



Minnesota Ag News – Crop Weather

USDA, NASS, Minnesota Field Office
P.O. Box 7068 – St. Paul, MN 55107
(651) 201-6030 · (651) 201-6479 FAX

Email: nass-mn@nass.usda.gov - Homepage: <http://www.nass.usda.gov>

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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

WARMER TEMPERATURES; SECONDARY CRESTING UNDERWAY

A second round of flooding was underway in Minnesota rivers and tributaries, according to the USDA, NASS, Minnesota Field Office. This spring's flood threat was magnified by high moisture in the soil after back-to-back wet years and near record winter snowfall. The Red River crested Saturday night at Fargo-Moorhead, and flood waters have closed roads and submerged fields in localized areas. Secondary crests occurred elsewhere, with many rivers and their tributaries' in flood stage.

A few reporters noted that soil is still too wet for fieldwork, and more warm, dry weather is needed to melt remaining frost, increase soil temperatures, and dry out soils before fieldwork can begin. Producers anticipated full scale fieldwork to begin on April 25, 4 days behind the five-year average. Topsoil moisture supplies were rated 46 percent adequate and 54 percent surplus, compared to 35 percent adequate and 65 percent surplus last week. One percent of land was prepared for corn and soybeans, behind last year but close to average pace.

A warming trend caused the weekly average temperature to increase to nearly 5° above normal. Temperatures ranged from the upper 40's in northern areas to 50's and 60's in central and southern areas. Readings reached over 70° in some areas over the weekend, accompanied by showers and thunderstorms that hit late Saturday night and again Sunday evening over parts of Minnesota and western Wisconsin.

Days Suitable for Fieldwork: 0.0

| | Very Short | Short | Adequate | Surplus |
|------------------|---------------------|-------|----------|---------|
| | ----- Percent ----- | | | |
| Topsoil Moisture | 0 | 0 | 46 | 54 |
| Subsoil Moisture | 0 | 1 | 48 | 51 |

Crop Progress as of April 10, 2011

| Crop | Stage of Development | This | Last | Last | 5 Yr |
|--|----------------------|---------------------|------|------|------|
| | | Week | Week | Year | Avg |
| | | ----- Percent ----- | | | |
| Corn | Land Prepared | 1 | NA | 8 | 2 |
| Soybeans | Land Prepared | 1 | NA | 3 | 1 |
| Oats | Planted | 0 | 0 | 30 | 7 |
| Spring Wheat | Planted | 0 | 0 | 9 | 2 |
| Barley | Planted | 0 | 0 | 11 | 3 |
| Approximate Date to Begin Full-Scale Fieldwork | | 4/25 | 4/22 | 4/13 | 4/21 |

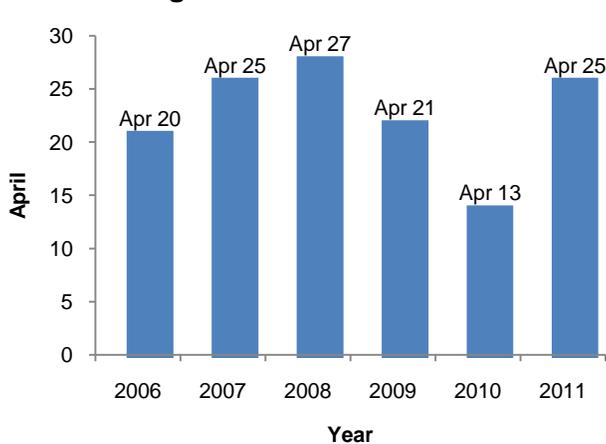
The following links provide further weather-related information and maps for Minnesota:

Minnesota Climatology Working Group provides statewide precipitation maps for the previous week:
<http://climate.umn.edu/doc/weekmap.asp>

Spring flood information:
http://climate.umn.edu/doc/journal/flood_2011/flooding_2011.htm

National Weather Service's Minnesota Data:
<http://www.nws.noaa.gov/view/states.php?state=MN>

Average Start Date for Fieldwork



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING April 10, 2011:
 Temperatures averaged from 3.8 degrees above normal in the Northeast District to 5.9 degrees above normal in the Southeast District. Extremes: 19 degrees in Itasca; 81 degrees in Rochester. Average precipitation ranged from 0.27 inch below normal in the West Central District to 0.56 inch above normal in the North Central District. Greatest weekly total of 1.94 inches was recorded in Redwood Falls.

