



Minnesota Ag News – Crop Weather

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COOPERATING WITH THE MN DEPARTMENT OF AGRICULTURE, NATIONAL WEATHER SERVICE - CHANHASSEN, MN

UNIV. OF MINN. EXTENSION SERVICE, DNR STATE CLIMATOLOGY OFFICE, USDA-FSA, USDA-NRCS, and Local FACs

CONTINUED HEAT BENEFITS CROP DEVELOPMENT AND CONDITION

Hot, humid conditions and adequate soil moisture continued to advance crop development at a rapid pace, according to the USDA, NASS, Minnesota Field Office. For the week ending July 31, crop conditions generally improved, though reporters continued to note significant variability in crops. Producers scouted soybean fields for aphids and prepared for the small grain harvest.

Soybeans blooming advanced 15 percentage points to 72 percent, compared to 89 percent last year and 86 percent for the five-year average. Twenty-four percent of soybeans were setting pods, compared to 45 percent last year and average. Soybeans were rated 52 percent good and 18 percent excellent, an improvement from the previous week.

Corn silking advanced 29 points from the previous week to 83 percent, compared to 95 percent last year and 85 percent average. Corn in the milk stage was 16 percent, a 14 point advancement from the previous week, compared to 27 percent last year and average. Corn condition was rated 55 percent good and 19 percent excellent, an improvement from the previous week.

Small grain development progressed rapidly. Fifty-nine percent of spring wheat was turning ripe, a 29 point advancement over the previous week. Barley was 56 percent turning ripe, advancing 18 points, while oats were 78 percent turning ripe, advancing 24 points. Harvest began with 5 percent of the state's oats and 2 percent of barley completed. Other harvest activity included 3 percent of potatoes, 3 percent of canola, and 8 percent of sweet corn.

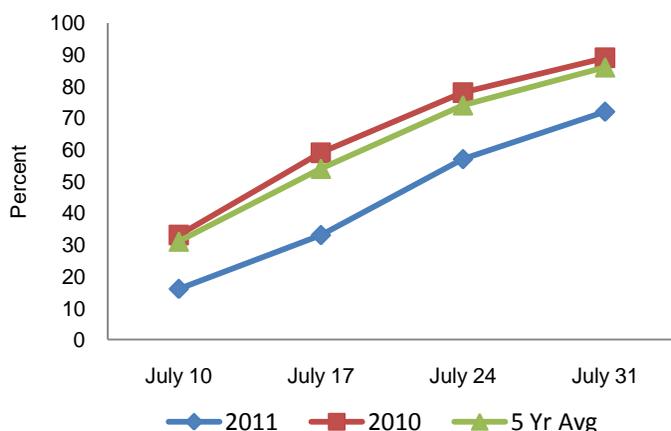
Topsoil moisture supplies were rated 2 percent short, 76 percent adequate, and 22 percent surplus. Statewide 4.8 days were rated suitable for fieldwork. Average temperatures for the week were 73.1°, nearly 3° above normal, while average precipitation was .92 inch, nearly average. The extreme, sustained heat put stress on the state's livestock.

Days Suitable for Fieldwork: 4.8				
	Very Short	Short	Adequate	Surplus
	----- Percent -----			
Topsoil Moisture	0	2	76	22

Crop Progress as of July 31, 2011					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
		----- Percent -----			
Corn	Silking	83	54	95	85
	Milk	16	2	27	27
	Dough	2	0	3	3
Soybeans	Height (Inches)	24	20	23	24
	Blooming	72	57	89	86
	Setting Pods	24	10	45	45
Oats	Turning Ripe	78	54	96	87
	Harvested	5	1	32	33
Spring Wheat	Turning Ripe	59	30	91	74
	Harvested	0	NA	8	8
Barley	Turning Ripe	56	38	94	77
	Harvested	2	1	14	20
Dry Beans	Blooming	67	53	NA	NA
	Setting Pods	18	8	NA	NA
Potatoes	Harvested	3	NA	5	3
Canola	Harvested	3	NA	1	2
Sweet Corn	Harvested	8	1	11	11

Condition as of July 31, 2011					
	Very Poor	Poor	Fair	Good	Exc
	----- Percent -----				
Pasture	1	2	13	59	25
Soybeans	2	6	22	52	18
Corn	1	5	20	55	19
Oats	1	3	20	62	14
Barley	1	2	21	61	15
Spring Wheat	1	5	23	54	17
Sugarbeets	2	9	28	47	14
Potatoes	0	2	9	51	38
Canola	0	8	50	40	2
Dry Beans	1	7	24	46	22
Sunflowers	1	6	38	48	7

Soybeans Blooming



The following links provides further weather-related information and maps for Minnesota:

Minnesota Climatology Working Group provides statewide precipitation maps for the previous week: <http://climate.umn.edu/doc/weekmap.asp>

National Weather Service's Minnesota Data: <http://www.nws.noaa.gov/view/states.php?state=MN>

PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING July 31, 2011:
 Temperatures averaged from 1.2 degrees above normal in the Northeast,
 North Central Districts to 4.5 degrees above normal in the South Central
 District. Extremes: 93 degrees in Marshall, Redwood Falls, and at the
 Minneapolis Airport; 43 degrees in International Falls. Average
 precipitation ranged from 0.62 inch below normal in the South Central
 District to .97 inches above normal in the Southeast District. Greatest
 weekly total of 6.30 inches was recorded in Winona.

