

NWS FORM E-5

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

HSA OFFICE:
Grand Rapids, MI

REPORT FOR (MONTH & YEAR):
January 2006

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

DATE:
April 3, 2006

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

SIGNATURE:
MIC
Service Hydrologist

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 flooding occurred within this Hydrologic Service Area.

Summary

No significant flooding occurred in the Grand Rapids Hydrologic Service Area (HSA) during the month of January.

Flood Conditions

None

River Conditions

Due to above normal precipitation and temperature for the month, the river levels across the Grand Rapids HSA by the end of January were well above normal, and ice free. All rivers remained below flood stage during the month of January. 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	220
Whitehall	White	218
Evert	Muskegon	316
Mt. Pleasant	Chippewa	429
Lansing	Grand	368
Grand Rapids	Grand	345
East Lansing	Red Cedar	574
Hastings	Thornapple	411
Battle Creek	Battle Creek	319
Comstock	Kalamazoo	181

General Hydrologic Information

January was unseasonably warm and wet across Southwest Lower Michigan.

January precipitation totals at first order stations across our HSA were significantly above normal for Grand Rapids, Lansing, and Muskegon, Michigan. January precipitation totals at Grand Rapids, Lansing, and Muskegon, were 4.30, 4.14, and 3.70 inches, respectively. Precipitation for the month at these three sites were 2.27 inches above normal at Grand Rapids, 2.53 inches above normal at Lansing, and 1.48 inches above normal at Muskegon, Michigan. Monthly precipitation totals at most locations in Southwest Lower Michigan fell within the top ten wettest Januaries on record. This resulted in above normal river levels across the area at the end of the month.

Snowfall totals for the month of January were below normal for Grand Rapids (-11.5") Lansing (-6.0") and Muskegon (-24.8"). January snowfall totals at Grand Rapids, Lansing, and Muskegon were 9.6, 8.0, and 9.6 inches, respectively. A warm up into the mid to upper 40's near the end of the month depleted the snowpack we had across our HSA.

Temperatures for the month of January were well above normal at Grand Rapids, Lansing, and Muskegon, with average monthly departures of +10.8, +11.6, and +10.7 degrees Fahrenheit, respectively. In fact, January 2006 was the warmest January since 1932. There was not a single day where the daily average temperature was below normal during the month of January. At Grand Rapids the soil temperatures at the end of the month were 33 degrees near the surface and 40 degrees Fahrenheit at a depth of 60 inches. Frost depth was 0 inches at WFO GRR at the end of the month.

Hydrologic Products issued this month:

- 1 Hydrologic Outlook (ARBESFGRR) was issued
- 45 Hydrologic Statements (ARBRVSGRR) were issued
- 31 Hydrologic Summary's were issued (RVA)