



Minnesota Ag News – Crop Weather

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Released: June 20, 2011

Issue No: CW-24-11

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

COOL, WET CONDITIONS RETURN

Below average temperatures and persistent rainfall continued to delay crop progress behind the five-year average, according to the USDA, NASS, Minnesota Field Office. As of June 19, corn was 98 percent emerged with an average height of 10 inches, compared to 20 inches last year and 18 inches for the five-year average. Soybeans were 89 percent emerged with an average height of 3 inches, compared to 6 inches last year and 5 inches average.

Thirty-four percent of spring wheat and 32 percent of barley was jointed, both 28 percentage points behind their respective averages. Oats were 68 percent jointed and 11 percent heading, 22 points behind average. Planting was virtually complete for canola, dry beans, and sunflowers.

Corn condition was rated 1 percent very poor, 4 percent poor, 20 percent fair, 62 percent good, and 13 percent excellent while soybean condition was rated 1 percent very poor, 3 percent poor, 21 percent fair, 64 percent good, and 11 percent excellent.

Twenty-six percent of topsoil moisture supplies were rated surplus, compared with 14 percent the previous week. Statewide average precipitation was 1.8 inches. Significant rainfall fell Tuesday into Wednesday over portions of the south. Amounts were heavy at times, and some amounts set new rainfall records including 4.4 inches at Lamberton.

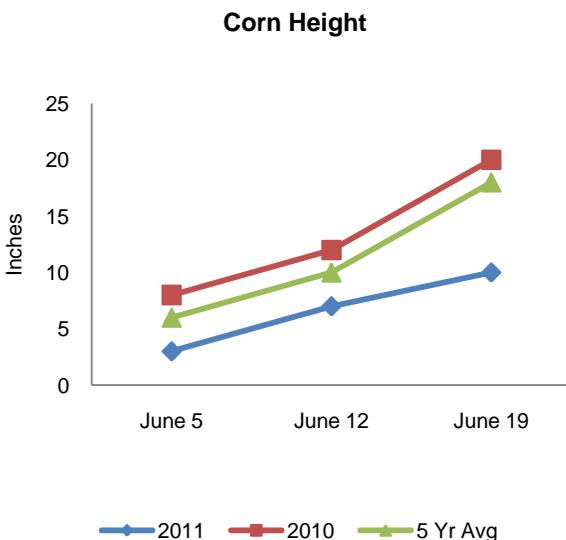
Producers, faced with only brief periods of sun and warm temperatures, reported a need for warm, dry weather. Wet field conditions have delayed herbicide applications in areas and contributed to difficulties in haying.

Pasture condition was rated 1 percent poor, 11 percent fair, 65 percent good, and 23 percent excellent.

| Days Suitable for Fieldwork: 4.1 | | | | |
|----------------------------------|---------------------|-------|----------|---------|
| | Very Short | Short | Adequate | Surplus |
| | ----- Percent ----- | | | |
| Topsoil Moisture | 0 | 1 | 73 | 26 |

| Crop Progress as of June 19, 2011 | | | | | |
|-----------------------------------|----------------------|---------------------|-----------|-----------|----------|
| Crop | Stage of Development | This Week | Last Week | Last Year | 5 Yr Avg |
| | | ----- Percent ----- | | | |
| Corn | Emerged | 98 | 90 | 100 | 100 |
| | Height (Inches) | 10 | 7 | 20 | 18 |
| Soybeans | Planted | 98 | 94 | 99 | 99 |
| | Emerged | 89 | 67 | 99 | 97 |
| Oats | Height (Inches) | 3 | NA | 6 | 5 |
| | Jointed | 68 | 32 | 92 | 75 |
| Spring Wheat | Heading | 11 | 3 | 60 | 33 |
| | Emerged | 99 | 93 | 100 | 100 |
| Barley | Jointed | 34 | 19 | 85 | 62 |
| | Heading | 1 | NA | 46 | 22 |
| Dry Beans | Jointed | 32 | 14 | 89 | 60 |
| | Heading | 4 | NA | 52 | 24 |
| Sweet Corn | Planted | 96 | 84 | 98 | 99 |
| | Emerged | 70 | 22 | NA | NA |
| Canola | Planted | 75 | 66 | 90 | 90 |
| Sunflowers | Planted | 96 | 90 | 100 | 100 |
| Alfalfa | Planted | 97 | 87 | 99 | 99 |
| | 1st Cutting | 74 | 59 | 77 | 75 |

