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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

**HOT DRY WEATHER PUSHES CROP DEVELOPMENT**

Hot weather and dry conditions have pushed corn silking and soybeans blooming 20 percentage points ahead of the five-year average, according to USDA-NASS, Minnesota Field Office. Rain is needed across the state to reduce crop stress and aid with the corn pollination and soybeans blooming. Soybean aphids were reported in some areas of the state. Small grains harvest had begun in the state with 7% of the oats harvested as of Sunday. Some producers reported supplementing pastures with feed as only 16% of the pastures were rated in good to excellent condition.

The average temperature for the week was 74.8°, 4.9° above normal. Statewide topsoil moisture supplies as of Friday were rated 34% very short, 44% short, 22% adequate, and 0% surplus.

As of Sunday July 16<sup>th</sup>, corn silking was estimated at 36%, 21 percentage points ahead of the five-year average. Sixty-five percent of soybeans were blooming compared to 45% for the five-year average. Fifty-two percent of corn and soybeans were rated in good to excellent condition, a decline of 16 percentage points since the previous week.

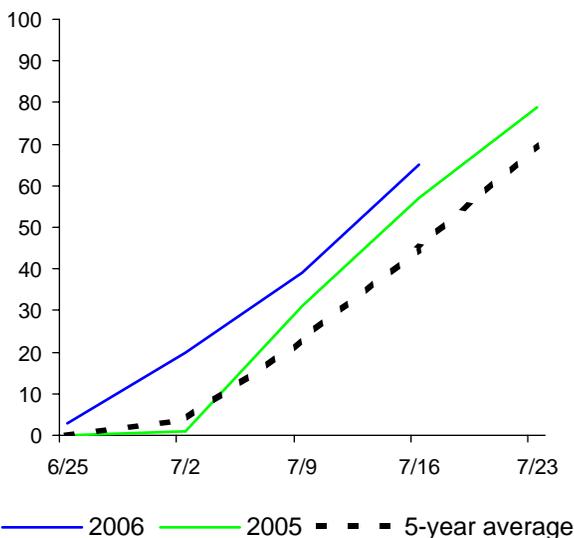
Spring Wheat was 44% turning ripe, 24 percentage points ahead of the five year average. Spring wheat condition declined 7 points since the previous week with 46% rated in good to excellent condition.

Days Suitable for Fieldwork: 6.6				
	Very Short	Short	Adequate	Surplus
Topsoil Moisture (%)	34	44	22	0

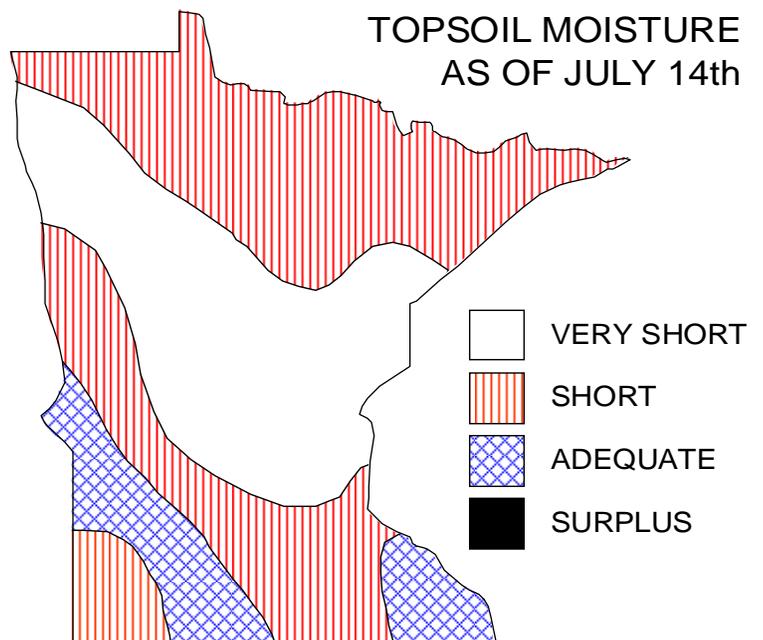
Crop Progress as of July 16, 2006					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
		Percent			
Corn	Height - Inches	70	60	63	57
	Silking	36	4	17	15
Soybeans	Height - Inches	20	15	18	17
	Blooming	65	39	57	45
	Setting Pods	6	NA	3	3
Oats	Turning Ripe	75	42	45	37
	Harvested	7	4	2	1
Barley	Turning Ripe	53	27	33	23
	Harvested	3	2	0	0
Spring Wheat	Turning Ripe	44	23	24	20
	Harvested	1	0	0	0

Crop Condition as of July 14, 2006 in %					
	Very Poor	Poor	Fair	Good	Exc
Pasture	23	31	30	15	1
Corn	5	12	31	41	11
Soybeans	4	11	33	42	10
Alfalfa	13	18	36	30	3
Spring Wheat	6	13	35	40	6
Oats	11	17	31	37	4
Barley	9	12	24	53	2
Sugarbeets	2	8	24	47	19
Dry Beans	9	15	39	28	9
Potatoes	9	12	19	41	19
Sunflowers	2	6	22	61	9
Canola	0	9	44	28	19

