

# Iowa Crops & Weather



USDA – National Agricultural Statistical Service  
Iowa Field Office

210 Walnut, Room 833 • Des Moines, Iowa 50309-2195  
515-284-4340 • 1-800-772-0825 • FAX 515-284-4342 • [nass-ia@nass.usda.gov](mailto:nass-ia@nass.usda.gov)  
To access NASS reports – <http://www.usda.gov/nass/>



Issued July 9, 2007

Vol 07-19

For the week ending July 8, 2007

## HEAT STRESS

**Agricultural Summary:** As Iowa's summer heats up, crops are showing signs of stress from high temperatures and low moisture. Leaves are curling from lack of moisture as few areas of the state have received significant rainfall recently. Many areas receiving measurable rainfall dealt with flooding and erosion as the rain fell in a very short time frame. Alfalfa fields are being affected by large leafhopper populations.

There were 6.5 days suitable for fieldwork, compared to 6.0 days last year at this time. Topsoil moisture rated 15 percent very short, 39 percent short, 44 percent adequate, and 2 percent surplus across the state. Subsoil moisture rated 7 percent very short, 22 percent short, 68 percent adequate, and 3 percent surplus.

**Field Crops Report:** Oats turning color are at 66 percent, 7 percentage points behind last year's 73 percent and one percentage point behind the five-year average. The condition of the oat crop is unchanged from last week at zero percent very poor, 4 percent poor, 22 percent fair, 60 percent good, and 14 percent excellent. Corn tasseled, at 37 percent, is 3 days ahead of last year's 18 percent and 6 days ahead of the five-year average of 13 percent. Corn silked, at 18 percent, is also 3 days ahead of last year and 5 days ahead of normal. Average corn height is 65 inches, an increase of 14 inches from the previous week. Corn condition is rated at 2 percent very poor, 5 percent poor, 21 percent fair, 53 percent good, and 19 percent excellent. Soybeans blooming are at 52 percent, ahead of last year's 47 percent and the five-year average of 39 percent. Seven percent of soybeans are setting pods. Soybean condition is 1 percent very poor, 5 percent poor, 22 percent fair, 57 percent good, and 15 percent excellent. Twenty-nine percent of the second cutting of alfalfa hay is complete, behind last year's 58 percent and the five year average of 39 percent. All hay condition is 3 percent very poor, 12 percent poor, 38 percent fair, 40 percent good, and 7 percent excellent.

**Livestock and Pasture Report:** Pasture condition rated 2 percent very poor, 11 percent poor, 37 percent fair, 41 percent good, and 9 percent excellent. Pastures are having a hard time keeping up with grazing. Livestock are also showing signs of stress due to heat. Fly populations continue to pester livestock.

## IOWA PRELIMINARY WEATHER SUMMARY Provided by State Climatologist Harry Hillaker

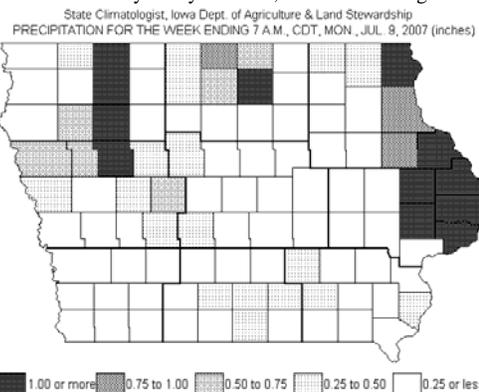
The past work week began with mild and dry weather with high temperatures mostly in the 80's on Monday (2<sup>nd</sup>). Heat and humidity gradually increased through the remainder of the week. High temperatures were in the 80's east and low 90's west from Tuesday (3<sup>rd</sup>) through Thursday (5<sup>th</sup>) with mid 80's to mid 90's on Friday (6<sup>th</sup>). High temperatures over the weekend were mostly in the 90's. Temperature extremes for the week varied from Monday (2<sup>nd</sup>) morning lows of 55 degrees at Maquoketa and Waukon to afternoon highs of 98 degrees at Sioux City on both Saturday (7<sup>th</sup>) and Sunday (8<sup>th</sup>). Temperatures for the week as a whole averaged 1 to 2 degrees above normal over southeast Iowa to 4 to 5 degrees warmer than usual over the northwest with a statewide average of 3.6 degrees above normal. Thunderstorms were scattered across Iowa on Tuesday (3<sup>rd</sup>) with locally heavy rain in far eastern Iowa on Tuesday night into Wednesday morning. A few isolated thunderstorms developed on Wednesday (4<sup>th</sup>) afternoon over the eastern one-half of the state with light rain showers over the west on Thursday (5<sup>th</sup>). Finally, thunderstorms were scattered over the northwest one-half of the state on Sunday (8<sup>th</sup>) evening into Monday (9<sup>th</sup>) morning. There was no rain reported during the week from a few scattered locations around Iowa such as Sioux Center, Grundy Center, Shenandoah and Iowa City. Meanwhile, De Witt was the wet spot in the state for the second consecutive week with 4.90 inches of rain. The statewide average precipitation was 0.42 inches while normal for the week is 1.14 inches.