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 4/4/2011 through 4/10/2011

| | Temperature | | | | Precipitation | | | |
|--------------------|-------------|-----|----------|------------------|---------------|----------------------------------|-----------|-------|
| | High | Low | Week Ave | Depart from Norm | Week Total | Depart From Norm Past Four Weeks | Since 4/1 | |
| <u>NW DIST 1</u> | | | | | | | | |
| Crookston | 56 | 28 | 40.8 | 3.8 | .76 | .50 | .19 | .58 |
| Itasca | 61 | 19 | 39.0 | 5.5 | .09 | -.28 | -.24 | -.21 |
| Moorhead | 62 | 27 | 42.6 | 3.6 | .77 | .49 | .95 | .37 |
| Warroad | 58 | 23 | 38.2 | 5.5 | 1.21 | .98 | .66 | 1.05 |
| <u>NC DIST 2</u> | | | | | | | | |
| Grand Rapids | 64 | 22 | 42.4 | 5.4 | .40 | .01 | -.36 | .19 |
| Intl. Falls | 59 | 20 | 39.3 | 4.4 | 1.40 | 1.12 | 1.17 | 1.60 |
| <u>NE DIST 3</u> | | | | | | | | |
| Duluth | 58 | 25 | 40.5 | 5.4 | .43 | -.03 | -.14 | .40 |
| Grand Marais | 51 | 26 | 36.7 | 1.2 | .25 | -.02 | .16 | .26 |
| Hibbing | 61 | 21 | 40.0 | 4.7 | .21 | -.11 | -.37 | .10 |
| <u>WC DIST 4</u> | | | | | | | | |
| Alexandria | 61 | 25 | 42.7 | 4.4 | .42 | .01 | -.50 | -.09 |
| Browns Valley | 65 | 25 | 43.0 | 2.8 | .06 | -.40 | -.07 | -.60 |
| Canby | 64 | 31 | 46.6 | 5.2 | .10 | -.41 | .47 | -.42 |
| Montevideo | 63 | 30 | 45.7 | 5.5 | .45 | -.03 | .35 | -.06 |
| Morris | 61 | 29 | 42.4 | 2.7 | .06 | -.38 | -.99 | -.51 |
| Wheaton | 66 | 28 | 44.0 | 5.0 | .06 | -.38 | -.60 | -.39 |
| <u>CENT DIST 5</u> | | | | | | | | |
| Becker | 64 | 28 | 45.6 | 5.2 | .71 | .17 | 1.14 | .71 |
| Collegeville | 64 | 25 | 46.2 | 4.8 | .40 | -.06 | .40 | -.26 |
| Hutchinson | 63 | 27 | 44.8 | 4.2 | 1.18 | .70 | .98 | .74 |
| Melrose | 62 | 27 | 43.8 | 5.2 | .36 | -.11 | .24 | -.30 |
| Olivia | 62 | 29 | 45.6 | 5.5 | .67 | .15 | 1.64 | .16 |
| St. Cloud | 65 | 26 | 46.3 | 6.9 | .47 | -.00 | .71 | -.01 |
| Wadena | 60 | 26 | 42.0 | 5.5 | .27 | -.16 | -.05 | -.06 |
| Willmar | 61 | 26 | 43.4 | 4.4 | .64 | .17 | 1.05 | .25 |
| <u>EC DIST 6</u> | | | | | | | | |
| Aitkin | 63 | 24 | 41.0 | 4.0 | .49 | .05 | .25 | .11 |
| Forest Lake | 67 | 26 | 46.2 | 6.0 | .48 | -.03 | .72 | .21 |
| Hinckley | 62 | 24 | 41.5 | 4.3 | .38 | -.12 | -.09 | .07 |
| MSP Airport | 76 | 30 | 49.8 | 7.2 | .12 | -.39 | .03 | -.54 |
| St. Paul - UofM | 63 | 29 | 46.5 | 4.3 | .23 | -.32 | .78 | -.30 |
| <u>SW DIST 7</u> | | | | | | | | |
| Lamberton | 65 | 28 | 45.9 | 5.0 | .29 | -.31 | -.26 | -.37 |
| Marshall | 64 | 22 | 44.2 | 3.2 | .65 | .13 | .19 | .17 |
| Pipestone | 63 | 25 | 45.9 | 5.3 | 1.01 | .49 | .70 | .50 |
| Redwood Falls | 64 | 30 | 47.8 | 5.0 | 1.94 | 1.39 | 2.51 | 1.29 |
| Worthington | 62 | 29 | 45.8 | 6.3 | .78 | .17 | -.32 | .12 |
| <u>SC DIST 8</u> | | | | | | | | |
| Faribault | 70 | 27 | 47.0 | 6.8 | 1.17 | .57 | .78 | .47 |
| North Mankato | 62 | 28 | 45.4 | 2.6 | .53 | -.17 | .22 | -.27 |
| Waseca | 69 | 25 | 47.7 | 6.9 | 1.74 | 1.02 | 1.22 | .95 |
| Winnebago | 72 | 28 | 48.6 | 6.6 | .50 | -.13 | -.07 | -.16 |
| <u>SE DIST 9</u> | | | | | | | | |
| Preston | 70 | 26 | 47.4 | 5.9 | 1.41 | .71 | 1.86 | .55 |
| Red Wing | 64 | 31 | 46.7 | 4.9 | .14 | -.44 | .25 | -.49 |
| Rochester | 81 | 28 | 49.6 | 8.6 | 1.38 | .73 | 2.61 | .64 |
| Rosemount | 63 | 27 | 46.6 | 5.2 | .11 | -.51 | .03m | -.59m |
| Winona | 62 | 30 | 46.6 | 4.5 | 1.51 | .80 | 2.31 | .70 |

m=some data missing

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