NWS	FORM	E-5
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U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE

HSA OFFICE: Grand Rapids, MI

REPORT FOR (MONTH &YEAR): **April 2006**

DATE:

October 23, 2006

SIGNATURE:

Daniel K. Cobb, MIC

Mark L. Walton, Service Hydrologist

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

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).



TO:

An X inside this box indicates that no flooding occurred within this Hydrologic Service Area.

Summary

No significant flooding occurred during the month of April in our Hydrologic Service Area (HSA). In early April, an urban and small stream flood advisory was issued for Lake, Osceola, Oceana, Newaygo, and Muskegon Counties in Southwest Lower Michigan. During the advisory a few secondary roads flooded for a short period and small creeks and streams had significant rises, but no significant property damage was reported.

Flood Conditions

An urban and small stream flood advisory was issued for Lake, Osceola, Oceana, Newaygo, and Muskegon Counties on April 3rd, 2006, at 8:11 AM EDT. Thunderstorms dumped 3 to 5 inches over a 12 hour period and resulted in temporary flooding of a few secondary roads and significant rises in streams and creeks in the advisory area. The advisory was allowed to expire that evening after the minor flooding subsided. No significant property damage was reported for this event.

Flood Stage Report

No rivers this month exceeded flood stage.

River Conditions

River levels across the Grand Rapids HSA by the end of April were below normal by the end of the month.

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

Location	<u>River</u>	% of Normal
Scottville	Pere Marquette	82
Whitehall	White	85
Evart	Muskegon	71
Mt. Pleasant	Chippewa	90
Lansing	Grand	55
Grand Rapids	Grand	65
East Lansing	Red Cedar	64
Hastings	Thornapple	52
Battle Creek	Battle Creek	57
Comstock	Kalamazoo	55

General Hydrologic Information

April precipitation was near to below normal, and temperatures were above normal across Southwest Lower Michigan.

April precipitation totals at first order stations across our HSA were below normal for Grand Rapids, Lansing, and near normal for Muskegon, Michigan. April precipitation totals at Grand Rapids, Lansing, and Muskegon, were 2.22, 1.82, and 3.03 inches, respectively. Precipitation for the month at these three sites were 1.26 inches below normal at Grand Rapids, 1.27 inches below normal at Lansing, and 0.12 of an inch above normal at Muskegon, Michigan. For the year, precipitation totals were above normal at Grand Rapids, Lansing, and Muskegon, Michigan. Yearly precipitation totals were 2.58 inches above normal for Grand Rapids, 1.84 inches above normal for Lansing, and 5.46 inches above normal for Muskegon, Michigan.

Snowfall totals for the month of April were below normal for Grand Rapids (-2.8") Lansing (-2.3") and Muskegon (-3.1"). April snowfall totals at Grand Rapids and Muskegon were a Trace, and 0.2 of an inch at Lansing, Michigan. By the end of the month the snowpack was all gone across our HSA.

Temperatures for the month of April were well above normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of +4.3, +4.8, and +3.9 degrees Fahrenheit, respectively. At Grand Rapids the soil temperatures at the end of the month were 52 degrees near the surface and 44 degrees Fahrenheit at a depth of 60 inches.

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 3 Flood Statements (ARBFLSGRR) were issued
- 17 Hydrologic Statements (ARBRVSGRR) were issued
- 30 Daily River and Lake Summary's (ABRRVDGRR) were issued
- 30 Hydrologic Summary's were issued (RVA)