

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	592	e770	e925	e850	e850	984	736	1070	1050	779	913
2	600	582	e890	e925	e850	e840	979	740	973	1050	599	916
3	562	551	e905	e920	e850	e830	967	726	562	1090	533	911
4	545	595	e920	e915	e855	e830	960	729	646	1140	498	895
5	561	605	e950	e905	e850	e830	970	728	965	1140	480	886
6	541	643	e960	e905	e840	e820	975	735	1000	1140	610	875
7	545	715	e940	e900	e835	e820	1050	755	1010	1140	894	929
8	524	682	e930	e895	e835	e820	1110	768	1020	1140	875	941
9	520	679	e925	e895	e855	e820	842	755	1010	1140	784	929
10	532	675	e940	e885	e840	e820	168	810	1010	1140	735	923
11	536	683	e940	e875	e840	e820	142	899	1010	1140	907	906
12	533	732	e950	e870	e850	824	183	909	1010	1140	956	908
13	536	734	e960	e860	e850	830	173	917	860	1140	961	893
14	594	665	e945	e850	e850	821	188	916	575	1150	960	884
15	601	621	e940	e850	e850	812	196	931	566	1160	970	869
16	587	637	e940	e860	e850	807	180	950	541	1180	877	861
17	580	e625	e955	e875	e850	804	153	959	511	1200	910	856
18	581	e655	e945	e870	e860	802	305	951	503	1210	961	855
19	579	e700	e950	e875	e855	802	555	950	691	1070	965	852
20	566	e750	e940	e870	e855	802	584	957	960	696	925	851
21	581	e820	e945	e870	e860	798	592	977	1040	587	933	851
22	566	e860	e955	e870	e855	794	566	1010	1070	546	918	857
23	560	e870	e950	e860	e855	806	581	1060	1070	529	857	883
24	557	e850	e965	e855	e855	e800	644	908	1070	692	887	867
25	568	e810	e960	e855	e855	e790	755	572	1070	1040	926	849
26	588	e740	e950	e855	e855	780	774	514	1070	1110	938	844
27	640	e700	e940	e860	e860	769	744	500	1070	1150	898	840
28	592	e650	e935	e850	e850	857	725	502	1060	1190	912	833
29	571	e650	e930	e850	---	978	727	671	1060	1190	926	823
30	559	e640	e930	e840	---	972	738	996	1060	1190	929	818
31	548	---	e925	e840	---	1000	---	1030	---	1080	935	---
TOTAL	17557	20711	28980	27130	23815	25748	18510	25561	27133	32560	26238	26318
MEAN	566	690	935	875	851	831	617	825	904	1050	846	877
MAX	640	870	965	925	860	1000	1110	1060	1070	1210	970	941
MIN	520	551	770	840	835	769	142	500	503	529	480	818
AC-FT	34820	41080	57480	53810	47240	51070	36710	50700	53820	64580	52040	52200
CFSM	.29	.35	.48	.45	.44	.43	.32	.42	.46	.54	.43	.45
IN.	.33	.40	.55	.52	.45	.49	.35	.49	.52	.62	.50	.50

05074500 RED LAKE RIVER NEAR RED LAKE, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	482	480	472	480	474	442	353	496	575	541	475	471
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 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1933 - 2001
ANNUAL TOTAL	289540	300261	
ANNUAL MEAN	791	823	482
HIGHEST ANNUAL MEAN			1292
LOWEST ANNUAL MEAN			5.55
HIGHEST DAILY MEAN	1440	Mar 25	2240
LOWEST DAILY MEAN	148	Jun 25	.00a
ANNUAL SEVEN-DAY MINIMUM	231	Jun 20	.00
MAXIMUM PEAK FLOW			3600
MAXIMUM PEAK STAGE			78.19
ANNUAL RUNOFF (AC-FT)	574300	595600	349100
ANNUAL RUNOFF (CFSM)	.41	.42	.25
ANNUAL RUNOFF (INCHES)	5.52	5.73	3.36
10 PERCENT EXCEEDS	1350	1050	1020
50 PERCENT EXCEEDS	835	855	405
90 PERCENT EXCEEDS	451	562	36

- a Many days in 1933, 1934 and 1936.
- b Gage-height, 73.15 ft.
- c Backwater from ice.
- e Estimated.

