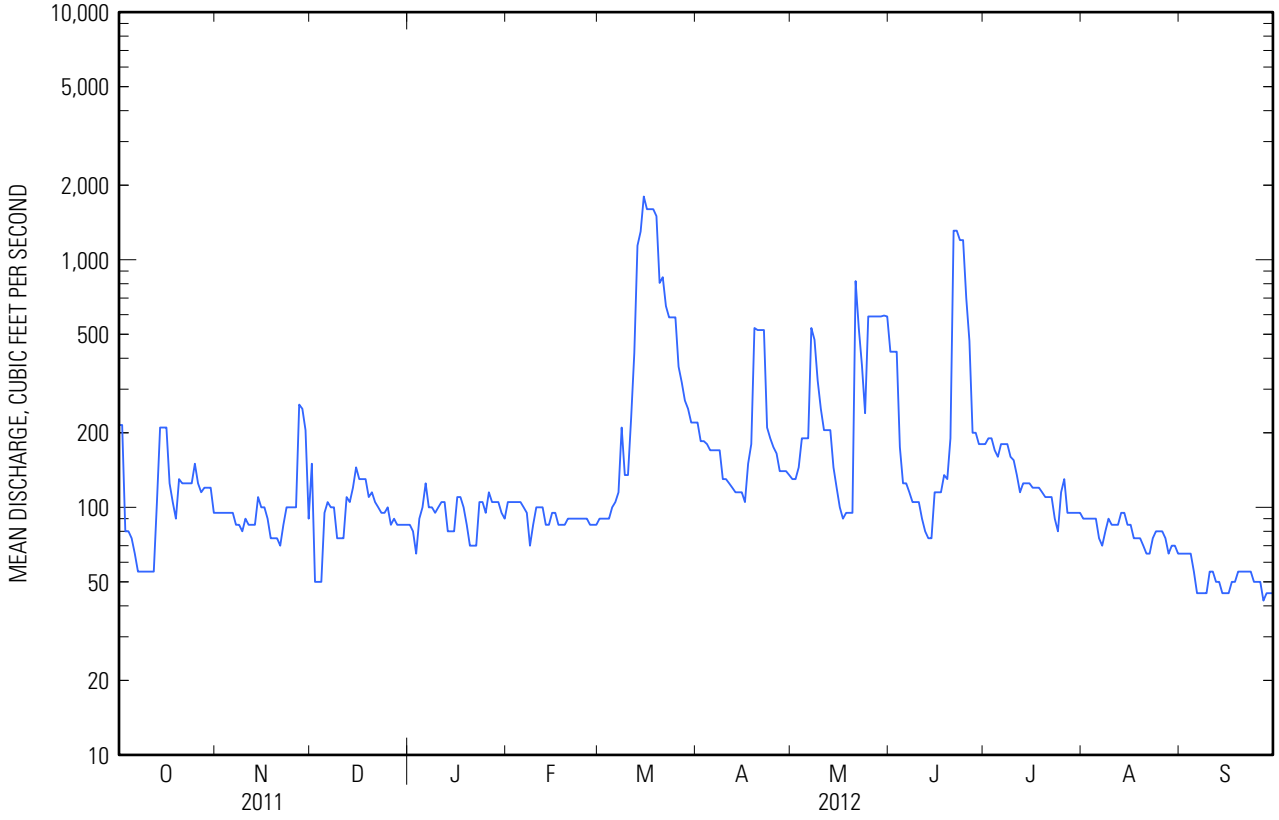
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	215	95	150	85	105	90	220	130	425	180	90	65
2	215	95	50	80	105	90	185	130	425	190	90	65
3	80	95	50	65	105	90	185	145	425	190	90	65
4	80	95	50	90	105	90	180	190	175	170	90	65
5	75	95	95	100	105	100	170	190	125	160	90	55
6	65	95	105	125	100	105	170	190	125	180	75	45
7	55	85	100	100	95	115	170	530	115	180	70	45
8	55	85	100	100	70	210	170	475	105	180	80	45
9	55	80	75	95	85	135	130	325	105	160	90	45
10	55	90	75	100	100	135	130	250	105	155	85	55
11	55	85	75	105	100	230	125	205	90	135	85	55
12	55	85	110	105	100	420	120	205	80	115	85	50
13	105	85	105	80	85	1,140	115	205	75	125	95	50
14	210	110	120	80	85	1,300	115	145	75	125	95	45
15	210	100	145	80	95	1,800	115	120	115	125	85	45
16	210	100	130	110	95	1,600	105	100	115	120	85	45
17	125	90	130	110	85	1,600	150	90	115	120	75	50
18	105	75	130	100	85	1,600	180	95	135	120	75	50
19	90	75	110	85	85	1,500	530	95	130	115	75	55
20	130	75	115	70	90	806	520	95	190	110	70	55
21	125	70	105	70	90	850	520	820	1,310	110	65	55
22	125	85	100	70	90	650	520	530	1,310	110	65	55
23	125	100	95	105	90	585	210	375	1,200	90	75	55
24	125	100	95	105	90	585	190	240	1,200	80	80	50
25	150	100	100	95	90	585	175	590	700	115	80	50
26	125	100	85	115	90	370	165	590	470	130	80	50
27	115	260	90	105	85	320	140	590	200	95	75	42
28	120	250	85	105	85	270	140	590	200	95	65	45
29	120	205	85	105	85	250	140	590	180	95	70	45
30	120	90	85	95	---	220	135	595	180	95	70	45
31	95	---	85	90	---	220	---	590	---	95	65	---
Total	3,590	3,150	3,030	2,925	2,675	18,061	6,120	10,010	10,200	4,065	2,465	1,542
Mean	116	105	97.7	94.4	92.2	583	204	323	340	131	79.5	51.4
Max	215	260	150	125	105	1,800	530	820	1,310	190	95	65
Min	55	70	50	65	70	90	105	90	75	80	65	42
Cfsm	0.44	0.40	0.37	0.36	0.35	2.22	0.78	1.23	1.30	0.50	0.30	0.20
In.	0.51	0.45	0.43	0.42	0.38	2.56	0.87	1.42	1.45	0.58	0.35	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	202	231	173	160	157	329	975	499	341	262	185	177
Max	566	800	391	295	321	888	2,388	1,180	1,172	1,068	432	894
(WY)	(2003)	(1992)	(1952)	(1969)	(1969)	(1945)	(2002)	(1954)	(1939)	(1992)	(1953)	(1941)
Min	38.2	34.2	38.1	27.8	21.0	55.4	156	127	101	70.3	36.1	33.6
(WY)	(1949)	(1949)	(1949)	(1949)	(1949)	(1940)	(2010)	(1941)	(1987)	(2007)	(1987)	(1939)

04029990 MONTREAL RIVER AT SAXON FALLS NEAR SAXON, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1938 - 2012	
Annual total	92,478		67,833			
Annual mean	253		185		308	
Highest annual mean					487	1952
Lowest annual mean					162	1987
Highest daily mean	2,880	Apr 11	1,800	Mar 15	9,880	Jul 3, 1992
Lowest daily mean	45	Sep 16[a]	42	Sep 27	7.2	Oct 24, 1948
Annual seven-day minimum	49	Sep 12	47	Sep 24	7.7	Oct 29, 1948
Annual runoff (cfsm)	0.967		0.707		1.17	
Annual runoff (inches)	13.13		9.63		15.95	
10 percent exceeds	500		425		603	
50 percent exceeds	160		102		188	
90 percent exceeds	60		65		83	

[a] Also occurred additional days.