| Condition as of June 19, 2011 | | | | | |
|-------------------------------|---------------------|------|------|------|-----|
| | Very Poor | Poor | Fair | Good | Exc |
| | ----- Percent ----- | | | | |
| Pasture | 0 | 1 | 11 | 65 | 23 |
| Soybeans | 1 | 3 | 21 | 64 | 11 |
| Corn | 1 | 4 | 20 | 62 | 13 |
| Oats | 0 | 3 | 20 | 61 | 16 |
| Barley | 1 | 2 | 11 | 66 | 20 |
| Spring Wheat | 1 | 1 | 18 | 65 | 15 |
| Sugarbeets | 1 | 2 | 23 | 63 | 11 |
| Potatoes | 0 | 1 | 21 | 61 | 17 |
| Canola | 0 | 0 | 24 | 71 | 5 |
| Alfalfa | 0 | 1 | 13 | 68 | 18 |
| Green Peas | 2 | 6 | 32 | 48 | 12 |
| Dry Beans | 1 | 3 | 32 | 56 | 8 |
| Sunflowers | 0 | 1 | 33 | 61 | 5 |



The following links provide 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 June 19, 2011:
 Temperatures averaged from 2.3 degrees below normal in the Northeast District to 0.4 degree above normal in the Northwest District. Extremes: 39 degrees in Warroad, Hibbing; 88 degrees in Winnebago. Average precipitation ranged from 0.25 inch below normal in the Northeast District to 2.23 inches above normal in the South Central District. Greatest weekly total of 4.76 inches was recorded in Lamberton.

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 6/13/2011 through 6/19/2011

