

NWS FORM E-5 U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS TO: NATIONAL WEATHER SERVICE (W/OH12x1) HYDROMETEOROLOGICAL INFO CENTER 1325 EAST-WEST HIGHWAY, RM 7116 SILVER SPRING, MD 20910	HSA OFFICE: Marquette, MI
	REPORT FOR (MONTH / YEAR): February 2011
	DATE: March 9, 2011
	SIGNATURE: Robin J. Turner, MIC Justin Titus, Meteorologist
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.

February Flooding

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

February Precipitation

The highest precipitation fell over west central Upper Michigan, where precipitation was near normal due to favorable wind directions for lake effect snow. Elsewhere, precipitation was below to well below normal as few storm systems moved through, and conditions were not as favorable for lake effect snow in these areas.

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	0.50	-1.33	2 nd	13.7	-15.5	6 th
Marquette City	0.31	-1.08	5 th	5.0	-15.4	1 st
Houghton Airport	0.94	-0.86		16.5	-7.7	
Ironwood	0.59	-0.96		11.3	-11.3	
Iron Mountain	0.14	-0.92	5 th	1.6	-9.9	6 th
Manistique	0.24	-0.83	3 rd	3.2	-10.4	4 th
Munising	0.76	-1.18	7 th	11.9	-12.9	
Newberry	0.77	-0.57	10 th	10.0	-7.2	
Ontonagon	1.54	-0.02		22.0	-4.5	

Other monthly precipitation totals from coop observers:

Location	Precipitation (inches)	Snowfall (inches)
Ahmeek (Keweenaw County)	M	M
Amasa (Iron County)	0.23	1.9
Atlantic Mine (Houghton County)	0.95	22.0
Baraga (Baraga County)	0.36	7.1
Bark River (Delta County)	0.28	4.3
Bergland Dam (Ontonagon County)	1.65	20.9
Big Bay (Marquette County)	0.61	9.6
Chatham (Alger County)	0.37	8.9
Clarksburg (Marquette County)	0.29	6.0
Cooks (Schoolcraft County)	M	M
Copper Harbor (Keweenaw County)	0.66	10.2
Cornell (Delta County)	M	M
Daggett (Menominee County)	M	M
Garden Corners (Delta County)	0.36	4.5
Gladstone (Delta County)	0.32	2.9
Greenland (Ontonagon County)	0.75	13.1
Gwinn (Marquette County)	0.24	3.6
Harvey (Marquette County)	0.21	3.3
Herman (Baraga County)	0.84	18.0
Ishpeming (Marquette County)	0.28	M
Jacobsville (Houghton County)	0.48	7.7
Laurium (Houghton County)	0.94	16.5
Marquette West (Marquette County)	0.21	5.2
Mohawk (Keweenaw County)	1.18	14.0
Menominee (Menominee County)	0.57	6.2
Norway (Dickinson County)	0.16	2.9
Painesdale (Houghton County)	1.23	18.0
Rapid River (Delta County)	M	M
Stambaugh (Iron County)	0.12	0.5
Twin Lakes (Houghton County)	1.35	30.7
Two Heart (Luce County)	0.60	14.5
Watersmeet (Gogebic County)	0.29	1.9
Watton (Baraga County)	0.41	5.5
Wetmore (Alger County)	M	M

Drought Discussion

Due to the lack of precipitation in February, all but far western Upper Michigan was classified as abnormally dry.

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

February 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	16.9	2.0	
Marquette City	21.2	0.8	
Houghton Airport	18.4	3.3	
Ironwood	15.5	1.0	
Iron Mountain	18.5	1.9	
Manistique	19.2	0.8	
Munising	18.6	0.7	
Newberry	15.4	-1.2	
Ontonagon	21.5	2.6	

February River Levels

River levels were below normal over northern Upper Michigan, generally in the Lake Superior drainage basins. Elsewhere, in the Lake Michigan drainage basins, river levels were near normal.

February 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

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