

## STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued

475647089443301 CUFFS LAKE, EAST SIDE, NEAR GRAND PORTAGE, MN

LOCATION.--Lat 47°56'47", long 89°44'33", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 13, T.63N., R5E., Cook County. Hydrologic Unit 04010101, on east side of Cuffs Lake, 1.5 mi northwest of Lake Superior, 1.8 mi east of Mineral Center, and 3.0 mi southwest of Grand Portage.

PERIOD OF RECORD.-- June 1998 to current year (no winter records).

GAGE.-- Water-stage recorder. Elevation of gage is 1140 ft above sea level (from topographic map).

REMARKS.-- Records good.

EXTREMES° FOR PERIOD OF RECORD.--Maximum-recorded gage height, 13.71 ft, Sept. 13,14, 1999; maximum-recorded daily, 13.70 ft, Sept. 8,9,13,14, 1999; minimum-recorded gage height, 10.85 ft, Sept. 13, 1998; minimum-recorded daily, 10.87 ft, Sept. 13, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum-recorded gage height, 12.96 ft, Nov. 15; maximum-recorded daily, 12.95 ft, Nov. 14-17; minimum observed gage height, 11.27 ft, Mar. 28; minimum-recorded daily, --.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

| DAY  | OCT   | NOV   | DEC | JAN | FEB | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|
| 1    | 12.28 | 12.33 | --- | --- | --- | ---   | ---   | 11.95 | 12.81 | 12.68 | 12.65 | 12.65 |
| 2    | 12.28 | 12.47 | --- | --- | --- | ---   | ---   | 11.97 | 12.85 | 12.67 | 12.67 | 12.66 |
| 3    | 12.26 | 12.47 | --- | --- | --- | ---   | ---   | 11.99 | 12.85 | 12.68 | 12.66 | 12.64 |
| 4    | 12.25 | 12.47 | --- | --- | --- | ---   | ---   | 12.01 | 12.84 | 12.67 | 12.65 | 12.63 |
| 5    | 12.24 | 12.48 | --- | --- | --- | ---   | ---   | 12.02 | 12.83 | 12.66 | 12.63 | 12.62 |
| 6    | 12.23 | 12.50 | --- | --- | --- | ---   | ---   | 12.05 | 12.82 | 12.65 | 12.62 | 12.62 |
| 7    | 12.22 | 12.69 | --- | --- | --- | ---   | ---   | 12.10 | 12.80 | 12.67 | 12.59 | 12.65 |
| 8    | 12.21 | 12.80 | --- | --- | --- | ---   | ---   | 12.12 | 12.79 | 12.65 | 12.61 | 12.67 |
| 9    | 12.21 | 12.85 | --- | --- | --- | ---   | ---   | 12.13 | 12.78 | 12.64 | 12.66 | 12.67 |
| 10   | 12.21 | 12.87 | --- | --- | --- | ---   | ---   | 12.15 | 12.77 | 12.62 | 12.63 | 12.66 |
| 11   | 12.20 | 12.89 | --- | --- | --- | ---   | 12.39 | 12.15 | 12.76 | 12.60 | 12.62 | 12.66 |
| 12   | 12.20 | 12.91 | --- | --- | --- | ---   | 12.60 | 12.15 | 12.71 | 12.58 | 12.61 | 12.65 |
| 13   | 12.20 | 12.94 | --- | --- | --- | ---   | 12.60 | 12.15 | 12.73 | 12.56 | 12.59 | 12.64 |
| 14   | 12.25 | 12.95 | --- | --- | --- | ---   | 12.48 | 12.16 | 12.80 | 12.55 | 12.59 | 12.62 |
| 15   | 12.29 | 12.95 | --- | --- | --- | ---   | 12.36 | 12.18 | 12.80 | 12.60 | 12.67 | 12.62 |
| 16   | 12.29 | 12.95 | --- | --- | --- | ---   | 12.19 | 12.21 | 12.79 | 12.64 | 12.71 | 12.61 |
| 17   | 12.29 | 12.95 | --- | --- | --- | ---   | 12.02 | 12.21 | 12.79 | 12.64 | 12.74 | 12.61 |
| 18   | 12.28 | ---   | --- | --- | --- | ---   | 11.90 | 12.21 | 12.78 | 12.63 | 12.76 | 12.60 |
| 19   | 12.28 | ---   | --- | --- | --- | ---   | 11.87 | 12.21 | 12.85 | 12.63 | 12.75 | 12.60 |
| 20   | 12.27 | ---   | --- | --- | --- | ---   | 11.90 | 12.20 | 12.84 | 12.62 | 12.73 | 12.59 |
| 21   | 12.26 | ---   | --- | --- | --- | ---   | 12.02 | 12.27 | 12.84 | 12.61 | 12.72 | 12.58 |
| 22   | 12.26 | ---   | --- | --- | --- | ---   | 12.20 | 12.41 | 12.84 | 12.60 | 12.71 | 12.57 |
| 23   | 12.26 | ---   | --- | --- | --- | ---   | 12.51 | 12.46 | 12.82 | 12.59 | 12.70 | 12.57 |
| 24   | 12.26 | ---   | --- | --- | --- | ---   | 12.52 | 12.48 | 12.81 | 12.57 | 12.68 | 12.56 |
| 25   | 12.28 | ---   | --- | --- | --- | ---   | 12.37 | 12.54 | 12.80 | 12.56 | 12.68 | 12.55 |
| 26   | 12.32 | ---   | --- | --- | --- | ---   | 12.26 | 12.67 | 12.78 | 12.53 | 12.67 | 12.54 |
| 27   | 12.32 | ---   | --- | --- | --- | ---   | 12.16 | 12.74 | 12.76 | 12.52 | 12.66 | 12.53 |
| 28   | 12.31 | ---   | --- | --- | --- | 11.27 | 12.03 | 12.77 | 12.75 | 12.52 | 12.65 | 12.53 |
| 29   | 12.31 | ---   | --- | --- | --- | ---   | 11.95 | 12.80 | 12.73 | 12.52 | 12.64 | 12.52 |
| 30   | 12.30 | ---   | --- | --- | --- | ---   | 11.93 | 12.80 | 12.71 | 12.52 | 12.67 | 12.52 |
| 31   | 12.31 | ---   | --- | --- | --- | ---   | ---   | 12.80 | ---   | 12.53 | 12.66 | ---   |
| MEAN | 12.26 | ---   | --- | --- | --- | ---   | ---   | 12.29 | 12.79 | 12.60 | 12.66 | 12.60 |
| MAX  | 12.32 | ---   | --- | --- | --- | ---   | ---   | 12.80 | 12.85 | 12.68 | 12.76 | 12.67 |
| MIN  | 12.20 | ---   | --- | --- | --- | ---   | ---   | 11.95 | 12.71 | 12.52 | 12.59 | 12.52 |

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