| | Temperature | | | | Precipitation | | | | G D D | |
|--------------------|-------------|-----|----------|------------------|---------------|------------------------|---------------------|--------------|------------------|-------|
| | High | Low | Week Ave | Depart from Norm | Week Total | Depart Past Four Weeks | From Norm Since 4/1 | Since May 17 | Depart from Norm | |
| <u>NW DIST 1</u> | | | | | | | | | | |
| Crookston | 81 | 56 | 65.8 | .2 | .21 | -.64 | -1.43 | -1.27 | 423 | -37 |
| Itasca | 78 | 47 | 61.2 | -.8 | 1.17 | .13 | -.31 | 2.35 | 363 | -3 |
| Moorhead | 84 | 54 | 68.2 | 2.0 | .84 | -.01 | -.95 | .99 | 464 | -14 |
| Warroad | 76 | 39 | 62.0 | -1.2 | 1.05 | .14 | .05 | 2.82 | 321 | -68 |
| <u>NC DIST 2</u> | | | | | | | | | | |
| Grand Rapids | 79 | 50 | 61.2 | -1.9 | 1.44 | .33 | -.18 | .91 | 379 | -15 |
| Intl. Falls | 78 | 44 | 60.4 | -1.5 | 1.40 | .43 | -.60 | .91 | 335 | -37 |
| <u>NE DIST 3</u> | | | | | | | | | | |
| Duluth | 74 | 45 | 56.2 | -3.8 | 1.05 | .03 | -1.60 | -.39 | 268 | -49 |
| Grand Marais | 66 | 42 | 52.8 | -.5 | .33 | -.48 | -1.31 | -.37 | 163 | -21 |
| Hibbing | 76 | 39 | 58.5 | -2.8 | .73 | -.31 | -1.88 | -1.19 | 332 | -19 |
| <u>WC DIST 4</u> | | | | | | | | | | |
| Alexandria | 75 | 53 | 65.0 | -.3 | 1.02 | -.05 | -.11 | -.18 | 418 | -32 |
| Browns Valley | 78 | 52 | 65.1 | -2.2 | 1.41 | .62 | .83 | .71 | 409 | -94 |
| Canby | M | M | M | M | M | M | -1.74m | -1.41m | 346m | -189m |
| Montevideo | 83 | 54 | 66.2 | -1.7 | 1.27 | .25 | -.27 | -.14 | 468 | -44 |
| Morris | 77 | 55 | 65.6 | -1.6 | .97 | .02 | .03 | .96 | 437 | -62 |
| Wheaton | 77 | 55 | 65.0 | -2.4 | 1.58 | .66 | .30 | -.01 | 438 | -58 |
| <u>CENT DIST 5</u> | | | | | | | | | | |
| Becker | 82 | 51 | 65.7 | -.3 | 1.54 | .46 | -.90 | 2.08 | 488 | 19 |
| Collegeville | 78 | 53 | 66.2 | -1.5 | 2.17 | 1.04 | -.56 | 1.80 | 527 | 8 |
| Hutchinson | 81 | 44 | 66.6 | -1.5 | 2.80 | 1.72 | 1.99 | 6.79 | 478 | -40 |
| Melrose | 74 | 54 | 64.1 | -3.0 | 1.38 | .35 | -.56 | .49 | 434 | -57 |
| Olivia | 80 | 52 | 65.9 | -2.1 | 1.95 | .86 | .24 | 2.83 | 464 | -55 |
| St. Cloud | 78 | 51 | 65.6 | .3 | 1.18 | .07 | -.92 | 1.11 | 469 | 19 |
| Wadena | 77 | 52 | 62.2 | -1.3 | .79 | -.23 | -.77 | -.34 | 386 | -24 |
| Willmar | 78 | 55 | 65.4 | -1.6 | 2.42 | 1.15 | -.25 | 1.43 | 451 | -36 |
| <u>EC DIST 6</u> | | | | | | | | | | |
| Aitkin | 78 | 46 | 62.4 | -.1 | 2.30 | 1.27 | 1.89 | 5.00 | 441 | 62 |
| Forest Lake | 81 | 49 | 65.0 | -1.9 | 1.27 | .17 | -1.01 | 1.37 | 488 | -4 |
| Hinckley | 77 | 44 | 61.5 | -1.9 | 1.29 | .28 | .06 | 1.73 | 379 | -15 |
| MSP Airport | 84 | 55 | 69.4 | .8 | 2.43 | 1.39 | -.53 | 1.32 | 563 | 28 |
| St. Paul - UofM | 79 | 53 | 65.6 | -2.6 | 2.12 | .92 | -1.07 | .32 | 489 | -34 |
| <u>SW DIST 7</u> | | | | | | | | | | |
| Lamberton | 85 | 54 | 67.2 | -1.9 | 4.76 | 3.84 | 2.81 | 4.02 | 516 | -28 |
| Marshall | 85 | 49 | 65.4 | -3.5 | 1.22 | .33 | -.10 | .79 | 475 | -64 |
| Pipestone | 82 | 49 | 64.6 | -2.8 | 2.05 | 1.11 | 1.24 | 3.94 | 455 | -44 |
| Redwood Falls | 83 | 55 | 68.4 | -1.5 | 1.71 | .73 | -.22 | 3.09 | 531 | -41 |
| Worthington | 85 | 53 | 64.8 | -2.5 | 2.39 | 1.27 | 1.08 | 2.45 | 469 | -25 |
| <u>SC DIST 8</u> | | | | | | | | | | |
| Faribault | 84 | 47 | 66.2 | -1.5 | 3.73 | 2.74 | 2.91 | 4.39 | 486m | -14m |
| North Mankato | 84 | 54 | 67.0 | -1.6 | 3.89 | 2.51 | .97 | 1.64 | 507 | -22 |
| Waseca | 85 | 53 | 67.4 | -.8 | 2.41 | 1.43 | .81 | 1.88 | 535 | 13 |
| Winnebago | 88 | 52 | 67.6 | -1.4 | 3.34 | 2.25 | 1.32 | 2.72 | 534 | -5 |
| <u>SE DIST 9</u> | | | | | | | | | | |
| Preston | 85 | 45 | 65.2 | -1.6 | 2.38 | 1.29 | 2.72 | 3.53 | 508 | 35 |
| Red Wing | 83 | 46 | 65.9 | -2.0 | 1.66 | .71 | -.14 | -.52 | 523 | 10 |
| Rochester | 83 | 50 | 67.6 | 1.2 | 2.82 | 1.88 | .93 | 2.27 | 535 | 64 |
| Rosemount | 82 | 52 | 66.8 | -.6 | 2.55 | 1.46 | -.31m | 5.60m | 516 | 23 |
| Winona | 84 | 48 | 66.2 | -2.3 | 1.09 | .18 | -1.53 | -2.29 | 518 | -6 |

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.

Address Service Requested
 Publication No. 387190
 Minnesota Crop-Weather Report
 WEEKLY NEWS REPORT

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