

05300000 LAC QUI PARLE RIVER NEAR LAC QUI PARLE, MN

LOCATION.--Lat 44°59'42", long 95°55'09", in SW¹/₄SW¹/₄ sec. 27, T.118 N., R.42 W., Lac qui Parle County, Hydrologic Unit 07020003, on right bank 70 ft downstream from highway bridge and 0.5 mi southwest of city of Lac qui Parle.

DRAINAGE AREA.--960 mi².

PERIOD OF RECORD.--April 1910 to November 1914; March 1931 to September 1999 (winter records incomplete prior to 1934), October 1999 to March 2001 (peak flow only), April 2001 to current year. Published as "at Lac qui Parle," 1910-14.

REVISED RECORDS.--WSP 1308: 1912(M), 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 946.98 ft above sea level (NGVD of 1929, Minnesota Department of Transportation benchmark). Apr. 27, 1910 to Nov. 15, 1914, nonrecording gage at site 2 mi downstream at different datum. Mar. 17, 1931 to Mar. 9, 1937, nonrecording gage at site 40 ft upstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair to poor. Records for Sept. 14 to 30 are poor due to backwater from beaver dam.

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	4.4	e27	e26	e20	e11	e4.8	97	137	118	48	6.0	0.25
2	3.8	e28	e27	e19	e11	e4.7	94	131	114	41	5.5	0.17
3	3.9	e28	e27	e19	e11	e4.5	93	128	110	37	4.8	0.09
4	13	28	e25	e19	e11	e4.4	92	126	107	33	5.2	0.07
5	22	31	e24	e19	e10	e4.4	87	129	106	29	4.8	0.05
6	22	31	e24	e19	e9.3	e4.4	76	130	106	26	4.3	0.05
7	19	31	e25	e19	e8.7	e4.3	74	140	109	22	3.6	0.04
8	32	32	e25	e18	e8.3	e4.2	69	145	114	21	2.7	0.03
9	40	30	e24	e18	e8.0	e4.1	66	164	123	22	3.5	0.04
10	39	30	e24	e18	e7.7	e4.1	59	174	148	21	3.6	0.85
11	33	32	e24	e17	e7.3	e4.1	57	203	148	20	3.1	8.8
12	27	31	e24	e17	e7.1	e4.1	55	221	137	19	2.4	12
13	27	30	e23	e16	e7.0	e4.1	53	230	125	17	1.7	6.9
14	27	32	e23	e15	e7.0	e11	52	282	113	15	1.5	e4.1
15	27	e30	e23	e14	e6.9	e44	53	325	104	14	1.7	e2.6
16	30	e29	e23	e14	e6.8	e162	58	340	95	14	1.7	e1.8
17	31	e28	e22	e13	e6.6	e595	83	324	87	12	1.8	e1.4
18	29	e29	e23	e12	e6.4	e763	106	292	80	11	1.8	e1.3
19	31	29	e23	e12	e6.4	703	173	267	69	9.4	1.8	e1.4
20	29	35	e23	e11	e7.5	553	213	243	63	10	1.4	e1.7
21	29	34	e23	e10	e7.1	400	263	226	55	12	1.1	e2.5
22	29	33	e23	e9.8	e6.5	367	285	215	58	15	0.88	e2.4
23	28	32	e22	e9.6	e6.0	277	267	203	56	13	0.69	e1.6
24	27	e29	e22	e9.8	e5.7	238	238	197	56	11	0.53	e1.3
25	26	e28	e21	e10	e5.6	219	213	187	91	9.8	0.82	e1.1
26	26	e27	e20	e11	e5.3	190	193	178	80	8.2	1.2	e0.99
27	26	28	e19	e11	e5.1	168	176	170	73	8.3	0.94	e0.92
28	25	29	e20	e11	e5.0	140	161	162	67	7.5	0.63	e0.88
29	26	27	e21	e11	---	127	151	150	63	6.1	0.44	e0.86
30	27	23	e20	e11	---	113	143	137	56	5.2	0.30	e0.84
31	27	---	e20	e11	---	101	---	127	---	5.5	0.33	---
TOTAL	786.1	891	713	444.2	211.3	5,227.2	3,800	6,083	2,831	543.0	70.76	57.03
MEAN	25.4	29.7	23.0	14.3	7.55	169	127	196	94.4	17.5	2.28	1.90
MAX	40	35	27	20	11	763	285	340	148	48	6.0	12
MIN	3.8	23	19	9.6	5.0	4.1	52	126	55	5.2	0.30	0.03
AC-FT	1,560	1,770	1,410	881	419	10,370	7,540	12,070	5,620	1,080	140	113
CFSM	0.03	0.03	0.02	0.01	0.01	0.18	0.13	0.20	0.10	0.02	0.00	0.00
IN.	0.03	0.03	0.03	0.02	0.01	0.20	0.15	0.24	0.11	0.02	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2003, BY WATER YEAR (WY)

MEAN	42.7	48.3	26.4	12.0	23.1	295	603	253	271	140	75.3	37.3
MAX	629	378	149	88.1	244	1,634	5,354	1,264	1,762	1,613	765	535
(WY)	(1996)	(1996)	(1996)	(1994)	(1998)	(1985)	(1997)	(1995)	(1984)	(1993)	(1953)	(1985)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(1932)	(1932)	(1932)	(1932)	(1934)	(1934)	(1934)	(1934)	(1934)	(1934)	(1931)	(1931)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1910 - 2003	
ANNUAL TOTAL	40,956.9		21,657.59		a159	
ANNUAL MEAN	112		59.3		625	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					0.000	
HIGHEST DAILY MEAN	1,160	Apr 2	763	Mar 18	16,000	Apr 10, 1969
LOWEST DAILY MEAN	2.5	Sep 24	0.03	Sep 8	b0.00	Jul 15, 1931
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 23	0.05	Sep 3	0.00	Jul 15, 1931
MAXIMUM PEAK FLOW			c763	Mar 18	17,100	Apr 10, 1969
MAXIMUM PEAK STAGE			d9.54	Mar 17	f24.37	Apr 9, 1965
INSTANTANEOUS LOW FLOW			0.03	Sep 7	b0.00	Jul 15, 1931
ANNUAL RUNOFF (AC-FT)	81,240		42,960		115,200	
ANNUAL RUNOFF (CFSM)	0.12		0.062		0.17	
ANNUAL RUNOFF (INCHES)	1.59		0.84		2.25	
10 PERCENT EXCEEDS	350		171		365	
50 PERCENT EXCEEDS	30		23		24	
90 PERCENT EXCEEDS	15		1.7		0.50	

- a Median of annual mean discharges is 120 ft³/s.
- b Many days, several years.
- c Estimated daily-mean discharge, backwater from ice.
- d Backwater from ice.
- e Estimated.
- f From highwater mark, backwater from ice. Datum then in use.

