

STREAMS TRIBUTARY TO LAKE SUPERIOR

04010520 HOLLOW ROCK CREEK NEAR RED ROCK, MN

LOCATION.--Lat 47°55'07", long 89°44'46", in SW¹/₄SE¹/₄ sec. 24, T.63 N., R.5 E., Cook County, Hydrologic Unit 04010101, on Grand Portage Indian Band property, on left bank, 800 ft upstream from U.S. Highway 61, 0.4 miles west of Red Rock, and 4.4 mi southwest of Grand Portage.

DRAINAGE AREA.--

PERIOD OF RECORD.--May 2003 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 670 ft above sea level (from topographic map).

REMARKS.--Records good.

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	0.44	5.7	---	---	---	---	---	17	90	1.2	0.23	0.29
2	0.36	3.6	---	---	---	---	---	15	39	0.91	0.22	0.26
3	0.36	2.5	---	---	---	---	---	13	24	0.79	0.20	0.26
4	0.39	1.8	---	---	---	---	---	12	18	1.8	0.19	0.23
5	0.33	1.6	---	---	---	---	---	11	15	3.5	0.18	0.22
6	0.30	1.7	---	---	---	---	25	10	14	1.9	0.17	2.0
7	0.27	1.2	---	---	---	---	41	8.7	34	1.6	0.17	0.89
8	0.25	0.91	---	---	---	---	88	8.1	31	1.3	0.17	0.46
9	0.24	1.2	---	---	---	---	57	7.6	17	0.89	0.23	0.34
10	0.21	0.95	---	---	---	---	33	7.2	13	0.71	0.35	0.28
11	0.34	1.4	---	---	---	---	27	6.2	9.6	1.1	0.76	0.26
12	3.2	1.9	---	---	---	---	23	5.8	10	1.5	0.63	0.25
13	1.9	1.8	---	---	---	---	25	6.2	9.0	1.0	0.37	0.23
14	1.4	1.5	---	---	---	---	29	6.2	7.6	0.84	0.30	0.25
15	0.99	1.3	---	---	---	---	30	5.2	5.8	0.62	0.26	25
16	0.72	1.4	---	---	---	---	44	5.1	5.0	0.86	0.23	31
17	0.56	2.5	---	---	---	---	60	25	4.3	0.71	0.23	9.6
18	0.53	11	---	---	---	---	70	21	3.5	0.53	0.24	4.5
19	0.48	8.4	---	---	---	---	101	14	2.7	1.2	0.24	2.4
20	0.46	5.3	---	---	---	---	64	11	2.3	2.1	0.26	1.4
21	0.41	3.8	---	---	---	---	49	8.5	2.1	1.3	0.22	1.5
22	0.34	4.0	---	---	---	---	39	9.2	2.2	0.85	0.23	2.5
23	0.38	---	---	---	---	---	31	12	1.9	0.55	0.22	1.5
24	0.58	---	---	---	---	---	28	8.6	1.8	0.42	0.22	1.2
25	1.7	---	---	---	---	---	27	9.4	2.0	0.34	0.23	1.0
26	1.4	---	---	---	---	---	25	9.0	1.7	0.29	0.23	0.68
27	1.1	---	---	---	---	---	21	12	1.4	0.24	0.23	0.53
28	2.4	---	---	---	---	---	19	9.1	1.3	0.22	0.21	0.44
29	3.7	---	---	---	---	---	22	6.9	2.2	0.25	0.19	0.44
30	4.2	---	---	---	---	---	19	7.3	1.6	0.25	0.55	0.39
31	10	---	---	---	---	---	---	139	---	0.24	0.44	---
TOTAL	39.94	---	---	---	---	---	---	446.3	373.0	30.01	8.60	90.30
MEAN	1.29	---	---	---	---	---	---	14.4	12.4	0.97	0.28	3.01
MAX	10	---	---	---	---	---	139	90	3.5	0.76	31	---
MIN	0.21	---	---	---	---	---	5.1	1.3	0.22	0.17	0.22	---
AC-FT	79	---	---	---	---	---	---	885	740	60	17	179

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	1.29	---	---	---	---	---	---	14.4	7.83	1.10	0.36	1.66
MAX	1.29	---	---	---	---	---	---	14.4	12.4	1.23	0.44	3.01
(WY)	(2004)	---	---	---	---	---	---	(2004)	(2004)	(2003)	(2003)	(2004)
MIN	1.29	---	---	---	---	---	---	14.4	3.22	0.97	0.28	0.31
(WY)	(2004)	---	---	---	---	---	---	(2004)	(2003)	(2004)	(2004)	(2003)

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SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

HIGHEST DAILY MEAN	139	May 31	139	May 31, 2004
LOWEST DAILY MEAN	0.17	Aug 6-8	0.01	Aug 19, 2003
ANNUAL SEVEN-DAY MINIMUM	0.19	Aug 2	0.03	Aug 13, 2003
MAXIMUM PEAK FLOW	335	May 31	335	May 31, 2004
MAXIMUM PEAK STAGE	6.28	May 31	6.28	May 31, 2004
INSTANTANEOUS LOW FLOW	0.17	Aug 6	0.01	Aug 18, 2003

