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USDA, NASS, MINNESOTA FIELD OFFICE, IN COOPERATION WITH THE NATIONAL WEATHER SERVICE - CHANHASSEN MN,  
UNIV. OF MINN. EXTENSION SERVICE, DNR STATE CLIMATOLOGY OFFICE, USDA-FSA, AND USDA-NRCS

**SLIGHTLY COOLER BUT STILL NEED RAIN**

Slightly cooler temperatures graced Minnesota, but showers missed most of the state, according to USDA, NASS, Minnesota Field Office. Precipitation across most of the state was measured in tenths of inches or less. While soil moisture supplies in the northwest and southeast corners of the state remained mostly adequate, sixty-eight percent of the states cropland was rated as Very Short or Short leaving producers wanting rain. Sugarbeet conditions improved however, pasture conditions declined for the 6<sup>th</sup> week in a row, with only 22 percent rated as Good or Excellent. Small grain crops were ripening rapidly with some oats being harvested.

The average temperature for the week was 66.0°, 3.8° below normal. Statewide topsoil moisture supplies as of Friday were rated 26 percent very short, 42 short, 30 adequate, and 2 surplus.

As of Sunday July 15<sup>th</sup>, sixty-one percent of corn acreage was silking compared to 17 percent for the five-year average. Soybeans were 65 percent blooming compared to 50 percent average. Forty-two percent of spring wheat acreage was ripening, compared to 24 percent average, and 78 percent of oats were ripening compared to 43 percent average.

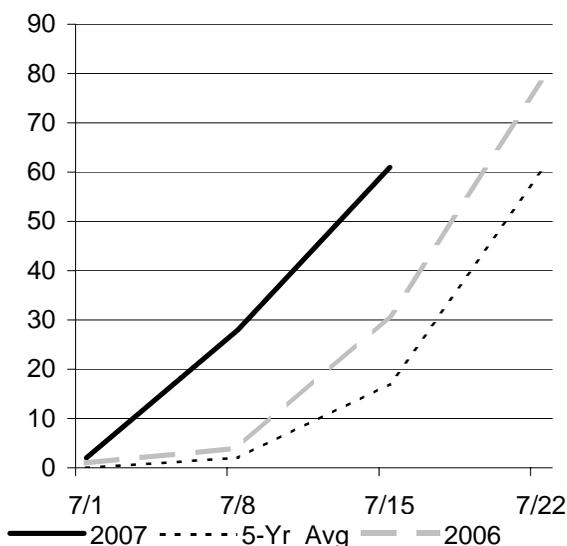
As of Friday, July 13<sup>th</sup>, fifty percent of field corn and 53 percent of soybeans were rated in Good or Excellent condition. Sixty-six percent of spring wheat was rated in Good or Excellent condition. Sunflower conditions were rated 68 percent Good or Excellent.

Days Suitable for Fieldwork: 6.4				
	Very Short	Short	Adequate	Surplus
Topsoil Moisture (%)	26	42	30	2

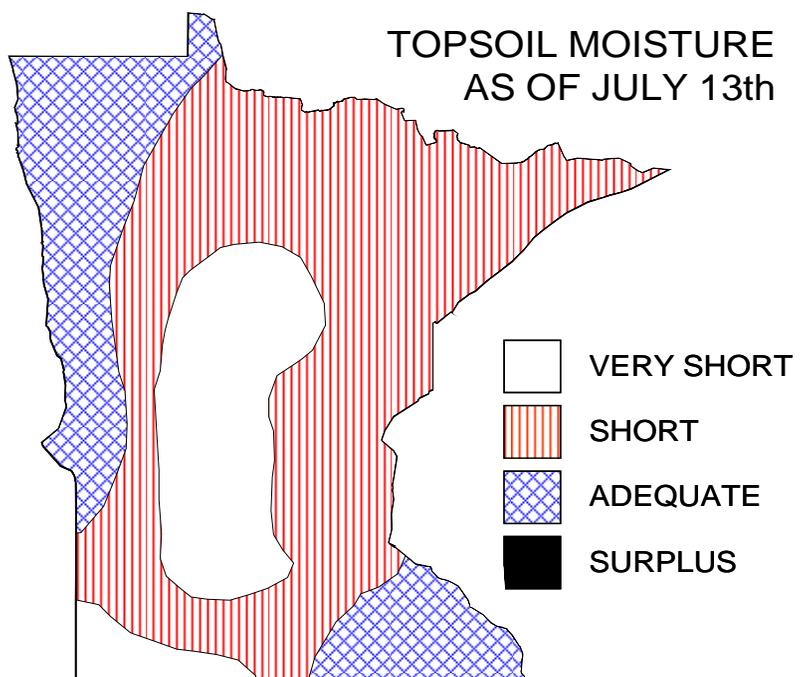
Crop Progress as of July 15, 2007					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
		----- Percent -----			
Corn	Height	73	68	69	59
	Silking	61	28	31	17
	Milk	1	NA	0	0
Soybeans	Height	20	18	19	17
	Blooming	65	45	61	50
	Setting Pods	10	3	5	3
Spring Wheat	Turning Ripe	42	17	41	24
	Harvested	1	0	1	0
Oats	Turning Ripe	78	40	70	43
	Harvested	4	0	7	2
Barley	Turning Ripe	59	24	49	28
	Harvested	1	0	3	1

