

# October 2014 Climate Summary for Southwest Lower Michigan

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## Overview

October 2014 temperatures averaged out near to slightly below normal with precipitation near to moderately above normal. But as is typical of a Michigan Fall, it was not without its temperature swings and precipitation spells.

Many locations in Southwest Lower Michigan received over half of the month's precipitation in the first four days. A number of sites collected over two inches of rain in this two day period as moisture from the Gulf of Mexico was drawn north. This was followed by cold air on October 4<sup>th</sup>, which produced scattered showers and a mix of rain and small hail.

The second week of October included a mostly sunny stretch with somewhat below normal temperatures. This was followed by clouds and occasional rain from October 13<sup>th</sup> through October 21<sup>st</sup>. Clouds held the low temperatures well above normal until clearing allowed for the first widespread freeze in Southwest Lower Michigan on October 19<sup>th</sup>.

A dry period from October 22<sup>nd</sup> through October 27<sup>th</sup> featured gradually warming temperatures. The warmest high temperatures of the month occurred on October 27<sup>th</sup>. High temperatures were in the mid-70s, as Muskegon set a record high with 75 degrees.

October ended with a taste of winter as a potent upper level system from Manitoba dove through the Great Lakes on the final days of the month. Afternoon temperatures fell into the 30s and rain changed to snow across the state. The first snowflakes of the season were observed nearly everywhere in Southwest Lower Michigan. Snow accumulated in parts of Northern and Central Lower Michigan. North winds accompanying the system also brought gusts over 60 miles per hour and wave heights over 20 feet to Southern Lake Michigan.

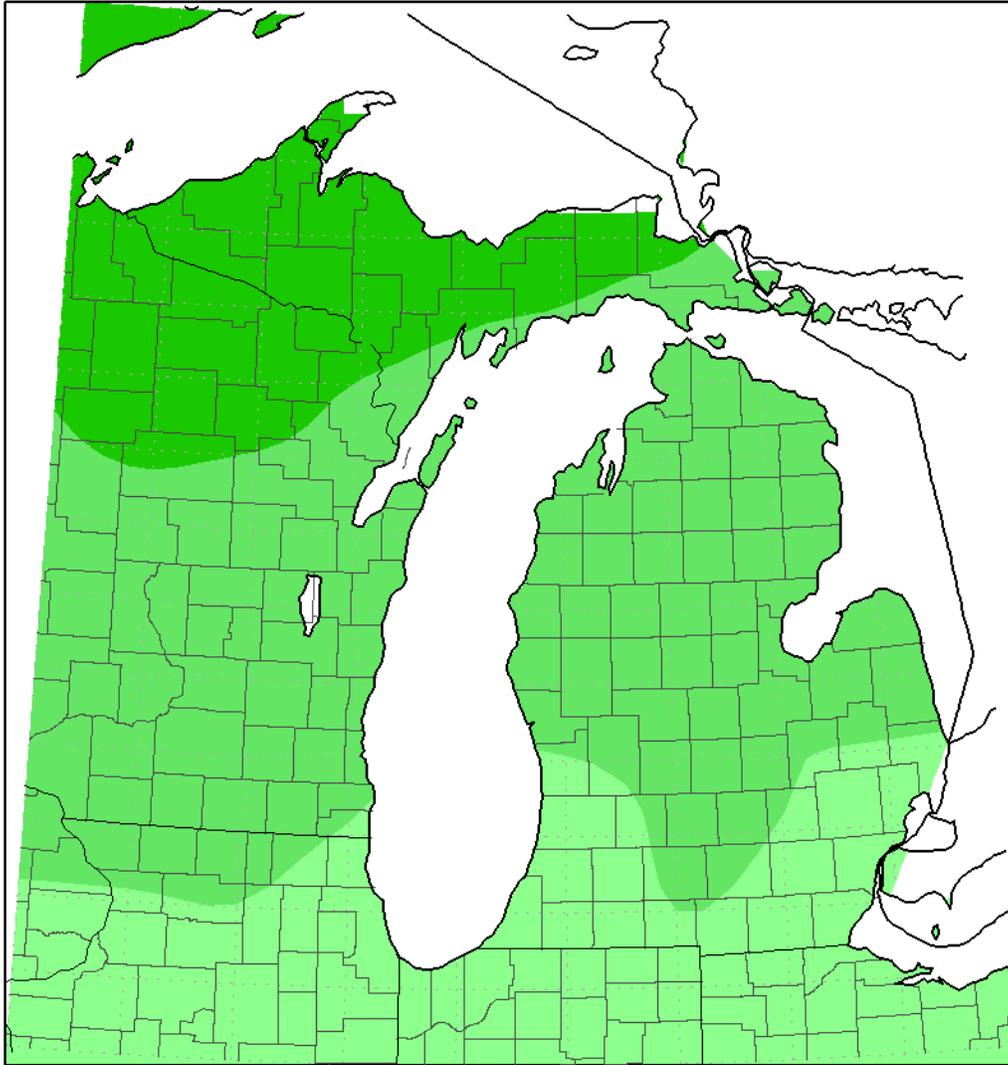
## October 2014 Climate Summary for Southwest Lower Michigan

