

RED RIVER OF THE NORTH BASIN--Continued

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 mi².

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 good except those for estimated daily discharges, which are fair.

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 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	57	e36	e18	e17	e15	e65	101	62	171	48	161
2	15	55	e35	e17	e17	e15	e53	98	60	159	48	101
3	17	52	e34	e17	e17	e15	e47	93	60	140	46	70
4	16	49	e33	e17	e17	e16	e44	91	56	126	44	54
5	21	48	e33	e17	e17	e16	e42	89	54	116	40	44
6	26	47	e33	e17	e17	e16	e41	91	53	108	34	39
7	29	45	e33	e17	e18	e16	e41	92	51	106	27	35
8	32	45	e32	e18	e18	e16	e41	107	48	126	21	31
9	34	45	e32	e19	e18	e16	e42	252	83	118	19	28
10	36	46	e32	e21	e18	e17	e43	254	134	292	16	26
11	48	45	e33	e23	e18	e17	e50	196	157	493	15	23
12	49	44	e33	e23	e18	e17	e65	154	136	363	16	21
13	51	42	e32	e24	e18	e18	e125	135	123	234	18	18
14	54	42	e32	e24	e18	e18	e130	123	210	159	16	15
15	53	41	e32	e24	e18	e20	123	110	159	122	14	13
16	51	40	e34	e23	e18	e22	117	106	107	104	13	12
17	49	39	e36	e21	e18	e32	115	96	85	94	17	11
18	48	39	e37	e19	e18	e45	135	89	71	94	31	11
19	46	38	e34	e18	e18	e36	180	84	72	88	38	11
20	45	38	e32	e18	e18	e30	159	79	386	84	37	11
21	43	38	e30	e18	e18	e27	128	75	578	80	35	15
22	42	38	e28	e18	e18	e24	108	72	556	75	31	22
23	42	38	e27	e18	e18	e22	98	77	765	70	26	28
24	46	38	e25	e18	e17	e21	107	76	818	58	21	29
25	57	38	e24	e17	e17	e20	129	72	699	53	17	28
26	59	33	e24	e17	e16	e21	115	70	549	62	14	27
27	59	e32	e23	e17	e16	e23	108	65	382	59	13	26
28	60	e30	e23	e17	e16	e50	105	64	279	54	24	25
29	62	e29	e22	e17	---	e85	108	67	226	51	83	26
30	59	e37	e21	e17	---	e100	105	67	190	47	71	26
31	57	---	e20	e17	---	e84	---	63	---	43	124	---
TOTAL	1322	1248	935	586	490	890	2769	3208	7209	3949	1017	987
MEAN	42.6	41.6	30.2	18.9	17.5	28.7	92.3	103	240	127	32.8	32.9
MAX	62	57	37	24	18	100	180	254	818	493	124	161
MIN	15	29	20	17	16	15	41	63	48	43	13	11
AC-FT	2620	2480	1850	1160	972	1770	5490	6360	14300	7830	2020	1960
CFSM	0.17	0.16	0.12	0.07	0.07	0.11	0.36	0.41	0.95	0.50	0.13	0.13
IN.	0.19	0.18	0.14	0.09	0.07	0.13	0.41	0.47	1.06	0.58	0.15	0.14

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	48.6	36.7	16.3	10.2	10.8	76.1	307	140	95.9	84.5	40.0	41.9
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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1960 - 2002

ANNUAL TOTAL	37836.9		24610		75.7	
ANNUAL MEAN	104		67.4		18.2	
HIGHEST ANNUAL MEAN					177 1962	
LOWEST ANNUAL MEAN					18.2 1990	
HIGHEST DAILY MEAN	1960	Apr 8	818	Jun 24	3040	Apr 11 1969
LOWEST DAILY MEAN	8.1	Sep 5	11	Sep 17-20	0.00a	Feb 16 1963
ANNUAL SEVEN-DAY MINIMUM	9.3	Aug 31	12	Sep 14	0.00	Feb 16 1963
MAXIMUM PEAK FLOW			833		3210b Apr 11 1969	
MAXIMUM PEAK STAGE			10.12		16.91c Apr 8 1997	
INSTANTANEOUS LOW FLOW			9.9		Sep 21	
ANNUAL RUNOFF (AC-FT)	75050		48810		54860	
ANNUAL RUNOFF (CFSM)	0.41		0.27		0.30	
ANNUAL RUNOFF (INCHES)	5.54		3.60		4.05	
10 PERCENT EXCEEDS	221		127		169	
50 PERCENT EXCEEDS	32		38		20	
90 PERCENT EXCEEDS	15		17		2.7	

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

