

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 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 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	49	e28	e19	e12	e70	61	59	41	95	14	12
2	91	48	e31	e19	e12	64	60	61	36	87	13	12
3	84	46	e33	e18	e11	61	63	60	32	80	12	13
4	80	46	e29	e18	e11	59	67	59	28	78	12	17
5	78	45	e27	e18	e11	53	68	61	28	78	13	21
6	74	44	e25	e18	e11	59	85	63	25	72	13	27
7	73	43	e24	e18	e11	60	85	61	22	85	13	53
8	73	43	e23	e17	e11	62	82	69	20	140	12	60
9	75	45	e23	e17	e11	46	79	78	21	114	11	53
10	73	45	e23	e17	e11	41	74	74	24	103	10	48
11	70	44	e22	e17	e11	36	69	69	22	88	9.6	42
12	67	43	e22	e16	e11	32	67	71	20	79	10	33
13	65	41	e22	e16	e11	30	66	76	19	70	11	24
14	63	41	e23	e16	e11	29	66	73	22	64	12	18
15	62	44	e24	e15	e11	30	64	68	41	60	35	14
16	61	45	e22	e15	e11	28	65	64	67	53	62	12
17	59	43	e21	e15	e11	28	68	60	69	48	58	11
18	57	41	e20	e14	e11	25	71	57	72	43	54	9.2
19	56	40	e21	e14	e11	30	73	56	72	36	49	8.7
20	55	e39	e21	e14	e11	30	71	58	882	31	43	14
21	56	e40	e20	e14	e11	29	66	58	1120	28	39	30
22	55	e42	e20	e13	e12	33	65	56	1090	28	36	48
23	53	e40	e20	e13	e12	43	64	54	882	24	33	64
24	52	e36	e20	e13	e13	69	64	53	583	19	28	67
25	52	e37	e20	e13	e17	84	64	47	343	18	24	66
26	51	e39	e20	e13	e32	82	63	45	246	27	20	64
27	50	e35	e20	e12	e60	85	64	37	182	29	17	61
28	49	e33	e19	e12	e80	78	64	34	140	24	14	58
29	48	e31	e19	e12	e75	73	61	32	114	20	13	56
30	48	e29	e19	e12	---	68	58	39	100	18	12	55
31	49	---	e19	e12	---	63	---	45	---	16	12	---
TOTAL	1977	1237	700	470	534	1580	2037	1797	6363	1755	714.6	1070.9
MEAN	63.8	41.2	22.6	15.2	18.4	51.0	67.9	58.0	212	56.6	23.1	35.7
MAX	98	49	33	19	80	85	85	78	1120	140	62	67
MIN	48	29	19	12	11	25	58	32	19	16	9.6	8.7
AC-FT	3920	2450	1390	932	1060	3130	4040	3560	12620	3480	1420	2120
CFSM	.25	.16	.09	.06	.07	.20	.27	.23	.84	.22	.09	.14
IN.	.29	.18	.10	.07	.08	.23	.30	.26	.93	.26	.10	.16

