

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

DATE:

October 15, 2015

SIGNATURE:

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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

September was overall a warm and drier than normal month. This resulted in generally limited hydrologic impacts. Several rounds of locally heavy rain fell, but basin average amounts remained low. The flooding that did occur was minor and generally in urban poor drainage locations. No forecast points, exceeded flood stage during the month of September.

Flood Conditions

Monday, September 7th

At 8:40 PM EDT, a flood advisory was issued for Sycamore Creek at Holt. Forecasted rainfall amounts of 1 to 3 inches were expected to result in minor flooding for this forecast point.

Tuesday, September 8th

At 10:14AM EDT, the flood advisory for Sycamore Creek at Holt was continued. Multiple rounds of heavy rain were forecasted to result in minor flooding of Sycamore Creek.

Tuesday, September 8th

At 10:00 PM EDT, the flood advisory was continued for Sycamore Creek at Holt. The river had crested, resulting in minor flooding.

Wednesday, September 9th

At 5:17 AM, the flood advisory was cancelled for Sycamore Creek at Holt. The river had fallen below action stage

The following river exceeded bankfull during the month of September 2015:

- Sycamore Creek at Holt, Michigan (2 days above bankfull)

Flood Stage Report

No gage exceeded flood stage in September thus no NWS Form E-3 “Flood Stage Report” was sent.

River Conditions

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

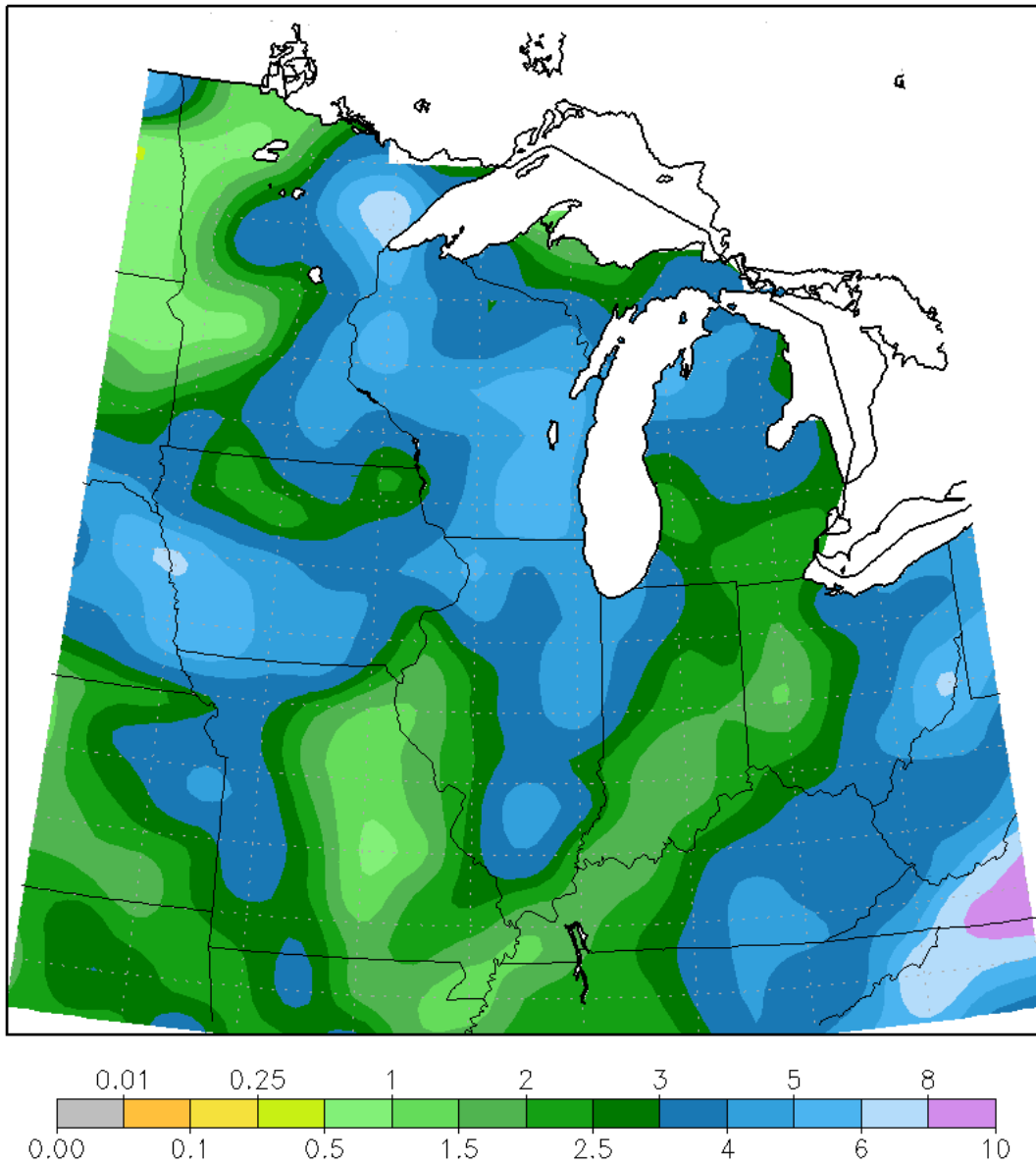
<u>Location</u>	<u>River</u>	<u>% of Normal</u>
Scottville	Pere Marquette	109
Whitehall	White	105
Evert	Muskegon	107
Mt. Pleasant	Chippewa	111
Lansing	Grand	140
Grand Rapids	Grand	137
East Lansing	Red Cedar	178
Hastings	Thornapple	149
Battle Creek	Battle Creek	181
Battle Creek	Kalamazoo	108

General Hydrologic Information

September precipitation totals at Grand Rapids, Lansing, and Muskegon, Michigan, were 2.26, 1.34, and 2.59 inches, respectively (Figure 1). Precipitation departures for the month at these three sites were 2.02 inches below normal at Grand Rapids, 2.16 inches below normal at Lansing, and 1.30 inches below normal at Muskegon. Percent of mean precipitation for September 2015 is shown in Figure 2. Yearly precipitation departures were 5.10 inches below normal for Grand Rapids, 3.08 inches above normal for Lansing, and 1.25 inches above normal for Muskegon.

