

RED RIVER OF THE NORTH BASIN--Continued

05078230 LOST RIVER AT OKLEE, MN

LOCATION.--Lat 47°50'35", long 95°51'30", in SE¹/₄NE¹/₄ 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	98	e61	e29	e22	e18	e100	236	159	23	213	10
2	57	216	e60	e28	e22	e18	e110	217	189	e21	141	9.9
3	56	274	e60	e27	e21	e18	e200	228	152	e21	89	9.2
4	53	259	e59	e27	e21	e18	e320	216	115	e20	63	8.5
5	52	207	e57	e26	e21	e18	e350	194	97	e18	48	8.1
6	52	197	e57	e26	e21	e18	e555	198	85	e17	39	8.6
7	52	423	e56	e26	e21	e18	e1250	212	80	e15	35	14
8	51	889	e55	e26	e21	e18	1960	215	77	e14	34	18
9	51	814	e53	e25	e20	e18	1650	207	69	e13	176	19
10	52	612	e52	e25	e20	e18	1450	194	59	12	107	17
11	51	410	e51	e25	e20	e18	1130	178	56	11	73	16
12	50	307	e50	e25	e20	e18	1430	161	55	11	65	14
13	50	293	e49	e25	e20	e18	1430	147	54	11	51	13
14	66	274	e48	e24	e20	e18	1360	142	120	11	42	11
15	119	e215	e47	e24	e20	e18	1060	133	142	11	38	11
16	127	e190	e46	e24	e20	e19	718	133	111	11	36	11
17	126	e163	e44	e23	e19	e19	581	130	84	11	33	10
18	107	e140	e43	e23	e19	e19	506	116	68	11	30	10
19	94	e123	e42	e23	e19	e19	446	110	62	16	27	9.3
20	83	e105	e41	e23	e19	e21	436	104	56	25	24	8.7
21	76	e90	e40	e23	e19	e32	431	107	52	25	22	8.6
22	72	e75	e40	e22	e19	e73	387	116	48	27	20	15
23	72	e69	e39	e22	e19	e58	381	269	44	32	17	19
24	69	e68	e38	e22	e18	e50	504	390	41	31	15	21
25	67	e67	e37	e22	e18	e44	548	390	38	27	13	22
26	69	e66	e36	e22	e18	e46	505	311	37	21	12	21
27	84	e65	e34	e22	e18	e49	406	285	32	17	12	19
28	97	e64	e33	e22	e18	e55	339	287	30	16	11	17
29	91	e63	e32	e22	---	e62	292	241	28	15	11	17
30	87	e62	e31	e22	---	e75	257	182	26	14	11	17
31	84	---	e30	e22	---	e91	---	138	---	25	11	---
TOTAL	2272	6898	1421	747	553	1002	21092	6187	2266	553	1519	412.9
MEAN	73.3	230	45.8	24.1	19.8	32.3	703	200	75.5	17.8	49.0	13.8
MAX	127	889	61	29	22	91	1960	390	189	32	213	22
MIN	50	62	30	22	18	18	100	104	26	11	11	8.1
AC-FT	4510	13680	2820	1480	1100	1990	41840	12270	4490	1100	3010	819
CFSM	.29	.91	.18	.09	.08	.13	2.77	.79	.30	.07	.19	.05
IN.	.33	1.01	.21	.11	.08	.15	3.09	.91	.33	.08	.22	.06

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	48.8	36.5	16.0	9.95	10.7	77.2	312	141	92.5	83.5	40.1	42.2
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	.050	.002	.000	.19	29.5	10.5	8.20	1.99	1.17	.000
(WY)	1991	1977	1977	1977	1977	1964	1991	1980	1980	1961	1961	1990

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1960 - 2001

ANNUAL TOTAL	26912.5	44922.9	
ANNUAL MEAN	73.5	123	75.9
HIGHEST ANNUAL MEAN			177 1962
LOWEST ANNUAL MEAN			18.2 1990
HIGHEST DAILY MEAN	1120 Jun 21	1960 Apr 8	3040 Apr 11 1969
LOWEST DAILY MEAN	8.7 Sep 19	8.1 Sep 5	.00a Feb 16 1963
ANNUAL SEVEN-DAY MINIMUM	11 Aug 8	9.3 Aug 31	.00 Feb 16 1963
MAXIMUM PEAK FLOW		2040 Apr 8	3210b Apr 11 1969
MAXIMUM PEAK STAGE		14.66 Apr 8	16.91c Apr 8 1997
INSTANTANEOUS LOW FLOW		7.7 Sep 5	
ANNUAL RUNOFF (AC-FT)	53380	89100	55010
ANNUAL RUNOFF (CFSM)	.29	.48	.30
ANNUAL RUNOFF (INCHES)	3.94	6.58	4.06
10 PERCENT EXCEEDS	101	289	177
50 PERCENT EXCEEDS	52	43	20
90 PERCENT EXCEEDS	12	15	2.7

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