Table 1. Reported temperature, precipitation and snowfall amounts for October 2014 at the primary climate stations in Southwest Lower Michigan and departures from normal.

<b>Location</b>		<b>Average Temperature (°F)</b>	<b>Precipitation (inches)</b>	<b>Snowfall (inches)</b>
<b>Grand Rapids</b>	<b>Observed</b>	<b>50.8</b>	<b>4.98</b>	<b>Trace</b>
	<b>Departure from Normal</b>	<b>-0.2</b>	<b>+1.72</b>	<b>-0.5</b>
	<b>Normal</b>	<b>51.0</b>	<b>3.26</b>	<b>0.5</b>
<b>Lansing</b>	<b>Observed</b>	<b>49.6</b>	<b>3.55</b>	<b>Trace</b>
	<b>Departure from Normal</b>	<b>-0.7</b>	<b>+1.02</b>	<b>-0.4</b>
	<b>Normal</b>	<b>50.3</b>	<b>2.53</b>	<b>0.4</b>
<b>Muskegon</b>	<b>Observed</b>	<b>51.2</b>	<b>2.90</b>	<b>Trace</b>
	<b>Departure from Normal</b>	<b>+0.5</b>	<b>-0.21</b>	<b>-0.2</b>
	<b>Normal</b>	<b>50.7</b>	<b>3.11</b>	<b>0.2</b>

