

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 SW¹/₄NW¹/₄ 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 mi² (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 poor. Flow completely regulated by outlet dam on Lower Red Lake.

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	782	782	e830	e710	e730	e710	711	1260	995	435	1120	667
2	861	750	e880	e740	e730	e710	714	1250	996	773	1110	655
3	869	754	e950	e770	e730	e705	713	1250	997	1040	1100	677
4	820	755	e1030	e760	e730	e705	697	1240	991	1130	1100	898
5	802	755	e1100	e760	e730	e705	695	1240	981	1170	1130	965
6	788	745	e900	e760	e740	e705	685	1260	980	1180	1160	1050
7	778	1030	e700	e757	e750	e705	690	1260	971	1220	1140	1050
8	743	1370	e690	e755	755	e700	729	1280	966	1100	1120	1050
9	764	1420	e700	e755	740	e700	861	1280	1020	666	1090	1060
10	768	1460	e710	e755	e740	e700	969	1070	896	e250	1080	1050
11	613	1480	e715	e755	e740	e705	992	1050	433	e150	1090	1040
12	772	1500	e720	e755	e730	e710	1020	1040	366	e150	1070	1020
13	815	1500	e725	e755	726	e710	1050	1040	353	518	1080	1040
14	828	1490	e730	e755	713	e720	1080	1040	475	543	1080	1020
15	824	1480	e735	e755	719	725	1100	1030	772	590	1090	1010
16	820	1480	e740	e755	735	728	1130	1040	802	754	1110	1010
17	e815	1470	e745	e755	723	730	1180	1040	811	801	1110	1020
18	e800	1460	e750	e755	717	740	1180	1040	789	819	1120	1020
19	e780	1440	e760	e755	715	750	1200	1040	796	917	1140	996
20	e770	1440	e760	e755	712	743	1260	1030	810	1060	1150	968
21	e775	1440	e760	e750	713	761	1290	1020	727	1080	1170	903
22	e790	1440	e750	e750	e715	765	1280	1010	425	1080	1180	890
23	806	1440	e745	e745	e715	736	1290	1010	406	1080	1160	915
24	854	1440	e740	e745	e715	709	1290	1000	402	1080	1160	882
25	842	1460	e730	e740	e715	700	1260	992	397	1070	1160	873
26	813	e1450	e720	e740	e710	702	1250	982	395	1070	1170	841
27	799	e1250	e715	e740	e710	702	1260	972	388	1070	1180	870
28	789	e1000	e710	e740	e710	737	1280	967	380	1060	1000	878
29	788	e700	e710	e740	---	751	1280	984	367	1050	554	869
30	790	e810	e710	e735	---	748	1260	1000	364	1080	471	861
31	785	---	e710	e735	---	735	---	1000	---	1140	642	---
TOTAL	24643	36991	23870	23232	20308	22352	31396	33717	20451	27126	33037	28048
MEAN	795	1233	770	749	725	721	1047	1088	682	875	1066	935
MAX	869	1500	1100	770	755	765	1290	1280	1020	1220	1180	1060
MIN	613	700	690	710	710	700	685	967	353	150	471	655
AC-FT	48880	73370	47350	46080	40280	44340	62270	66880	40560	53800	65530	55630
CFSM	0.41	0.63	0.39	0.38	0.37	0.37	0.54	0.56	0.35	0.45	0.55	0.48
IN.	0.47	0.71	0.46	0.44	0.39	0.43	0.60	0.64	0.39	0.52	0.63	0.54

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	487	492	477	484	478	447	364	505	576	546	484	478
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	0.95	0.35	0.40	0.60	4.00	0.60	2.15	4.63	2.73	1.61
(WY)	1934	1934	1934	1934	1934	1936	1936	1933	1933	1934	1936	1934

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1933 - 2002
ANNUAL TOTAL	318517	325171	
ANNUAL MEAN	873	891	488
HIGHEST ANNUAL MEAN			1292
LOWEST ANNUAL MEAN			5.55
HIGHEST DAILY MEAN	1500	Nov 12	1500
LOWEST DAILY MEAN	142	Apr 11	150
ANNUAL SEVEN-DAY MINIMUM	174	Apr 11	385
MAXIMUM PEAK FLOW			1500b
MAXIMUM PEAK STAGE			74.20c
ANNUAL RUNOFF (AC-FT)	631800	645000	353800
ANNUAL RUNOFF (CFSM)	0.45	0.46	0.25
ANNUAL RUNOFF (INCHES)	6.08	6.20	3.40
10 PERCENT EXCEEDS	1140	1250	1020
50 PERCENT EXCEEDS	855	802	429
90 PERCENT EXCEEDS	682	700	41

- a Many days in 1933, 1934 and 1936.
- b Gage-height, 73.53 ft.
- c Backwater from ice.
- e Estimated.

