## **October 2008 Summary**

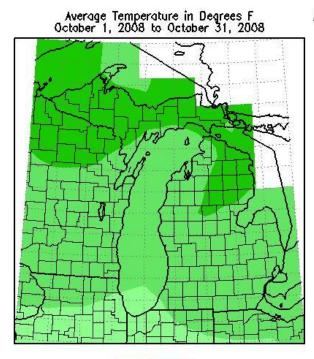
## By Jānis (John) Laurens

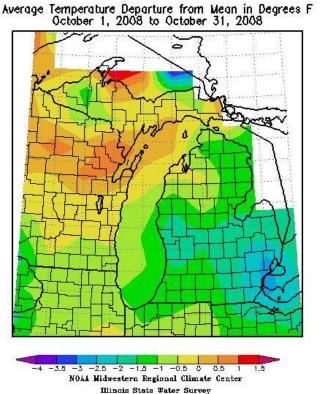
October 2008 will be remembered for lacking severe weather events and also lacking any heavy precipitation events, in stark contrast to September 2008. In fact, there wasn't a single calendar day in Grand Rapids, Lansing or Muskegon for which an inch or more of precipitation was reported.

Temperatures averaged above five to ten degrees below normal during the first week of October, prior to a significant warmup during the second week. In fact temperatures averaged approximately ten to twenty degrees above normal from the 11th through the 13th. Temperatures returned to fairly close to normal for the majority of the second half of the month, although a brief cold snap occurred on the 27th and 28th.

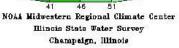
A convective event on the 26th resulted in numerous reports of a quarter to half inch diameter hail, and isolated reports of hail to near three quarters of an inch in diameter. It was also windy on the 26th, and numerous coastal observation sites near Lake Michigan had wind gusts to around 50 mph. Peak wind gusts of around 40 to 50 mph were also reported on the 14th.

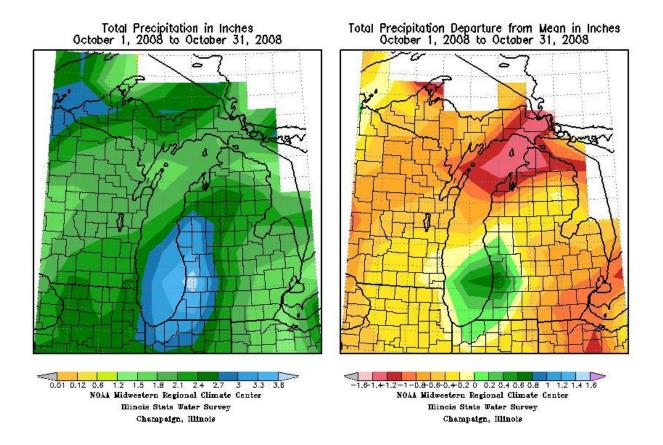
The graphics below (courtesy Midwest Regional Climate Center) show statewide temperature and precipitation trends for October 2008.





Champeign, Illinois





CLIMATE NORMAL PERIOD 1971 TO 2000						
CLIMATE RECORD	PERIOD 18	92 TO 200	8			
WEATHER	OBSERVED VALUE				VALUE	
TEMPERATURE (F) RECORD HIGH LOW	89	10/01/189 10/30/198				
		10/21/197	4			
HIGHEST LOWEST AVG. MAXIMUM AVG. MINIMUM MEAN DAYS MAX >= 90 DAYS MAX <= 32 DAYS MIN <= 32 DAYS MIN <= 0	27 59.7 40.0 49.9	10/12 10/30	MM 59.6 40.2	-0.2		10/08 10/28
PRECIPITATION TOTALS DAILY AVG. DAYS >= .01 DAYS >= .10 DAYS >= .50 DAYS >= 1.00	2.71				10	
GREATEST 24 HR. TOTAL	0.89	10/24 TO	10/25			
SNOWFALL (INCHE TOTALS SINCE 7/1 SNOWDEPTH AVG. DAYS >= 1.0	т Т		0.6 MM 0.2	MM	0.0	
DA15 /- 1.0	0		0.2	0.2	0	
GREATEST SNOW DEPTH 24 HR TOTAL		MM 10/26 TO	10/26		0	MM
DEGREE_DAYS HEATING TOTAL SINCE 7/1 COOLING TOTAL SINCE 1/1	534 5 635		664 5 613		359	
WIND (MPH) AVERAGE WIND SPEED 8.0 HIGHEST WIND SPEED/DIRECTION 33/250 DATE 10/26 HIGHEST GUST SPEED/DIRECTION 41/260 DATE 10/26						

THE GRAND RAPIDS MI CLIMATE SUMMARY FOR THE MONTH OF OCTOBER 2008

SKY COVER POSSIBLE SUNSHINE (PERCENT) 47 NUMBER OF DAYS FAIR 9 NUMBER OF DAYS PC 16 6 NUMBER OF DAYS CLOUDY AVERAGE RH (PERCENT) 68 WEATHER CONDITIONS. NUMBER OF DAYS WITH 0 THUNDERSTORM 1 MIXED PRECIP 3 RAIN 13 FREEZING RAIN 0 HAIL HEAVY RAIN 8 LIGHT RAIN 0 

 0
 HAIL
 0

 0
 SNOW
 0

 0
 SLEET
 0

 17
 FOG W/VIS <= 1/4 MILE</td>
 0

LT FREEZING RAIN HEAVY SNOW LIGHT SNOW FOG 8 HAZE - INDICATES NEGATIVE NUMBERS. R INDICATES RECORD WAS SET OR TIED. MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.

