

## IOWA PRELIMINARY MONTHLY WEATHER SUMMARY – JUNE 2011

General Summary. Iowa temperatures averaged 70.4° or 0.6° above normal while precipitation totaled 6.25 inches or 1.61 inches above normal. This ranks as the 53<sup>rd</sup> warmest and 27<sup>th</sup> wettest June among 139 years of records.

Temperatures. The wide swings in temperature that has characterized Iowa's weather over the past several months continued in June, but with less frequent fluctuations. Warmer than normal weather prevailed for seven of the first eight days of the month with temperatures reaching 100° at Atlantic, Little Sioux, Onawa, Shenandoah, Sioux City and Spencer on the 6<sup>th</sup> and again at Algona, Pocahontas and Swea City on the 7<sup>th</sup>. Cooler than usual weather predominated on 17 of the final 22 days of the month with Cresco reporting the lowest temperature of the month with a morning low of 42° on the 12<sup>th</sup>. Daytime high temperatures were only in the 60s across all or part of Iowa on the 9<sup>th</sup>-14<sup>th</sup>, 21<sup>st</sup>-23<sup>rd</sup> and 25<sup>th</sup>. However, very warm and humid weather returned for the last day of June with actual temperatures peaking at 97° at Sioux City while the heat index climbed to 111° at Des Moines on the 30<sup>th</sup>.

Cooling Degree Day Totals. Home air conditioning requirements, as estimated by cooling degree day totals, averaged 2% less than last June and 2% more than normal. Thus far this air conditioning season degree day totals are running 7% less than a year ago and the same as normal.

Precipitation. Relatively dry weather prevailed for the first week of June allowing the completion of nearly of all of the corn and soybean planting. However, rainfall was frequent and sometimes excessive from the 8<sup>th</sup> through the 22<sup>nd</sup>. Heaviest rains fell over northern Warren County on the 9<sup>th</sup>-10<sup>th</sup> with an unofficial two-day total of 9.31 inches just south of Norwalk. Rainfall frequently was heaviest over south central and southeast Iowa with record totals for any month set at Keosauqua (16.14 inches, old record 14.89 in June 1905 among 123 years of data) and at Bloomfield (14.60 inches, old record 14.31 in August 1970 among 92 years of records). Fortunately much of the heavy rain fell outside of the Missouri River watershed where excessive winter snowpack and very heavy spring rains in upper reaches of the basin brought record to near-record flooding along the Iowa-Nebraska border. A record crest on the Missouri was set at Plattsmouth, Nebraska (adjacent to Mills County, Iowa) on June 30 and at Nebraska City, Nebraska (adjacent to Fremont County, Iowa) on June 28. Meanwhile rainfall was less than normal over much of northeastern Iowa where Cresco reported their driest June since 1989 with only 2.39 inches of rain.

Severe Weather. The very active 2011 severe weather season in Iowa finally slowed down a bit in June with a preliminary tornado total of eight (30-year average of 15). The most widespread severe weather outbreaks for the month came on the night of the 20<sup>th</sup> (23 counties, mostly over the west) and the night of the 26<sup>th</sup> (31 counties, all southwest one-half).

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