

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 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,260	2,930	2,360	e2,100	e2,130	e2,070	e2,390	7,870	7,770	6,570	3,570	2,090
2	3,280	2,910	2,350	e2,100	e2,140	e2,090	e2,430	8,020	7,770	6,430	3,490	2,050
3	3,280	2,880	2,340	e2,090	e2,140	e2,140	e2,460	8,120	7,730	6,360	3,400	2,000
4	3,320	2,870	2,320	e2,090	e2,150	e2,150	e2,490	8,190	7,700	6,390	3,320	1,970
5	3,340	2,810	2,310	e2,090	e2,150	e2,150	e2,510	8,330	7,700	6,360	3,230	1,960
6	3,350	2,740	2,300	e2,090	e2,160	e2,150	e2,540	8,330	7,730	6,250	3,160	1,970
7	3,350	2,690	2,280	e2,090	e2,160	e2,150	e2,570	8,440	7,870	6,110	3,080	1,950
8	3,350	2,700	2,260	e2,090	e2,160	e2,150	e2,850	8,470	7,870	6,000	3,010	1,950
9	3,350	2,660	2,250	e2,090	e2,150	e2,160	e3,040	8,510	7,980	5,860	2,930	1,920
10	3,350	2,630	2,240	e2,080	e2,150	e2,160	e3,230	8,440	8,020	5,760	2,890	1,880
11	3,330	2,590	2,220	e2,090	2,140	e2,150	e3,430	8,550	8,050	5,900	2,890	1,820
12	3,360	2,570	2,220	e2,090	e2,130	e2,160	e3,600	8,620	7,980	5,760	2,840	1,830
13	3,400	2,550	2,210	e2,100	e2,120	e2,160	e3,780	8,580	7,940	5,580	2,780	1,780
14	3,380	2,530	2,190	e2,100	e2,110	e2,160	e3,920	8,580	7,940	5,510	2,700	1,730
15	3,350	2,510	2,180	e2,110	e2,110	e2,210	e4,030	8,550	7,980	5,400	2,640	1,750
16	3,320	2,480	2,210	e2,120	e2,100	e2,190	e4,240	8,510	7,980	5,260	2,590	1,830
17	3,350	2,480	2,210	e2,120	e2,100	e2,200	e4,410	8,510	7,940	5,050	2,540	1,860
18	3,300	2,450	2,200	e2,120	e2,090	e2,210	e4,560	8,470	7,770	4,940	2,490	1,840
19	3,300	2,420	2,190	e2,120	e2,090	e2,200	e4,730	8,400	7,730	4,840	2,490	1,830
20	3,240	2,380	2,180	e2,120	e2,090	e2,200	e4,870	8,330	7,630	4,770	2,420	1,810
21	3,210	2,370	2,160	e2,120	e2,090	e2,190	e5,080	8,300	7,560	4,630	2,390	1,810
22	3,200	2,380	2,150	e2,120	e2,080	e2,190	e5,580	8,190	7,450	4,480	2,340	1,830
23	3,160	2,380	2,140	e2,120	e2,080	e2,190	e5,900	8,120	7,420	4,380	2,330	1,830
24	3,190	2,410	2,130	e2,130	e2,080	e2,200	e6,250	7,980	7,340	4,310	2,290	1,840
25	3,140	2,430	2,120	e2,130	e2,070	e2,210	e6,570	7,910	7,270	4,170	2,250	1,830
26	3,120	2,430	2,120	e2,130	e2,080	e2,230	e6,890	7,870	7,170	4,100	2,230	1,830
27	3,130	2,400	2,110	e2,130	e2,070	e2,260	e7,130	7,870	7,060	3,990	2,210	1,800
28	3,120	2,390	2,100	e2,130	e2,070	e2,300	e7,380	7,800	6,920	3,880	2,190	1,790
29	3,060	2,390	2,090	2,130	e2,070	e2,310	7,520	7,730	6,810	3,810	2,160	1,780
30	3,040	2,380	2,090	2,130	---	e2,340	7,660	7,730	6,670	3,740	2,130	1,780
31	2,970	---	2,100	e2,130	---	e2,380	---	7,800	---	3,670	2,120	---
TOTAL	100,900	76,740	68,330	65,400	61,260	68,010	134,040	255,120	228,750	160,260	83,100	55,940
MEAN	3,255	2,558	2,204	2,110	2,112	2,194	4,468	8,230	7,625	5,170	2,681	1,865
MAX	3,400	2,930	2,360	2,130	2,160	2,380	7,660	8,620	8,050	6,570	3,570	2,090
MIN	2,970	2,370	2,090	2,080	2,070	2,070	2,390	7,730	6,670	3,670	2,120	1,730
AC-FT	200,100	152,200	135,500	129,700	121,500	134,900	265,900	506,000	453,700	317,900	164,800	111,000
CFSM	0.63	0.49	0.43	0.41	0.41	0.42	0.86	1.59	1.47	1.00	0.52	0.36
IN.	0.73	0.55	0.49	0.47	0.44	0.49	0.96	1.84	1.65	1.15	0.60	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	3,041	2,892	2,593	2,195	1,891	1,681	2,600	7,618	7,870	6,019	4,052	3,151
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	711,723		1,357,850			
ANNUAL MEAN	1,950		3,710		3,818	
HIGHEST ANNUAL MEAN					7,270 1950	
LOWEST ANNUAL MEAN					964 1924	
HIGHEST DAILY MEAN	3,670	Aug 3	8,620	May 12	a28,200	May 31, 1950
LOWEST DAILY MEAN	904	Mar 16	1,730	Sep 14	535	Feb 4, 1924
ANNUAL SEVEN-DAY MINIMUM	905	Mar 14	1,800	Sep 11	535	Feb 4, 1924
MAXIMUM PEAK FLOW			8,860	May 12	28,200	May 31, 1950
MAXIMUM PEAK STAGE			1,187.07	May 12	a1,193.30	May 31, 1950
INSTANTANEOUS LOW FLOW			1,700	Sep 14	b535	Feb 1, 1924
ANNUAL RUNOFF (AC-FT)	1,412,000		2,693,000		2,766,000	
ANNUAL RUNOFF (CFSM)	0.377		0.718		0.738	
ANNUAL RUNOFF (INCHES)	5.12		9.77		10.03	
10 PERCENT EXCEEDS	3,290		7,870		8,220	
50 PERCENT EXCEEDS	1,940		2,490		2,680	
90 PERCENT EXCEEDS	925		2,080		1,180	

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

