

NWS FORM E-5

U.S. DEPARTMENT OF COMMERCE  
NOAA, NATIONAL WEATHER SERVICE

HSA OFFICE:

Grand Rapids, MI

REPORT FOR (MONTH & YEAR):

May 2016

**MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS**

DATE:

June 12th, 2016

SIGNATURE:

Daniel K. Cobb, MIC

Mark Sekelsky, Lead Forecaster

TO: NATIONAL WEATHER SERVICE (W/OS31)  
HYDROMETEOROLOGICAL INFO CENTER  
1325 EAST-WEST HIGHWAY, RM 13468  
SILVER SPRING, MD 20910

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 that no significant flooding occurred within this Hydrologic Service Area.

**Summary**

The dry pattern that started in April, continued through May. Below normal precipitation was observed throughout the region in May. Because of this, river levels were largely below average for the hydrologic service area. Several rain events occurred. The main impact from this was for a few sites to reach bankfull levels but remain below flood stage.

**Flood Conditions**

No significant flooding was observed during the month of May.

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The following rivers exceeded bankfull during the month of May 2016:

- Muskegon River at Croton, Michigan (1 day above bankfull)
- Sycamore Creek near Holt, Michigan(6 days above bankfull)
- Grand River in Ionia, Michigan (12 days above bankfull)
- Maple River in Maple Rapids, Michigan (16 days above bankfull)
- Thornapple River near Hastings, Michigan (5 days above bankfull)

**Flood Stage Report**

No forecast points exceeded flood stage in our HSA during the month of May 2016. As a result, no Flood Stage Report was submitted.

## **River Conditions**

The end of the Mays percentage of normal flow for selected rivers is listed below:

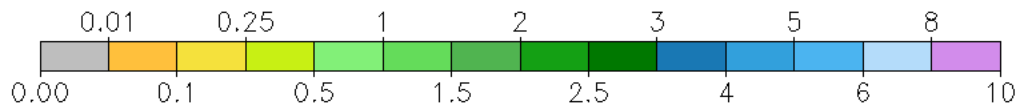
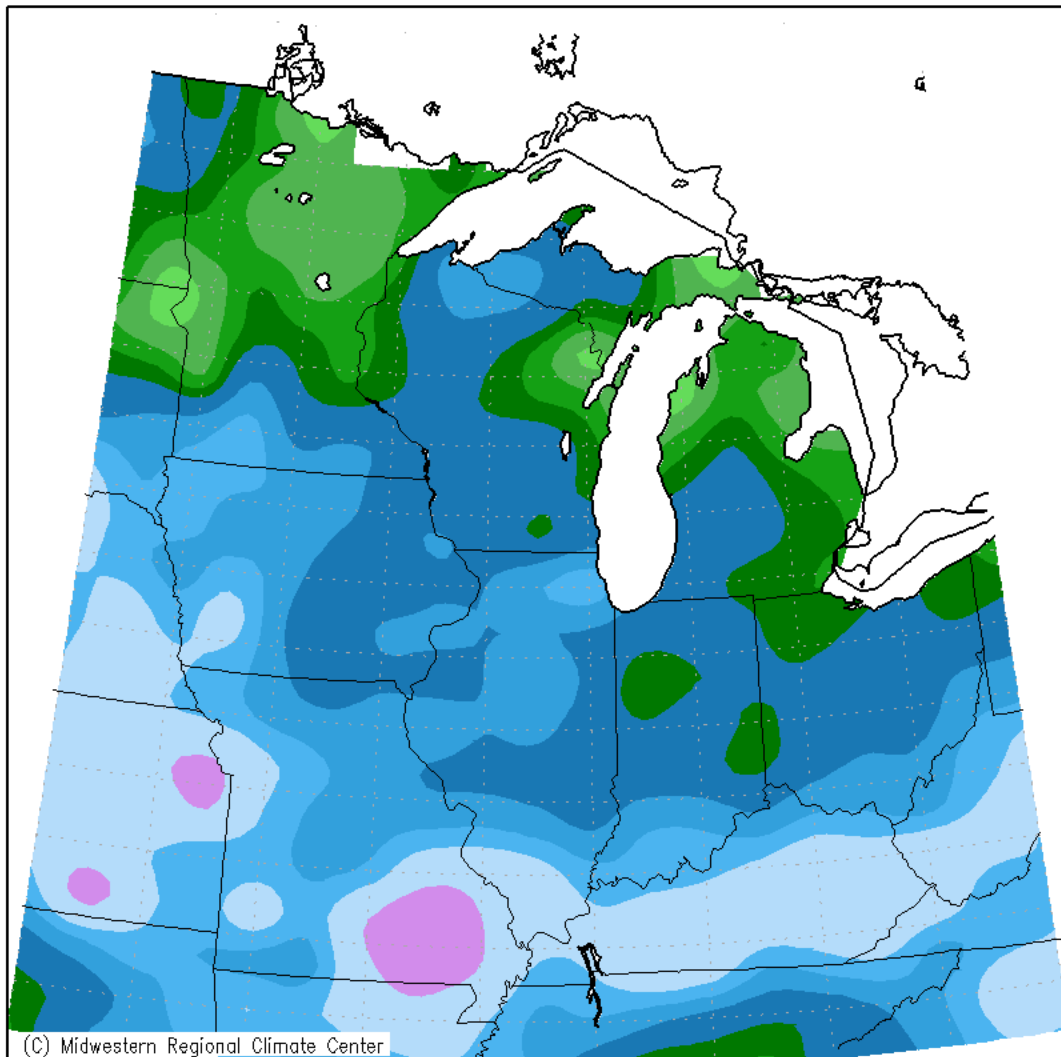
<u>Location</u>	<u>River</u>	<u>% of Normal</u>
Scottville	Pere Marquette	98
Whitehall	White	99
Evart	Muskegon	100
Mt. Pleasant	Chippewa	120
Lansing	Grand	76
Grand Rapids	Grand	108
East Lansing	Red Cedar	76
Hastings	Thornapple	100
Battle Creek	Battle Creek	93
Battle Creek	Kalamazoo	74

