



Crops & Weather

National Agricultural Statistics Service
Minnesota Field Office

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In Cooperation with the Minnesota Department of Agriculture, National Weather Service – Chanhassen MN,
Univ. of Minn. Extension Service, DNR State Climatology Office, USDA-FSA, USDA-NRCS, and Local FACs

Released July 22, 2013

Issue No: CW2913

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Warm weather advanced crop development in Minnesota during the week ending July 21, 2013 according to the USDA, National Agricultural Statistics Service. The National Weather Service issued multiple heat advisories statewide and later in the week announced flood warnings in the northeast part of the state. Topsoil and subsoil moisture supplies remained mostly adequate. Temperatures averaged 4.0 degrees above normal at 74.1 degrees statewide. A statewide weekly average of 0.78 inches of rain fell, with the Northeast region receiving the most rain at 1.85 inches. Six days were suitable for field work last week, compared to last year's 6.3 days.

Nineteen percent of corn was at or beyond the silking stage, behind last year's 92 percent and the five year average of 46 percent. Corn stalks grew an average of 15 inches last week to 59 inches. Corn conditions remained at 64 percent good or excellent. Thirty-nine percent of the soybeans were at or beyond the blooming stage, an advancement of 18 percentage points from the previous estimate. Soybean plants grew 4 inches to 16 inches tall. Soybean conditions improved to 65 percent good or excellent. Barley and spring wheat have nearly finished heading at 97 and 96 percent, respectively. Spring wheat conditions improved to 65 percent good or excellent. Thirty-two percent of the oats have turned ripe, behind last year's 94 percent and the average of 61 percent.

The second cutting of alfalfa advanced 37 percentage points to 51 percent complete. Pasture conditions improved to 75 percent good or excellent. Alfalfa conditions also improved and now stand at 65 percent good or excellent. Other crop conditions were rated primarily in the good and excellent categories.

Soil Moisture Levels as of July 21, 2013

	Very Short	Short	Adequate	Surplus
	Percent	Percent	Percent	Percent
Topsoil Moisture	2	13	81	4
Subsoil Moisture	1	12	82	5

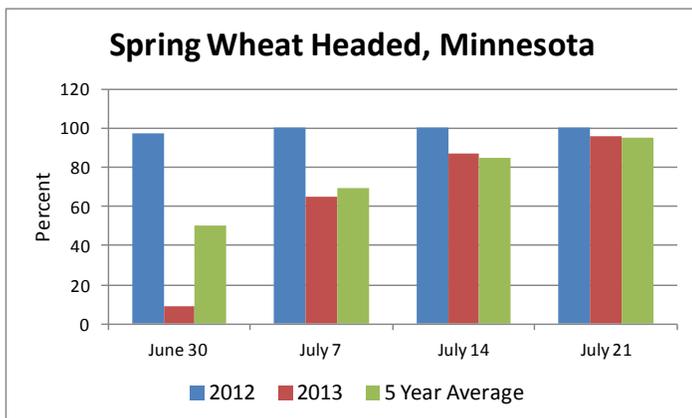
Crop Condition as of July 21, 2013

	Very Poor	Poor	Fair	Good	Exc.
Pasture.....	1	4	20	63	12
Oats.....	0	4	20	64	12
Barley.....	1	7	34	50	8
Spring Wheat.....	2	5	28	52	13
Sugarbeets.....	0	5	19	65	11
Sunflowers.....	0	2	45	44	9
Corn.....	3	6	27	54	10
Soybeans.....	1	6	28	56	9
Potatoes.....	1	1	13	49	36
Canola.....	0	1	47	49	3
Dry Beans.....	1	7	28	50	14
Alfalfa.....	1	6	28	49	16

Crop Progress as of July 21, 2013

	This Week	Last Week	Last Year	5 Yr Avg
Days Suitable for Fieldwork	6.0	5.7	6.3	5.4

	Percent	Percent	Percent	Percent
Corn silking.....	19	1	92	46
Corn, height in inches.....	59	44	75	69
Soybeans blooming.....	39	21	89	61
Soybean height, inches.....	16	12	24	20
Oats jointed.....	98	91	100	100
Oats headed.....	89	80	100	97
Oats turning ripe.....	32	4	94	61
Spring Wheat headed.....	96	87	100	95
Barley jointed.....	99	94	100	100
Barley headed.....	97	82	100	93
Dry Beans blooming.....	42	12	90	NA
Alfalfa, second cutting.....	51	14	NA	NA



