

05078230 LOST RIVER AT OKLEE, MN

LOCATION.--Lat 47°50'35", long 95°51'30", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	1,370	e44	e14	e16	e14	e950	65	214	303	3.9	3.6
2	42	1,040	e42	e14	e16	e14	e700	67	181	246	3.5	3.3
3	39	709	e39	e14	e16	e14	469	65	161	199	3.4	3.3
4	38	501	e38	e13	e16	e14	422	62	157	156	2.8	3.4
5	35	392	e37	e13	e17	e14	376	60	258	120	2.4	3.5
6	34	334	e35	e13	e17	e15	321	65	828	97	2.2	4.5
7	33	282	e34	e13	e16	e15	266	63	1,030	81	2.0	7.3
8	32	235	e33	e13	e16	e15	235	63	1,020	63	1.6	9.0
9	31	204	e33	e13	e16	e15	215	70	912	51	1.4	8.2
10	30	187	e32	e13	e16	e14	197	88	644	43	1.3	7.3
11	30	166	e32	e12	e16	e14	208	100	435	36	1.6	9.1
12	30	150	e31	e12	e16	e14	314	97	720	31	1.6	12
13	29	139	e31	e12	e17	e14	348	98	655	28	1.5	13
14	29	132	e30	e12	e17	e14	289	117	729	25	2.0	12
15	29	127	e29	e12	e17	e14	240	122	642	21	2.0	11
16	28	123	e29	e12	e16	e14	207	108	459	17	2.1	9.6
17	28	119	e28	e12	e16	e14	182	99	347	14	3.0	7.2
18	28	114	e27	e12	e16	e14	167	90	264	12	3.4	5.4
19	28	108	e26	e12	e15	e14	157	86	206	9.7	4.2	4.7
20	29	108	e25	e12	e15	e14	145	79	166	8.7	5.3	4.0
21	28	e105	e24	e13	e15	e14	136	77	139	7.7	4.6	3.8
22	29	e102	e23	e13	e15	e15	123	91	118	7.0	3.7	3.7
23	65	e87	e21	e13	e15	e17	106	103	103	6.6	3.5	3.7
24	189	e77	e19	e13	e15	e23	81	94	94	8.4	3.5	4.3
25	197	e70	e18	e13	e14	e45	77	89	85	8.0	3.8	5.2
26	176	e64	e17	e14	e14	e95	78	206	70	7.6	5.6	8.2
27	148	e59	e16	e14	e14	e200	77	336	87	7.1	14	16
28	133	e55	e16	e14	e14	e400	71	393	106	6.7	18	18
29	286	e51	e15	e15	---	e800	65	380	111	6.6	13	18
30	1,360	e48	e15	e15	---	e1,100	65	332	219	5.4	8.0	18
31	1,640	---	e14	e15	---	e1,050	---	268	---	4.5	5.0	---
TOTAL	4,898	7,258	853	405	439	4,043	7,287	4,033	11,160	1,637.0	133.9	240.3
MEAN	158	242	27.5	13.1	15.7	130	243	130	372	52.8	4.32	8.01
MAX	1,640	1,370	44	15	17	1,100	950	393	1,030	303	18	18
MIN	28	48	14	12	14	14	65	60	70	4.5	1.3	3.3
AC-FT	9,720	14,400	1,690	803	871	8,020	14,450	8,000	22,140	3,250	266	477
CFSM	0.62	0.95	0.11	0.05	0.06	0.51	0.96	0.51	1.46	0.21	0.02	0.03
IN.	0.72	1.06	0.12	0.06	0.06	0.59	1.07	0.59	1.63	0.24	0.02	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	49.8	40.3	16.2	10.0	10.7	76.9	295	138	102	82.2	37.9	40.3
MAX	470	242	56.6	26.7	76.3	264	904	622	657	442	351	330
(WY)	(1972)	(2005)	(1978)	(1998)	(1998)	(1999)	(1996)	(1962)	(1962)	(1962)	(1985)	(1973)
MIN	1.02	1.11	0.05	0.00	0.00	0.19	29.5	10.5	8.20	1.99	1.17	0.00
(WY)	(1991)	(1977)	(1977)	(1977)	(1977)	(1964)	(1991)	(1980)	(1980)	(1961)	(1961)	(1990)

05078230 LOST RIVER AT OKLEE, MN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL TOTAL	27,208.2		42,387.2		75.0	
ANNUAL MEAN	74.3		116		18.2	
HIGHEST ANNUAL MEAN					177	1962
LOWEST ANNUAL MEAN					18.2	1990
HIGHEST DAILY MEAN	1,640	Oct 31	1,640	Oct 31	3,040	Apr 11, 1969
LOWEST DAILY MEAN	5.0	Jan 21	1.3	Aug 10	a0.00	Feb 16, 1963
ANNUAL SEVEN-DAY MINIMUM	5.0	Jan 19	1.6	Aug 7	0.00	Feb 16, 1963
MAXIMUM PEAK FLOW			1,710	Oct 31	b3,210	Apr 11, 1969
MAXIMUM PEAK STAGE			13.53	Oct 31	c16.91	Apr 8, 1997
INSTANTANEOUS LOW FLOW			0.99	Aug 10	a0.00	Feb 16, 1963
ANNUAL RUNOFF (AC-FT)	53,970		84,080		54,300	
ANNUAL RUNOFF (CFSM)	0.293		0.457		0.295	
ANNUAL RUNOFF (INCHES)	3.98		6.21		4.01	
10 PERCENT EXCEEDS	169		307		167	
50 PERCENT EXCEEDS	30		28		20	
90 PERCENT EXCEEDS	6.1		4.7		2.8	

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

