



KENTUCKY WEEKLY CROP & WEATHER REPORT



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Prepared in Cooperation with:
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AGRICULTURAL NEWS: Most of the Commonwealth was hit by severe storms early in the week. Heavy rains and high winds affected crops across the State. Rainfall for the period was barely above normal, however, storms were intense when they occurred. The majority of fieldwork included finishing the wheat harvest, baling hay and clipping pastures, cultivating tobacco and spraying for blue mold where present. **Topsoil moisture** as of Friday, July 9, was rated 2 percent very short, 13 percent short, 71 percent adequate, and 14 percent surplus. **Subsoil moisture** was 15 percent short, 77 percent adequate, and 8 percent surplus. Days suitable for fieldwork averaged 4.5 out of a possible seven.

CORN: As of Sunday, July 11, eighty percent of the corn has either silked or was silking, well ahead of last year's 55 percent, and the 5 year average of 66 percent. The corn throughout Kentucky continues to look good, with the condition rated 5 percent poor, 17 percent fair, 42 percent good, and 36 percent excellent. Most comments on corn are very optimistic both on condition and potential yield.

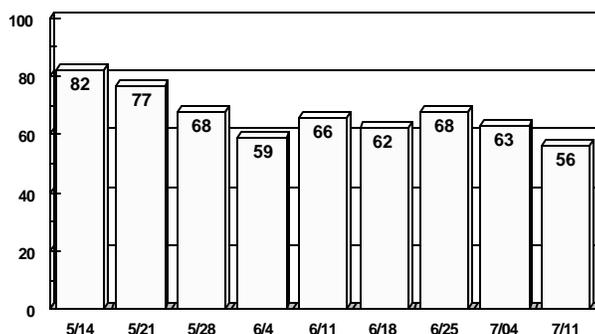
SOYBEANS: Farmers were busy spraying soybeans and were practically finished with double crop soybean planting. Soybeans blooming was at 26 percent, compared to 7 percent last year, and 22 percent for the 5 year average. The condition of the emerged soybeans continues to look good with 3 percent poor, 15 percent fair, 49 percent good, and 33 percent excellent.

TOBACCO: Farmers actively sprayed, side dressed, and topped the tobacco. Black shank and blue mold have become a problem due to the wet weather conditions prevalent this spring. Blue mold has been confirmed as present in fields in more than 40 counties. Tobacco height was 25 percent under 24 inches, 41 percent was between 24 to 36 inches, and 34 percent was over 36 inches. Condition of the set tobacco was rated 4 percent very poor, 12 percent poor, 28 percent fair, 45 percent good, and 11 percent excellent.

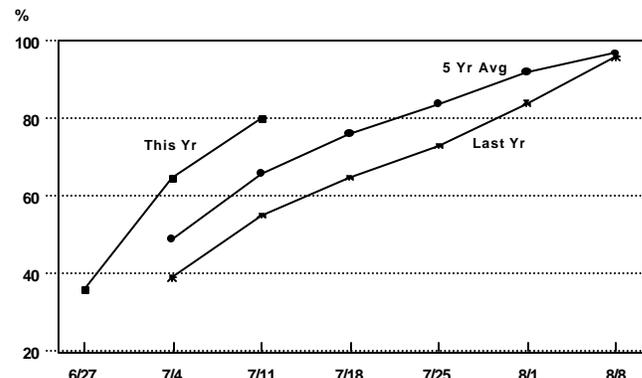
SMALL GRAINS: **Wheat** harvest was nearly complete with 98 percent harvested by the end of the week, compared with last year's 97 percent, and the 5 year average of 98 percent. Wheat yields and test weights were lower than initially expected due to the earlier weather delays in harvesting and head scab.

OTHER CROPS: Farmers were busy cutting and baling hay and clipping pastures across the State. Reports of quantity have been excellent but the wet weather conditions have affected the overall quality. **Hay crops** were reported as 2 percent very poor, 7 percent poor, 24 percent fair, 51 percent good, and 16 percent excellent. **Pastures** across the State were in good to excellent condition, with conditions rated as 4 percent poor, 19 percent fair, 55 percent good, and 22 percent excellent.

