

## 05074500 RED LAKE RIVER NEAR RED LAKE, MN

LOCATION.--Lat 47°57'27", long 95°16'35", in SW $\frac{1}{4}$ NW $\frac{1}{4}$  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 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 poor. Flow completely regulated by outlet dam on Lower Red Lake.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	51	e64	e72	e78	e80	90	108	159	130	148	129
2	73	51	e66	e73	e77	e80	95	108	148	126	153	126
3	73	59	e66	e74	e77	e80	97	107	149	122	152	126
4	74	72	e66	e74	e78	e81	92	112	150	126	147	127
5	74	57	e66	e74	e78	e82	93	112	154	128	141	133
6	73	50	e67	e74	e78	e82	95	114	155	129	134	135
7	73	53	e67	e75	e78	e83	100	111	163	124	139	128
8	72	66	e66	e76	e78	e84	103	111	154	123	143	135
9	71	68	e66	e76	e78	e84	99	114	158	125	142	135
10	69	67	e66	e76	e79	e84	98	116	153	126	141	135
11	66	64	e67	e76	e79	e82	96	135	152	135	141	133
12	64	64	e68	e76	e79	e84	99	153	141	137	142	134
13	66	70	e68	e77	e78	e84	99	128	139	134	141	129
14	65	66	e69	e77	e78	e82	96	127	141	139	141	128
15	62	65	e69	e77	e79	e84	95	127	141	142	136	145
16	59	63	e69	e76	e79	e85	99	126	137	148	139	133
17	61	61	e69	e75	e78	e85	98	133	139	150	139	131
18	60	55	e69	e75	e78	e85	98	133	135	148	129	133
19	61	54	e68	e76	e78	e86	101	134	132	155	115	132
20	61	54	e69	e76	e79	e85	101	140	122	157	120	127
21	59	e56	e69	e75	e80	e85	105	140	125	153	120	131
22	60	e58	e69	e74	e80	e85	103	138	121	150	121	140
23	59	e60	e69	e75	e80	e86	107	144	122	147	125	143
24	57	e63	e70	e76	e80	e86	106	136	118	146	121	143
25	54	e65	e72	e76	e80	e86	111	137	115	142	121	138
26	54	e66	e71	e76	e80	e86	109	135	119	148	126	141
27	55	e66	e71	e76	e81	e87	106	141	123	146	118	147
28	59	e65	e71	e76	e79	e87	110	138	124	146	122	141
29	59	e65	e70	e76	e80	e87	112	140	126	137	122	216
30	58	e65	e71	e77	---	e88	109	149	127	142	119	378
31	55	---	e71	e78	---	89	---	152	---	145	129	---
TOTAL	1,982	1,839	2,119	2,340	2,284	2,614	3,022	3,999	4,142	4,306	4,127	4,352
MEAN	63.9	61.3	68.4	75.5	78.8	84.3	101	129	138	139	133	145
MAX	76	72	72	78	81	89	112	153	163	157	153	378
MIN	54	50	64	72	77	80	90	107	115	122	115	126
AC-FT	3,930	3,650	4,200	4,640	4,530	5,180	5,990	7,930	8,220	8,540	8,190	8,630
CFSM	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.07
IN.	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.08	0.08	0.08	0.08	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

MEAN	485	486	469	473	467	436	356	493	562	534	473	467
MAX	2,071	1,765	1,498	1,418	1,342	1,396	1,357	1,624	2,025	1,840	1,464	1,712
(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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	33,658		37,126			
ANNUAL MEAN	92.2		101		478	
HIGHEST ANNUAL MEAN					1,292	1951
LOWEST ANNUAL MEAN					5.55	1936
HIGHEST DAILY MEAN	215	Jan 1	378	Sep 30	2,240	Oct 6, 1950
LOWEST DAILY MEAN	34	Aug 15	50	Nov 6	a0.00	Sep 19, 1933
ANNUAL SEVEN-DAY MINIMUM	47	Aug 12	55	Oct 27	0.00	Sep 1, 1934
MAXIMUM PEAK FLOW			b393	Sep 30	3,600	Jun 25, 1950
MAXIMUM PEAK STAGE			b71.29	Sep 30	78.19	Jun 25, 1950
ANNUAL RUNOFF (AC-FT)	66,760		73,640		346,500	
ANNUAL RUNOFF (CFSM)	0.047		0.052		0.245	
ANNUAL RUNOFF (INCHES)	0.64		0.71		3.33	
10 PERCENT EXCEEDS	143		143		1,020	
50 PERCENT EXCEEDS	86		90		400	
90 PERCENT EXCEEDS	62		65		43	

a Many days in 1933, 1934 and 1936.  
 b Rising stage.  
 c Estimated.

