Meteorological Summer 2014 Climate Summary

(June 1 – August 31)

Location		Average Temperature (°F)	Precipitation (inches)	Warmest Temp. (°F)
Grand Rapids	Observed	69.8	13.25	89
	Normal	70.6	11.14	93
	Above/Below Normal	- 0.8	+ 2.11	- 4
Lansing	Observed	68.5	16.01	87
	Normal	69.6	9.52	93
	Above/Below Normal	- 1.1	+ 6.49	- 4
Muskegon	Observed	68.0	13.31	88
	Normal	69.1	8.31	90
	Above/Below Normal	- 1.1	+ 5.00	- 2

Highlights

June 18

Record daily rainfall at Muskegon & Grand Rapids

June 30-July 1

70-90 mph winds near I-94

July 6

4 tornadoes including Wyoming-Kentwood EF-1

July 27

Widespread large hail, 2” diameter in Cooper Township

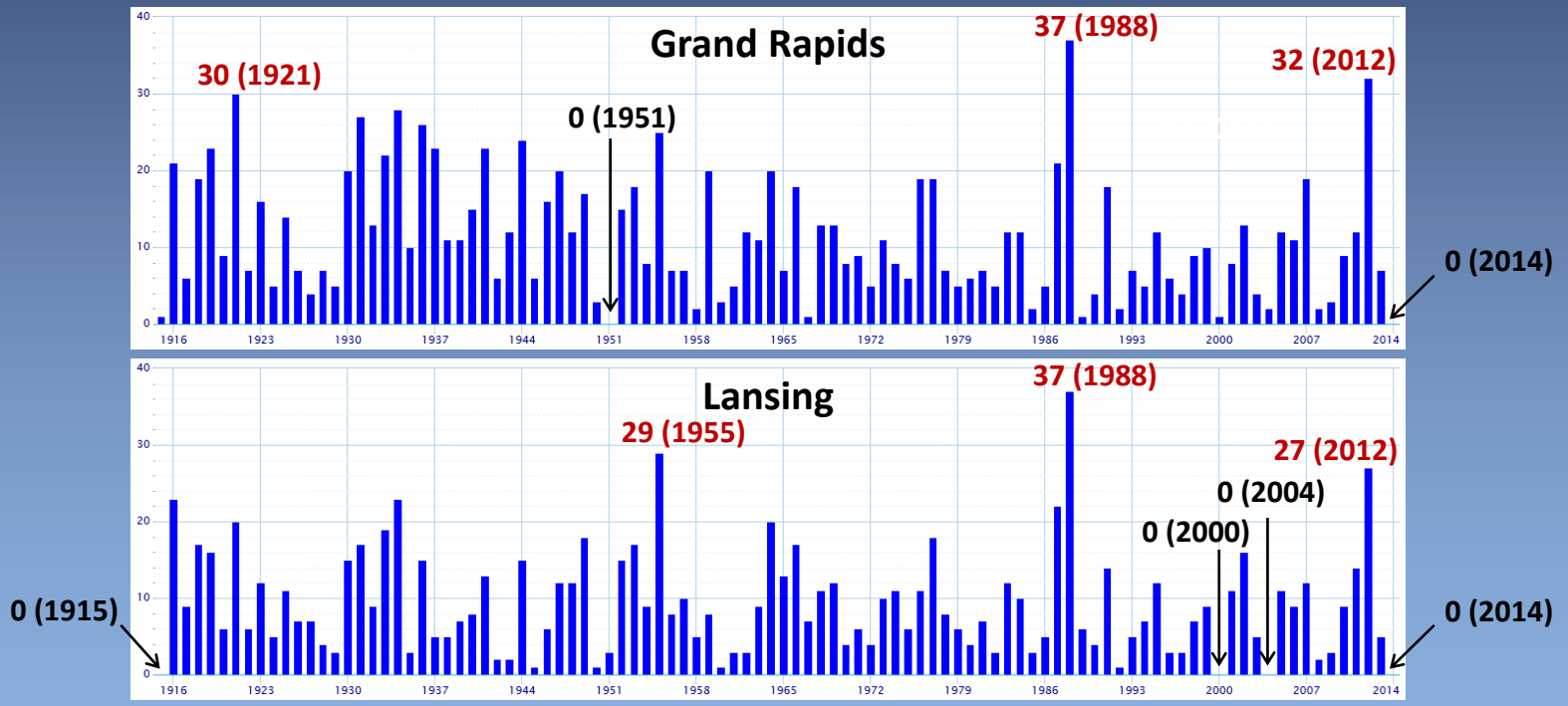
Click on dates for more details

Lack of 90° Days

Grand Rapids, Lansing, Muskegon, and Jackson did not reach 90° through August 31

- **Grand Rapids: first time since 1951**
- **Lansing: first time since 2004**

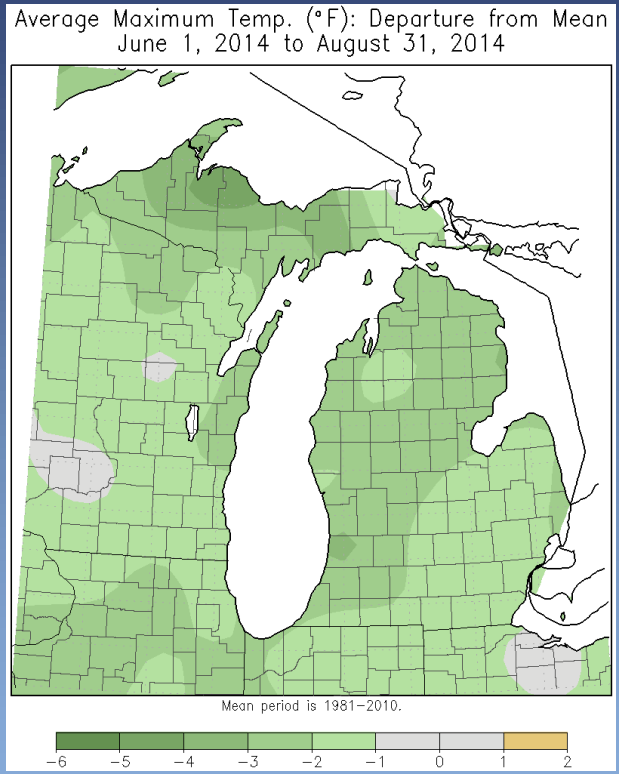
Number of 90° Days Through Aug. 31, By Year (1915-2014)



