NWS FORM E-5

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

HSA OFFICE: Grand Rapids, MI

REPORT FOR (MONTH &YEAR):

December 2006

DATE:

January 31, 2007

SIGNATURE:

Daniel K. Cobb, MIC

Mark L. Walton, Service Hydrologist

TO: NATIONAL WEATHER SERVICE (W/OS31) HYDROMETEOROLOGICAL INFO CENTER

1325 EAST-WEST HIGHWAY, RM 13468

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

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

No significant flooding occurred during the month of December in our Hydrologic Service Area (HSA). On December 8th an ice jam set up on the Muskegon River near Rogers Heights and resulted in river levels just above bankfull. The ice jam was highlighted in Hydrologic Statements and lasted for several days before breaking up during a warm spell. No significant flooding resulted from this event.

Flood Conditions

None occurred during the month of December.

Flood Stage Report

No rivers exceeded flood stage during the month of December.

River Conditions

River levels across the Grand Rapids HSA by the end of December were significantly above normal in Southwest Lower Michigan. The rivers are still recovering from a wet fall, and although above normal, are on a downward trend. During the month of December, ice was beginning to impact flows on area rivers and impact river readings.

General Hydrologic Information

For the month of December, precipitation and temperatures were above normal for all of Southwest Lower Michigan.

December precipitation totals at first order stations across our HSA were above normal for Grand Rapids, Muskegon, and Lansing, Michigan. December precipitation totals at Grand Rapids, Lansing, and Muskegon, were 3.76, 3.07, and 3.11 inches, respectively. Precipitation for the month at these three sites were 1.06 inches above normal at Grand Rapids, 0.90 of an inch above normal at Lansing, and 0.47 of an inch above normal at Muskegon, Michigan. For the year, precipitation totals finished up above normal at

Grand Rapids, Lansing, and Muskegon, Michigan. Yearly precipitation totals were 7.26 inches above normal for Grand Rapids, 5.43 inches above normal for Lansing, and 7.12 inches above normal for Muskegon, Michigan.

December snowfall totals at first order stations across our HSA were below normal for Grand Rapids (-7.2"), Lansing (-10.0"), and Muskegon (-14.3"), Michigan. December snowfall totals at Grand Rapids, Lansing, and Muskegon, were 11.6", 3.2", and 15.0", respectively. By the end of the month the snow was all gone.

Temperatures for the month of December were above normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of +7.5, +7.9 and +7.4 degrees Fahrenheit, respectively.

Soil Temperatures across the HSA were still above freezing, and at 2 inches ranged from 34 degrees Fahrenheit at Baldwin, Michigan to 39 degrees Fahrenheit at Grand Rapids, Michigan.

Hydrologic Products issued this month:

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