

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

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

SIGNATURE:
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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

No significant flooding occurred during the month of September in our Hydrologic Service Area (HSA).

Flood Conditions

No flooding occurred during the month of September.

Flood Stage Report

No rivers exceeded flood stage during the month of September.

River Conditions

River levels by the end of September were near to below normal for the majority of the rivers in our HSA, with the exception of the Grand and Red Cedar Rivers near Lansing, Michigan. Higher percent of normal flow (still well within banks) at the end of the month in the Lansing area were the direct result of runoff from localized rainfall near the end of the month.

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	96
Whitehall	White	84
Evert	Muskegon	64
Mt. Pleasant	Chippewa	75
Lansing	Grand	216
Grand Rapids	Grand	83
East Lansing	Red Cedar	195
Hastings	Thornapple	87
Battle Creek	Battle Creek	92
Comstock	Kalamazoo	115

General Hydrologic Information

For the month of September, precipitation totals were below normal and temperatures were significantly above normal for Grand Rapids, Lansing and Muskegon, Michigan.

September precipitation totals at Grand Rapids, Lansing, and Muskegon, were 1.21, 1.86, and 2.25 inches, respectively. Precipitation for the month at these three sites was 3.07 inches below normal at Grand Rapids, 1.62 inches below normal at Lansing, and 1.27 inches below normal at Muskegon, Michigan. For the year, precipitation totals were below normal at Grand Rapids, Lansing, and Muskegon, Michigan. Yearly precipitation totals were 2.72 inches below normal for Grand Rapids, 0.21 of an inch below normal for Lansing, and 1.25 inches below normal for Muskegon, Michigan.

Temperatures for the month of September were significantly above normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of +4.8, +4.0 and +3.7 degrees Fahrenheit, respectively.

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 2 Hydrologic Statements (ARBRVSGRR) were issued
- 30 Hydrologic Summary's (ARBRVAGRR) were issued
- 30 Daily River and Lake Summary's (ABRRVDGRR) were issued