

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

TO: NATIONAL WEATHER SERVICE (W/OS31)
HYDROMETEOROLOGICAL INFO CENTER
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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 February in our Hydrologic Service Area (HSA).

Flood Conditions

None occurred during the month of February. The late February spring flood and water resources outlook indicated a slight chance of flooding across most basins with a better chance for minor flooding across the Looking Glass, Flat, Upper Thornapple, and Maple River Basins over the next 90 days.

Flood Stage Report

No rivers exceeded flood stage during the month of February.

River Conditions

River levels across the Grand Rapids HSA by the end of February were near normal in Southwest Lower Michigan. During the month of February, ice was impacting flows on area rivers and impacting river readings.

General Hydrologic Information

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

February precipitation totals at Grand Rapids, Lansing, and Muskegon, were 1.98, 0.47, and 1.45 inches, respectively. Precipitation for the month at these three sites were 0.44 of an inch above normal at Grand Rapids, 0.98 of an inch below normal at Lansing, and 0.13 of an inch below normal at Muskegon, Michigan.

February snowfall totals at first order stations across our HSA were above normal for

Grand Rapids (+21.4"), and Muskegon (+9.2"), and below normal for Lansing (-3.0"), Michigan. February snowfall totals at Grand Rapids, Lansing, and Muskegon, were 33.6", 7.6", and 27.5", respectively. At these three sites, snow cover was at 100% for the entire month and at the end of the month the snow depth was 9" in Grand Rapids, 2" in Lansing, and 7" in Muskegon, Michigan.

Temperatures for the month of February were significantly below normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of -6.4, -6.9 and -4.9 degrees Fahrenheit, respectively.

With a consistent snowpack, soil temperatures were holding steady at 32 degrees Fahrenheit at 2 inches at Baldwin and Grand Rapids, Michigan. Frost depths were approximately 2" across the HSA.

Hydrologic Products issued this month:

- 2 Hydrologic Outlooks (ARBESFGRR) were issued
- 11 Hydrologic Statements (ARBRVSGRR) were issued
- 28 Hydrologic Summary's (ARBRVAGRR) were issued