

## RAINY RIVER BASIN--Continued

05128000 NAMAKAN RIVER AT OUTLET OF LAC LA CROIX, ONTARIO  
(International Gaging Station)

LOCATION.--Lat 48°21'14", long 92°13'01", at Campbell's Camp, on Lac La Croix Lake, used to determine discharge at outlet [Lat 48°23'00", long 92°10'40", 2.5 mi east of Campbell's Camp].

DRAINAGE AREA.--5,170 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1921 to January 1922, April 1922 to current year, in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1308. August 1921 to current year, in reports of Water Survey of Canada.

GAGE.--Water-stage recorder. Datum of gage is sea level (United States and Canadian Boundary Survey). Prior to October 1933, nonrecording gages at various sites on Lac la Croix. October 1933 to Mar. 13, 1963, nonrecording gage at present site and datum.

REMARKS.--Records furnished by Water Survey of Canada.

COOPERATION.--This station is one of the international stations maintained by Canada under agreement with the United States.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3600	2880	3230	3640	2790	2070	1790	2970	3990	5860	3170	1860
2	3530	2860	3300	3640	2750	2050	1780	3030	3990	5830	3090	1850
3	3420	2910	3310	3600	2720	2030	1780	3140	3920	5760	3020	1800
4	3280	2910	3330	3570	2700	2010	1770	3180	3880	5760	2890	1830
5	3260	2920	3400	3570	2660	2000	1750	3270	3810	6000	2810	e1820
6	3230	2900	3430	3530	2640	1970	1750	3340	3780	6110	2730	e1790
7	3170	2930	3570	3520	2600	1960	1740	3390	3670	6110	2630	e1770
8	3150	2900	3600	3480	2570	1960	1730	3490	3640	6040	2530	e1750
9	3100	2920	3640	3450	2550	1980	1720	3500	3670	5970	2440	e1730
10	3110	2910	3670	3430	2520	1980	1720	3600	3600	5900	2430	e1710
11	3170	2930	3710	3400	2510	1970	1720	3670	3780	5720	2390	e1690
12	3160	2930	3710	3370	2470	1970	1720	3740	3880	5580	2340	e1670
13	3140	2930	3740	3350	2450	1950	1740	3780	3990	5470	2270	e1650
14	3110	2930	3740	3320	2430	1940	1770	3850	4100	5330	2230	e1630
15	3090	2920	3740	3280	2400	1920	1820	3880	4170	5230	2210	e1620
16	3100	2940	3740	3260	2370	1920	1870	3880	4240	5080	2210	e1600
17	3100	2930	3740	3220	2350	1910	1940	3880	4340	4940	2120	e1580
18	3060	2910	3740	3190	2330	1890	2000	3920	4410	4840	2140	e1560
19	3040	2890	3740	3170	2300	1880	2080	3950	4480	4700	2120	e1540
20	3000	2910	3710	3140	2270	1870	2150	3950	4520	4560	2090	e1530
21	2990	2910	3710	3120	2240	1860	2220	3920	4630	4410	2070	e1500
22	2990	2910	3710	3090	2220	1850	2300	3920	4770	4240	2040	e1490
23	2970	2880	3780	3060	2200	1840	2370	3880	4940	4130	2000	e1470
24	2980	2930	3780	3030	2160	1830	2430	3880	5120	4030	1960	e1450
25	2880	3040	3780	3000	2140	1820	2460	3880	5330	3920	1940	e1430
26	2930	3110	3780	2970	2120	1810	2570	3810	5510	3810	1930	e1420
27	2960	3150	3780	2930	2100	1800	2680	3810	5650	3740	1900	1390
28	2920	3200	3780	2900	2080	1810	2740	3810	5760	3640	1860	1400
29	2910	3210	3740	2880	---	1810	2810	3880	5830	3530	1860	1400
30	2920	3240	3740	2850	---	1810	2890	3950	5830	3430	1870	1380
31	2930	---	3710	2820	---	1800	---	3950	---	3350	1870	---
TOTAL	96200	88840	113080	100780	67640	59270	61810	114100	133230	153020	71160	48310
MEAN	3103	2961	3648	3251	2416	1912	2060	3681	4441	4936	2295	1610
MAX	3600	3240	3780	3640	2790	2070	2890	3950	5830	6110	3170	1860
MIN	2880	2860	3230	2820	2080	1800	1720	2970	3600	3350	1860	1380
AC-FT	190800	176200	224300	199900	134200	117600	122600	226300	264300	303500	141100	95820
CFSM	0.60	0.57	0.71	0.63	0.47	0.37	0.40	0.71	0.86	0.95	0.44	0.31
IN.	0.69	0.64	0.81	0.73	0.49	0.43	0.44	0.82	0.96	1.10	0.51	0.35

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3059	2916	2616	2210	1899	1684	2597	7690	7950	6071	4080	3175
MAX	14200	10610	7189	4568	3432	2996	9071	16900	22120	15930	11200	13140
(WY)	1978	1978	1972	1978	1966	1966	1945	1938	1950	1968	1944	1988
MIN	744	624	567	547	540	535	614	899	1475	1263	1123	774
(WY)	1999	1977	1977	1977	1924	1924	1977	1977	1924	1924	1998	1998

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1921 - 2002

ANNUAL TOTAL		1963010		1107440								
ANNUAL MEAN		5378		3034						3847		
HIGHEST ANNUAL MEAN										7270		1950
LOWEST ANNUAL MEAN										964		1924
HIGHEST DAILY MEAN				16500	May 14		6110	Jul 6,7		28200a	May 31	1950
LOWEST DAILY MEAN				1480	Apr 4		1380	Sep 30		535	Feb 4	1924
ANNUAL SEVEN-DAY MINIMUM				1490	Mar 30		1410	Sep 24		535	Feb 4	1924
MAXIMUM PEAK FLOW							6250	Jul 5		28200	May 31	1950
MAXIMUM PEAK STAGE							1185.67	Jul 5		1193.30a	May 31	1950
INSTANTANEOUS LOW FLOW										535b	Feb 1	1924
ANNUAL RUNOFF (AC-FT)		3894000		2197000						2787000		
ANNUAL RUNOFF (CFSM)		1.04		0.59						0.74		
ANNUAL RUNOFF (INCHES)		14.12		7.97						10.11		
10 PERCENT EXCEEDS		13100		4240						8290		
50 PERCENT EXCEEDS		3710		2960						2710		
90 PERCENT EXCEEDS		1650		1780						1180		

a Occurred May 31 to June 2, 1950.  
b Many days in 1924.