For a map of Minnesota's
 precipitation, please see
 the Minnesota Climatology
 Group's website;
[http://climate.umn.edu/
 doc/weekmap.asp](http://climate.umn.edu/doc/weekmap.asp).

Precipitation and Temperature Summary for 7/25/2011 through 7/31/2011

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Four Weeks	From Norm Since 4/1	Since May 17	Depart from Norm	
<u>NW DIST 1</u>										
Crookston	86	52	70.5	.3	.52	-.15	.00	-.78	1259	-7
Itasca	86	53	69.4	2.6	.27	-.58	-1.34	1.92	1139	92
Moorhead	88	57	74.3	2.9	.25	-.34	1.79	4.71	1412	89
Warroad	83	51	67.6	-.4	1.34	.59	-.41	2.95	1029	-85
<u>NC DIST 2</u>										
Grand Rapids	88	53	71.2	3.4	.48	-.48	-1.06	1.45	1189	68
Intl. Falls	86	43	65.7	-.9	.39	-.31	-.84	.55	1057	5
<u>NE DIST 3</u>										
Duluth	85	51	69.1	2.9	.74	-.18	-.45	.86	998	35
Grand Marais	84	54	64.2	1.4	.13	-.59	.11m	.30m	504m	-147m
Hibbing	85	44	65.6	-.8	.58	-.39	-1.95	-1.57	1019	2
<u>WC DIST 4</u>										
Alexandria	87	61	74.6	4.0	1.07	.36	5.84	5.38	1332	59
Browns Valley	90	62	74.5	1.6	1.54	.80	2.95	4.44	1334	-68
Canby	91	62	76.2	2.6	.92	.25	2.27	4.09	1441	-29
Montevideo	89	61	74.8	2.5	.73	.01	1.48	3.31	1433	30
Morris	88	60	73.6	2.1	.87	.02	3.69	4.50	1358	-8
Wheaton	90	61	74.4	1.9	3.28	2.66	4.88	5.60	1373	-13
<u>CENT DIST 5</u>										
Becker	M	M	M	M	.32	-.62	4.08	7.31	608m	-692m
Collegetown	91	62	77.4	4.7	.50	-.28	3.11	6.47	1510	90
Hutchinson	90	61	76.4	4.4	.41	-.45	1.96	8.22m	1449	33
Melrose	88	62	74.5	2.9	1.56	.77	5.51	5.46	1339	-20
Olivia	89	60	74.8	3.4	.44	-.31	-.12	3.72	1430	32
St. Cloud	90	58	75.4	5.2	.38	-.37	1.67	3.21	1393	128
Wadena	85m	59m	72.0m	3.9m	.27m	-.49m	-2.97m	-3.49m	548m	-595m
Willmar	88	62	74.5	3.7	1.68	.89	4.18	6.22	1379	38
<u>EC DIST 6</u>										
Aitkin	83	58	71.5	4.4	1.00	-.01	.05	4.89	1307	227
Forest Lake	91	58	75.0	3.9	.82	-.21	1.78	3.06	1431	81
Hinckley	85	52	69.4	1.1	1.66	.65	-.65	.72m	1087m	-51m
MSP Airport	93	68	79.2	5.7	.45	-.46	1.47	3.42	1623	154
St. Paul - UofM	88	62	75.6	2.7	1.15	.18	6.30	6.37	1470	30
<u>SW DIST 7</u>										
Lamberton	91	57	75.8	3.7	.87	.08	-.10	6.00	1527	74
Marshall	93	62	78.0	5.0	1.27	.51	.57	3.63	1476	11
Pipestone	89	57	75.0	3.0	1.90	1.20	4.56	8.54	1380	0
Redwood Falls	93	60	77.8	4.1	.44	-.39	-.81	2.05	1555	33
Worthington	89	58	75.8	4.7	1.13	.38	5.94	8.61	1447	86
<u>SC DIST 8</u>										
Faribault	M	M	M	M	M	M	M	2.42m	620m	-759m
North Mankato	90	62	76.4	4.2	.36	-.58	1.55	2.15	1473	37
Waseca	88	59	76.0	4.6	.34	-.71	2.66	5.32	1536	132
Winnebago	89	59	77.0	4.8	.36	-.58	-.01	3.41	1553	103
<u>SE DIST 9</u>										
Preston	89	56	74.5	3.9	.27	-.79	-1.75	.84	1469	150
Red Wing	92	63	76.0	3.5	2.90	1.96	3.40	4.28	1531	116
Rochester	89	56	74.6	4.3	.49	-.56	-.31	2.18	1484	180
Rosemount	88	61	75.2	4.0	.70	-.36	1.12	6.68	1497	138
Winona	90	63	75.3	2.6	6.30	5.35	6.70	4.95	1488m	46m

m=some data missing

Corn growing degree days (GDD) are calculated by subtracting a 50 degree base temperature from the average of the maximum and minimum temperature for the day. The daily maximum is limited to 86 degrees and minimum of 50 degrees.

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