

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 mi².

PERIOD OF RECORD.--September 1921 to January 1922, April 1922 to current year, in reports of U.S.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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	1,220	1,200	1,160	1,010	936	918	1,130	1,490	1,890	3,600	2,500
2	1,340	1,230	1,200	1,160	1,010	936	918	1,140	1,510	1,940	3,640	2,440
3	1,340	1,220	1,200	1,150	1,010	936	918	1,160	1,520	1,990	3,670	2,360
4	1,370	1,220	1,200	1,150	1,010	936	925	1,160	1,530	1,990	3,640	2,330
5	1,380	1,220	1,200	1,140	1,010	932	925	1,180	1,530	2,030	3,640	2,280
6	1,370	1,200	1,200	1,140	999	929	922	1,160	1,580	2,080	3,600	2,230
7	1,360	1,210	1,190	1,140	999	925	922	1,170	1,600	2,080	3,640	2,200
8	1,340	1,220	1,190	1,130	996	922	918	1,190	1,620	2,110	3,600	2,150
9	1,340	1,220	1,190	1,130	992	922	922	1,220	1,640	2,160	3,530	2,120
10	1,330	1,200	1,190	1,120	992	918	918	1,200	1,680	2,240	3,520	2,070
11	1,320	1,200	1,180	1,110	989	918	918	1,200	1,700	2,290	3,490	2,040
12	1,340	1,200	1,180	e1,100	985	911	922	1,210	1,720	2,350	3,420	2,240
13	1,330	1,210	1,180	e1,100	982	911	922	1,220	1,710	2,400	3,370	2,240
14	1,340	1,210	1,170	e1,090	975	907	922	1,240	1,730	2,450	3,310	2,190
15	1,300	1,210	1,170	e1,080	978	907	925	1,240	1,750	2,510	3,250	2,150
16	1,290	1,210	1,160	e1,070	975	904	925	1,250	1,750	2,600	3,220	2,130
17	1,280	1,210	1,160	e1,070	968	904	936	1,250	1,780	2,680	3,170	2,150
18	1,280	1,200	1,170	e1,070	964	904	939	1,260	1,790	2,740	3,090	2,140
19	1,270	1,200	1,180	e1,060	957	904	960	1,290	1,800	2,820	3,040	2,380
20	1,280	1,200	1,190	e1,060	957	904	982	1,310	1,790	2,890	3,020	2,550
21	1,270	1,200	1,190	e1,050	960	907	1,010	1,340	1,800	2,990	3,060	2,640
22	1,250	1,210	1,180	e1,050	957	911	1,030	1,350	1,780	3,060	3,020	2,700
23	1,240	1,220	1,190	e1,040	953	915	1,040	1,360	1,780	3,140	3,000	2,810
24	1,230	1,210	1,180	e1,040	950	918	1,060	1,360	1,820	3,200	2,880	2,820
25	1,230	1,220	1,180	e1,040	950	922	1,070	1,360	1,860	3,260	2,830	2,980
26	1,220	1,220	1,180	e1,030	946	922	1,080	1,370	1,840	3,300	2,720	3,040
27	1,220	1,220	1,180	e1,020	943	925	1,090	1,370	1,880	3,360	2,680	3,080
28	1,240	1,220	1,170	e1,020	939	922	1,090	1,380	1,900	3,400	2,680	3,150
29	1,240	1,210	1,170	e1,010	---	922	1,110	1,400	1,880	3,430	2,650	3,170
30	1,230	1,210	1,170	e1,010	---	918	1,120	1,460	1,880	3,520	2,600	3,210
31	1,220	---	1,160	1,010	---	922	---	1,470	---	3,570	2,540	---
TOTAL	40,140	36,350	36,650	33,550	27,356	28,470	29,257	39,400	51,640	82,470	99,120	74,490
MEAN	1,295	1,212	1,182	1,082	977	918	975	1,271	1,721	2,660	3,197	2,483
MAX	1,380	1,230	1,200	1,160	1,010	936	1,120	1,470	1,900	3,570	3,670	3,210
MIN	1,220	1,200	1,160	1,010	939	904	918	1,130	1,490	1,890	2,540	2,040
AC-FT	79,620	72,100	72,700	66,550	54,260	56,470	58,030	78,150	102,400	163,600	196,600	147,800
CFSM	0.25	0.23	0.23	0.21	0.19	0.18	0.19	0.25	0.33	0.51	0.62	0.48
IN.	0.29	0.26	0.26	0.24	0.20	0.20	0.21	0.28	0.37	0.59	0.71	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2003, BY WATER YEAR (WY)

MEAN	3,038	2,896	2,598	2,197	1,888	1,675	2,578	7,610	7,873	6,029	4,069	3,166
MAX	14,200	10,610	7,189	4,568	3,432	2,996	9,071	16,900	22,120	15,930	11,200	13,140
(WY)	(1978)	(1978)	(1972)	(1978)	(1966)	(1966)	(1945)	(1938)	(1950)	(1968)	(1944)	(1988)
MIN	744	624	567	547	540	535	614	899	1,475	1,263	1,123	774
(WY)	(1999)	(1977)	(1977)	(1977)	(1924)	(1924)	(1977)	(1977)	(1924)	(1924)	(1998)	(1998)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1921 - 2003	
ANNUAL TOTAL	922,460		578,893			
ANNUAL MEAN	2,527		1,586		3,819	
HIGHEST ANNUAL MEAN					7,270 1950	
LOWEST ANNUAL MEAN					964 1924	
HIGHEST DAILY MEAN	6,110	Jul 6	3,670	Aug 3	a28,200	May 31, 1950
LOWEST DAILY MEAN	1,160	Dec 16	904	Mar 16-20	535	Feb 4, 1924
ANNUAL SEVEN-DAY MINIMUM	1,170	Dec 12	905	Mar 14	535	Feb 4, 1924
MAXIMUM PEAK FLOW			3,670	Aug 3	28,200	May 31, 1950
MAXIMUM PEAK STAGE			1,184.38	Aug 3	a1,193.30	May 31, 1950
INSTANTANEOUS LOW FLOW			897	Mar 19	b535	Feb 1, 1924
ANNUAL RUNOFF (AC-FT)	1,830,000		1,148,000		2,767,000	
ANNUAL RUNOFF (CFSM)	0.49		0.31		0.74	
ANNUAL RUNOFF (INCHES)	6.64		4.17		10.04	
10 PERCENT EXCEEDS	4,240		3,020		8,240	
50 PERCENT EXCEEDS	2,080		1,220		2,680	
90 PERCENT EXCEEDS	1,200		925		1,180	

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

