



## IOWA MONTHLY WEATHER SUMMARY – SEPTEMBER 2015

General Summary. Temperatures averaged 68.4° or 5.2° above normal while precipitation totaled 4.13 inches or 0.75 inches above normal. This ranks as the 7<sup>th</sup> warmest and 47<sup>th</sup> wettest September among 143 years of state records. A warmer September has been recorded only once since 1939 (1998 at 68.6°).

Temperatures. Above normal temperatures were the rule for most of the month as only seven days (11<sup>th</sup>-13<sup>th</sup>, 18<sup>th</sup>-20<sup>th</sup> and 30<sup>th</sup>) averaged cooler than usual. The heat was characterized more by persistence than extremes as no daily record high temperatures were set. The first seven days of the month were the warmest week of the year with temperatures averaging 10.6° above normal. Afternoon high temperatures reached into the mid-nineties in some areas each day from the 3<sup>rd</sup> through the 6<sup>th</sup>. Highest readings were 96° temperatures at Burlington 2 S, Glenwood, Muscatine and Sidney on the 6<sup>th</sup>. On the other extreme, Cresco and Estherville recorded 33° minimums on the morning of the 30<sup>th</sup>.

Cooling Degree Day Totals. Home air conditioning requirements, as estimated by cooling degree day totals, averaged 184% greater than last September and 115% greater than normal. Cooling degree day totals for the year-to-date are running 15% greater than last year at this time and 3% less than normal.

Precipitation. Rain amounts were highly variable across Iowa with totals varying from 11.63 inches at Glenwood to only 0.83 inches near Badger (Webster County). Glenwood's total was second only to a 12.64 inch total in 1965 among 119 years of September records at that location. Monthly rain totals were well above normal over most of the southwest one-half of Iowa while small areas of far southeast and far northeast Iowa, as well as the Fort Dodge area, saw less than one-third of normal rainfall. Torrential rains fell over extreme western Iowa, centered upon the morning of the 23<sup>rd</sup>, with storm totals of 9.28 inches on the north edge of Council Bluffs and 6.80 inches at Glenwood. Excessive rains also fell on the night of the 6<sup>th</sup> over northern Guthrie/southern Greene counties, as well as Taylor and Appanoose counties, with Bagley reporting the largest total during this event with 6.25 inches.

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# September 2015

## WEATHER BY DISTRICTS

DISTRICT	TEMPERATURE (F)		COOLING DEGREE DAYS				PRECIPITATION (inches)			
	September 2015		September 2015		Since Jan., 1, 2015		September 2015		Since Jan.1, 2015	
	Average	Departure*	Average	Departure*	Average	Departure*	Average	Departure*	Average	Departure*
Northwest	67.1	+5.3	138	+75	692	-3	3.04	-0.19	26.60	+0.88
North Central	67.2	+5.9	136	+81	625	-3	3.23	+0.04	30.75	+1.92
Northeast	67.7	+5.8	151	+89	634	-22	3.09	-0.26	26.22	-3.69
West Central	67.6	+4.5	143	+65	727	-77	5.06	+1.90	35.50	+7.66
Central	68.5	+5.4	164	+88	734	-43	3.99	+0.67	35.11	+4.84
East Central	69.2	+5.4	182	+100	808	-14	4.25	+0.93	31.48	+1.85
Southwest	69.6	+4.8	190	+92	906	-34	6.98	+3.57	39.77	+9.93
South Central	69.5	+5.3	190	+100	897	+16	4.97	+1.15	36.94	+5.72
Southeast	70.4	+5.0	211	+104	977	-20	3.06	-0.72	32.10	+0.90
STATE	68.4	+5.2	165	+87	767	-24	4.13	+0.75	32.53	+3.25

\* Departures are computed from 1981-2010 normals.

The weather data in this report are based upon information collected by the U. S. Dept. of Commerce, NOAA National Weather Service.

State Climatologist, Iowa Dept. of Agriculture & Land Stewardship

### COUNTY PRECIPITATION ESTIMATES, SEPTEMBER 2015 (inches)