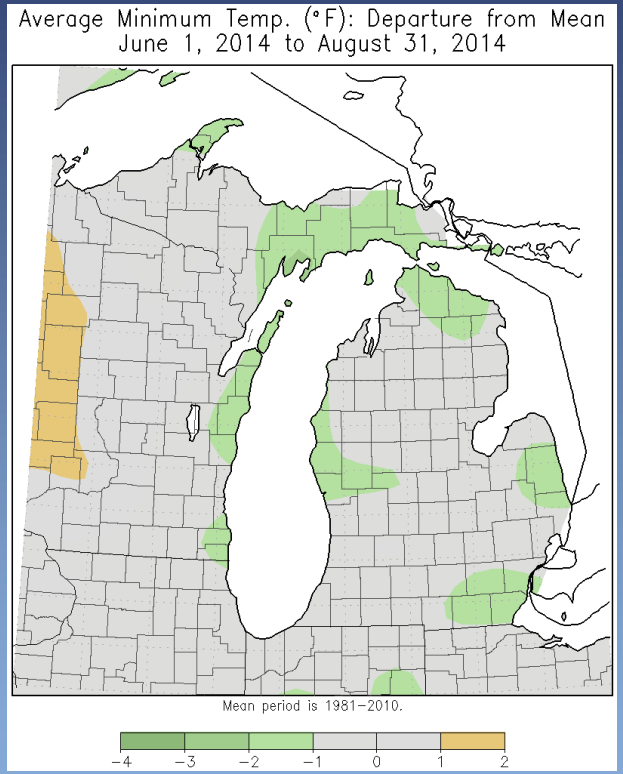
Kalamazoo, Battle Creek, and Holland reached or exceeded 90°

Compared to 1981-2010 Normals

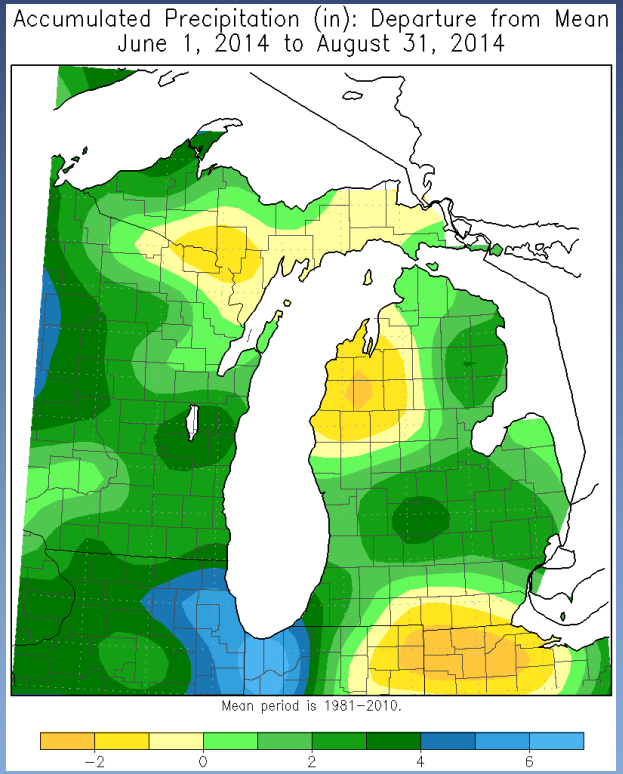
High Temperature Departure From Normal



Low Temperature Departure From Normal



Precipitation Departure From Normal



Maps provided by the Midwestern Regional Climate Center

Ranking the Last 10 Summers

Grand Rapids

1981-2010 normal: 70.6

Rank	Year	Mean Avg Temperature
1	2012	73.6
2	2010	73.3
3	2011	72.7
4	2005	72.6
5	2007	72.1
6	2006	71.2
7	2008	70.6
8	2013	70.4
9	2014	69.9
10	2009	67.9

Lansing

1981-2010 normal: 69.6

Rank	Year	Mean Avg Temperature
1	2005	72.8
2	2012	72.6
3	2010	72.5
4	2011	71.4
5	2007	70.2
6	2006	70.1
7	2013	69.4
-	2008	69.4
9	2014	68.5
10	2009	66.9

Muskegon

1981-2010 normal: 69.1

Rank	Year	Mean Avg Temperature
1	2010	72.6
2	2012	72.4
3	2005	71.6
4	2011	71.4
5	2006	70.0
6	2007	69.3
7	2013	69.1
8	2014	68.0
-	2008	68.0
10	2009	66.6