# October 2014 Climate Summary for Southwest Lower Michigan

Average Temperature (°F)  
October 1, 2014 to October 31, 2014

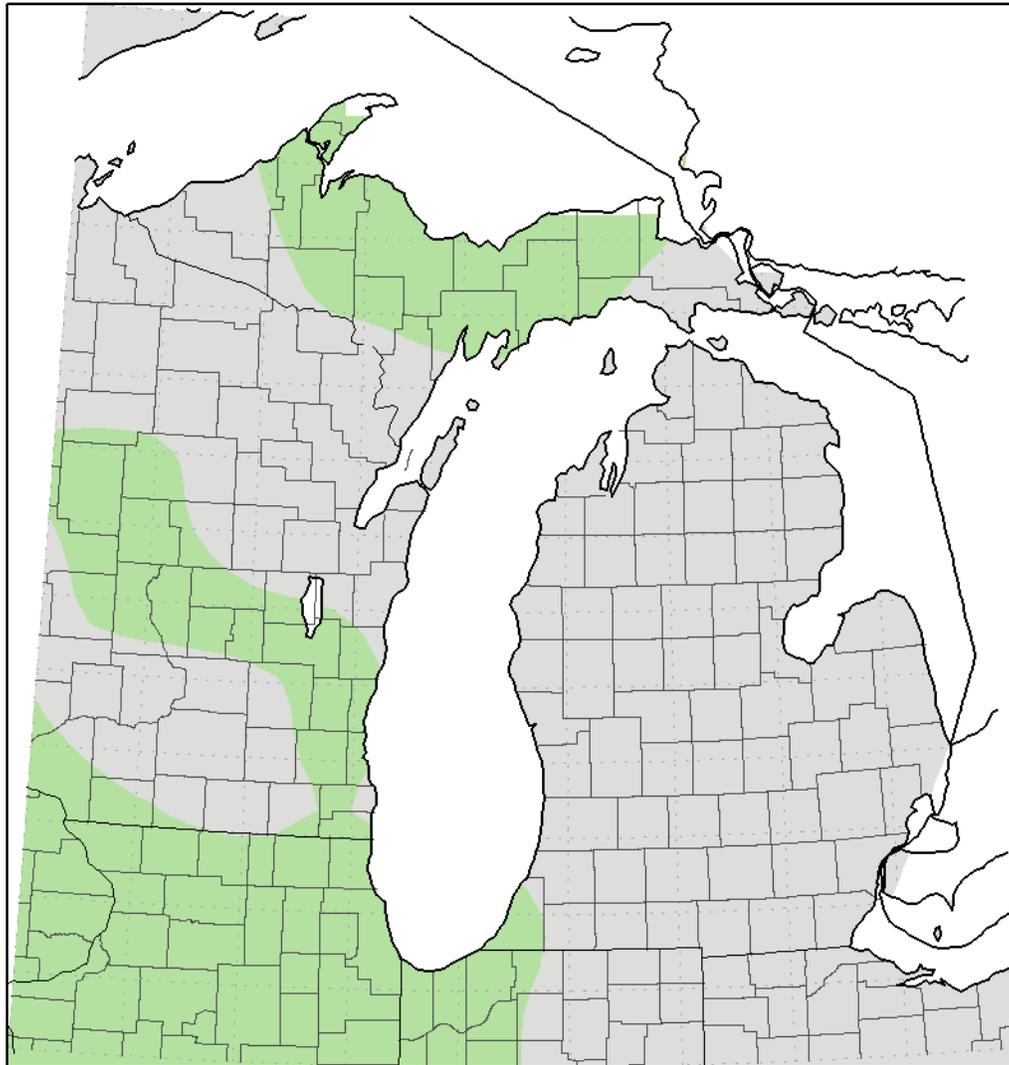


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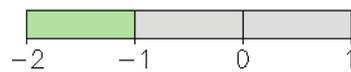
Figure 1. Average temperature (°F) for October 2014.

# October 2014 Climate Summary for Southwest Lower Michigan

Average Temperature (°F): Departure from Mean  
October 1, 2014 to October 31, 2014



Mean period is 1981-2010.

