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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

HOT AND DRY CONDITIONS NEEDED TO ADVANCE CROP GROWTH

Warmer weather and drier skies are needed to advance crop growth, according to the Minnesota Agricultural Statistics Service. Although crop conditions are slowly improving, low temperatures and above average precipitation continue to slow crop progress across the state. Growing degree days lag behind normal statewide.

The average temperature for the week was 64.0 degrees, 5.5 degrees below normal. Statewide topsoil moisture supplies as of July 9th were rated 6% short, 77% adequate, and 17% surplus.

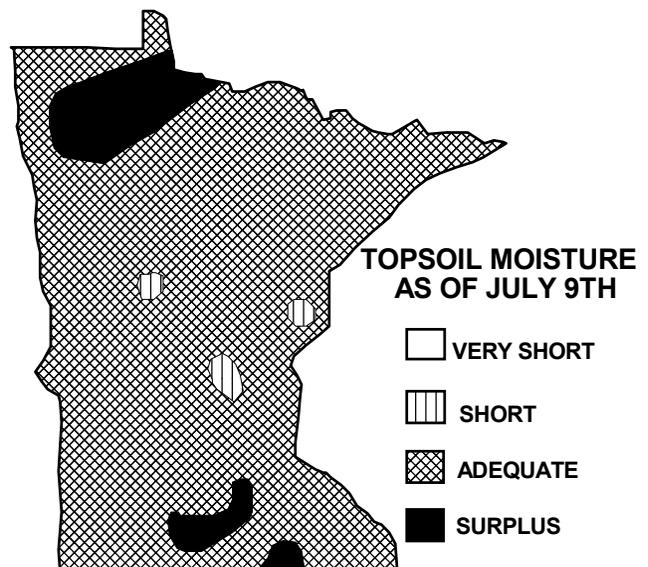
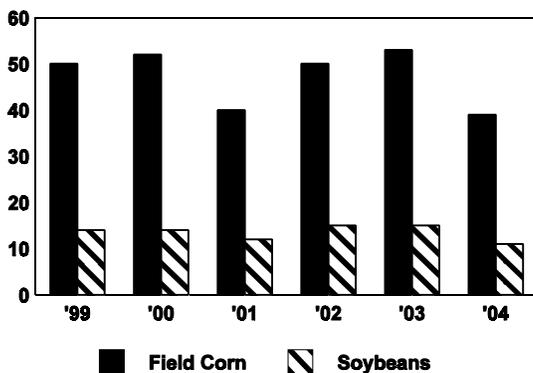
Corn height was 39 inches, compared with 53 inches for last year and 49 inches for the five year average. Soybean height was 11 inches, compared to 14 inches for the five year average.

Corn condition rating of good to excellent was 60%, unchanged from last week. Soybean condition was rated 53% good to excellent compared to 51% last week.

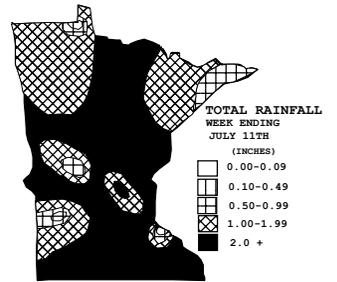
Spring wheat was 71% heading compared with 96% last year and 85% for the five year average. Seven percent of spring wheat was turning ripe compared to 12% last year and 11% for the five year average. Barley heading was at 67% compared to 96% last year and 83% for the five year average. Barley turning ripe was at 5% compared to 13% for the five year average. Oats were 78% heading compared to the five year average of 91%. Oats were 17% turning ripe which is below the five year average of 24%.

Days Suitable for Fieldwork : 3.4					
		Very Short	Ade-quate	Sur- plus	
Topsoil Moisture (%)		0	6	77	17
Crop Progress as of July 11, 2004					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
Corn	Height - Inches	39	25	53	49
	Silking	1	0	6	6
Soybeans	Height - Inches	11	8	15	14
	Blooming	24	6	29	28
Spring Wheat	Setting Pods	0	NA	1	1
	Jointed	96	87	99	97
	Heading	71	42	96	85
Oats	Turning Ripe	7	1	12	11
	Jointed	94	91	99	98
Barley	Heading	78	63	97	91
	Turning Ripe	17	4	19	24
	Jointed	90	74	99	98
Alfalfa Hay	Heading	67	36	96	83
	Turning Ripe	5	1	17	13
	First Cutting	95	91	98	97
Crop Condition as of July 9 in Percent					
	Very Poor	Poor	Fair	Good	Exc
Pasture	1	4	25	61	9
Spring Wheat	1	2	31	55	11
Barley	0	7	47	40	6
Oats	0	4	26	58	12
Dry Beans	1	8	50	39	2
Canola	0	30	50	20	0
Potatoes	0	4	29	44	23
Sunflowers	0	8	53	37	2
Corn	1	6	33	51	9
Sugarbeets	0	3	31	58	8
Soybeans	2	12	33	48	5

**CORN & SOYBEANS HEIGHT
IN INCHES AS OF JULY 11th 1999-2004**



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING JULY 11, 2004:
 Temperatures averaged from 6.0 degrees below normal in the East Central District to 4.8 degrees below normal in the South Central District. Extremes: 88° in Canby; 38° in Hibbing. Precipitation averaged from 0.24 inch above normal in the Northeast District to 1.94 inches above normal in the South Central District. Greatest weekly total was 4.37 inches.