Remarks: Trace of snow on the 26th was actually hail.

IND MADING MI	CHIMIN	DOMINICI	FOR THE HC			
CLIMATE NORMAL CLIMATE RECORD WEATHER	PERIOD 1 OBSERVE	864 TO 2 D	2008 NORMAL S) VALUE		VALUE	
TEMPERATURE (F RECORD HIGH LOW	) 90 10	10/03/: 10/21/:	 1898 1895			
HIGHEST	80	10/22/: 10/12	1868 MM	MM	86	
LOWEST AVG. MAXIMUM AVG. MINIMUM MEAN DAYS MAX >= 90 DAYS MAX <= 32 DAYS MIN <= 32 DAYS MIN <= 0	38.2 48.4 0 0 7	10/30	MM MM	-0.4 -0.8 MM MM MM	47.5 56.4 0 3	10/07 10/28
	2.12 0.07 12 6 1		MM MM	MM MM MM	8 3	
GREATEST 24 HR. TOTAL	0.53		FO 10/08 FO 10/08			
SNOWFALL (INCH) TOTALS SINCE 7/1 SNOWDEPTH AVG. DAYS >= 1.0	T T		ММ	-0.4 MM -0.2	0.0	
GREATEST SNOW DEPTH 24 HR TOTAL	О Т		FO 10/27		0	MM
DEGREE_DAYS HEATING TOTAL SINCE 7/1 COOLING TOTAL SINCE 1/1	625 1 542		724 5 558	-99 -4 -16	306 453 48 773	
WIND (MPH) AVERAGE WIND S HIGHEST WIND S HIGHEST GUST S	PEED PEED/DIRE	CTION	7.3 32/310	DATE	10/14	

THE LANSING MI CLIMATE SUMMARY FOR THE MONTH OF OCTOBER 2008

SKY COVERPOSSIBLE SUNSHINE (PERCENT)MMNUMBER OF DAYS FAIR10NUMBER OF DAYS PC12NUMBER OF DAYS CLOUDY9

AVERAGE RH (PERCENT) 69

WEATHER CONDITIONS.	NUMBER OF	DAYS WITH	
THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	2	RAIN	7
LIGHT RAIN	15	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	1
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	18	FOG W/VIS <= 1/4 MILE	0
HAZE	1		

INDICATES NEGATIVE NUMBERS.
 R INDICATES RECORD WAS SET OR TIED.
 MM INDICATES DATA IS MISSING.
 T INDICATES TRACE AMOUNT.
 Remarks: Trace of snow on the 26th was actually hail.

CLIMATE NORMAL PERIOD 1971 TO 2000 CLIMATE RECORD PERIOD 1895 TO 2008						
	VALUE	D DATE(S)	VALUE	FROM NORMAL		DATE(S)
TEMPERATURE (F)					•••••	
RECORD HIGH LOW	86 19	10/15/189 10/29/190				
HIGHEST LOWEST	80 28	10/12 10/30 10/29 10/22	MM MM	MM MM	83 29	10/05 10/28
AVG. MAXIMUM AVG. MINIMUM MEAN DAYS MAX >= 90 DAYS MAX <= 32 DAYS MIN <= 32 DAYS MIN <= 0	58.7 40.0 49.3 0 0 4 0	10, 22	58.7 40.6 49.7 MM MM MM MM	-0.6 -0.4 MM	48.7	
PRECIPITATION ( TOTALS DAILY AVG. DAYS >= .01 DAYS >= .10 DAYS >= .50 DAYS >= 1.00	INCHES) 3.40 0.11 13 9 3 0		2.80 0.09 MM MM MM MM	0.60 0.02 MM MM MM	2.42 0.08 14 9 1 0	
GREATEST 24 HR. TOTAL	1.16	10/07 TO	10/08			
SNOWFALL (INCHE TOTALS SINCE 7/1 SNOWDEPTH AVG. DAYS >= 1.0	IS) T T 0 0		0.6 MM 0.1	-0.6 MM -0.1	0.0 0 0	
GREATEST SNOW DEPTH 24 HR TOTAL	О Т	MM 10/27 TO	10/27		0	MM
DEGREE_DAYS HEATING TOTAL SINCE 7/1 COOLING TOTAL SINCE 1/1	576 2 406		686 3 487	-1 -81	417 42 673	
WIND (MPH) AVERAGE WIND SPEED 8.4 HIGHEST WIND SPEED/DIRECTION 29/210 DATE 10/25 HIGHEST GUST SPEED/DIRECTION 43/290 DATE 10/14						

THE MUSKEGON MI CLIMATE SUMMARY FOR THE MONTH OF OCTOBER 2008

SKY COVER<br/>POSSIBLE SUNSHINE (PERCENT)MMNUMBER OF DAYS FAIR18<br/>7<br/>NUMBER OF DAYS PCNUMBER OF DAYS CLOUDY6AVERAGE RH (PERCENT)70WEATHER CONDITIONS. NUMBER OF DAYS WITH<br/>THUNDERSTORM0MIXED PRECIP0HEAVY RAIN4RAIN9LIGHT RAIN16FREEZING RAIN0LIGHT SNOW0SNOW1LIGHT SNOW0SLEET0FOG16FOG W/VIS <= 1/4 MILE</td>0HAZE5

INDICATES NEGATIVE NUMBERS.
 R INDICATES RECORD WAS SET OR TIED.
 MM INDICATES DATA IS MISSING.
 T INDICATES TRACE AMOUNT.
 Remarks: Trace of snow on the 26th was actually hail.