

<b>NWS FORM E-5</b> U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE  <b>MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS</b>  TO: NATIONAL WEATHER SERVICE (W/OH12x1) HYDROMETEOROLOGICAL INFO CENTER 1325 EAST-WEST HIGHWAY, RM 7116 SILVER SPRING, MD 20910	HSA OFFICE: <b>Marquette, MI</b>
	REPORT FOR (MONTH / YEAR): <b>January 2011</b>
	DATE: <b>February 9, 2011</b>
	SIGNATURE: <b>Robin J. Turner, MIC</b> <b>Justin Titus, Meteorologist</b>
When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).	



An X inside this box indicates no flooding occurred within this Hydrologic Service Area.

**January Flooding**

No reports of flooding were received by the National Weather Service (NWS).

**January Precipitation**

With few storm systems moving through the area most precipitation was from lake effect snow, leaving inland locations with generally below normal liquid equivalent precipitation. The most lake effect snow fell in north and west wind snow belts, where precipitation was above normal, leaving locations favored by northeast winds with below normal liquid equivalent precipitation. Snowfall was generally near or above normal for most locations, in spite of the below normal liquid equivalent precipitation in some locations, due to much of the snow having high snow to liquid ratios.

Below is a chart of some of the larger cities in the Upper Peninsula, with monthly precipitation in inches and the amount of inches above or below normal for the month.

Location	Precipitation	Above/Below	Rank	Snowfall	Above/Below	Rank
WFO Marquette	1.66	-0.95		47.4	4.9	
Marquette City	1.46	-0.33		26.6	0.5	
Houghton Airport	3.59	0.47		66.0	16.8	
Ironwood	2.29	0.39	7 <sup>th</sup>	60.3	28.1	7 <sup>th</sup>
Iron Mountain	0.56	-0.61		9.2	-3.9	
Manistique	0.83	-0.49		15.5	-1.6	
Munising	2.85	0.09		48.8	12.7	
Newberry	1.20	-0.64		28.5	4.1	
Ontonagon	2.53	-0.25		50.0	-3.6	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)	Snowfall (inches)
Ahmeek (Keweenaw County)	M	M
Amasa (Iron County)	0.87	20.0
Atlantic Mine (Houghton County)	2.83	80.0
Baraga (Baraga County)	1.06	23.1
Bark River (Delta County)	M	M
Bergland Dam (Ontonagon County)	3.78	61.1
Big Bay (Marquette County)	2.19	40.7
Chatham (Alger County)	1.73	42.5
Clarksburg (Marquette County)	1.57	33.3
Cooks (Schoolcraft County)	1.24	20.2
Copper Harbor (Keweenaw County)	2.36	36.7
Cornell (Delta County)	M	M
Daggett (Menominee County)	M	M
Garden Corners (Delta County)	0.90	12.1
Gladstone (Delta County)	1.03	13.8
Greenland (Ontonagon County)	2.94	60.8
Gwinn (Marquette County)	1.15	24.2
Harvey (Marquette County)	1.65	24.9
Herman (Baraga County)	2.24	74.9
Ishpeming (Marquette County)	1.09	M
Jacobsville (Houghton County)	1.29	21.8
Laurium (Houghton County)	3.59	66.0
Marquette West (Marquette County)	1.42	27.2
Mohawk (Keweenaw County)	3.49	77.6
Menominee (Menominee County)	0.83	19.0
Norway (Dickinson County)	0.44	9.6
Painesdale (Houghton County)	2.34	77.5
Rapid River (Delta County)	M	M
Stambaugh (Iron County)	0.71	14.0
Twin Lakes (Houghton County)	3.00	80.9
Two Heart (Luce County)	1.12	31.5
Watersmeet (Gogebic County)	1.37	21.8
Watton (Baraga County)	1.17	30.2
Wetmore (Alger County)	1.26	17.4

### **Drought Discussion**

Upper Michigan remained drought free during the month of January.

For the latest drought status, please go to <http://www.drought.unl.edu/dm/monitor.html>.

## **January Temperatures**

Below is a table of some of the larger cities in the Upper Peninsula, with average monthly temperature and number of degrees above or below normal for the month, and the rank of an all-time coldest month, where applicable.

Location	Temperature (degrees)	Above/Below	Rank
WFO Marquette	11.7	-1.2	
Marquette City	18.4	0.0	
Houghton Airport	14.0	-0.7	
Ironwood	9.1	-2.5	
Iron Mountain	12.1	-1.9	
Manistique	16.1	-1.7	
Munising	16.4	-0.8	
Newberry	14.3	-1.7	
Ontonagon	14.5	-2.1	

## **January River Levels**

River levels were near normal across Upper Michigan in January.

## **January Products Issued**

Flood Warnings (FLW): 0  
Flood Advisories (FLS): 0  
River Statements (RVS): 0  
Flash Flood Watches (FFA): 0  
Flash Flood Warnings (FFW): 0  
Flash Flood Statements (FFS): 0

CC:  
Robin J. Turner - WFO MQT MIC  
Justin Titus – WFO MQT HPM  
Mark Walton - WFO GRR SH