

NWS FORM E-5

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

HSA OFFICE:

**Grand Rapids, MI**

REPORT FOR (MONTH & YEAR):

**August 2006**

**MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS**

DATE:

October 20, 2006

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

SIGNATURE:

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Mark L. Walton, Service Hydrologist

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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).

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**X**

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 August in our Hydrologic Service Area (HSA). During the month of August, urban and small stream flood advisories were issued for Van Buren, Mason, and Lake Counties in Southwest Lower Michigan. During the advisories 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**

On August 2<sup>nd</sup>, an urban and small stream flood advisory was issued for Van Buren County. Radar estimated that two inches of rain fell during a two hour period over the advisory area and resulted in temporary flooding of a few secondary roads and significant rises in streams and creeks in the advisory area. On August 26<sup>th</sup>, urban and small stream flood advisories were issued for Mason and Lake Counties when a line of thunderstorms over the advisory area produced two to five inches of rain over a five hour period. This heavy rain event resulted in a few secondary roads flooded for a short period, and significant rises in small creeks and streams. The advisories were allowed to expire after the minor nuisance flooding subsided. No significant property damage was reported for these events.

**Flood Stage Report**

No rivers exceeded flood stage during the month of August.

**River Conditions**

River levels across the Grand Rapids HSA by the end of August were above normal in Southwest Lower Michigan. Significant rains near the end of the month resulted in higher than normal flows at 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	124
Ewart	Muskegon	130
Mt. Pleasant	Chippewa	112
Lansing	Grand	287
Grand Rapids	Grand	128
East Lansing	Red Cedar	266
Hastings	Thornapple	139
Battle Creek	Battle Creek	152
New Richmond	Kalamazoo	134

### **General Hydrologic Information**

August temperatures were above normal and precipitation near to below normal across Southwest Lower Michigan.

August precipitation totals at first order stations across our HSA were near to below normal for Grand Rapids, Lansing, and Muskegon, Michigan. August precipitation totals at Grand Rapids, Lansing, and Muskegon, were 1.62, 3.41, and 1.24 inches, respectively. Precipitation for the month at these three sites were 2.16 inches below normal at Grand Rapids, 0.05 of an inch below normal at Lansing, and 2.53 inches below normal at Muskegon, Michigan. For the year, precipitation totals were still above normal at Grand Rapids, Lansing, and Muskegon, Michigan. Yearly precipitation totals were 3.43 inches above normal for Grand Rapids, 3.19 inches above normal for Lansing, and 5.05 inches above normal for Muskegon, Michigan.

Temperatures for the month of August were above normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of +1.7, +1.4 and +2.5 degrees Fahrenheit, respectively.

### **Hydrologic Products issued this month:**

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 5 Flood Statements (ARBFLSGRR) were issued
- 31 Daily River and Lake Summary's (ABRRVDGRR) were issued
- 31 Hydrologic Summary's were issued (RVA)