Statewide Crop Conditions as of July 8, 2007

Item	Very Poor	Poor	Fair	Good	Excellent
	Percent	Percent	Percent	Percent	Percent
Corn	2	5	21	53	19
Hay, all	3	12	38	40	7
Oats	0	4	22	60	14
Range & Pasture	2	11	37	41	9
Soybeans	1	5	22	57	15

## PRELIMINARY IOWA PRECIPITATION

Provided by Harry Hillaker, State Climatologist



Field Work and Crop Progress as of July 8, 2007

Item	Districts									State	Last Week	Last Year	Normal
	NW	NC	NE	WC	C	EC	SW	SC	SE				
Corn, average tallest height	82	78	80	76	78	88	84	78	88	81	68	74	71
Corn, average height	70	65	62	62	62	73	68	56	66	65	51	60	57
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Corn stand (normal = 100%)	97	96	98	90	89	95	89	90	93	93	94	NA	NA
Corn tasseled	38	35	26	48	38	37	32	27	37	37	5	18	13
Corn silked	18	15	16	22	23	19	17	10	17	18	1	7	5
Soybeans blooming	63	72	69	42	52	36	43	28	37	52	27	47	39
Soybeans setting pods	10	13	17	4	6	3	3	4	5	7	1	5	3
Oats turning color	85	73	55	58	68	70	83	69	64	66	36	73	67
Hay, Alfalfa - Second Crop Harvest	74	55	33	27	46	28	20	26	30	29	10	58	39

Days Suitable & Soil Moisture Condition as of July 8, 2007

Item	Districts									State	Last Week	Last Year
	NW	NC	NE	WC	C	EC	SW	SC	SE			
Days suitable	6.6	6.6	6.2	6.8	6.9	5.1	7.0	6.5	6.5	6.5	6.2	6.0
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Topsoil moisture												
Very short	31	15	4	37	9	0	21	8	3	15	7	27
Short	47	46	30	46	51	15	41	41	28	39	22	37
Adequate	22	39	65	17	37	78	36	50	67	44	67	34
Surplus	0	0	1	0	3	7	2	1	2	2	4	2
Subsoil moisture												
Very short	12	8	1	20	1	0	13	2	0	7	3	23
Short	39	26	22	34	17	1	20	15	16	22	13	35
Adequate	47	64	74	46	74	93	63	81	83	68	75	41
Surplus	2	2	3	0	8	6	4	2	1	3	9	1

**Weather Summary For Iowa Agricultural Statistics Service  
Prepared by AWIS, Inc.  
For the week ending: Sunday, July 8, 2007**

