

Water-Data Report 2009

**04035500 MIDDLE BRANCH ONTONAGON RIVER NEAR ROCKLAND, MI**

Southcentral Lake Superior Basin  
Ontonagon Subbasin

LOCATION.--Lat 46°41'57", long 89°09'36" referenced to North American Datum of 1927, in SE ¼ sec.27, T.50 N., R.39 W., Ontonagon County, MI, Hydrologic Unit 04020102, on left bank 10 ft upstream from bridge on U.S. Highway 45, 700 ft downstream from East Branch, and 2.8 mi southeast of Rockland.

DRAINAGE AREA.--671 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1942 to December 2008 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 661.1 ft above sea level. Prior to Apr. 1, 1959, nonrecording gage at site 400 ft upstream at same datum. Apr. 1, 1959, to Oct. 21, 1968, nonrecording gage at present site and datum.

REMARKS.--Records fair. Regulation by Bond Falls Reservoir 30.0 mi upstream. Diversion to South Branch Ontonagon River by Bond Falls Canal (station 04033500) 31.0 mi upstream. Gage-height telemeter at station.

## 04035500 MIDDLE BRANCH ONTONAGON RIVER NEAR ROCKLAND, MI—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	263	256	e257	---	---	---	---	---	---	---	---	---
2	282	248	e257	---	---	---	---	---	---	---	---	---
3	286	244	e257	---	---	---	---	---	---	---	---	---
4	260	240	e257	---	---	---	---	---	---	---	---	---
5	232	245	e252	---	---	---	---	---	---	---	---	---
6	219	255	e246	---	---	---	---	---	---	---	---	---
7	217	257	e246	---	---	---	---	---	---	---	---	---
8	246	272	e246	---	---	---	---	---	---	---	---	---
9	259	313	e246	---	---	---	---	---	---	---	---	---
10	244	322	e246	---	---	---	---	---	---	---	---	---
11	229	305	e246	---	---	---	---	---	---	---	---	---
12	222	304	e246	---	---	---	---	---	---	---	---	---
13	218	446	e246	---	---	---	---	---	---	---	---	---
14	217	575	e257	---	---	---	---	---	---	---	---	---
15	221	490	e288	---	---	---	---	---	---	---	---	---
16	213	409	e294	---	---	---	---	---	---	---	---	---
17	212	353	e267	---	---	---	---	---	---	---	---	---
18	208	312	e246	---	---	---	---	---	---	---	---	---
19	207	297	e236	---	---	---	---	---	---	---	---	---
20	219	289	e236	---	---	---	---	---	---	---	---	---
21	225	276	e236	---	---	---	---	---	---	---	---	---
22	221	e262	e241	---	---	---	---	---	---	---	---	---
23	217	e257	e241	---	---	---	---	---	---	---	---	---
24	223	e257	e241	---	---	---	---	---	---	---	---	---
25	262	e257	e241	---	---	---	---	---	---	---	---	---
26	304	e246	e241	---	---	---	---	---	---	---	---	---
27	347	e246	e252	---	---	---	---	---	---	---	---	---
28	344	e246	e267	---	---	---	---	---	---	---	---	---
29	313	e246	e278	---	---	---	---	---	---	---	---	---
30	287	e246	e278	---	---	---	---	---	---	---	---	---
31	269	---	e273	---	---	---	---	---	---	---	---	---
<b>Total</b>	7,686	8,971	7,861	---	---	---	---	---	---	---	---	---
<b>Mean</b>	248	299	254	---	---	---	---	---	---	---	---	---
<b>Max</b>	347	575	294	---	---	---	---	---	---	---	---	---
<b>Min</b>	207	240	236	---	---	---	---	---	---	---	---	---

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	437	446	320	263	271	594	1,570	769	521	348	316	337
<b>Max</b>	1,068	1,145	618	378	634	1,652	3,078	1,974	1,396	1,181	1,091	1,224
<b>(WY)</b>	(2003)	(1989)	(1983)	(1946)	(1984)	(1973)	(2002)	(1996)	(1944)	(1949)	(1953)	(1942)
<b>Min</b>	191	214	190	193	161	143	385	222	189	154	145	175
<b>(WY)</b>	(1949)	(1949)	(2001)	(1995)	(2008)	(2008)	(1987)	(2000)	(1992)	(2007)	(2007)	(1948)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Years 1942 - 2009	
<b>Annual total</b>	141,139			
<b>Annual mean</b>	386		514	
<b>Highest annual mean</b>			756	1943
<b>Lowest annual mean</b>			331	1987
<b>Highest daily mean</b>	5,750	Apr 17	16,300	Aug 22, 1942
<b>Lowest daily mean</b>	139	Mar 6	122	Aug 4, 2007
<b>Annual seven-day minimum</b>	139	Mar 6	126	Jul 31, 2007
<b>Maximum peak flow</b>			<sup>a</sup> 27,000	Aug 22, 1942
<b>Maximum peak stage</b>			<sup>b</sup> 21.20	Aug 22, 1942
<b>Instantaneous low flow</b>			<sup>c</sup> 110	Dec 2, 2000 <sup>d</sup>
<b>10 percent exceeds</b>	547		1,000	
<b>50 percent exceeds</b>	241		288	
<b>90 percent exceeds</b>	154		205	

<sup>a</sup> From rating curve extended above 7,500 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

<sup>b</sup> From floodmark.

<sup>c</sup> Result of freezeup.

<sup>d</sup> Also occurred Dec. 3, 2000.