## **General Hydrologic Information**

May precipitation totals at Grand Rapids, Lansing, and Muskegon, Michigan, were 3.01, 2.99, and 2.38 inches, respectively (Figure 1). The three stations featured below normal precipitation for the May. Departures for Grand Rapids, Lansing and Muskegon were -0.97 inches, - 0.37 inches, and -0.87 inches. Percent of mean precipitation for May 2016 is shown in Figure 2. Yearly precipitation departures through the end of May were 3.43 inches above normal for Grand Rapids, 1.34 inches above normal for Lansing, and 1.66 inches above normal for Muskegon.

Temperatures for the month of May were above normal at Grand Rapids, Lansing, and Muskegon. The average monthly temperature departures were, 1.7, 1.0, and 1.0 degrees Fahrenheit respectively.

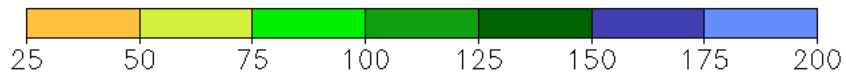
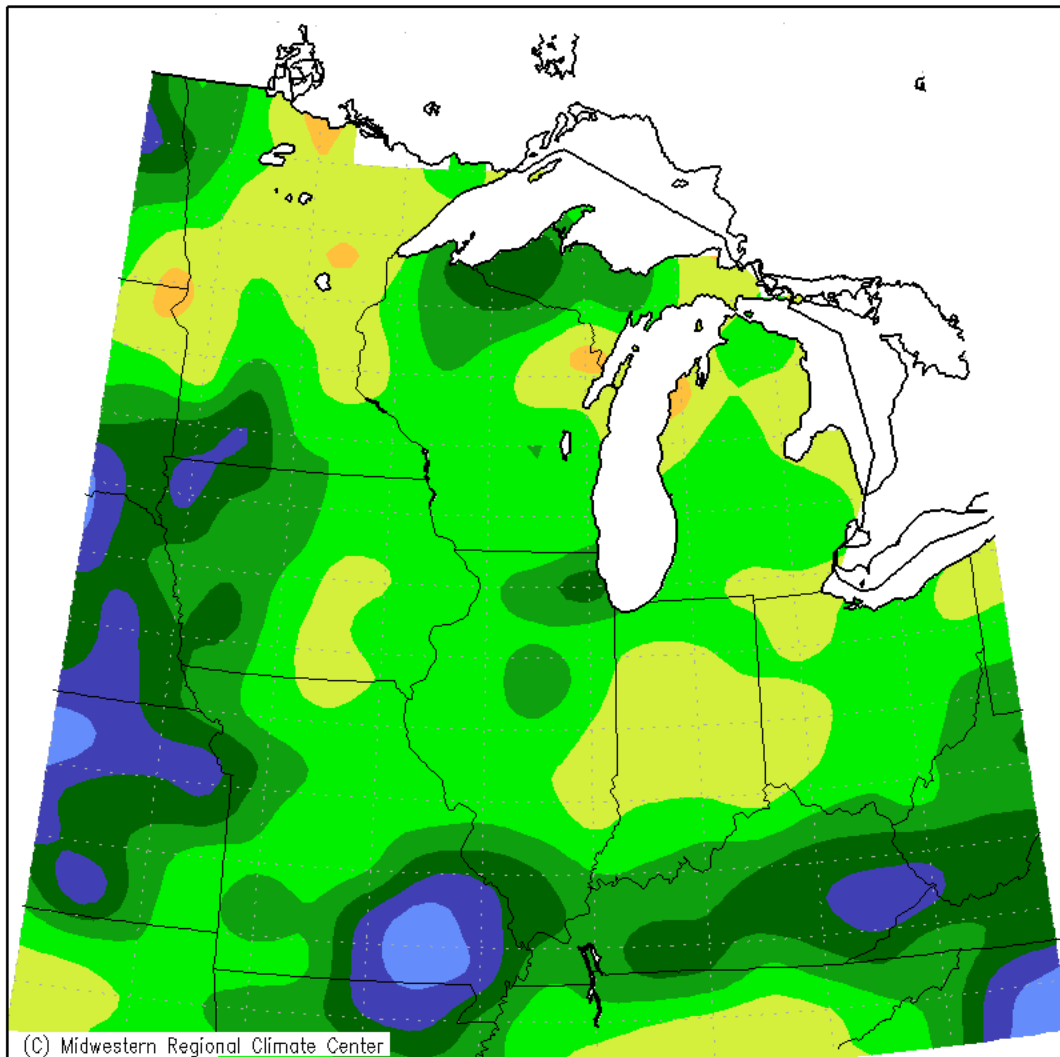
Accumulated Precipitation (in)  
May 1, 2016 to May 31, 2016



Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Figure 1. May Monthly Precipitation Totals

Accumulated Precipitation: Percent of Mean  
May 1, 2016 to May 31, 2016



Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Figure 2. May Percent of Mean of Accumulated Precipitation

**Hydrologic Products issued this month:**

- 1 Hydrologic Outlook (ARBESFGRR)
- 31 Hydrologic Summaries (ARBRVAGRR)
- 41 River Flood Statements(ARBFLSGRR)
- 15 River Statements(ARBRVSGRR)
- 31 Daily River Forecasts(ARBRVDGRR)

**News Articles and Related Documentation**

None