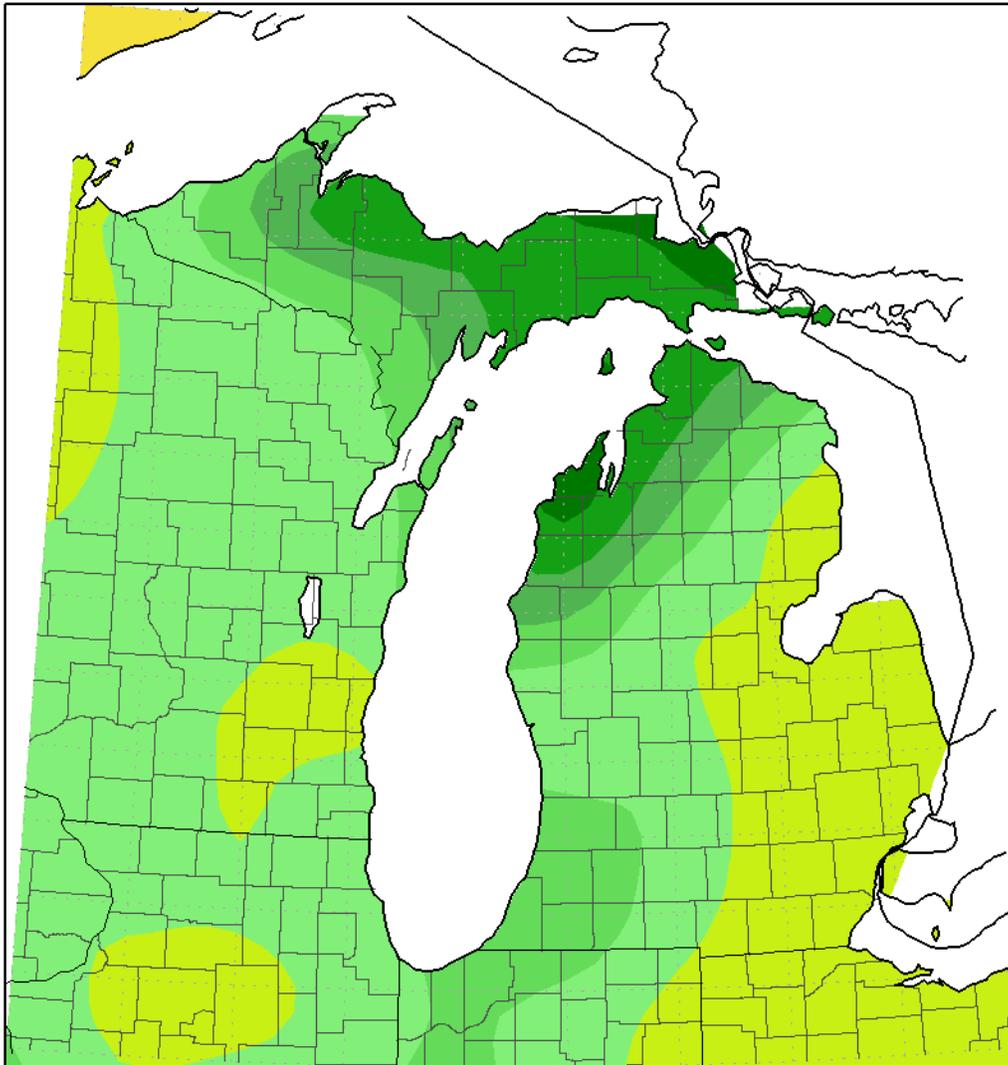


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Figure 2. Average temperature departure from normal (°F) for October 2014.

# October 2014 Climate Summary for Southwest Lower Michigan

Accumulated Precipitation (in)  
October 1, 2014 to October 31, 2014

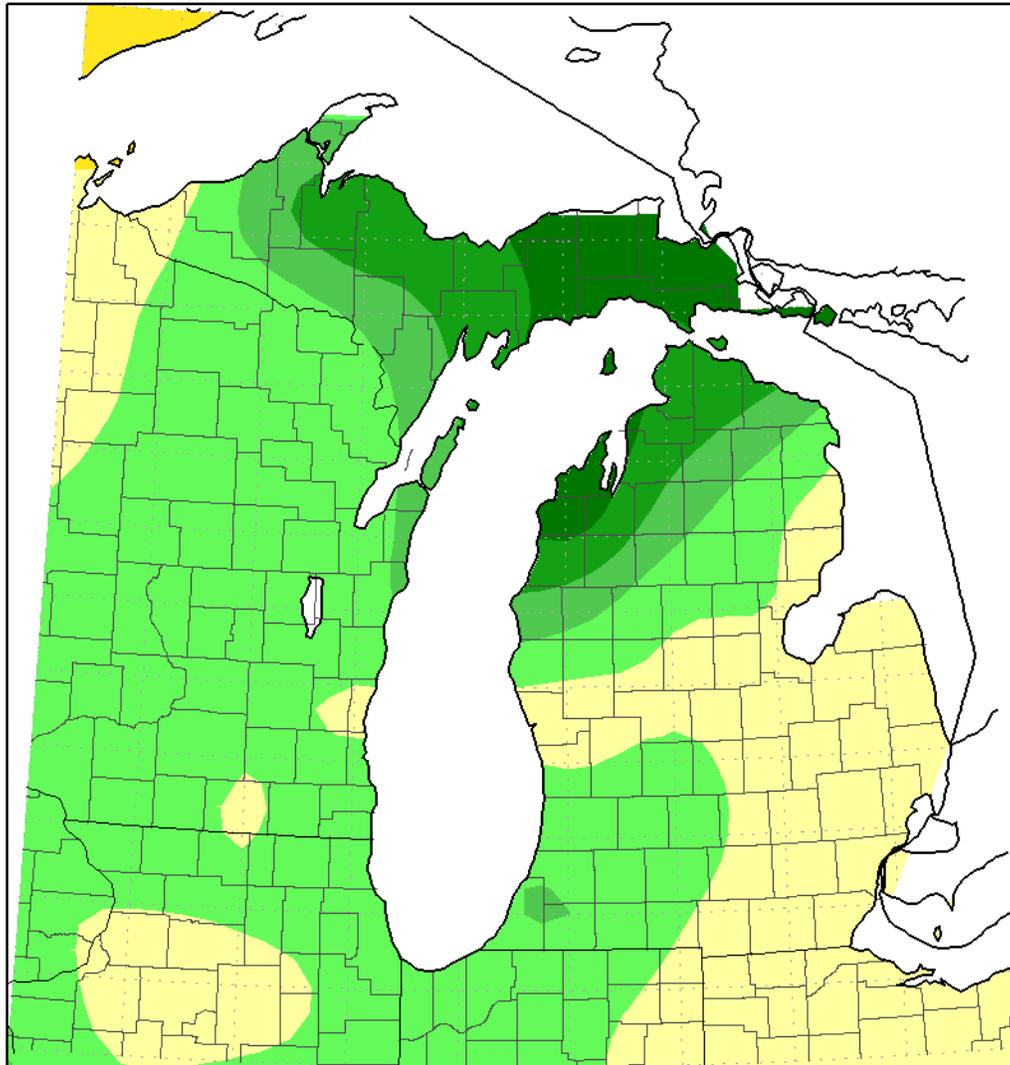


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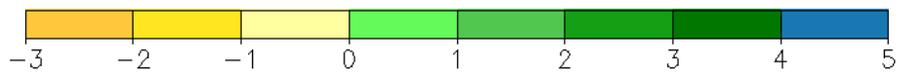
Figure 3. Total precipitation (in inches) for October 2014.

