October 2007 Climate Narrative For Southwest Lower Michigan

By Wayne Hoepner

Overview

October started out in an "Indian Summer" mode with high temperatures in the mid 70s, lows in the lower 50s and near normal precipitation. The temperatures continued to heat up and record high maxima and minima were set from the 5th through the 8th. For many sections of southwest lower Michigan, the heat wave from the 5th through the 8th was the warmest on record for October. Across the area, this was the warmest October since 1971. Following are the record highs for Grand Rapids, Lansing and Muskegon for October.

RECORDS FOR GRAND RAPIDS

6th, new record high of 87, previous 86 set in 1900 new record high minimum of 68, previous 66 set in 1900

7th, new record high of 87, previous 83 set in 1913 new record high minimum of 66, previous 63 set in 1913

8th, new record high of 88, previous 83 set in 1949
new record high minimum of 67, previous 63 set in 1949
This was the 6th warmest October on record

RECORDS FOR LANSING

6th, new record high minimum of 66, previous 65 set in 1955 7th, tied previous record high of 86, set in 1879

new record high minimum of 64, previous 61 set 1879

8th, new record high of 86, previous 84 set in 1949 new record high minimum of 68, previous 65 set 1879 This was the 8th warmest October on record

RECORDS FOR MUSKEGON

5th, new record high of 83, previous 80 set in 2005

6th, tied high minimum record of 68, set in 1900

7th, new record high of 82, previous 80 set in 1949 new record high minimum of 67, previous 63 set in 1931

8th, tied record high of 82, set in 1997

new record high minimum of 63, previous 62 set in 1914 This was the 6th warmest October on record

A large Canadian high then pushed into the region. Temperatures fell to near to below normal levels with highs in the 50s to lower 60s and lows in the 30s and 40s.

As temperatures returned to above normal, severe weather developed. On the evening of the 18th, an EF-2 rated tornado hit the city of Williamston in Ingham County, Michigan. High temperatures reached the upper 70s on the 21st with lows in the 50s.

The weather and temperatures then returned to more seasonal levels through the 29th, when temperatures moved back above normal.

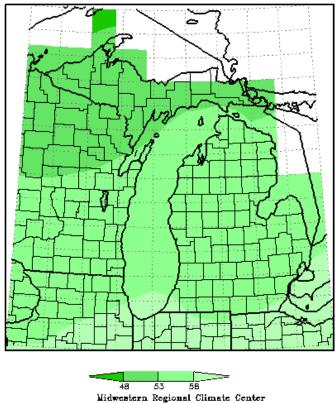
Precipitation for the month of October varied from near normal to above normal. Normals run around 2.5 inches.

Location		Temperature (degrees F)	Precipitation (inches)	Snowfall (inches)
Grand Rapids	Reported	58.1°	3.13	0.0
	Normal	49.9°	2.80	0.6
	Departure	8.2°	0.33	-0.6
Lansing	Reported	56.4°	3.36	0.0
	Normal	49.2°	2.29	0.4
	Departure	7.2°	1.07	-0.4
Muskegon	Reported	57.0°	2.42	0.0
	Normal	49.7°	2.80	0.6
	Departure	7.3°	-0.38	-0.6

Table 1: Temperature, precipitation, and snowfall amounts for October 2007 for Grand Rapids, Lansing and Muskegon.

Temperatures

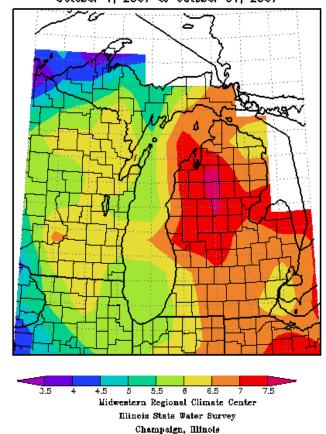
Average Temperature in Degrees F October 1, 2007 to October 31, 2007



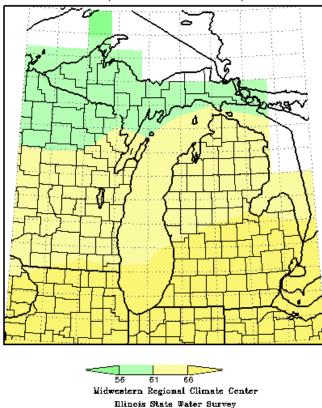
48 53 58
Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois

Departures

Average Temperature Departure from Mean in Degrees F October 1, 2007 to October 31, 2007

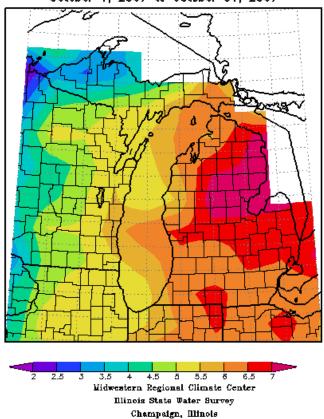


Average High Temperature in Degrees F October 1, 2007 to October 31, 2007

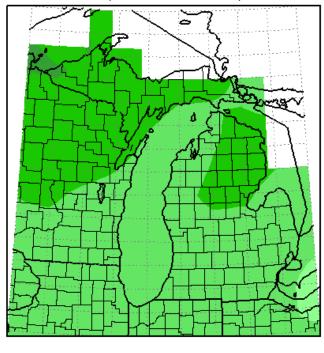


Illinois State Water Survey Champaign, Illinois

Average High Temp Departure from Mean in Degrees F October 1, 2007 to October 31, 2007



Average Low Temperature in Degrees F October 1, 2007 to October 31, 2007



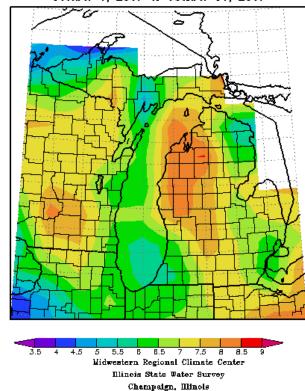
40 45 50

Midwestern Regional Climate Center

Illinois State Water Survey

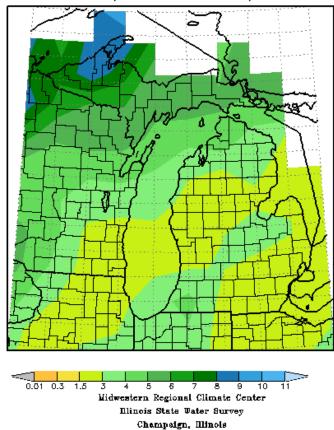
Champaign, Illinois

Average Low Temp Departure from Mean in Degrees F October 1, 2007 to October 31, 2007



Precipitation

Total Precipitation in Inches October 1, 2007 to October 31, 2007



Departure

Total Precipitation Departure from Mean in Inches October 1, 2007 to October 31, 2007

