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MINNESOTA AGRICULTURAL STATISTICS SERVICE IN COOPERATION WITH THE NATIONAL WEATHER SERVICE  
TWIN CITIES INT'L AIRPORT, UNIV. OF MINN. EXTENSION SERVICE, AND STATE CLIMATOLOGY, FSA, NRCS, DNR

**IMPROVED CONDITIONS ACCELERATE CROP GROWTH**

Improved soil and weather conditions this week helped crops make rapid progress, according to the Minnesota Agricultural Statistics Service. Warm temperatures and below average rainfall reported statewide were responsible for the accelerated crop growth. Despite the recent crop advancements, development and growing degree days still lag behind the five year averages.

The average temperature for the week was 70.3 degrees, 0.2 degree above normal. Hail was reported in the Southwest District, but the majority of the state experience a dry week. Statewide topsoil moisture supplies as of July 16th were rated 4% short, 83% adequate, and 13% surplus.

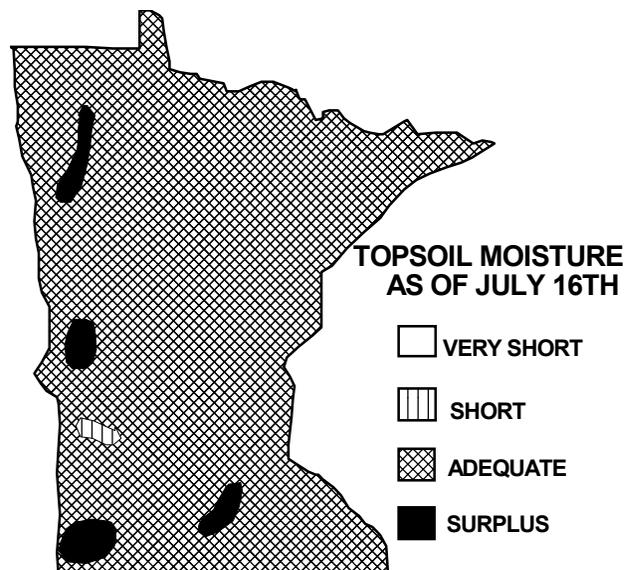
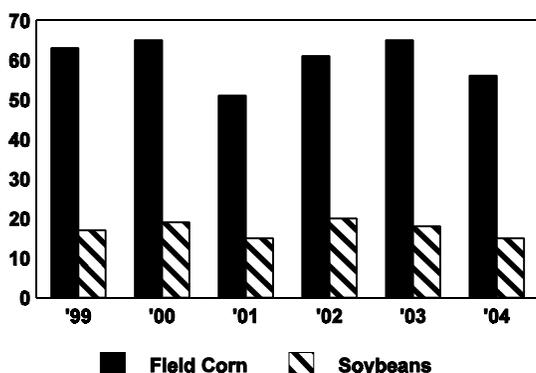
Corn height was 56 inches, compared with 65 inches last year and 61 inches for the five year average. Twelve percent of corn was silking, compared to 34% last year and 30% for the five year average. Soybean height was 15 inches, compared to 18 inches for last year and the five year average. Soybeans were 46% blooming compared to the five year average of 52%. Two percent are setting pods, below the five year average of 6%.

Corn condition rating of good to excellent was 64% compared to 60% last week. Soybean condition was rated 53% good to excellent, unchanged from last week.

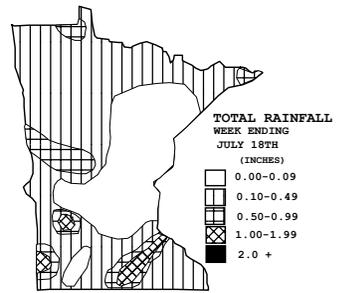
Spring wheat was 94% heading compared with 99% last year and 94% for the five year average. Spring wheat turning ripe was 17%, below the five year average of 30%. Barley heading was at 93% compared to 99% last year and 95% for the five year average. Barley turning ripe was at 14% compared to 39% last year and 35% for the five year average. Oats were 92% heading compared to the five year average of 97%. Oats were 38% turning ripe which is below the five year average of 52%. Oats were 3% harvested, slightly above the five year average of 2%.

Days Suitable for Fieldwork : 4.7					
		Very Short	Short	Ade-quate	Sur- plus
Topsoil Moisture (%)		0	4	83	13
Crop Progress as of July 18, 2004					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
Corn	Height - Inches	56	39	65	61
	Silking	12	1	34	30
	Milk	0	NA	1	1
Soybeans	Height - Inches	15	11	18	18
	Blooming	46	24	54	52
	Setting Pods	2	0	5	6
Spring Wheat	Heading	94	71	99	94
	Turning Ripe	17	7	31	30
Oats	Heading	92	78	99	97
	Turning Ripe	38	17	46	52
	Harvested	3	NA	0	2
Barley	Jointed	99	90	99	99
	Heading	93	67	99	95
	Turning Ripe	14	5	39	35
Crop Condition as of July 16 in Percent					
	Very Poor	Poor	Fair	Good	Exc
Pasture	1	4	30	58	7
Spring Wheat	1	4	31	47	17
Barley	2	5	48	39	6
Oats	1	5	30	51	13
Dry Beans	1	6	43	46	4
Canola	4	24	52	20	0
Potatoes	0	2	26	48	24
Sunflowers	2	10	51	35	2
Corn	2	5	29	52	12
Sugarbeets	0	3	34	52	11
Soybeans	2	10	35	46	7