Precipitation and Temperature Summary for 7/15/2013 through 7/21/2013

	Temperature				Precipitation				G D D	
	High	Low	Week Average	Depart from Norm	Week Total	Depart From Normal			Since 05/16	Depart From Norm
						Past Week	Four Weeks	Since 4/1		
NORTHWEST DISTRICT										
Crookston	88	50	72	2.6	0.4	-0.24	-0.47	-1.89	1154	127
Itasca	M	M	M	M	M	M	-2.89m	-3.80m	558m	-331m
Moorhead	95	53	74.9	3.5	0.55	-0.04	1.92	7.76	1259	140
Pembina, ND	83	48	65.6	-1.9	2.37	1.7	2.3	2.59	1026	94
Warroad	85	47	68	0.5	0.88	0.05	-0.46	-4.15m	882m	-22m
NORTH CENTRAL DISTRICT										
Grand Rapids	92	49	72	3.5	0.63	-0.33	-0.41	-0.74	985	25
Intl. Falls	89	41	66.2	0.7	2.53	1.7	1.15	2.47	934	103
NORTH EAST DISTRICT										
Duluth	94	51	72.6	6.3	0.18	-0.67	-2.39	1.4	902	98
Grand Marais	83	45	59.1	-3.1	3.95	3.27	4.08	8.65	427	-121
Hibbing	91	43	69	4.4	1.42	0.43	1.07	0.57	935	178
WEST CENTRAL DISTRICT										
Alexandria	90	60	75.4	4.4	0.28	-0.46	-0.73	-0.25	1145	65
Breckenridge	91	61	74.5	3.4	0.26	-0.56	-1.54	-1.23m	1080m	-26m
Browns Valley	92	57	74.9	3.2	0.39	-0.38	-1.87m	.96m	1012m	-106m
Canby	92	62	76	2.9	1.28	0.53	-0.05	6.36m	1182	-19
Montevideo	92	60	76.2	4.3	1.33	0.53	0.5	6.27	1169	5
Morris	94	61	74.8	4.1	0.89	0.03	-1.41	3.62	1137	26
Wheaton	93	61	75.4	3.4	1.18	0.49	-1.18	-0.43	1166	22
CENTRAL DISTRICT										
Becker	94	63	79.6	8.1	0.11	-0.87	-2.23	-2.64	1211	73
Collegeville	91	58	76.8	4	0.15	-0.62	-2.37	2.35	1172	-22
Hutchinson	95	62	77.6	5.3	0.1	-0.64	-1.87m	3.13m	1193m	1m
Melrose	93	59	75.6	5.3	1	0.21	-1.79	2.65	1124	53
Olivia	91	58	74.8	3.2	0	-0.76	-1.99	2.72	1118	-51
St. Cloud	94	57	76.2	5.5	0.14	-0.56	-1.79	2.81	1126	42
Wadena	88	52	71	3.1	1.9	1.11	-1.19m	.31m	912m	-39m
Willmar	92	59	75.4	3.2	0.11	-0.7	-2.28	-82m	1141	-49
EAST CENTRAL DISTRICT										
Aitkin	92	52	73.4	5.5	1.4	0.48	-0.18	2.56m	900m	-32m
Forest Lake	96	59	78.6	6.6	0	-0.99	0.01	2.82	1175	4
MSP Airport	94	59	79.9	5.7	0.29	-0.6	0.2	7.08	1341	86
Mora	91	53	74.8	5.2	0.03	-0.85	-1.31	1.93m	1065	36
St. Paul - UofM	91	58	77.4	5.4	0.05	-0.94	-0.51	8.26	1171	0
SOUTH WEST DISTRICT										
Lamberton	92	61	76.6	4.5	0.05	-0.77	-2.62	0.1	1247	39
Marshall	92	62	76.9	4.1	0.4	-0.42	-2.04m	.39m	1227m	15m
Pipestone	90	60	74.2	2.4	1.4	0.68	-0.89	1.22m	1143m	1m
Redwood Falls	95	62	77.8	4.9	0	-0.78	-2.44	-1.95	1259	24
Sioux Falls	92	61	76.9	3.5	0.28	-0.39	-2.02	2.46	1251	47
SOUTH CENTRAL DISTRICT										
Worthington	93	59	77.6	5.8	0.02	-0.75	-3.33	.33m	1222m	49m
North Mankato	91	65	78.4	5.9	0.35	-0.59	-1.77m	-.18m	1239m	33m
Owatonna	92	63	78	5.8	0.25	-0.79	1.43	7.27	1212	21
Waseca	92	61	76.8	4.6	0.45	-0.53	1.22	8.5	1211	-11
Winnebago	93	63	78.2	5.6	0.55	-0.38	-1.14m	7.09m	1232m	8m
Cannon Falls	M	M	M	M	M	M	-3.10m	4.43m	781m	-367m
SOUTH EAST DISTRICT										
La Crosse	98	64	81.2	7.2	0.09	-0.86	-2.45	6.48	1332	56
Preston	92	58	76.6	5.4	0.11	-0.83	-1.98	11.60m	1165	40
Red Wing	94	63	79.6	6.8	0.1	-0.73	-0.53	3.64	1259	64
Rochester	92	62	76.5	4.8	0.75	-0.26	-0.51	12.93	1205	29
Rosemount	91	60	77	5.2	0.03	-0.97	-1.04m	2.75m	1174	9
Winona Dam	95	63	79.5	7.4	0.3	-0.65	-2.74	9.86	1236	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.

Data in this summary are courtesy of National Weather Service Offices and Cooperators, and the University of Minnesota Agricultural Experiment Station. This summary is prepared by the Minnesota Extension Service Agricultural Meteorologist and the Department of Natural Resources State Climatology Office.

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