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In Cooperation with the Iowa Department of Agriculture and Land Stewardship

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For the week ending

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December brought temperatures varying from more than 20 degrees below zero to the low 60's in some areas. Multiple storms during the month brought precipitation across Iowa in the form of snow, but that snow had low water content.

As December came to a close, moisture levels rated 12 percent very short, 39 percent short, 48 percent adequate, and 1 percent surplus. West Central Iowa was the driest in the state with 25 percent very short. The northeast reported the most moisture with 81 percent in adequate to surplus.

Grain movement rated 43 percent none, 32 percent light, 22 percent moderate, and 3 percent heavy. December had a few snowstorms and ice caused interruptions to grain transportation in some areas.

Availability of hay and roughage supplies was 14 percent short, 81 percent adequate, and 5 percent surplus with 52 percent of the supply in good condition. Livestock conditions have been reported as normal. Hog and pig losses in December were 10 percent light, 77 percent average, and 13 percent heavy. Some pork producers had heavy losses due to PEDV (Porcine Epidemic Diarrhea Virus). Cattle and calf losses were 16 percent light, 80 percent average, and 4 percent heavy.

IOWA PRELIMINARY WEATHER SUMMARY

Provided by Harry Hillaker, State Climatologist
Iowa Department of Agriculture & Land Stewardship

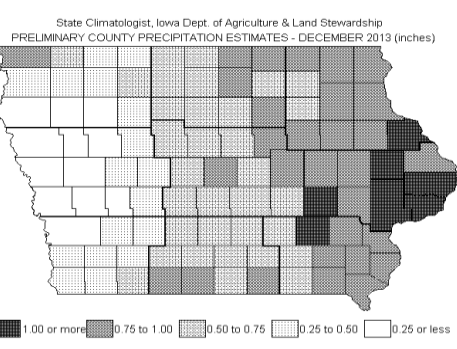
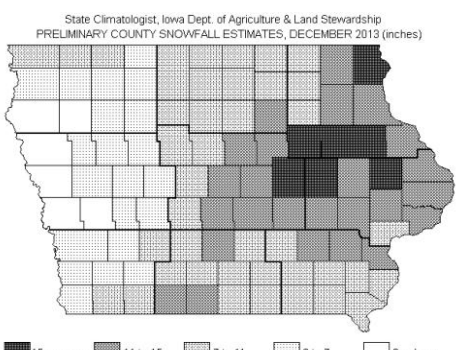
General Summary. Iowa temperatures averaged 17.3 degrees or 5.6 degrees below normal while precipitation totaled 0.64 inches or 0.71 inches below normal. This ranks as the 17th coolest and 30th driest December among 141 years of records. A colder December was last recorded in 2000 and a drier one in 2004.

Temperatures. December began with mild weather as temperatures averaged above normal for the first four days of the month with Shenandoah reaching 62 degrees on the 2nd. However, cold weather was the rule for most of the month with temperatures averaging more than twenty degrees below normal on the 7th, 9th, 23rd and 24th. Osceola reported the lowest official temperature in the state with a

-27 degrees reading on the morning of the 24th while Sheldon had the lowest wind chill with a -38 degrees reading on the morning of the 11th. Daytime high temperatures remained below zero in some areas on the 6th, 23rd, 29th and 31st. Much warmer air briefly edged into far western Iowa late in the month with daily record highs set on the 27th and 28th. A strong cold front, with northwest winds gusting to 61 mph, barreled into northwest Iowa during the afternoon of the 28th with the temperature at Sioux City falling from 62 degrees at 3:07 p.m. to -3 degrees at 8:43 the next morning (a 65 degrees drop in less than 18 hours). The combination of cold weather and dry ground allowed soils to freeze to a depth of from 7 to 15 inches by month's end. Snow cover at month's end varied from little, if any, in the far southwest to 8 to 10 inches across the northeast. However, the mostly dry, fluffy snow has a low water content of under an inch liquid equivalent.

Heating Degree Day Totals. Home heating requirements, as estimated by heating degree day totals, averaged 27 percent greater than last December and 13 percent greater than normal. Thus far this heating season (since July 1), heating requirements are up 13 percent from last season and 7 percent from normal. This has been the coldest start to the heating season in 13 years.

Precipitation. Precipitation was relatively frequent across the state but amounts were mostly light. Monthly totals were below normal at all reporting points varying from 0.06 inches at Logan (their third lowest December total among 145 years of record) to 1.29 inches at Clinton. The month's largest precipitation event came on the 21st-22nd with snow falling across the southeast two-thirds of Iowa. Greatest snow totals with this storm occurred in south central Iowa with nine inch totals at Blockton and Lamoni. Other notable events came on the 8th when snow fell statewide with a maximum total of 5.3 inches at Des Moines. Finally, a large winter storm just clipped the far southeast corner of Iowa on the 13th-14th with seven inches of snow at Keokuk. Monthly snow totals varied from only 1.7 inches at Logan to 18.9 inches at Waterloo. The statewide average snowfall was 9.3 inches or one inch above normal. This ranks as the 33rd greatest December total among 127 years of records.