Precipitation and Temperature Summary for 7/5/2004 through 7/11/2004

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Week	From Four Weeks	Since 4/1	Since Apr 29	Depart from Norm
<u>NW DIST 1</u>										
Crookston	82	46	62.9	-6.0	1.74	1.01	.86	4.97	689	-309
Moorhead	85	44	63.9	-6.1	2.50	1.81	.13	1.50	826	-217
Warroad	83	52	63.0	-3.8	.37	-.50	-1.55	5.14	592	-259
<u>NC DIST 2</u>										
Grand Rapids	84	46	62.4	-4.6	3.31	2.22	-.04	-.80	730	-139
Intl. Falls	84	41	61.0	-4.6	2.56	1.75	-.43	.90	581	-231
Itasca	82	44	57.6	-8.0	1.92	1.00	.30	-1.33	640	-162
<u>NE DIST 3</u>										
Duluth	77	47	59.8	-5.1	1.88	.91	-1.32	-1.79	547	-172
Grand Marais	74	48	56.6	-2.5	.76	-.03	-1.35	.51	320	-125
Hibbing	80	38	59.3	-6.1	1.45	.33	-1.81	-1.77	608	-171
Isabella	76	44	58.3	-7.4	.70	-.24	-2.12	-.94	472	-344
<u>WC DIST 4</u>										
Alexandria	82	48	63.9	-5.7	.89	.11	-1.95	-.16	746	-246
Browns Valley	87	46	65.2	-6.6	3.09	2.29	1.64	4.19	863	-241
Canby	88	47	65.8	-7.0	.95	.13	-1.26	1.67	961	-203
Fergus Falls	86	48	65.0	-4.4	1.82	1.04	-.67	1.40	818	-189
Montevideo	87	49	66.5	-4.6	.43	-.39	-2.61	1.09	922	-160
Morris	87	50	63.8	-6.9	2.20	1.28	-.93	2.23	827	-258
<u>CENT DIST 5</u>										
Becker	84	49	66.4	-3.1	2.12	1.15	-1.21	5.75	848	-152
Hutchinson	82	48	65.8	-6.1	2.74	1.86	.44	4.63	943	-196
Olivia	83	48	64.5	-6.8	1.07	.21	-1.49	3.00	926	-204
St. Cloud	82	46	65.0	-4.4	1.82	1.04	-.77	2.80	869	-123
Staples	82	46	61.2	-6.0	3.95	3.08	2.58	2.19	705	-198
Willmar	83	49	65.5	-5.6	2.38	1.47	-1.67	3.66	890	-212
<u>EC DIST 6</u>										
Aitkin	83	46	59.2	-7.1	2.47	1.40	-.31	-.87	665	-172
MSP Airport	83	52	67.4	-5.4	1.87	.95	-1.24	2.31	985	-184
St. Paul - UofM	82	51	67.9	-5.4	3.08	2.06	-.27	3.26	1027	-197
<u>SW DIST 7</u>										
Lamberton	84	47	65.8	-6.2	1.55	.72	.04	2.44	957	-212
Pipestone	82	49	64.5	-6.7	1.01	.22	.30	1.87	897	-193
Redwood Falls	86	50	67.4	-5.9	1.44	.56	-1.52	5.67	981	-250
Worthington	83	50	65.6	-5.2	4.37	3.52	3.22	3.35	951	-122
<u>SC DIST 8</u>										
Faribault	81	49	66.3	-5.1	2.41	1.45	.11	6.61	976	-127
Mankato	82	50	66.6	-5.2	2.18	1.14	1.16	6.68	961	-180
Waseca	81	48	66.7	-4.5	3.60	2.61	1.06	5.23	1014	-111
Winnebago	83	49	67.4	-4.4	3.50	2.55	.47	3.08	998	-152
<u>SE DIST 9</u>										
Preston	82	44	65.4	-4.8	2.26	1.20	1.91	11.17	950	-84
Red Wing	83	52	67.1	-4.6	.38	-.59	-2.31	2.49	974	-147
Rochester	80	49	65.0	-4.9	2.83	1.80	1.53	8.07	950	-79
Rosemount	85	51	68.8	-2.0	2.24	1.18	-1.31	3.02	974	-101
Winona	83	53	66.5	-7.6	1.56	.62	-.67	6.92	1020	-212

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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