

## IOWA MONTHLY WEATHER SUMMARY – JULY 2003

General Summary. Temperatures averaged 73.2° or 0.6° below normal while precipitation averaged 4.23 inches or 0.02 inches less than normal. This ranks as the 49<sup>th</sup> coolest and 46<sup>th</sup> wettest July among 131 years of state records.

Temperatures. July began with hot weather as temperatures averaged above normal on each of these first seven days of the month. The hottest of the early month weather arrived on the 3<sup>rd</sup> when 98° temperatures were reported at Ankeny, Mapleton and Shenandoah. Mild weather was the rule for most of the second week of July with afternoon temperatures only in the 70's over much of the state from the 8<sup>th</sup> through the 12<sup>th</sup>. Temperatures during the second half of the month were much more variable. Afternoon highs reached 97° at Glenwood, Logan and Sidney on the 17<sup>th</sup> while Lowden reported a morning low of 47° on the 19<sup>th</sup>. Hot weather returned to southwest Iowa on the 20<sup>th</sup> with a 97° maximum at Shenandoah. However, unseasonably cool weather was the rule from the 21<sup>st</sup> through the 24<sup>th</sup> with Cresco reporting the month's lowest temperature on the 24<sup>th</sup> with 46°. Finally, the hottest weather so far this year blanketed western Iowa on the 26<sup>th</sup> with official temperatures reaching 101° at Shenandoah and Sidney while Sioux City reported a heat index of 114° (actual temperature of 96° with a dew point temperature of 79°). For the month as a whole, temperatures averaged above normal across about the southwest one-half of Iowa and were below normal across the north and east.

Cooling Degree Days. Home air conditioning requirements, as estimated by cooling degree day totals, averaged 7% less than normal and 29% less than last July. So far this season cooling degree day totals are running 22% less than normal and 38% less than last year at this time.

Precipitation. Wet weather was the rule over most of Iowa during the first nine days of July as an average of just over three inches of rain fell across the state. However, much drier weather prevailed for the remainder of the month. An average of only 0.98 inches of rain fell over the last 22 days of the month with unusually dry conditions in portions of south central and southwest Iowa. Monthly rain totals were near or above normal across most of the northern two-thirds of the state and well below normal over parts of southwest and south central Iowa. July rainfall totals varied from only 0.98 inches at Creston up to 9.30 inches at Donnellson.

Severe Weather (based upon preliminary sources). The relatively tranquil 2003 severe weather season that Iowa had been experiencing came to an end in early July. High winds were reported from 32 Iowa counties (mostly north one-third) during the early morning of the 3<sup>rd</sup>. High winds and large hail were reported from another 25 Iowa counties from east to west across the central one-third of the state on the night of the 4<sup>th</sup>. Another 18 counties, mostly in the south and southwest, report high winds and hail on the night of the 5<sup>th</sup> with 15 more reporting severe weather (mostly in the northeast) on the night of the 6<sup>th</sup>. Severe weather continued on the 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> although it was not as widespread. However, very large hail pelted Jasper and eastern Polk counties on the afternoon and evening of the 7<sup>th</sup>. The wild weather quieted down until the 20<sup>th</sup> when severe weather was reported from 22 counties. A pair of tornadoes touched down on the night of the 20<sup>th</sup> in Linn County resulting in significant damage to nearly 200 homes in Covington and Cedar Rapids while associated winds knocked out power to 35,000 Alliant Energy customers. Finally, large hail was reported from 12 northern and eastern Iowa counties on the 31<sup>st</sup>. Additionally there were isolated reports of severe weather on the 14<sup>th</sup>, 18<sup>th</sup> and 27<sup>th</sup>.

Harry J. Hillaker, State Climatologist  
Iowa Dept. of Agriculture & Land Stewardship  
Wallace State Office Bldg.  
Des Moines, IA 50319  
Phone: (515) 281-8981; E-mail: [harry.hillaker@idals.state.ia.us](mailto:harry.hillaker@idals.state.ia.us)