



# Minnesota Ag News – Crop Weather

USDA, NASS, Minnesota Field Office  
P.O. Box 7068 – St. Paul, MN 55107  
(651) 201-6030 · (651) 201-6479 FAX

Email: [nass-mn@nass.usda.gov](mailto:nass-mn@nass.usda.gov) - Homepage: <http://www.nass.usda.gov>

Released: July 25, 2011

Issue No: CW-29-11

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

## HOT, HUMID WEATHER SPURRED CROP DEVELOPMENT

The development of small grains and field crops advanced significantly last week as high heat and humidity persisted across much of the state, according to the USDA, NASS Minnesota Field Office. As of July 24<sup>th</sup>, fifty-four percent of corn was at or beyond the silking stage, a 43 percentage point advance from last week, but 27 points behind last year and 10 points behind average. Fifty-six percent of the crop was rated in good condition and 16 percent was rated excellent. Fifty-seven percent of soybeans were blooming with 10 percent setting pods. Fifty-four percent of soybeans were rated in good condition and 15 percent were rated excellent.

Thirty percent of spring wheat was turning ripe, a 20 point increase over last week, while barley advanced 19 points to 38 percent turning ripe. Fifty-four percent of oats were turning ripe. All three small grain crops were rated in primarily good condition.

Other field crop conditions ranged from fair to excellent. Sugarbeets were rated 28 percent fair and 47 percent good. Canola was rated 50 percent fair and 42 percent good. Thirty-three percent of potatoes were in excellent condition and 54 percent were rated good. Green pea harvest was nearly complete in some locations while sweet corn harvest was just beginning at 1 percent harvested.

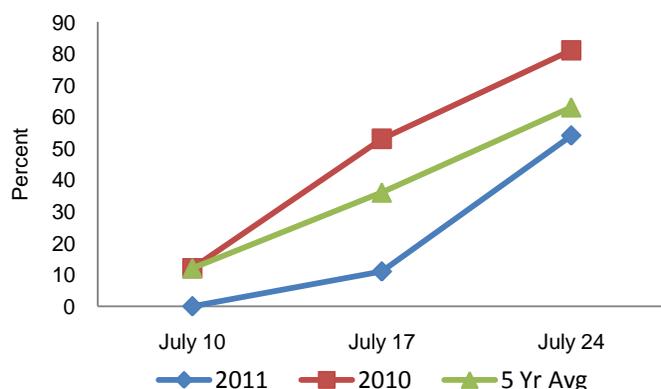
Daytime highs in the mid to upper 90s combined with dew points in the low to mid 70s produced heat indices in excess of 115° in some locations stressing livestock and poultry. Temperatures remained relatively warm until Sunday when daytime highs cooled into the mid to upper 70s statewide. Showers and thunderstorms developed Friday and Saturday with precipitation amounts ranging from a half-inch to over 3 inches in some areas. Statewide, topsoil moisture supplies were rated 72 percent adequate and 25 percent surplus.

Days Suitable for Fieldwork: 4.8				
	Very Short	Short	Adequate	Surplus
	----- Percent -----			
Topsoil Moisture	0	3	72	25

Crop Progress as of July 24, 2011					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
Corn	Height (Inches)	69	55	87	75
	Silking	54	11	81	64
	Milk	2	NA	9	9
Soybeans	Height (Inches)	20	14	22	22
	Blooming	57	33	78	74
	Setting Pods	10	2	22	21
Oats	Headed	98	91	100	98
	Turning Ripe	54	21	91	77
	Harvested	1	NA	15	15
Spring Wheat	Headed	98	92	100	97
	Turning Ripe	30	10	81	60
Barley	Headed	99	86	100	96
	Turning Ripe	38	19	86	66
	Harvested	1	NA	5	7
Dry Beans	Blooming	53	22	NA	NA
	Setting Pods	8	NA	NA	NA
Sweet Corn	Harvested	1	NA	7	5

Condition as of July 24, 2011					
	Very Poor	Poor	Fair	Good	Exc
	----- Percent -----				
Pasture	1	3	11	61	24
Soybeans	2	6	23	54	15
Corn	2	5	21	56	16
Oats	1	4	19	63	13
Barley	1	2	17	66	14
Spring Wheat	2	6	23	56	13
Sugarbeets	2	9	28	47	14
Potatoes	1	2	10	54	33
Canola	0	6	50	42	2
Dry Beans	1	5	24	51	19
Sunflowers	1	6	42	46	5

Corn Silking



The following link 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 24, 2011:  
 Temperatures averaged from 3.5 degrees above normal in the Northwest District to 9.1 degrees above normal in the South Central District.  
 Extremes: 99 degrees in Marshall, Lamberton; 48 degrees in Hibbing.  
 Average precipitation ranged from 0.73 inch below normal in the Southwest District to 1.06 inches above normal in the Northeast District. Greatest weekly total of 3.01 inches was recorded in Grand Marais.