**SOYBEANS BLOOMING**  
JUNE 25 - JULY 23



**TOPSOIL MOISTURE**  
AS OF JULY 14<sup>th</sup>



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING JULY 16, 2006:

Temperatures averaged from 3.1 degrees above normal in the South Central District to 7.0 degrees above normal in the North Central District. Extremes: 42 degrees in Hibbing; 102 degrees in Browns Valley and Fergus Falls. Precipitation averaged from 0.00 inch from normal in the West Central District to 0.73 inch below normal in the Northwest District. Greatest weekly total was 3.73 inches recorded in Montevideo.

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 7/10/2006 through 7/16/2006

	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 2	Depart from Norm
<u>NW DIST 1</u>										
Crookston	93	51	73.5	4.1	0	-.70	-2.54	-4.10	1163	85
Moorhead	101	50	78.0	7.5	0	-.66	-2.51	-5.06	1269	142
Warroad	90	54	71.8	4.6	.02	-.82	-.78	-3.17	1042	115
<u>NC DIST 2</u>										
Grand Rapids	100	53	75.8	8.3	.29	-.77	-2.82	-3.86	1126	182
Intl. Falls	92	50	72.4	6.3	.41	-.36	-1.01	-2.40	987	102
Itasca	96	50	72.4	6.3	1.10	.22	-2.08	-3.04	1027	154
<u>NE DIST 3</u>										
Duluth	96	52	72.2	6.6	.60	-.35	-2.38	-.62	949	160
Grand Marais	94	47	66.0	5.8	.13	-.64	-1.57	-2.11	638	141
Hibbing	95	42	70.2	4.2	.01	-1.09	-2.79	-5.92	941	92
<u>WC DIST 4</u>										
Alexandria	98	58	77.6	7.4	.17	-.55	-2.48	-4.67	1207	131
Browns Valley	102	51	78.1	5.7	.04	-.75	-2.64	-.79	1182	-12
Canby	101	54	76.3	3.0	.61	-.16	-2.26	-1.87	1301	44
Fergus Falls	102	53	77.7	7.7	0	-.75	-2.88	.73	1189	99
Montevideo	94	52	74.8	2.8	3.73	2.96	.90	1.26	1259	59
Morris	94	53	73.2	2.1	.16	-.74	-2.94	-3.19	1200	29
<u>CENT DIST 5</u>										
Becker	97	56	77.0	7.1	.08	-.86	-3.06	-4.00	1296	221
Collegeville	97	56	78.6	6.3	.15	-.66	-3.11	-2.48	1362	141
Hutchinson	96	56	76.5	4.2	.45	-.39	-2.61	-2.71	1327	99
Olivia	94	54	74.4	2.9	.69	-.11	-2.22	-1.23	1270	65
St. Cloud	98	54	76.4	6.5	.08	-.64	-2.55	-2.84	1234	159
Staples	97	55	73.4	5.9	.30	-.53	-2.35	-4.11	1101	134
Willmar	95	59	75.6	4.2	1.19	.35	-2.02	-3.60	1304	115
<u>EC DIST 6</u>										
Aitkin	99	48	74.0	7.2	0	-1.06	-2.82	-3.46	1058	149
Forest Lake	100	55	76.6	5.7	.06	-.96	-3.58	-1.42	1301	144
MSP Airport	99	60	80.5	7.2	.19	-.71	-3.24	-1.38	1453	193
St. Paul - UoFM	98	57	78.4	4.9	.90	-.09	-2.56	-.51	1420	118
<u>SW DIST 7</u>										
Lamberton	96	55	74.6	2.3	.88	.07	-.74	4.89	1277	20
Pipestone	97	53	75.0	3.3	0	-.75	-2.70	-3.33	1212	35
Redwood Falls	98	55	77.0	3.4	.23	-.62	-2.65	-.13	1323	1
Worthington	95	54	74.4	3.2	.06	-.74	-2.21	.93	1281	121
<u>SC DIST 8</u>										
Faribault	94	57	75.2	3.6	.67	-.29	-2.96	-4.91	1262	87
Mankato	94	58	74.4	2.2	.83	-.14	-3.50	-1.57	1275	45
Waseca	91	60	75.0	3.6	1.18	.19	-2.35	-.02	1305	93
Winnebago	94	56	75.0	2.9	.07	-.85	-2.82	-1.45	1335	97
<u>SE DIST 9</u>										
Preston	93	54	74.1	3.6	.24	-.81	-2.44	.48	1150	31
Red Wing	96	59	75.3	3.1	.28	-.69	-2.97	-5.32	1290	80
Rochester	91	59	75.2	5.0	.89	-.15	-2.45	-1.39	1264	153
Rosemount	94	57	73.9	2.8	1.26	.21	-1.71	-2.81	1259	98
Winona	95	60	75.4	.5	.23	-.72	-2.14	-4.56	1284	-68

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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