Crop Condition as of July 13, 2007 in %					
	Very Poor	Poor	Fair	Good	Exc
Pasture	15	33	30	20	2
Corn	7	12	31	39	11
Soybeans	4	9	34	43	10
Spring Wheat	2	5	27	47	19
Oats	6	11	27	43	13
Barley	5	9	25	40	21
Sugarbeets	0	4	25	50	21
Potatoes	0	1	12	52	35
Dry Beans	1	7	31	48	13
Canola	1	2	9	39	49
Sunflowers	0	6	26	41	27

**CORN SILKING  
JULY 1 - JULY 22**



**TOPSOIL MOISTURE  
AS OF JULY 13th**



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING July 15,2007:  
 Temperatures averaged from 5.4 degrees below normal in the North Central District to 2.3 degrees below normal in the East Central District.  
 Extremes: 34 degrees in Hibbing, 95 degrees in Faribault. Precipitation averaged from 0.84 inch below normal in the Southeast District to 0.93 inch above normal in the Northwest District. Greatest weekly total was 2.79 inches recorded in Warroad.

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

Precipitation and Temperature Summary for 7/9/2007 through 7/15/2007

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Week	From Four Weeks	From Norm Since 4/1	Since May 3	Depart from Norm
<u>NW DIST 1</u>										
Crookston	81	47	64.1	-5.2	1.15	.44	-.46	2.96	1112	60
Moorhead	87	50	67.2	-3.2	1.07	.41	-1.78	4.72	1275	176
Warroad	80	50	62.7	-4.5	2.79	1.94	2.53	4.41	994	89
<u>NC DIST 2</u>										
Grand Rapids	81	43	62.8	-4.6	.66	-.41	-3.61	-2.68	1113	192
Intl. Falls	76	39	57.9	-8.2	1.27	.50	-1.41	1.72	934	70
Itasca	81	46	62.6	-3.4	2.52	1.63	-1.13	2.58	1075	223
<u>NE DIST 3</u>										
Duluth	79	44	61.1	-4.3	.42	-.53	-1.90	-2.17	902	134
Grand Marais	77	41	59.2	-.8	.70	-.08	-1.28	-.76	430	-53
Hibbing	78	34	58.0	-7.9	.47	-.63	-3.63	-5.08	935	108
<u>WC DIST 4</u>										
Alexandria	84	50	67.0	-3.1	.36	-.37	-2.62	-3.50	1234	185
Browns Valley	87	48	66.2	-6.1	0	-.79	-2.66	5.44	1194	30
Canby	87	53	69.6	-3.6	0	-.78	-3.37	-1.34	1341	115
Fergus Falls	83	50	67.4	-2.5	.18	-.58	-2.84	4.99	1231	168
Montevideo	83	48	66.2	-5.7	.04	-.74	-2.86	-4.03	1324	153
Morris	84	45	66.0	-5.1	.40	-.50	-2.70	.25	1235	93
<u>CENT DIST 5</u>										
Becker	91	47	68.9	-.9	.09	-.86	-2.22	-4.60	1309	261
Collegeville	86	50	69.6	-2.6	.06	-.75	-2.48	-4.88	1397	206
Hutchinson	94	48	69.1	-3.1	.05	-.79	-2.72	-4.44	1361	163
Olivia	89	48	68.0	-3.4	.10	-.71	-2.53	-2.64	1278	101
St. Cloud	83	47	67.0	-2.8	.06	-.67	-1.83	-2.96	1268	220
Staples	81	44	64.2	-3.3	.18	-.66	-3.21	.74	1113	170
Willmar	88	50	68.6	-2.8	.13	-.72	-3.14	-3.09	1300	140
<u>EC DIST 6</u>										
Aitkin	88	50	67.6	.9	.65	-.42	-2.87	-3.74	1115	229
Forest Lake	92	49	67.9	-2.9	1.41	.39	-1.48	-3.34	1289	160
MSP Airport	85	56	70.4	-2.9	.05	-.85	-.67	-5.00	1454	225
St. Paul - UofM	83	51	69.3	-4.2	.42	-.57	-2.92	-7.09	1475	204
<u>SW DIST 7</u>										
Lamberton	87	48	67.8	-4.4	0	-.81	-2.88	-2.30	1324	96
Pipestone	90	44	67.4	-4.2	0	-.76	-3.19	-4.77	1265	116
Redwood Falls	86	49	68.6	-5.0	0	-.86	-3.33	-3.40	1340	50
Worthington	92	49	68.4	-2.7	0	-.81	-3.49	-4.70	1317	184
<u>SC DIST 8</u>										
Faribault	95	50	68.7	-2.8	.04	-.92	-2.64	-5.85	1309	162
Mankato	94	52	68.8	-3.3	.17	-.81	-3.97	-7.66	1339	138
Waseca	94	49	67.2	-4.2	.84	-.15	-1.49	-3.12	1299	116
Winnebago	89	50	67.4	-4.9	.23	-.69	-3.34	-7.02	1249	26
<u>SE DIST 9</u>										
Preston	82	47	66.0	-4.4	0	-1.06	-1.97	-2.52	1199	107
Red Wing	93	53	70.0	-2.1	.32	-.65	-2.05	-4.19	1336	156
Rochester	84	52	67.8	-2.3	.01	-1.03	-1.52	-4.28	1310	225
Rosemount	90	54	68.9	-2.2	.62	-.43	-1.25	-3.98	1319	186
Winona	93	54	69.2	-5.7	.04	-.91	-1.97	-2.30	1280	-39

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.

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