# October 2014 Climate Summary for Southwest Lower Michigan

Accumulated Precipitation (in): Departure from Mean  
October 1, 2014 to October 31, 2014



Mean period is 1981-2010.

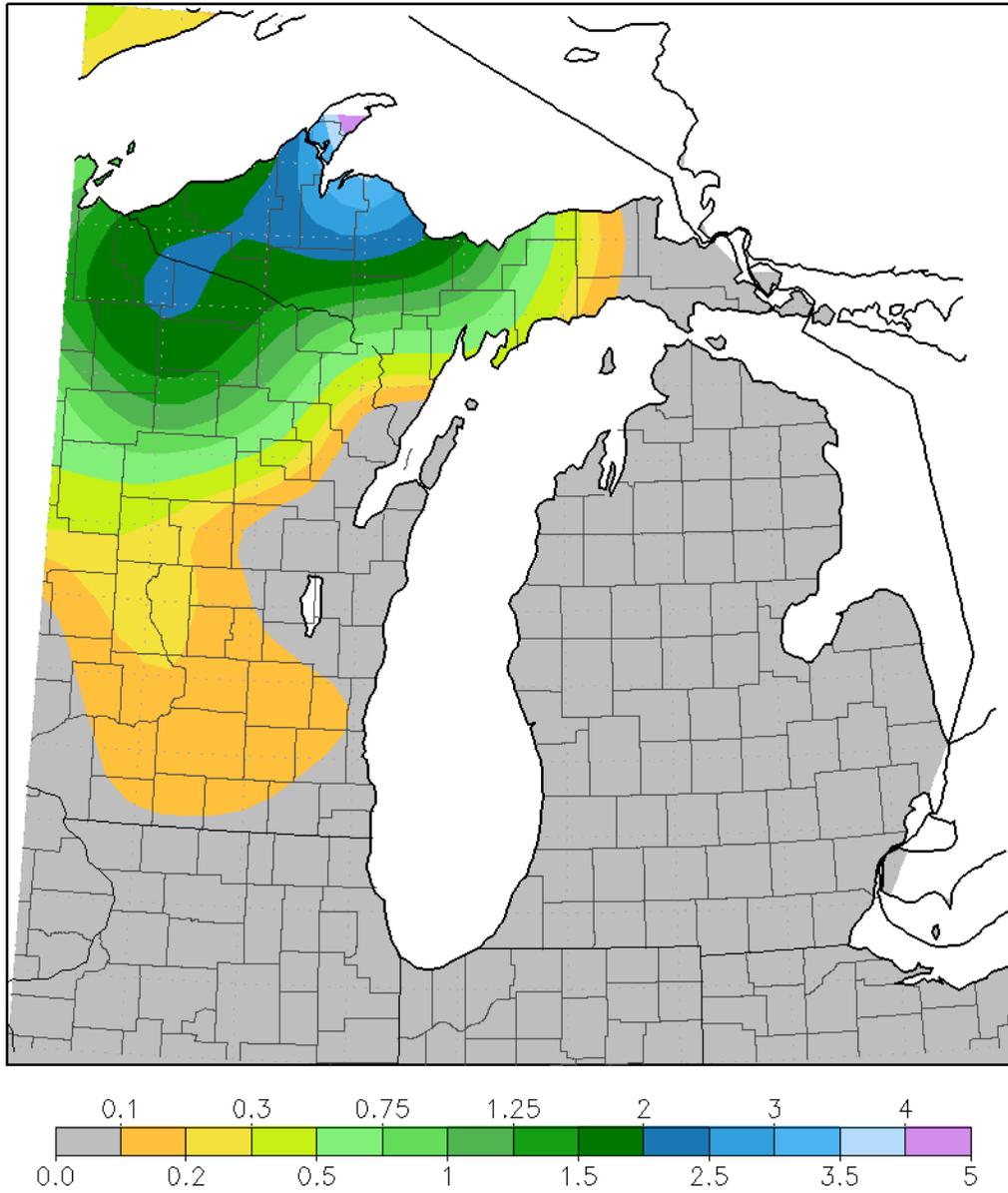


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Figure 4. Precipitation departure from normal (in inches) for October 2014.

