

**05083500 RED RIVER OF THE NORTH AT OSLO, MN**

Lower Red Basin  
Grand Marais-Red Subbasin

LOCATION.--Lat 48°11'38", long 97°08'25" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.36, T.154 N., R.50 W., Marshall County, MN, Hydrologic Unit 09020306, on bridge crossing the Red River of the North, 0.5 mi west of Oslo, and at mile 271.2.

DRAINAGE AREA.--31,200 mi<sup>2</sup> of which 3,800 mi<sup>2</sup> probably is noncontributing.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--1936-37, 1941-47 (high-water periods only), April 1948 to September 1960 (spring and summer months only), October 1973 to September 1976, October 1984 to September 2001 (peak gage height and discharge only), April 2002 to current year (gage height and maximum discharge only).

GAGE.--Water stage recorder. Datum of gage is 772.79 ft above National Geodetic Vertical Datum of 1929. Prior to September 1959 at datum 5.00 ft higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft<sup>3</sup>/s, April 23, 1997, gage height, 38.00 ft (observed); maximum gage height, 38.37 ft, April 1, 2009.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,600 ft<sup>3</sup>/s, gage height, 38.37 ft, April 1; minimum gage height, 5.83 ft, October 1.

**DISCHARGE MEASUREMENTS**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>	<b>Gage height, in ft</b>
Apr 3, 2009	80,200	38.17

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**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.97	16.80	11.60	9.68	8.94	10.13	38.20	35.16	19.82	28.76	8.45	8.18
2	6.49	16.02	12.51	9.81	8.96	10.10	38.16	35.02	19.28	27.62	8.30	7.86
3	6.77	14.87	13.36	9.86	8.94	10.06	38.16	34.86	18.67	25.96	8.09	7.53
4	6.60	13.82	13.47	9.81	8.92	9.99	38.17	34.66	17.96	24.12	7.87	7.29
5	6.25	13.06	13.30	9.72	8.92	9.92	38.03	34.38	17.22	22.12	7.69	7.06
6	6.18	13.13	13.14	9.63	8.87	9.93	37.88	33.99	16.52	19.96	7.57	6.88
7	6.33	13.85	13.03	9.52	8.78	9.97	37.76	33.50	15.86	17.61	7.48	6.76
8	6.13	15.01	12.78	9.39	8.72	10.01	37.66	32.95	15.19	15.45	7.46	6.72
9	6.29	17.46	12.54	9.23	8.70	10.06	37.60	32.32	14.64	13.80	7.44	6.91
10	7.29	19.79	12.43	9.07	8.84	10.16	37.58	31.59	14.23	12.51	7.40	6.98
11	8.31	20.81	12.34	8.89	8.99	10.24	37.56	30.80	---	11.62	7.47	7.01
12	9.25	20.79	12.17	8.77	9.02	10.23	37.52	30.03	---	11.00	7.61	7.12
13	11.31	20.03	11.99	8.70	9.18	10.17	37.48	29.28	---	10.54	7.57	7.23
14	16.21	18.95	11.84	8.66	9.50	10.16	37.44	28.52	---	10.14	7.46	7.55
15	21.04	17.92	11.92	8.67	9.71	10.27	37.37	27.82	---	9.92	7.59	7.73
16	23.57	17.07	11.82	8.74	9.73	10.59	37.31	27.25	---	9.62	7.62	7.60
17	24.77	16.26	11.61	8.80	9.70	11.35	37.25	26.74	12.78	9.38	7.95	7.40
18	25.33	15.32	11.37	8.85	9.71	12.68	37.17	26.24	12.45	9.38	9.28	7.27
19	25.53	14.34	11.09	8.84	9.86	14.89	37.10	25.74	12.31	10.41	10.72	7.17
20	25.45	13.61	10.84	8.81	10.16	18.30	37.00	25.09	13.22	11.92	10.92	7.01
21	25.08	12.74	10.57	8.79	10.44	21.81	36.89	24.37	15.12	12.82	10.97	6.85
22	24.29	11.29	10.34	8.83	10.57	24.95	36.74	23.54	16.94	12.85	11.43	6.74
23	22.81	10.66	10.19	8.90	10.60	28.32	36.58	22.61	18.44	12.16	11.59	6.71
24	20.53	10.51	10.13	8.98	10.53	31.90	36.43	21.61	19.69	11.10	11.38	6.69
25	17.92	10.92	10.09	9.01	10.44	35.10	36.25	20.63	20.69	10.28	10.95	6.85
26	15.92	11.07	9.97	9.04	10.36	37.01	36.07	19.98	21.43	9.94	10.43	6.99
27	15.09	10.73	9.82	9.05	10.28	37.78	35.89	19.71	23.33	9.85	9.91	6.88
28	15.24	10.88	9.62	9.04	10.20	38.02	35.69	20.27	26.14	9.60	9.43	6.67
29	15.91	11.40	9.47	9.01	---	38.14	35.49	20.65	28.17	9.27	9.07	6.51
30	16.62	11.71	9.41	8.99	---	38.14	35.34	20.63	29.05	8.93	8.76	6.38
31	16.97	---	9.51	8.95	---	38.18	---	20.30	---	8.64	8.47	---
<b>Mean</b>	14.89	14.69	11.43	9.10	9.56	18.99	37.13	27.43	---	13.78	8.85	7.08
<b>Max</b>	25.53	20.81	13.47	9.86	10.60	38.18	38.20	35.16	---	28.76	11.59	8.18
<b>Min</b>	5.97	10.51	9.41	8.66	8.70	9.92	35.34	19.71	---	8.64	7.40	6.38

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