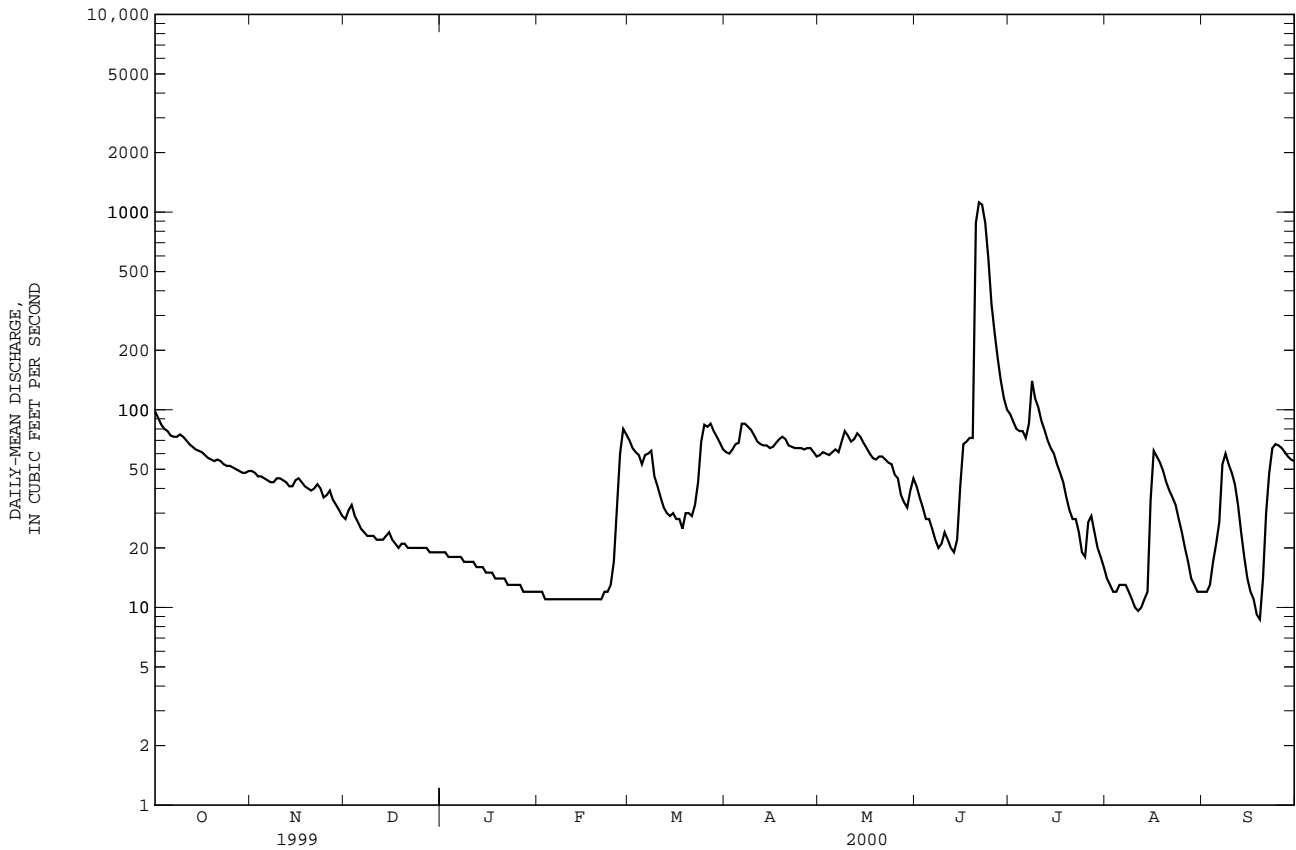
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	48.2	31.6	15.2	9.59	10.4	78.3	303	140	92.9	85.1	39.9	42.9
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	.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

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1960 - 2000	
ANNUAL TOTAL	51937.0		20235.5		74.7	
ANNUAL MEAN	142		55.3		177	
HIGHEST ANNUAL MEAN					18.2	
LOWEST ANNUAL MEAN					1990	
HIGHEST DAILY MEAN	1440	May 13	1120	Jun 21	3040	Apr 11 1969
LOWEST DAILY MEAN	9.4	Jan 10	8.7	Sep 19	.00 ^a	Feb 16 1963
ANNUAL SEVEN-DAY MINIMUM	9.4	Jan 7	11	Aug 8	.00	Feb 16 1963
INSTANTANEOUS PEAK FLOW			1140	Jun 21	3210 ^b	Apr 11 1969
INSTANTANEOUS PEAK STAGE			11.90	Jun 21	16.91 ^c	Apr 8 1997
INSTANTANEOUS LOW FLOW			8.5	Sep 18		
ANNUAL RUNOFF (AC-FT)	103000		40140		54140	
ANNUAL RUNOFF (CFSM)	.56		.22		.29	
ANNUAL RUNOFF (INCHES)	7.61		2.96		4.00	
10 PERCENT EXCEEDS	304		78		172	
50 PERCENT EXCEEDS	67		40		20	
90 PERCENT EXCEEDS	10		12		2.6	

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



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1966, 1979, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
SEP 26...	1645	63	570	8.5	11.8	8.5	11.1