



# Minnesota Ag News – Crop Weather

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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

## CONTINUED HOT WEATHER REDUCES TOPSOIL MOISTURE SUPPLIES

Hot temperatures persisted across the state early in the week, according to the USDA, NASS, Minnesota Field Office. Statewide average temperatures were nearly 9° above normal and set records at several reporting stations. More seasonable temperatures returned by the weekend, and thunderstorms crossed northern Minnesota. As of July 8, topsoil moisture supplies were rated 60 percent adequate to surplus, down from 78 percent a week earlier. Precipitation amounts varied and most southwestern areas remained dry. The greatest weekly precipitation total was over 4 inches reported in Aitkin. Statewide, 6.0 days were rated suitable for fieldwork.

Forty-one percent of corn was silking and beyond, compared to 0 percent last year and 8 percent for the five year average. Corn condition was rated 1 percent very poor, 4 percent poor, 18 percent fair, 62 percent good, and 15 percent excellent. Soybeans blooming advanced to 57 percent, compared to 12 percent last year, and 21 percent average. Three percent of soybeans were setting pods. Soybean condition was rated 1 percent very poor, 6 percent poor, 21 percent fair, 64 percent good, and 8 percent excellent.

Small grain development advanced rapidly. Spring wheat was 62 percent turning ripe, compared to 1 percent last year and 8 percent average. Barley was 70 percent turning ripe, compared to 0 percent last year and 11 percent average. Three percent of barley was harvested. Oats were 69 percent turning ripe, compared to 4 percent last year, and 18 percent average. Six percent of oats were harvested. All three small grains were rated in primarily fair to good condition.

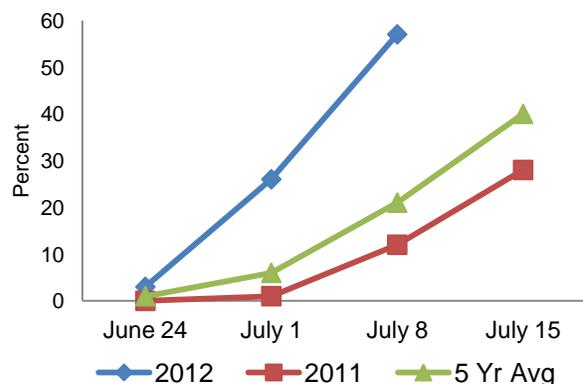
Range and pasture condition was rated 3 percent very poor, 12 percent poor, 24 percent fair, 54 percent good, and 7 percent excellent compared to 1 percent very poor, 6 percent poor, 19 percent fair, 62 percent good, and 12 percent excellent the previous week.

Days Suitable for Fieldwork: 6.0				
	Very Short	Short	Adequate	Surplus
	----- Percent -----			
Topsoil Moisture	9	31	54	6

Crop Progress as of July 8, 2012					
Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
		----- Percent -----			
Oats	Turning Ripe	69	29	4	18
Oats	Harvested	6	3	0	0
Spring Wheat	Turning Ripe	62	16	1	8
Barley	Turning Ripe	70	18	0	11
Barley	Harvested	3	1	0	0
Corn	Height	64	49	35	49
Corn	Silking	41	5	0	8
Corn	Milk	1	NA	0	0
Soybeans	Height	17	13	9	13
Soybeans	Blooming	57	26	12	21
Soybeans	Setting Pods	3	NA	0	1
Dry Beans	Blooming	33	9	4	NA
Dry Beans	Setting Pods	1	NA	0	NA

Condition as of July 8, 2012					
	Very Poor	Poor	Fair	Good	Exc
	----- Percent -----				
Pasture	3	12	24	54	7
Oats	1	5	22	63	9
Barley	1	3	26	62	8
Spring Wheat	3	6	30	51	10
Sugarbeets	1	2	19	66	12
Sunflowers	0	1	16	75	8
Corn	1	4	18	62	15
Soybeans	1	6	21	64	8
Potatoes	0	1	9	58	32
Canola	0	1	39	54	6
Dry Beans	1	5	26	56	12

Soybeans Blooming



The following links 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 8, 2012:  
 Temperatures averaged from 5.5 degrees above normal in the North Central District to 11.7 degrees above normal in the Southeast District. Extremes: 47 degrees in International Falls; 102 degrees at the Minneapolis Airport. Average precipitation ranged from 0.96 inch below normal in the South Central District to 0.84 inch above normal in the East Central District. Greatest weekly total of 4.27 inches was recorded in Aitkin.

