

June 2007 Climate Narrative For Southwest Lower Michigan

By David Beachler

Overview

The first week of June featured a weak trough across the central United States. A broad area of high pressure was predominantly centered across the southeast coastal states. Temperatures through the first few days of June were 10 to 15 degrees above normal across southwest Lower Michigan. As the low pressure moved east, precipitation spread across Lower Michigan. Thunderstorms on the 2nd resulted in 1.42 inches of rainfall for Grand Rapids. Low pressure remained over Lower Michigan through the 5th, allowing temperatures to fall through the afternoon into the 60°s in most locations. High pressure then built into Lower Michigan, allowing warmer air to return to Southwest Lower Michigan. By the 7th Grand Rapids observed a temperature of 90 degrees. Lansing was 89 degrees, and Muskegon observed 88 degrees.

Towards the middle of the month and dry conditions became dominant across much of the Great Lakes region. High pressure remained centered across Ontario, allowing dry air to filter in from the northeast into Lower Michigan. At Grand Rapids, precipitation was not observed from the 9th through the 15th with a trace on the 16th. At Lansing, precipitation was nonexistent for 11 days from the 8th through the 18th. Dry weather was also similar at Muskegon; however, record high temperatures were observed on the 7th at 86 degrees. This record high was followed up with a maximum high tied on both the 13th and 14th at 89 degrees.

The close of June featured a semi-dry period across Southwest and West Central Lower Michigan. Drought conditions had developed, with a D0 status for many locations along and south of Interstate 96. Strong thunderstorms traversed the Southwest and West Central Lower Michigan region on the 27th, with some localized areas receiving greater than 1 inch of rainfall in a short duration.

Location		Temperature (degrees F)	Precipitation (inches)	Snowfall (inches)
Grand Rapids	<i>Reported</i>	70.6	3.39	0.0
	<i>Normal</i>	67.1	3.67	0.0
	<i>Departure</i>	3.5	-0.28	0.0
Lansing	<i>Reported</i>	68.9	3.09	0.0
	<i>Normal</i>	66.2	3.60	0.0
	<i>Departure</i>	2.7	-0.51	0.0
Muskegon	<i>Reported</i>	68.1	1.19	0.0
	<i>Normal</i>	64.9	2.58	0.0
	<i>Departure</i>	3.2	-1.39	0.0

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

Temperatures

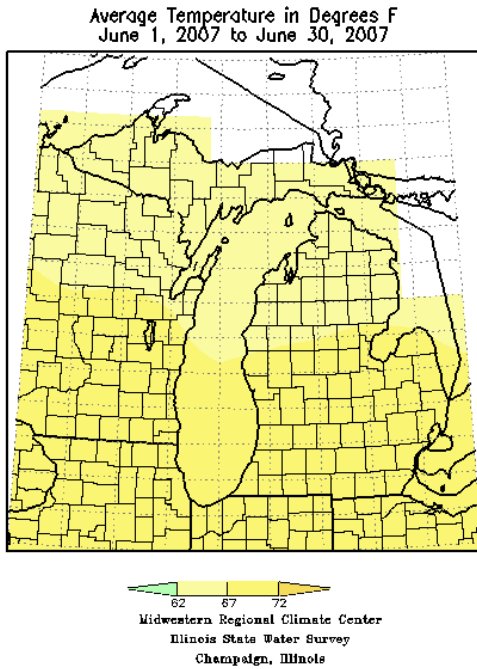


Figure 2a. Average Temperature for June 2007.

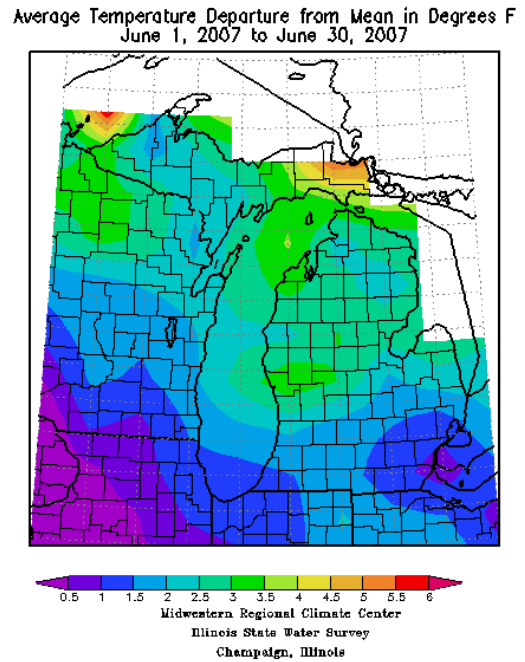


Figure 2b. Average Temperature departure from mean for June 2007.

