05300000 LAC QUI PARLE RIVER NEAR LAC QUI PARLE, MN

Minnesota Basin
Lac Qui Parle Subbasin

LOCATION.--Lat 44°59′43″, long 95°55′10″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.27, T.118 N., R.42 W., Lac Qui Parle County, MN, Hydrologic Unit 07020003, on left bank 20 ft downstream from highway bridge and 0.5 mi southwest of village of Lac qui Parle.

DRAINAGE AREA.--960 mi^2.

SURFACE-WATER RECORDS

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, non-recording gage at site 2 mi downstream at different datum. Mar. 17, 1931 to Mar. 9, 1937, non-recording gage at site 40 ft upstream at present datum. Prior to July 26, 1998, gage datum 5.00 ft higher at present location.

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.8	33	e48	e37	e17	e15	1,530	270	72	47	18	6.3
2	8.2	31	e51	e37	e16	e16	1,380	273	66	42	17	7.6
3	7.0	29	e48	e37	e15	e16	1,280	264	61	39	16	7.7
4	6.2	28	e47	e36	e15	e20	1,190	244	57	40	14	7.2
5	6.3	30	e47	e36	e15	e21	1,100	228	53	38	13	7.4
6	8.3	31	e46	e36	e17	e22	1,000	213	49	34	12	7.2
7	16	49	e46	e36	e18	e20	917	202	48	35	17	6.5
8	28	64	e44	e36	e18	e21	847	194	56	45	20	6.7
9	20	77	e44	e36	e20	e22	785	185	62	47	20	8.5
10	16	95	e45	e35	e23	e21	725	177	71	52	18	12
11	28	89	e46	e35	e22	e23	666	171	83	58	15	16
12	28	82	e47	e34	e21	e29	608	168	86	66	14	19
13	26	77	e48	e30	e20	e41	556	162	83	65	13	19
14	23	78	e46	e28	e17	e53	519	153	79	63	11	20
15	18	78	e42	e26	e16	e179	485	148	73	58	9.6	20
16	17	79	e42	e23	e16	e331	450	146	69	52	8.1	24
17	18	79	e41	e23	e16	e342	420	139	66	49	6.3	36
18	18	e77	e40	e23	e16	e497	398	131	63	46	6.3	19
19	16	e71	e40	e23	e18	e961	380	125	63	42	8.0	16
20	15	e60	e40	e22	e17	e1,150	362	118	73	40	9.7	15
21	14	e51	e40	e21	e18	e1,050	349	107	77	43	12	15
22	16	e61	e39	e21	e16	e1,220	335	103	74	40	10	20
23	24	e66	e39	e20	e17	e2,160	319	98	70	36	10	20
24	30	e65	e38	e19	e20	e2,970	300	96	72	33	18	21
25	34	e60	e39	e19	e17	3,910	282	90	71	29	16	49
26	52	e55	e40	e18	e16	4,250	272	87	66	26	14	56
27	51	e52	e40	e18	e14	3,760	264	84	61	23	13	41
28	47	e52	e39	e17	e14	3,090	263	79	56	21	9.4	26
29	41	e50	e40	e17	---	2,470	273	78	50	20	6.8	21
30	36	e50	e38	e17	---	2,040	273	80	49	19	5.3	27
31	34	---	e38	e19	---	1,730	---	76	---	19	5.1	---
Total	710.8	1,799	1,328	835	485	32,450	18,528	4,689	1,979	1,267	385.6	577.1
Mean	22.9	60.0	42.8	26.9	17.3	1,047	618	151	66.0	40.9	12.4	19.2
Max	52	95	51	37	23	4,250	1,530	273	86	66	20	56
Min	6.2	28	38	17	14	15	263	76	48	19	5.1	6.3
Ac-ft	1,410	3,570	2,630	1,660	962	64,360	36,750	9,300	3,930	2,510	765	1,140
Cfsm	0.02	0.06	0.04	0.03	0.02	1.09	0.64	0.16	0.07	0.04	0.01	0.02
In.	0.03	0.07	0.05	0.03	0.02	1.26	0.72	0.18	0.08	0.05	0.01	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	44.5	50.9	28.2	14.7	24.9	307	602	264	275	134	71.0	36.8
Max	629	378	149	196	244	1,634	5,354	1,264	1,762	1,613	765	535
(WY)	(1996)	(1996)	(1996)	(2006)	(1998)	(1985)	(1997)	(1995)	(1984)	(1993)	(1953)	(1985)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1932)	(1932)	(1932)	(1932)	(1934)	(1934)	(1934)	(1934)	(1934)	(1934)	(1931)	(1931)