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 7/2/2012 through 7/8/2012

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Four Weeks	From Norm Since 4/1	Since Apr 30	Depart from Norm	
<u>NW DIST 1</u>										
Crookston	95	56	75.9	7.6	.93	.20	-.26	-2.60	1081	194
Itasca	M	M	M	M	M	M	-.67m	-1.38m	817m	68m
Moorhead	96	54	76.8	6.7	.32	-.41	-.93	-1.97	1201	228
Warroad	87	54	70.0	3.7	1.69	.74	.88	-.88	838	78
<u>NC DIST 2</u>										
Grand Rapids	94	55	72.8	5.6	2.02	.98	4.68	10.11	953	134
Intl. Falls	89	47	69.9	5.5	.72	-.19	-.96	-1.75	878	170
<u>NE DIST 3</u>										
Duluth	90	59	72.2	7.6	.81	-.12	6.51	10.23	894	228
Grand Marais	89	57	68.5	9.3	1.00	.22	-.14	2.10	524	98
Hibbing	90	49	69.6	6.3	1.53	.47	1.59	6.70	844	208
<u>WC DIST 4</u>										
Alexandria	96	61	78.4	8.7	.20	-.63	-.02	3.10	1091	162
Breckenridge	96	59	76.5	6.7	.74	-.15	-.50	.43	1111	149
Browns Valley	100	57	78.2	7.8	0	-.85	-1.80	-1.70	1115	149
Canby	97m	72m	84.5m	12.5m	0m	-.87m	-1.16m	.95m	1092m	47m
Montevideo	98	61	80.2	9.2	0	-.90	-.77	4.43	1220	204
Morris	94	61	78.2	8.4	0	-.93	-1.73	-1.29	1131	163
Wheaton	97	61	77.1	6.3	.02	-.80	-.64	-.12	1125	137
<u>CENT DIST 5</u>										
Becker	97	62	80.1	9.8	.76	-.29	.81	5.96	1193	187
Collegeville	98	61	80.9	9.3	0	-.91	-.53	4.89	1218	170
Hutchinson	98	63	81.7	10.2	1.14	.28	2.75	7.44	1232	192
Melrose	96	62	79.4	10.1	.02	-.85	-.24	2.79	1120	192
Olivia	97	63	81.8	10.9	0	-.91	-.79	1.53	1212	187
St. Cloud	97	63	79.5	9.9	.81	-.00	-1.19	3.90	1170	232
Wadena	93	57	74.3	7.4	1.65	.73	1.95	6.29	963	148
Willmar	96	63	80.3	8.9	0	-.97	.05	2.22	1174	132
<u>EC DIST 6</u>										
Aitkin	94m	62m	78.6m	11.8m	4.27	3.24	7.78	15.59	950m	156m
Forest Lake	99	60	79.7	8.6	1.06	.02	-.25	5.79	1194	173
MSP Airport	102	64	84.1	11.0	.59	-.34	-.17	5.22	1328	229
Mora	96	60	76.9	8.4	2.22	1.27	1.95	7.78	1068	180
St. Paul - UofM	99	62	81.5	10.4	1.05	.01	.19	3.30	1226	205
<u>SW DIST 7</u>										
Lamberton	98	64	82.6	11.1	0	-.90	-3.00	2.81	1267	204
Marshall	98	63	83.2	11.3	0	-.87	-1.52m	1.30m	1310	249
Pipestone	98	60	79.4	8.7	0	-.85	-2.17	6.31	1168	172
Redwood Falls	100	65	82.4	10.3	.10	-.78	-2.18	3.75	1300	212
Worthington	98	59	81.5	10.4	.18	-.75	-3.84	.39	1240	217
<u>SC DIST 8</u>										
North Mankato	99	63	84.2	12.6	.12	-.94	-3.64	-1.78	1237	177
Owatonna	100	64	83.2	11.7	.05	-1.01	2.15	5.30	1273	231
Waseca	96	65	81.5	9.8	.11	-.91	-.18	-.35	1251	170
Winnebago	98	66	82.2	10.3	.01	-.98	-1.07	1.85	1298	220
<u>SE DIST 9</u>										
Cannon Falls	M	M	M	M	M	M	11.01m	13.09m	1013m	18m
Preston	101	68	83.0	12.7	0	-1.05	-3.11	-4.38	1249	274
Red Wing	100	66	83.0	11.3	.56	-.32	7.74	8.46	1282	237
Rochester	96	65	81.4	10.4	0	-1.06	-1.52	-2.01	1292	259
Rosemount	98	63	81.2	10.2	.04m	-.99m	1.72m	3.95m	1229	213
Winona Dam	100	66	84.1	13.0	0	-.96	-.78	-2.17	1252	239

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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