# October 2014 Climate Summary for Southwest Lower Michigan

Accumulated Snowfall (in)  
October 1, 2014 to October 31, 2014

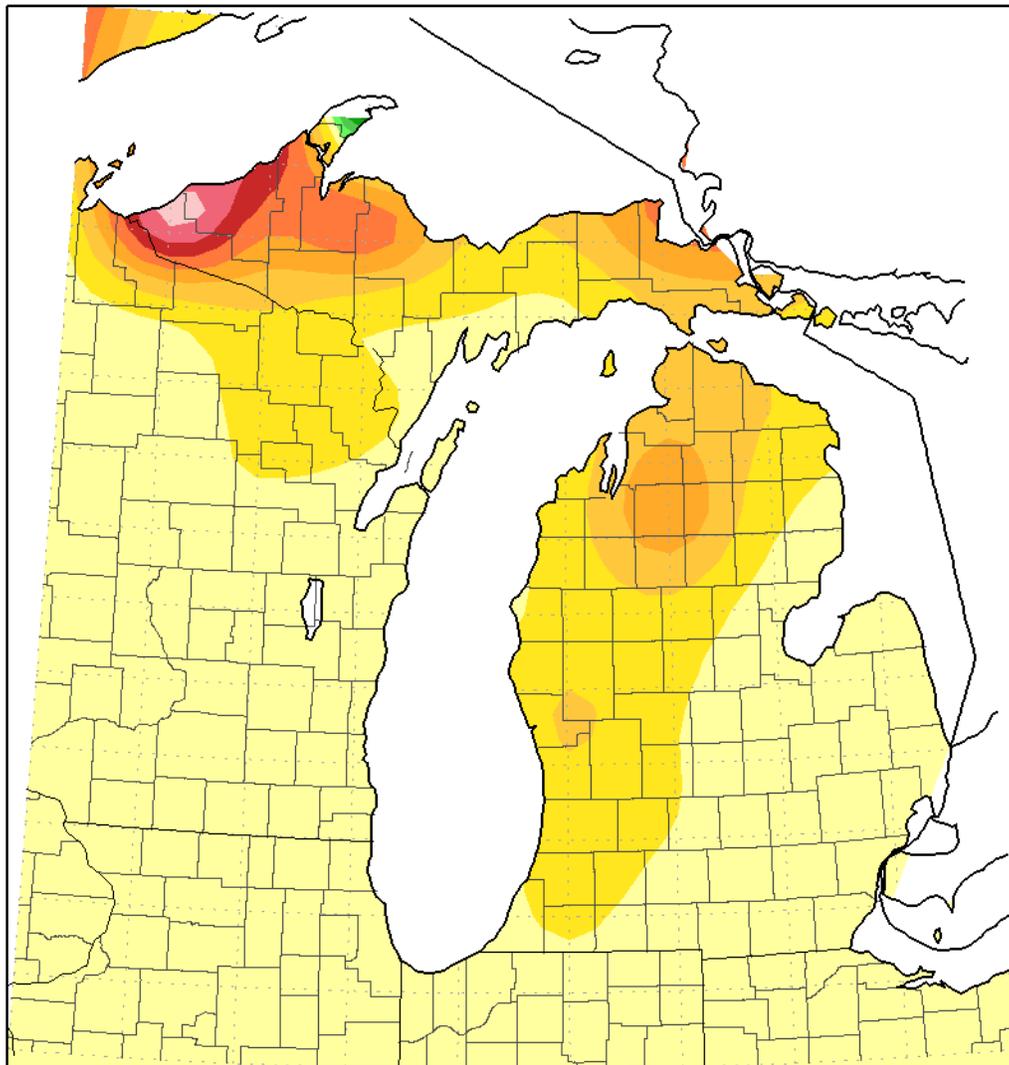


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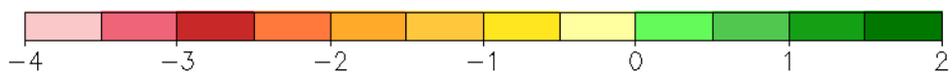
Figure 5. Accumulated snowfall (in inches) for October 2014.

# October 2014 Climate Summary for Southwest Lower Michigan

Accumulated Snowfall (in): Departure from Mean  
October 1, 2014 to October 31, 2014



Mean period is 1981-2010.



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Figure 6. Snowfall departure from normal (in inches) for October 2014.