

05299650 LAC QUI PARLE RIVER NEAR PROVIDENCE, MN

LOCATION--Lat 44°53'07", long 96°03'07", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 5, T.116 N., R.43 W., Lac qui Parle County, Hydrologic Unit 07020003, on left bank 10 ft downstream from County Road 23 bridge, 6.1 mi upstream from confluence with West Branch of Lac qui Parle River, and 3 mi south of Dawson.

DRAINAGE AREA.--374 mi<sup>2</sup>.

PERIOD OF RECORD.--April 2001 to September 2003 (discontinued).

## GAGE.--Water-stage recorder.

REMARKS.--Records good to fair except those for estimated daily discharges, which are poor.

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	0.69	9.4	e6.8	e4.8	e1.6	e0.84	32	58	45	19	e2.2	<0.01
2	0.64	8.7	e6.6	e4.7	e1.6	e0.82	31	57	44	17	e1.6	<0.01
3	0.64	8.9	e6.3	e4.7	e1.6	e0.80	31	56	43	15	e1.4	<0.01
4	1.9	10	e6.0	e4.7	e1.5	e0.78	30	56	43	14	e1.7	<0.01
5	4.9	9.8	e5.9	e4.6	e1.5	e0.77	25	58	42	13	1.2	<0.01
6	4.7	9.8	e5.8	e4.6	e1.4	e0.77	26	60	42	12	1.3	<0.01
7	7.0	9.0	e5.7	e4.6	e1.3	e0.76	25	61	48	13	1.3	<0.01
8	9.5	8.7	e5.7	e4.5	e1.2	e0.76	24	63	59	12	1.2	<0.01
9	8.8	8.9	e5.6	e4.4	e1.2	e0.76	22	69	83	11	0.88	<0.01
10	7.8	10	e5.6	e4.3	e1.1	e0.76	21	75	86	11	0.87	e0.07
11	10	9.1	e5.5	e4.0	e1.0	e0.77	21	95	80	11	0.59	0.18
12	9.7	8.5	e5.5	e3.5	e1.00	e0.81	20	99	71	10	2.1	e0.08
13	10	8.5	e5.5	e3.2	e0.97	e0.87	20	104	63	9.2	2.2	e0.04
14	9.6	8.8	e5.4	e3.1	e0.94	e11	20	127	54	7.4	1.1	e0.02
15	9.0	9.7	e5.4	e2.9	e0.92	e42	19	155	47	6.5	0.63	e0.02
16	7.9	9.9	e5.4	e2.8	e0.91	e240	23	162	41	6.0	0.39	e0.01
17	8.5	10	e5.4	e2.7	e0.90	e423	36	145	37	5.3	0.25	e0.01
18	8.2	12	e5.5	e2.6	e0.90	e373	67	125	33	4.6	0.18	e0.02
19	7.9	14	e5.6	e2.5	e0.99	e213	86	111	32	4.4	0.13	e0.03
20	7.2	12	e5.7	e2.4	e0.96	e149	103	99	28	e4.1	e0.10	e0.02
21	6.9	11	e5.6	e2.3	e0.94	e119	130	90	25	e4.2	e0.06	e0.03
22	6.8	11	e5.4	e2.1	e0.92	e102	125	85	24	4.3	e0.03	e0.03
23	6.4	11	e5.3	e2.0	e0.90	e87	111	81	24	4.4	e0.02	e0.02
24	6.6	e9.5	e5.2	e1.9	e0.89	e102	100	76	24	7.4	e0.02	e0.01
25	6.8	e8.3	e5.0	e1.8	e0.87	e85	90	73	30	6.6	e0.02	<0.01
26	6.6	e7.7	e4.9	e1.8	e0.85	e71	81	71	31	5.1	e0.01	<0.01
27	6.9	e7.4	e4.9	e1.7	e0.84	55	74	68	29	3.8	<0.01	<0.01
28	7.2	e7.5	e4.9	e1.7	e0.84	49	68	64	29	3.0	<0.01	<0.01
29	7.2	e7.7	e4.9	e1.7	---	42	63	59	26	2.5	<0.01	<0.01
30	7.5	e6.9	e4.8	e1.6	---	37	61	52	22	e1.9	<0.01	<0.01
31	8.1	---	e4.8	e1.6	---	35	---	49	---	e1.9	<0.01	---
TOTAL	211.57	283.7	170.6	95.8	30.54	2,245.27	1,585	2,603	1,285	250.6	21.53	0.74
MEAN	6.82	9.46	5.50	3.09	1.09	72.4	52.8	84.0	42.8	8.08	0.69	0.025
MAX	10	14	6.8	4.8	1.6	423	130	162	86	19	2.2	0.18
MIN	0.64	6.9	4.8	1.6	0.84	0.76	19	49	22	1.9	<0.01	<0.01
AC-FT	420	563	338	190	61	4,450	3,140	5,160	2,550	497	43	1.5
CFSM	0.02	0.03	0.01	0.01	0.00	0.19	0.14	0.22	0.11	0.02	0.00	0.00
IN.	0.02	0.03	0.02	0.01	0.00	0.22	0.16	0.26	0.13	0.02	0.00	0.00

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

## 05299650 LAC QUI PARLE RIVER NEAR PROVIDENCE, MN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 2001 - 2003
ANNUAL TOTAL	18,824.54	8,783.35	37.8
ANNUAL MEAN	51.6	24.1	51.5 24.1
HIGHEST ANNUAL MEAN			2002 2003
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	518	Apr 3	2,100
LOWEST DAILY MEAN	0.64	Oct 2	<0.01
ANNUAL SEVEN-DAY MINIMUM	0.73	Sep 27	<0.01
MAXIMUM PEAK FLOW			a423
MAXIMUM PEAK STAGE			b12.71
INSTANTANEOUS LOW FLOW			c<0.01
ANNUAL RUNOFF (AC-FT)	37,340	17,420	2,140
ANNUAL RUNOFF (CFSM)	0.14	0.064	<0.01
ANNUAL RUNOFF (INCHES)	1.87	0.87	<0.01
10 PERCENT EXCEEDS	183	74	119
50 PERCENT EXCEEDS	9.9	6.4	18.29
90 PERCENT EXCEEDS	1.6	0.04	d<0.01

a Estimated daily discharge, backwater from ice.

b Backwater from ice.

c Many days.

d Many days in 2003.

e Estimated.

&lt; Actual value is known to be less than the value shown

