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| 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): July 2015 |
| | DATE: August 11, 2015 |
| | 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). | |

X

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

July Flooding

No flooding was reported to the National Weather Service.

July Precipitation

July precipitation was generally near to below normal, although precipitation was well below normal near Manistique.

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

| Location | Precipitation | Normal | Above/Below | Rank |
|------------------|---------------|---------|-------------|-----------------|
| WFO Marquette | 1.70 | 2.84 | -1.14 | |
| Marquette City | 1.80 | 2.82 | -1.02 | |
| Houghton Airport | 2.51 | 2.49 | 0.02 | |
| Ironwood | 2.91 | 4.10 | -1.19 | |
| Iron Mountain | 2.66 | 3.45 | -0.79 | |
| Manistique | 0.95 | 3.04 | -2.09 | 8 th |
| Munising | 3.57 | 3.27 | 0.30 | |
| Newberry | 3.03 | No Data | No data | |

Other monthly precipitation totals from coop observers:

| Location | Precipitation (inches) |
|---------------------------------|------------------------|
| Ahmeek 1SW | 2.57 |
| Amasa (Iron County) | 1.98 |
| Atlantic Mine (Houghton County) | 2.52 |
| Baraga 7NW (Baraga County) | 1.64 |
| Big Bay (Marquette County) | 1.52 |
| Chatham (Alger County) | 2.15 |
| Clarksburg (Marquette County) | 1.90 |
| Cooks (Schoolcraft County) | 2.24 |
| Copper Harbor (Keweenaw County) | 2.37 |
| Garden Corners (Delta County) | 2.82 |
| Gladstone (Delta County) | 2.10 |
| Greenland 6N (Ontonagon County) | 2.55 |
| Gwinn (Marquette County) | Missing |
| Harvey (Marquette County) | 2.10 |
| Herman (Baraga County) | 2.00 |
| Houghton (Houghton County) | Missing |
| Jacobsville (Houghton County) | 1.82 |
| Mohawk (Keweenaw County) | 2.87 |
| Menominee (Menominee County) | 2.78 |
| Norway (Dickinson County) | 2.66 |
| Paulding (Ontonagon County) | 2.01 |
| Stambaugh (Iron County) | 1.82 |

Drought Discussion

The August 4, 2015 release of the U.S. Drought Monitor continued to indicate that drought conditions did not exist in Upper Michigan. For the latest drought status, please go to <http://www.drought.gov>.

July 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 warmest or coldest month, where applicable.

| Location | Temperature (degrees) | Above/Below | Rank |
|------------------|-----------------------|-------------|------|
| WFO Marquette | 66.0 | 0.5 | |
| Marquette City | 67.4 | 0.8 | |
| Houghton Airport | 66.1 | 1.3 | |
| Ironwood | 66.4 | 0.6 | |
| Iron Mountain | 68.6 | 0.6 | |
| Manistique | 63.8 | -0.9 | |
| Munising | 64.1 | -0.7 | |
| Newberry | 66.0 | 1.2 | |

July River Levels

According to the United States Geological Survey, July average streamflow across most of Upper Michigan was near normal (25-75 percentile).

July Products Issued

31 – Hydrologic Summary

1 – Hydrologic Outlook

CC:

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