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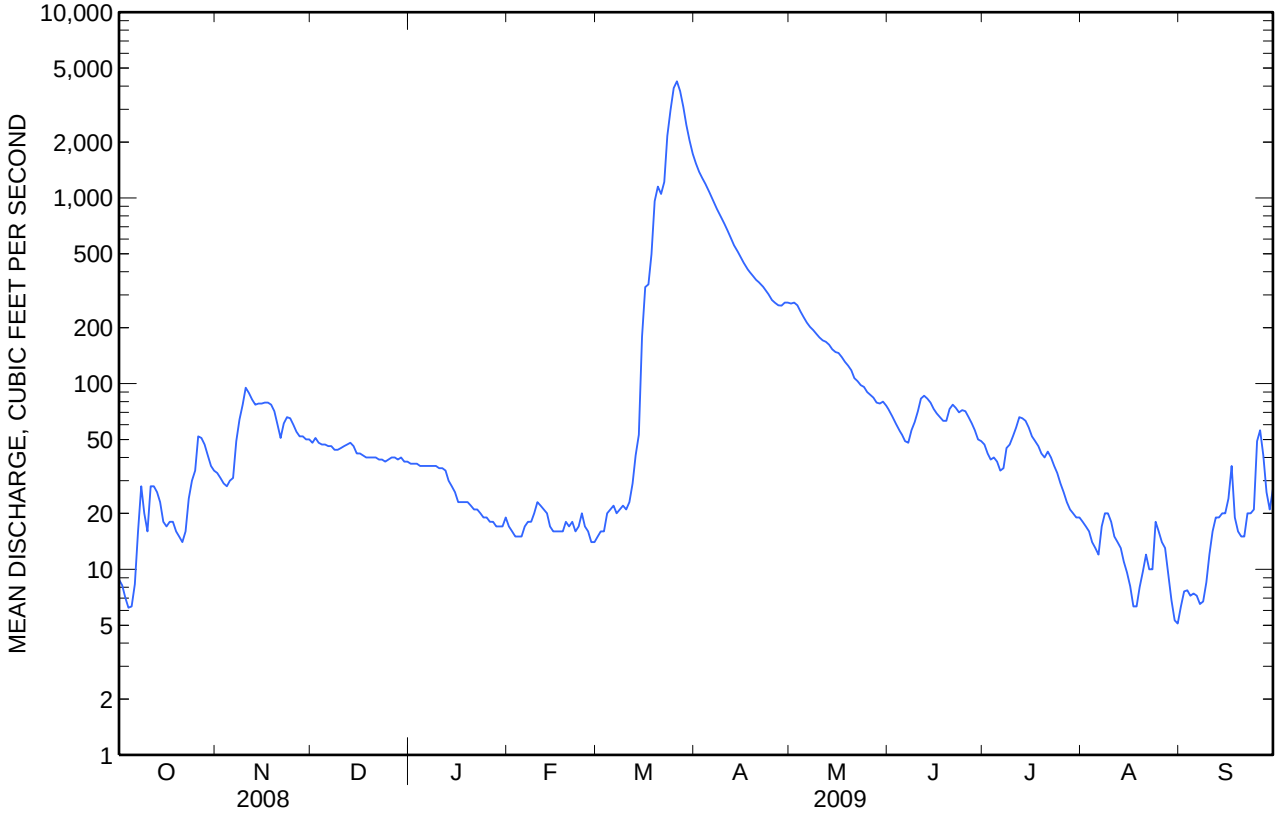
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1910 - 2009	
Annual total	80,771.8		65,033.5			
Annual mean	221		178		[a]161	
Highest annual mean					625	1993
Lowest annual mean					0.00	1934
Highest daily mean	1,760	May 13	4,250	Mar 26	16,000	Apr 10, 1969
Lowest daily mean	6.2	Oct 4	5.1	Aug 31	[b]0.00	Jul 15, 1931
Annual seven-day minimum	7.2	Aug 31	6.6	Aug 29	0.00	Jul 15, 1931
Maximum peak flow			4,370	Mar 26	17,100	Apr 10, 1969
Maximum peak stage			15.55	Mar 26	[c]24.37	Apr 9, 1965
Instantaneous low flow			4.2	Aug 17	[b]0.00	Jul 15, 1931
Annual runoff (ac-ft)	160,200		129,000		116,400	
Annual runoff (cfsm)	0.230		0.186		0.167	
Annual runoff (inches)	3.13		2.52		2.27	
10 percent exceeds	809		338		374	
50 percent exceeds	46		40		26	
90 percent exceeds	10		14		0.80	

[a] Median of annual mean discharges is 130 ft³/s.

[b] Many days, several years.

[c] From highwater mark, backwater from ice. Datum then in use.