**CORN & SOYBEANS HEIGHT  
IN INCHES AS OF JULY 18th 1999-2004**



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING JULY 18, 2004:  
 Temperatures averaged from 0.8 degree below normal in the South-east District to 1.1 degrees above normal in the Northwest District. Extremes: 91° in Fergus Falls; 46° in Hibbing. Precipitation averaged from 0.97 inch below normal in the East Central District to 0.03 inch below normal in the South Central District. Greatest weekly total was 1.73 inches.



Precipitation and Temperature Summary for 7/12/2004 through 7/18/2004

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Week Depart from Norm	Week Total	Depart Past Four Weeks	From Norm Since 4/1	Since Apr 29	Depart from Norm	
<u>NW DIST 1</u>										
Crookston	84	55	69.9	.3	.25	-.44	1.01	4.52	829	-306
Moorhead	87	57	72.6	1.9	.61	-.03	.54	1.47	986	-201
Warroad	85	52	68.4	1.0	.56	-.27	-1.64	4.87	721	-254
<u>NC DIST 2</u>										
Grand Rapids	87	54	69.6	2.0	.02	-1.03	-.06	-1.83	868	-127
Intl. Falls	85	47	65.2	-1.1	.10	-.65	-.23	.25	691	-238
Itasca	84	52	67.8	1.6	.17	-.70	.23	-2.03	765	-153
<u>NE DIST 3</u>										
Duluth	83	52	66.9	1.1	0	-.94	-1.27	-2.74	666	-167
Grand Marais	83	51	63.4	2.8	.88	.11	-.43	.62	416	-112
Hibbing	84	46	65.2	-.9	.03	-1.06	-1.93	-2.83	720	-174
Isabella	83	50	64.6	-1.7	.32	-.60	-1.75	-1.54	576	-357
<u>WC DIST 4</u>										
Alexandria	83	58	70.3	-.0	.18	-.53	-1.54	-.69	890	-244
Browns Valley	M	M	M	M	M	M	1.20m	3.41m	863m	-396m
Canby	88	59	73.6	.2	.36	-.39	-1.54	1.28	1127	-196
Fergus Falls	91	57	73.0	2.8	.83	.09	.10	1.49	977	-171
Montevideo	86	57	71.2	-.4	1.30	.54	-1.39	1.63	1072	-159
Morris	86	59	71.6	.3	.07	-.82	-.98	1.41	982	-251
<u>CENT DIST 5</u>										
Becker	84	57	72.1	1.9	0	-.94	-1.20	4.81	1004	-137
Hutchinson	86	58	72.4	.0	.05	-.78	.06	3.85	1101	-192
Olivia	85	57	71.4	-.3	.10	-.69	-1.72	2.31	1078	-202
St. Cloud	83	54	70.1	.0	0	-.71	-.80	2.09	1012	-121
Staples	83	54	69.4	1.6	.88	.07	3.16	2.25	842	-187
Willmar	85	60	72.3	.8	.03	-.78	-1.44	2.88	1047	-204
<u>EC DIST 6</u>										
Aitkin	83	53	67.2	.3	0	-1.06	-.61	-1.93	788	-170
MSP Airport	86	62	74.0	.5	0	-.89	-1.09	1.42	1155	-173
St. Paul - UofM	86	58	72.6	-1.2	.01	-.97	-.10	2.29	1187	-199
<u>SW DIST 7</u>										
Lamberton	90	59	73.4	1.1	.02	-.78	-.62	1.66	1118	-204
Pipestone	85	55	70.8	-1.0	1.10	.36	-.29	2.23	1045	-195
Redwood Falls	89	58	73.0	-.7	.19	-.66	-1.41	5.02	1141	-250
Worthington	87	57	71.9	.7	.09	-.69	3.23	2.66	1105	-116
<u>SC DIST 8</u>										
Faribault	86	56	71.4	-.4	.74	-.22	.76	6.39	1126	-127
Mankato	85	57	71.3	-1.0	.19	-.76	1.70	5.91	1112	-183
Waseca	85	56	71.5	.0	1.73	.73	2.62	5.96	1166	-109
Winnebago	86	56	71.4	-.8	1.04	.12	1.41	3.20	1149	-153
<u>SE DIST 9</u>										
Preston	82	54	68.9	-1.7	.34	-.71	.15	10.46	1085	-93
Red Wing	87	59	73.0	.7	1.21	.24	-1.22	2.73	1136	-139
Rochester	83	57	69.8	-.5	.18	-.87	-.24	7.20	1090	-81
Rosemount	83	52	70.0	-1.2	.16	-.89	-1.12	2.13	1098	-124
Winona	87	60	73.5	-1.1	.21	-.74	-1.36	6.18	1185	-213

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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