Hay/Roughage Availability as of December 29, 2013

Item	Short (Percent)	Adequate (Percent)	Surplus (Percent)
Hay/Roughage	14	81	5

Hay/Roughage Quality as of December 29, 2013

Item	Poor (Percent)	Fair (Percent)	Good (Percent)
Hay/Roughage	8	40	52

Post-Harvest Conditions as of December 29, 2013

Item	None (Percent)	Light (Percent)	Moderate (Percent)	Heavy (Percent)
Grain movement	43	32	22	3

Snow Cover for the Month of December

Item	Districts									State	Last Month	Last Year
	NW	NC	NE	WC	C	EC	SW	SC	SE			
Snow cover	(Inches) 3	(Inches) 4	(Inches) 5	(Inches) 0	(Inches) 2	(Inches) 4	(Inches) 2	(Inches) 3	(Inches) 2	(Inches) 3	(Inches) NA	(Inches) 5

December, 2013 Weather Summary For Iowa, Prepared by Iowa Environmental Mesonet

STATION	AIR TEMPERATURE				PRECIPITATION			HDD TOT	HDD DFN	DAYS OF 32 COLD	DAYS OF 28 COLD
	HI	LO	AVG	DFN	TOTAL	DFN	DAYS				
North West District											
Estherville	51	-14	13	-6	0.17	-0.61	4	1,608	194	31	31
Sioux Center	61	-11	16	-6	0.38	-0.43	14	1,508	176	31	31
Spencer	55	-14	15	-5	0.44	-0.28	11	1,558	162	31	31
Spirit Lake	52	-17	13	-7	0.67	-0.10	11	1,615	206	31	31
North Central District											
Britt	47	-15	14	-6	0.82	-0.27	15	1,573	186	31	30
Humboldt	52	-15	16	-5	0.93	-0.09	16	1,516	165	31	29
Mason City	42	-16	14	-7	0.49	-0.54	9	1,588	202	31	30
Osage	41	-15	14	-6	0.84	-0.42	15	1,578	199	31	30
North East District											
Decorah	42	-14	15	-7	1.45	0.28	17	1,546	206	30	30
Dubuque	48	-21	16	-9	1.18	-0.36	18	1,528	288	30	30
Elkader	46	-18	16	-8	1.52	0.11	14	1,527	263	30	30
Fayette	44	-18	15	-6	1.07	-0.32	14	1,559	197	30	30
West Central District											
Carroll	57	-13	18	-5	0.50	-0.46	9	1,445	148	31	29
Castana	61	-10	19	-5	0.45	-0.37	8	1,422	158	31	30
Guthrie Center	54	-16	20	-4	1.13	0.00	14	1,402	138	31	29
Harlan	55	-11	20	-5	0.56	-0.43	10	1,400	148	31	29
Jefferson	54	-15	18	-6	0.75	-0.35	14	1,450	194	31	29
Logan	62	-5	21	-4	0.36	-0.63	7	1,354	112	31	29
Rockwell City	55	-13	17	-5	0.55	-0.41	12	1,480	168	31	29
Sac City	56	-13	17	-5	0.48	-0.57	14	1,485	161	31	29
Sioux City	62	-11	18	-5	0.18	-0.60	3	1,458	160	31	31
Central District											
Boone	47	-20	17	-7	0.30	-0.70	6	1,494	223	31	28
Des Moines	54	-14	21	-5	0.81	-0.47	7	1,356	141	29	29
Grundy Center	44	-18	16	-6	1.31	0.16	17	1,518	179	31	29
Marshalltown	44	-19	16	-7	0.23	-0.96	7	1,518	227	31	29
Newton	50	-17	20	-5	1.29	0.19	10	1,388	153	29	28
Perry	52	-17	19	-5	0.91	-0.14	10	1,424	150	31	29
Toledo	48	-19	18	-5	1.48	0.31	14	1,449	157	30	28
East Central District											
Cedar Rapids	49	-18	17	-8	0.35	-1.19	10	1,484	253	30	29
Davenport	63	-16	20	-7	0.59	-1.28	12	1,410	230	29	29
Iowa City	53	-16	19	-8	0.50	-1.01	11	1,435	257	30	29
Lowden	51	-16	18	-6	1.48	-0.36	18	1,451	191	30	29
Maquoketa	50	-17	18	-6	1.66	-0.07	20	1,465	200	30	29
Muscatine	55	-13	21	-6	1.43	-0.49	17	1,351	185	29	27
South West District											
Atlantic	56	-16	20	-5	0.75	-0.31	9	1,399	146	31	29
Clarinda	61	-11	23	-4	0.86	-0.26	7	1,310	121	30	29
Glenwood	64	-3	23	-4	0.73	-0.27	6	1,299	114	31	29
Red Oak	61	-17	21	-5	0.78	-0.34	8	1,360	170	31	29
Sidney	62	-6	23	-5	0.97	-0.04	7	1,294	151	30	29
South Central District											
Allerton	52	-19	22	-6	1.10	-0.27	11	1,342	175	28	27
Beaconsfield	58	-15	23	-4	0.82	-0.29	10	1,310	125	29	27
Chariton	54	-20	22	-5	1.06	-0.15	10	1,346	154	29	27
Indianola	54	-18	21	-5	1.11	-0.17	9	1,362	162	30	28
Leon	56	-16	22	-5	0.83	-0.48	5	1,320	143	29	27
South East District											
Bloomfield	52	-16	23	-5	0.82	-0.64	13	1,308	160	28	27
Burlington	55	-13	24	-4	0.12	-1.67	3	1,285	138	27	26
Ottumwa	51	-19	21	-6	0.34	-0.99	7	1,354	172	29	27
Washington	53	-17	21	-7	1.16	-0.50	15	1,379	203	30	28

Precipitation (rain, melted snow or ice) in inches. Precipitation Days = Days with precipitation of 0.01 inch or more. Air Temperatures in Degrees Fahrenheit.