Temperatures for the month of September were well above normal at Grand Rapids, Lansing, and Muskegon. The average monthly temperature departures were, 4.4, 4.6, and 4.6 degrees Fahrenheit respectively.

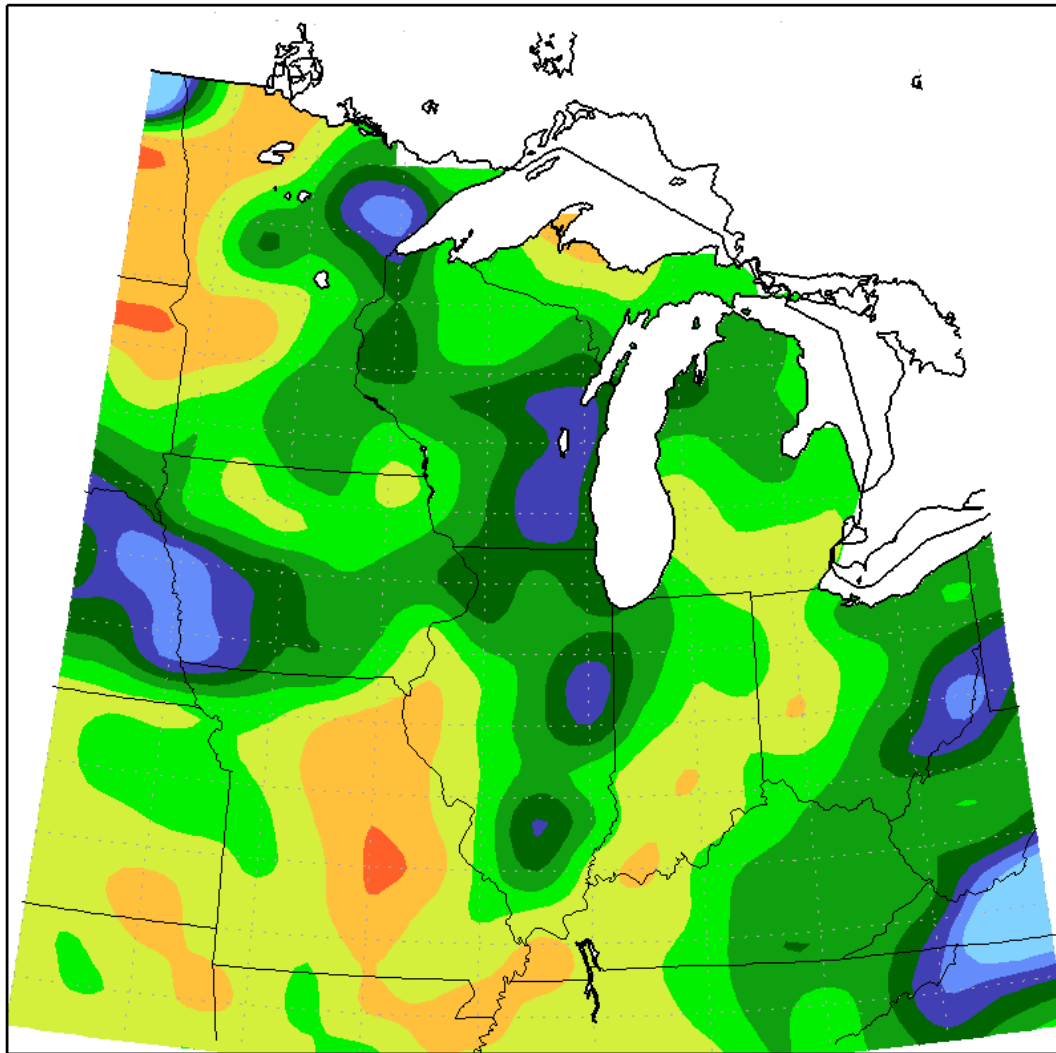
Accumulated Precipitation (in)
September 1, 2015 to September 30, 2015



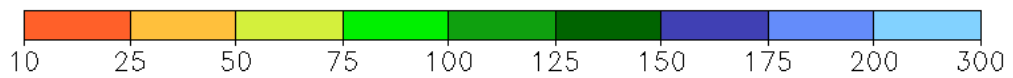
Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign

Figure 1. September Monthly Precipitation Totals

Accumulated Precipitation: Percent of Mean
September 1, 2015 to September 30, 2015



Mean period is 1981–2010.



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Figure 2. September Percent of Mean of Accumulated Precipitation

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR)
- 30 Hydrologic Summaries (ARBRVAGRR)
- 30 Daily River and Lake Summaries (ARBRVDGRR)
- 18 Areal Flood Advisory Statements (ARBFLSGRR)
- 4 River Flood Advisory Statements (ARBFLSGRR)
- 3 Hydrologic Statements (ARBRVSGRR)

News Articles and Related Documentation

None