

## RED RIVER OF THE NORTH BASIN--Continued

05074500 RED LAKE RIVER NEAR RED LAKE, MN

LOCATION.--Lat 47°57'27", long 95°16'35", in SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> sec. 28, T.152 N., R.36 W., Clearwater County, Hydrologic Unit 09020302, on Red Lake Indian Reservation, on left bank 50 ft downstream from dam outlet at outlet of Lower Red Lake, and 13 mi northwest of city of Red Lake.

DRAINAGE AREA.--1,950 mi<sup>2</sup> (approximately).

PERIOD OF RECORD.--May 1933 to September 1994 (monthly discharge only for May 1933, published in WSP 1308), October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,100.00 ft above sea level, adjustment of 1912 (levels by U.S. Army Corps of Engineers). Prior to Sept. 7, 1934, nonrecording gage at site 50 ft upstream at datum 69.00 ft higher. Sept. 7, 1934 to Nov. 26, 1951, water-stage recorder at present site at datum 69.00 ft higher. Nov. 27, 1951 to Sept. 30, 1986, water-stage recorder at present site at datum 67.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow completely regulated by outlet dam on Lower Red Lake.

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	888	1320	1910	e1000	e900	e890	1370	1350	735	538	535	495
2	967	1340	1680	e990	e900	e890	1360	1360	723	531	534	491
3	977	1430	1470	e990	e900	e890	1380	1350	714	521	536	492
4	1000	1460	1400	e990	e900	e890	1370	1260	708	515	532	483
5	1060	1470	e1320	e980	e890	e890	1370	1040	705	525	535	466
6	1070	1480	e1270	e980	e890	e890	1360	1000	694	516	549	460
7	1070	1500	e1250	e980	e890	e890	1380	988	698	511	549	437
8	1090	1510	e1230	e980	e890	e890	1350	989	695	320	556	438
9	1080	1590	e1200	e970	e890	e890	1350	975	605	246	551	441
10	1080	1730	e1190	e970	e890	e1000	1360	962	468	198	554	394
11	1070	1740	e1180	e960	e890	e1100	1340	980	450	162	538	409
12	1070	1760	e1170	e960	e890	1200	1340	949	442	155	517	392
13	1060	1770	e1160	e950	e890	1260	1350	934	440	215	518	391
14	1070	1780	e1150	e950	e890	1380	1370	925	466	446	521	390
15	1080	1830	e1140	e950	e890	1390	1370	929	453	487	502	390
16	1090	1920	e1120	e940	e890	1390	1360	920	448	519	503	378
17	1090	1940	e1100	e940	e890	1380	1340	925	431	522	492	377
18	1090	1970	e1090	e940	e890	1390	1340	928	422	527	488	375
19	1110	1970	e1080	e940	e890	1380	1370	888	403	517	492	410
20	1110	1970	e1070	e940	e890	1380	1360	883	404	524	483	487
21	1120	1970	e1060	e930	e890	1390	1350	892	238	522	470	529
22	1130	1960	e1060	e930	e890	1390	1340	888	203	524	470	584
23	1120	1970	e1050	e930	e890	1380	1350	884	181	521	470	616
24	1120	1950	e1050	e920	e890	1420	1340	880	166	521	463	569
25	1140	1960	e1040	e920	e890	1440	1350	879	148	525	461	570
26	1160	1930	e1030	e920	e890	1410	1350	873	279	530	466	572
27	1230	1930	e1020	e920	e890	1400	1360	875	516	530	465	589
28	1250	1930	e1010	e920	e890	1380	1360	864	545	531	451	591
29	1270	1940	e1010	e910	e890	1370	1360	854	550	530	440	597
30	1290	1940	e1000	e910	---	1380	1350	811	545	528	447	608
31	1300	---	e1000	e910	---	1380	---	740	---	530	476	---
TOTAL	34252	52960	36510	29420	25850	37600	40700	29975	14475	14287	15564	14421
MEAN	1105	1765	1178	949	891	1213	1357	967	482	461	502	481
MAX	1300	1970	1910	1000	900	1440	1380	1360	735	538	556	616
MIN	888	1320	1000	910	890	890	1340	740	148	155	440	375
AC-FT	67940	105000	72420	58350	51270	74580	80730	59460	28710	28340	30870	28600
CFSM	.57	.91	.60	.49	.46	.62	.70	.50	.25	.24	.26	.25
IN.	.65	1.01	.70	.56	.49	.72	.78	.57	.28	.27	.30	.28

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	481	477	464	474	468	436	349	490	569	533	469	464
MAX	2071	1765	1498	1418	1342	1396	1357	1624	2025	1840	1464	1712
(WY)	1951	2000	1951	1951	1951	1951	2000	1950	1950	1950	1975	1950
MIN	5.10	3.57	.95	.35	.40	.60	4.00	.60	2.15	4.63	2.73	1.61
(WY)	1934	1934	1934	1934	1934	1936	1936	1933	1933	1934	1936	1934

SUMMARY STATISTICS

FOR 2000 WATER YEAR

WATER YEARS 1933 - 2000

ANNUAL TOTAL	346014	
ANNUAL MEAN	945	476
HIGHEST ANNUAL MEAN		1292
LOWEST ANNUAL MEAN		5.55
HIGHEST DAILY MEAN	1970	Nov 18-21, 23
LOWEST DAILY MEAN	148	Jun 25
ANNUAL SEVEN-DAY MINIMUM	231	Jun 20
INSTANTANEOUS PEAK FLOW	1990	Nov 18
INSTANTANEOUS PEAK STAGE	73.96	Nov 18
ANNUAL RUNOFF (AC-FT)	686300	345200
ANNUAL RUNOFF (CFSM)	.48	.24
ANNUAL RUNOFF (INCHES)	6.60	3.32
10 PERCENT EXCEEDS	1390	1020
50 PERCENT EXCEEDS	922	397
90 PERCENT EXCEEDS	451	35

<sup>a</sup> Many days in 1933, 1934 and 1936.  
<sup>e</sup> Estimated.