Precipitation and Temperature Summary for 7/18/2011 through 7/24/2011

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Week	From Four Weeks	Since Norm 4/1	Since May 17	Depart from Norm
<u>NW DIST 1</u>										
Crookston	90	53	73.6	3.6	1.07	.39	.03	-.63	1106	-10
Itasca	M	M	M	M	M	M	-2.19m	1.12m	592m	-328m
Moorhead	95	58	75.8	4.7	1.92	1.31	1.60	5.05	1232	67
Warroad	89	52	70.0	2.2	.76	-.03	-1.62m	1.72m	840m	-140m
<u>NC DIST 2</u>										
Grand Rapids	95	53	72.2	4.3	2.10	1.09	-.08	1.93	1028	42
Intl. Falls	93	53	69.6	3.0	.03	-.69	-.67	.86	927	2
<u>NE DIST 3</u>										
Duluth	92	51	71.6	5.4	1.73	.80	.23	1.04	856	16
Grand Marais	86	54	66.4	4.7	3.01	2.26	.86m	.89m	403m	-149m
Hibbing	92	48	69.0	2.6	1.15	.11	-1.09	-1.18	894	1
<u>WC DIST 4</u>										
Alexandria	94	62	77.2	6.6	1.06	.37	4.73	5.02	1150	30
Browns Valley	98	59	77.7	4.8	.61	-.15	1.71m	3.64m	1099m	-136m
Canby	97	63	80.8	7.1	0	-.71	2.11	3.84m	1242m	-56m
Montevideo	96	61	79.8	7.5	.54	-.19	.95	3.30	1254	14
Morris	93	61	77.6	6.1	1.60	.73	2.71m	4.30m	1110m	-97m
Wheaton	96	61	78.0	5.6	.85	.19	2.45	2.94	1194	-27
<u>CENT DIST 5</u>										
Becker	M	M	M	M	1.22	.29	5.48	7.93	602m	-546m
Collegeville	98	59	82.4	9.7	.55	-.22	-.15m	2.96m	1231m	-22m
Hutchinson	96	63	81.6	9.3	1.29	.47	.40m	6.86m	1183m	-71m
Melrose	95	62	78.6	7.0	.56	-.23	.68m	1.44m	1159	-41
Olivia	94	62	80.6	9.0	.62	-.13	.75	4.03	1252	13
St. Cloud	96	58	78.0	7.7	.67	-.03	2.12	3.58	1211	96
Wadena	89	59	74.0	6.0	1.94	1.16	.84m	.62m	952m	-54m
Willmar	95	63	79.2	8.2	1.78	1.00	2.90m	5.33m	1185m	-1m
<u>EC DIST 6</u>										
Aitkin	88	52	74.8	7.6	1.31	.27	-.70	4.90	1145	195
Forest Lake	97	58	80.4	9.2	.96	-.05	1.18m	3.27m	1238m	46m
Hinckley	92m	54m	73.8m	5.4m	.60m	-.42m	-.66m	.04m	801m	-200m
MSP Airport	98	63	81.5	7.8	.96	.07	1.07	3.88	1420	122
St. Paul - UofM	94	60	81.8	8.7	2.50	1.54	5.17	6.19	1283	11
<u>SW DIST 7</u>										
Lamberton	99	61	81.2	8.9	0	-.79	-.52	5.92	1343	53
Marshall	99	62	81.8	8.7	0	-.78	.20	3.12	1285	-12
Pipestone	94m	60m	78.3m	6.3m	.06m	-.65m	1.05m	5.78m	1152m	-67m
Redwood Falls	96	63	80.4	6.6	0	-.83	-1.36	2.44	1360	10
Worthington	97	62	80.8	9.5	0	-.75	4.72	8.23	1265	61
<u>SC DIST 8</u>										
Faribault	M	M	M	M	M	M	-3.79m	3.41m	613m	-607m
North Mankato	98m	65m	81.8m	9.4m	.99m	.07m	.93m	2.28m	1179m	-93m
Waseca	94	65	80.4	8.8	1.72	.70	2.38m	5.50m	1292m	47m
Winnebago	97	67	81.4	8.9	0	-.91	.64m	3.99m	1337m	51m
<u>SE DIST 9</u>										
Preston	98	65	81.4	10.7	.88	-.17	-1.93	1.63	1290	125
Red Wing	97	69	82.6	10.1	.36	-.59	.76	2.32	1346	96
Rochester	94	61	78.6	8.2	.12	-.93	-.44	2.74	1302	150
Rosemount	95	62	79.9	8.6	.01m	-1.04m	-3.88m	2.35m	1314	112
Winona	95	69	82.1	9.3	.42	-.53	.72	-.40	1303m	28m

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.

The MINNESOTA WEEKLY CROP-WEATHER REPORT (USPS-387190) is published weekly in April through November (crop season). Subscription rates are \$15.00 per year for non-reporters and free to survey respondents by the USDA-NASS Minnesota Field Office, P O Box 7068, St. Paul, MN 55107. Periodicals postage paid at St. Paul, Minnesota and other mailing offices. POSTMASTER: Send address changes to the MINNESOTA WEEKLY CROP-WEATHER REPORT, P O Box 7068, St. Paul, MN 55107.

WEEKLY NEWS REPORT  
 Minnesota Crop-Weather Report  
 Publication No. 387190  
 Address Service Requested

USDA, NASS, Minnesota Field Office  
 PO Box 7068, ST. PAUL MN 55107

PRESORTED  
 FIRST CLASS MAIL  
 POSTAGE & FEES PAID  
 USDA PERMIT NO G-38