STATION	CURRENT WEEK					SINCE APRIL 1				CURRENT WEEK	
	TEMPERATURE			PRECIPITATION		PRECIPITATION				GDD BASE 50F	
	HI	LO	AVG	DFN	TOTAL	DFN	TOTAL	DFN	TOTAL	DFN	
North West District											
Estherville	93	58	75	5	0.07	-0.76	7.32	-3.83	178	28	
Sioux Center	97	60	78	5	0.00	-0.89	8.37	-2.98	196	32	
Spencer	91	59	76	4	1.90	0.99	8.28	-2.91	183	24	
Spirit Lake	88	60	75	4	1.14	0.22	10.40	-0.53	175	1	
North Central District											
Britt	91	60	75	3	0.00	-1.05	12.28	0.04	178	17	
Humboldt	91	60	75	2	0.00	-1.04	11.84	-0.71	174	11	
Mason City	94	54	75	4	0.38	-0.62	13.20	0.48	179	25	
Osage	92	58	74	3	0.00	-0.98	11.02	-1.64	171	0	
North East District											
Decorah	93	58	74	3	0.56	-0.38	13.19	0.60	171	14	
Dubuque	90	55	74	3	2.81	1.90	11.98	-1.17	170	19	
Elkader	92	53	73	2	1.70	0.79	15.77	3.70	160	-19	
Fayette	92	56	74	2	1.50	0.52	15.31	2.48	166	13	
Waterloo	94	59	76	4	0.00	-1.12	14.33	1.20	183	24	
West Central District											
Carroll	94	57	77	4	0.36	-0.70	15.17	1.41	188	22	
Castana	95	56	77	4	0.00	-0.82	14.45	2.12	189	30	
Guthrie Center	93	56	77	3	0.17	-0.73	24.09	10.73	188	21	
Harlan	95	58	76	3	0.15	-0.77	15.17	2.25	186	23	
Jefferson	94	56	77	4	0.69	-0.37	16.91	3.15	190	24	
Logan	97	62	78	3	0.02	-0.85	15.96	3.21	196	17	
Rockwell City	94	56	76	2	0.18	-0.87	14.96	2.40	185	17	
Sac City	95	58	77	4	1.29	0.37	14.60	1.90	189	25	
Sioux City	98	61	79	4	0.02	-0.75	14.70	4.09	202	28	
Central District											
Boone	93	58	75	3	0.00	-0.97	15.81	1.67	180	16	
Des Moines	93	63	79	4	0.21	-0.68	14.21	1.71	201	20	
Grundy Center	92	58	75	4	0.06	-0.99	16.64	3.60	176	23	
Marshalltown	92	57	75	3	0.00	-1.00	12.40	-0.72	180	19	
Newton	94	56	76	3	0.00	-0.91	11.43	-1.61	185	15	
Perry	93	61	77	4	0.42	-0.51	18.38	5.16	187	22	
Toledo	91	54	74	2	0.00	-1.02	12.40	-0.97	169	10	
East Central District											
Cedar Rapids	89	55	74	1	0.00	-0.98	13.36	0.78	171	4	
Davenport	89	56	75	0	3.46	2.54	14.85	2.52	176	2	
Iowa City	92	57	76	0	0.00	-1.12	11.80	-1.75	185	4	
Lowden	90	54	74	0	3.90	2.85	15.19	1.30	166	3	
Maquoketa	90	53	72	0	4.29	3.40	17.23	4.58	157	-3	
Muscatine	91	56	75	-1	0.31	-0.74	15.04	2.06	176	23	
South West District											
Atlantic	94	59	79	6	0.06	-0.85	17.57	5.49	202	35	
Clarinda	93	61	76	1	0.00	-1.12	17.05	3.14	184	6	
Glenwood	95	61	78	3	0.00	-0.93	17.35	3.92	197	19	
Red Oak	95	64	79	3	0.04	-1.04	17.70	3.36	203	20	
Sidney	94	61	77	2	0.00	-1.05	15.07	2.26	193	7	
South Central District											
Allerton	88	58	74	-1	0.30	-0.75	18.71	5.73	171	29	
Beaconsfield	89	58	75	1	0.09	-0.94	18.34	5.54	172	3	
Chariton	91	53	74	-1	0.31	-0.79	17.03	3.38	168	-1	
Indianola	92	59	76	2	0.27	-0.69	13.19	-0.21	182	12	
Leon	90	56	74	-1	0.27	-0.64	16.71	3.33	171	-1	
South East District											
Bloomfield	90	59	75	0	0.23	-0.76	14.21	1.22	179	0	
Burlington	91	61	77	3	0.14	-0.84	11.52	-0.94	191	16	
Ottumwa	90	58	76	0	0.41	-0.57	16.24	4.07	181	0	
Washington	92	57	75	-2	0.82	-0.16	18.35	6.09	173	11	

Precipitation (rain, melted snow or ice) in inches. Precipitation Days = Days with precipitation of 0.01 inch or more. Air Temperatures in Degrees Fahrenheit. Copyright 2007: AWIS, Inc. All Rights Reserved.

PRESRT STD  
POSTAGE & FEES PAID  
USDA  
PERMIT NO. G-38

IOWA CROPS & WEATHER IS PUBLISHED BY USDA NATIONAL  
AGRICULTURAL STATISTICS SERVICE, IOWA FIELD OFFICE, 210 WALNUT  
ST. RM 833, DES MOINES IA 50309. POSTMASTER, SEND ADDRESS CHANGES  
TO IA CROPS & WEATHER, C/O SD AGRICULTURAL STATISTICS, PO BOX  
5068 SIOUX FALLS SD 57117