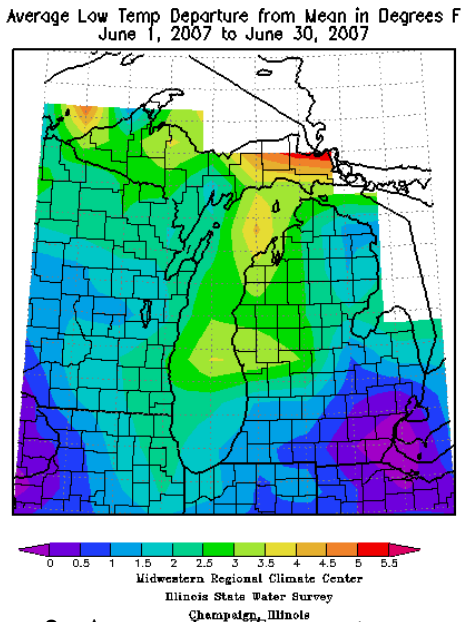


Figure 2c. Average Low Temperature departure for June 2007.

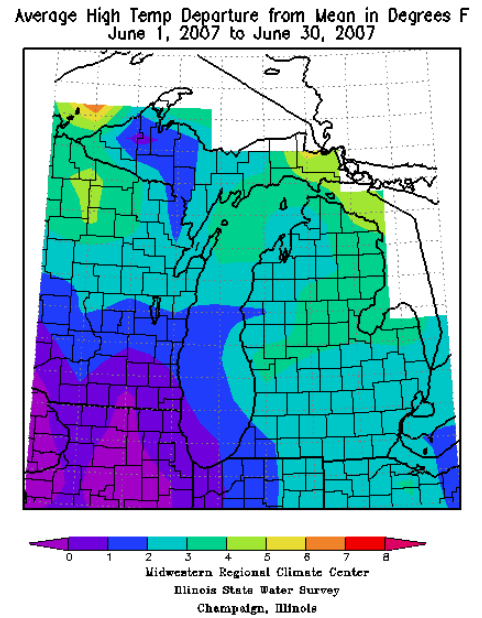


Figure 2b. Average High Temperature departure for June 2007.

Precipitation

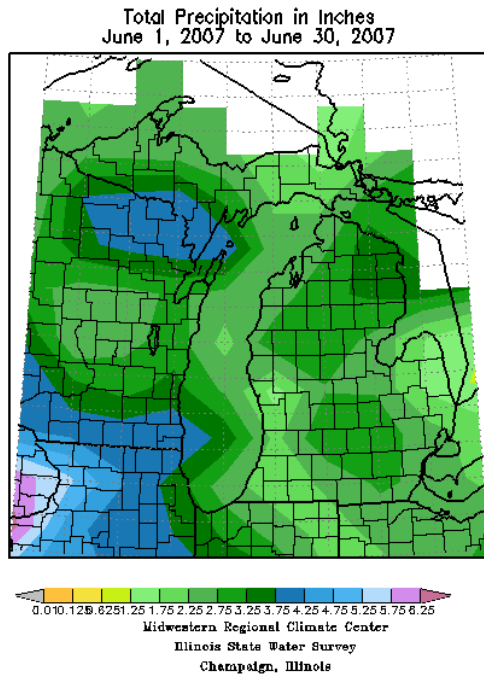


Figure 2c. Total Precipitation for June 2007.

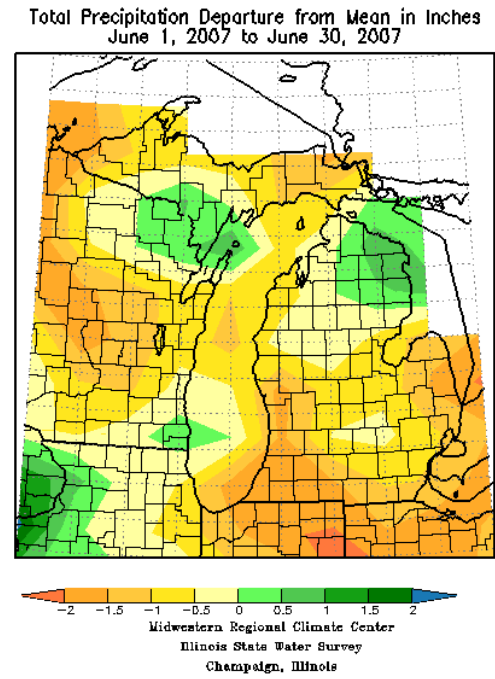


Figure 2b. Total Precipitation departure for June 2007.