



IOWA PRELIMINARY MONTHLY WEATHER SUMMARY – FEBRUARY 2016

General Summary. Iowa temperatures averaged 28.1° or 4.1° above normal while precipitation totaled 0.92 inches or 0.13 inches less than normal. This ranks as the 31st warmest and 65th driest February among 144 years of records. Snowfall averaged 9.0 inches or 2.2 inches above normal to rank as the 37th snowiest February among 129 years of records. This was the seventh consecutive snowier than normal February.

Temperatures. Bitter cold weather made a relatively brief appearance in Iowa during February with subzero temperatures reported on only the 4th, 5th and 10th through 13th. Temperatures were above average every day from the 15th through the end of the month with only a handful of locations seeing readings dip below 20° during the second one-half of February. Cresco reported the month's lowest temperature with a -17° reading on the morning of the 13th. Temperatures reached 73° at Shenandoah and Sidney on the 18th while Sidney reached 75° on the 27th. These are the highest February temperatures recorded in Iowa since 1999 (76° at Glenwood on Feb. 10). In response to the milder late-month weather soils began to thaw across central and southern Iowa on the 19th and were completely frost-free over about the southern one-half of Iowa at month's end. The late-month warmth also melted most of the snow cover that had persisted over northern Iowa since December 28. Some flooding occurred in response to the snowmelt and ice jams that resulted from the break-up of river ice.

Heating Degree Day Totals. Home heating requirements, as estimated by heating degree day totals, averaged 25% less than last February and 8% less than normal. Season-to-date degree day totals are running 17% less than last season at this time and 14% less than normal. The warmer weather and lower energy prices should result in considerably smaller heating bills this winter compared to recent years.

Precipitation. Over one-half of the month's precipitation fell very early in the month with the major winter storm of the 2nd-3rd. Heavy snow fell across the northwest one-half of Iowa with greatest amounts reported of 14.0 inches at Washta, 13.6 inches at Akron and 13.5 inches at Sheldon. However, only a cold rain fell across extreme southeast Iowa with this storm. There were very frequent light snow and/or rain events between the 3rd and 21st. The largest of these events came on the 13th-14th when 2 to 4 inches of snow fell over much of the northeast one-half of the state. However, winds gusts of 40 to 50 mph combined with light snowfall and deep snow cover left from the Groundhog Day storm system to create blizzard conditions over north central Iowa from the night of the 7th through the morning of the 9th. Finally, winter weather made a return visit late on the 29th into March 1st with 2 to 5 inches of snow falling across the northern one-third of the state. Overall monthly precipitation totals were well below normal over east central and southeast Iowa and well above normal over the northwest. February precipitation totals varied from 0.35 inches at Gilman and Toledo to 1.92 inches at Sheldon. Monthly snowfall totals varied from only 1.3 inches at Clarinda to 23.4 inches at Sheldon. Snow totals have been well above normal in three of the past four months in northwest Iowa.

Severe Weather. Wind gusts in the 50 to 60 mph range were common statewide on the 19th with Iowa City Airport reporting the highest gust at 63 mph.

Winter Summary. Temperatures over the three mid-winter months averaged 26.8° or 4.7° above normal while precipitation totaled 6.57 inches or nearly double the seasonal normal of 3.34 inches. This ranks as the wettest and 17th warmest winter among 143 years of state records. The last warmer winter came four years ago (2011-2012), averaging 1.1° warmer than this one. Despite slightly below normal precipitation in January and February these two months brought enough precipitation when combined with December 2015's record total to easily surpass the 6.00 inch total of the 1914-15 winter for the wettest on record.

Harry J. Hillaker
State Climatologist
Iowa Dept. of Agriculture & Land Stewardship
Wallace State Office Bldg.
Des Moines, IA 50319
Telephone: (515) 281-8981
E-mail: Harry.Hillaker@IowaAgriculture.gov

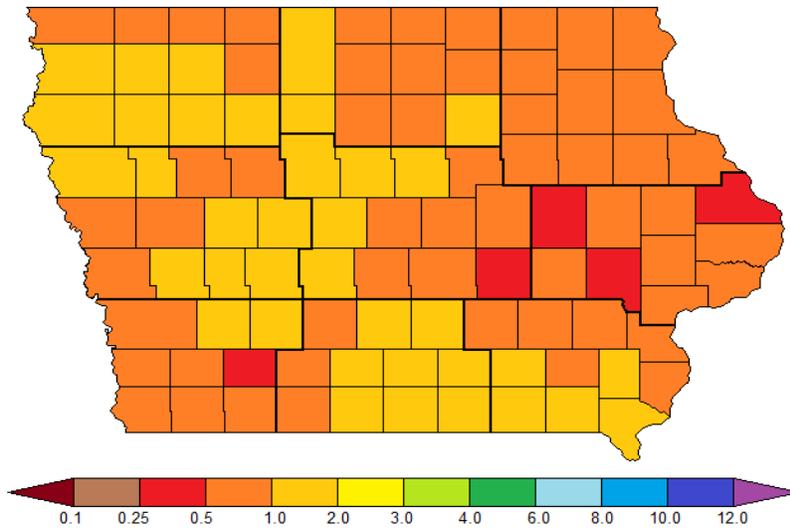
February 2016

WEATHER BY DISTRICTS

DISTRICT	TEMPERATURE (F)		HEATING DEGREE DAYS				PRECIPITATION (inches)				SNOWFALL Feb 2016 Average
	February 2016		February 2016		Since Jul., 1, 2015		February 2016		Since Jan. 1, 2016		
	Average	Departure*	Average	Departure*	Average	Departure*	Average	Departure*	Average	Departure*	
Northwest	25.4	+4.1	1139	-84	5084	-682	1.09	+0.45	1.55	+0.24	15.2
North Central	24.0	+3.6	1174	-74	5051	-779	0.92	+0.06	1.64	-0.05	11.9
Northeast	25.2	+3.4	1144	-64	4844	-754	0.82	-0.28	1.57	-0.55	9.3
West Central	28.0	+4.1	1076	-75	4786	-593	1.07	+0.25	1.66	+0.06	12.0
Central	27.8	+4.0	1073	-82	4602	-745	0.91	-0.11	1.64	-0.30	9.9
East Central	29.3	+4.1	1027	-86	4357	-747	0.54	-0.80	0.99	-1.51	3.9
Southwest	32.6	+5.7	928	-138	4276	-655	0.74	-0.30	1.38	-0.47	4.8
South Central	31.0	+4.4	971	-104	4222	-716	1.18	-0.06	1.82	-0.31	5.8
Southeast	31.5	+3.6	956	-82	3975	-741	0.96	-0.60	1.44	-1.39	5.4
STATE	28.1	+4.1	1062	-86	4610	-712	0.92	-0.13	1.53	-0.44	9.0

* Departures are computed from 1981-2010 normals. Monthly estimates are preliminary and are likely to change.
 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
 PRELIMINARY COUNTY PRECIPITATION ESTIMATES, FEBRUARY 2016 (inches)



State Climatologist, Iowa Dept. of Agriculture & Land Stewardship
 PRELIMINARY COUNTY SNOWFALL ESTIMATES, FEBRUARY 2016 (inches)

