

## 05078230 LOST RIVER AT OKLEE, MN

LOCATION.--Lat 47°50'35", long 95°51'30", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, T.150 N., R.41 W., Red Lake County, Hydrologic Unit 09020305, on left bank 30 ft upstream of bridge on State Highway 222 at northwest edge of Oklee, 12 mi upstream from mouth.

DRAINAGE AREA.--254 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1960 to September 1981, February 1982 to current year. Monthly and daily figures for April 1960 to June 1960, published in WSP 2113.

GAGE.--Water-stage recorder. Datum of gage is 1,126.94 ft above sea level, adjustment of 1912 (levels by U.S. Army Corps of Engineers). Prior to Sept. 9, 1960, reference points at same site at datum 8.00 ft higher. Sept. 9, 1960 to Sept. 30, 1964, nonrecording gage at same site at datum 8.00 ft higher. Oct. 1, 1964 to Sept. 30, 1981, and Feb. 24, 1982 to Sept. 6, 1989, nonrecording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1897, 18.39 ft, present datum, Apr. 21, 1950, from floodmarks, discharge, 2,790 ft<sup>3</sup>/s.

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	30	e31	e7.3	e5.2	e4.7	e4.5	e36	21	30	144	6.2	2.3
2	26	e30	e7.1	e5.2	e4.7	e4.5	e30	20	28	120	5.8	2.1
3	22	e29	e6.7	e5.1	e4.6	e4.5	e25	20	23	121	5.5	2.0
4	25	e27	e6.6	e5.1	e4.6	e4.5	e15	21	24	113	5.4	1.2
5	28	e27	e6.4	e5.1	e4.6	e4.5	e25	24	22	109	5.2	1.5
6	29	e26	e6.3	e5.1	e4.6	e4.5	e46	24	23	104	4.8	1.5
7	30	e25	e6.2	e5.0	e4.6	e4.5	e43	25	23	100	4.4	1.7
8	30	e26	e6.0	e5.0	e4.6	e4.5	e41	26	24	96	4.3	1.8
9	31	e25	e5.9	e5.0	e4.6	e4.5	e49	31	22	92	4.0	1.6
10	38	e23	e5.9	e5.0	e4.6	e4.5	e52	63	77	86	3.4	1.9
11	37	e21	e5.8	e5.0	e4.6	e4.5	e45	77	129	82	3.1	2.1
12	34	e21	e5.8	e4.9	e4.6	e4.6	37	72	110	78	3.0	2.3
13	30	e17	e6.0	e4.9	e4.6	e4.7	33	65	96	75	2.8	2.3
14	28	e15	e6.3	e4.9	e4.6	e5.4	36	57	80	72	2.5	2.1
15	31	e14	e6.4	e4.9	e4.6	e8.2	30	59	64	70	2.3	2.1
16	35	e11	e6.0	e4.9	e4.6	e65	23	51	59	66	2.0	2.2
17	33	e9.9	e5.7	e4.9	e4.6	e120	16	45	66	64	1.8	2.4
18	34	e9.4	e5.6	e4.9	e4.6	e170	17	47	61	63	1.8	2.8
19	37	e9.7	e5.4	e4.9	e4.6	e215	21	97	49	57	1.6	3.0
20	38	e10	e5.4	e4.9	e4.6	e180	38	109	39	50	1.8	3.0
21	36	e11	e5.4	e4.9	e4.6	e155	44	100	32	40	1.8	3.0
22	36	e12	e5.4	e4.9	e4.6	e135	42	96	38	27	2.0	3.1
23	35	e12	e5.3	e4.8	e4.6	e120	38	87	96	20	2.6	3.2
24	33	e11	e5.3	e4.8	e4.6	e108	37	75	114	17	2.8	3.1
25	30	e11	e5.3	e4.8	e4.6	e82	33	65	914	13	2.7	3.0
26	34	e9.8	e5.3	e4.8	e4.6	e64	35	54	1,000	11	2.6	2.9
27	34	e8.7	e5.2	e4.8	e4.5	e55	35	46	561	11	2.1	2.9
28	36	e8.3	e5.2	e4.8	e4.5	e49	32	44	330	9.8	2.2	2.9
29	39	e8.2	e5.2	e4.8	---	e43	28	40	250	9.0	2.1	2.9
30	e40	e7.8	e5.2	e4.7	---	e39	24	34	193	7.7	2.3	2.9
31	e34	---	e5.2	e4.7	---	e42	---	33	---	6.8	2.2	---
TOTAL	1,013	506.8	180.8	152.7	128.8	1,714.4	1,006	1,628	4,577	1,934.3	97.1	71.8
MEAN	32.7	16.9	5.83	4.93	4.60	55.3	33.5	52.5	153	62.4	3.13	2.39
MAX	40	31	7.3	5.2	4.7	215	52	109	1,000	144	6.2	3.2
MIN	22	7.8	5.2	4.7	4.5	4.5	15	20	22	6.8	1.6	1.2
AC-FT	2,010	1,010	359	303	255	3,400	2,000	3,230	9,080	3,840	193	142
CFSM	0.13	0.07	0.02	0.02	0.02	0.22	0.13	0.21	0.60	0.25	0.01	0.01
IN.	0.15	0.07	0.03	0.02	0.02	0.25	0.15	0.24	0.67	0.28	0.01	0.01

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2003, BY WATER YEAR (WY)

MEAN	48.3	36.2	16.1	10.0	10.7	75.6	301	138	97.2	84.0	39.1	41.0
MAX	470	232	56.6	26.7	76.3	264	904	622	657	442	351	330
(WY)	(1972)	(1972)	(1978)	(1998)	(1998)	(1999)	(1996)	(1962)	(1962)	(1962)	(1985)	(1973)
MIN	1.02	1.11	0.050	0.002	0.000	0.19	29.5	10.5	8.20	1.99	1.17	0.000
(WY)	(1991)	(1977)	(1977)	(1977)	(1977)	(1964)	(1991)	(1980)	(1980)	(1961)	(1961)	(1990)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1960 - 2003	
ANNUAL TOTAL	22,805.6		13,010.7			
ANNUAL MEAN	62.5		35.6		74.8	
HIGHEST ANNUAL MEAN					177	1962
LOWEST ANNUAL MEAN					18.2	1990
HIGHEST DAILY MEAN	818	Jun 24	1,000	Jun 26	3,040	Apr 11, 1969
LOWEST DAILY MEAN	5.2	Dec 27	1.2	Sep 4	a0.00	Feb 16, 1963
ANNUAL SEVEN-DAY MINIMUM	5.2	Dec 25	1.6	Sep 4	0.00	Feb 16, 1963
MAXIMUM PEAK FLOW			1,240	Jun 25	b3,210	Apr 11, 1969
MAXIMUM PEAK STAGE			11.98	Jun 25	c16.91	Apr 8, 1997
INSTANTANEOUS LOW FLOW			0.88	Sep 5	a0.00	Feb 16, 1963
ANNUAL RUNOFF (AC-FT)	45,230		25,810		54,170	
ANNUAL RUNOFF (CFSM)	0.25		0.14		0.29	
ANNUAL RUNOFF (INCHES)	3.34		1.91		4.00	
10 PERCENT EXCEEDS	127		81		165	
50 PERCENT EXCEEDS	28		11		20	
90 PERCENT EXCEEDS	9.6		2.8		2.7	

- a Many days, several years.
- b Gage-height, 14.91 ft, from floodmark.
- c Backwater from ice.
- e Estimated.