BURLEY TOBACCO CONDITION
% Good to Excellent



CORN PERCENT SILKED



KENTUCKY CROP PROGRESS
WEEK ENDING JULY 11, 2004
WITH COMPARISONS

| Crop Stage | This Week | Previous Year | 5-Yr. Avg. | Previous Week | |
|-------------------|-----------|---------------|------------|---------------|------|
| | | | | KY | U.S. |
| Percentage | | | | | |
| Corn Silking | 80 | 55 | 66 | 65 | 19 |
| Soybeans Blooming | 26 | 7 | 22 | 15 | 20 |
| Wheat Harvested | 98 | 97 | 98 | 92 | 60 |

(NA) Data Not Available.

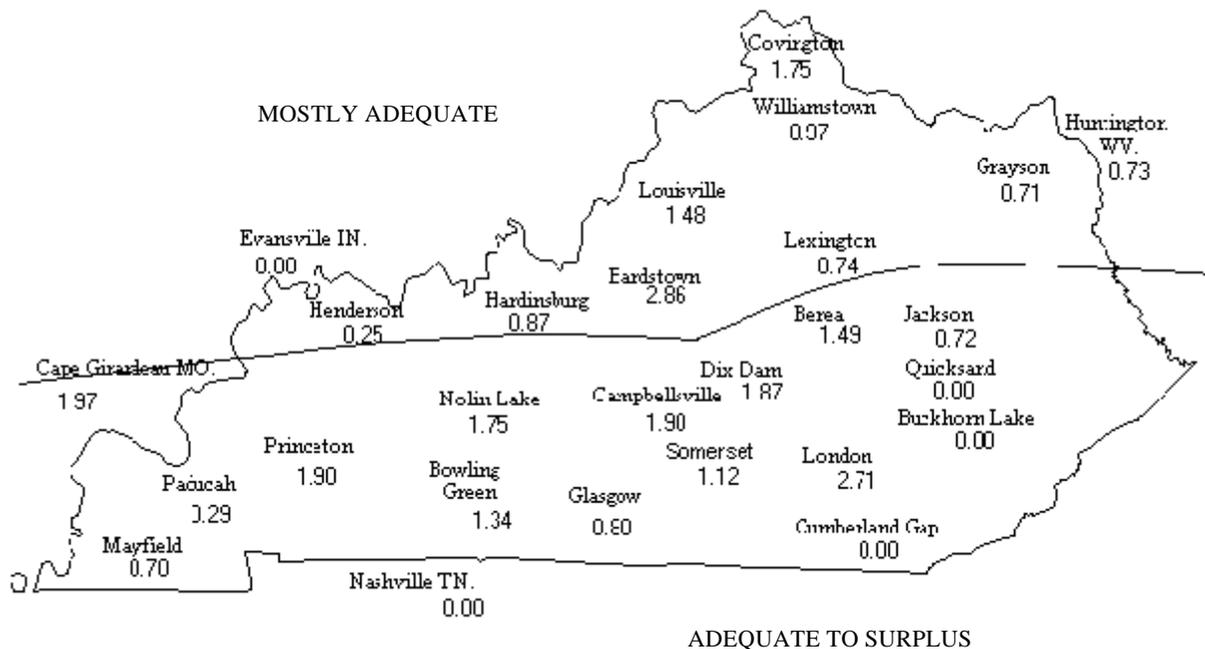
SOIL MOISTURE
WEEK ENDING JULY 9, 2004
WITH COMPARISONS

| | This Week | Previous Week |
|----------------|-----------|---------------|
| | | |
| TOPSOIL | | |
| Very Short | 2 | 1 |
| Short | 13 | 19 |
| Adequate | 71 | 72 |
| Surplus | 14 | 8 |
| SUBSOIL | | |
| Very Short | 0 | 2 |
| Short | 15 | 12 |
| Adequate | 77 | 79 |
| Surplus | 8 | 7 |

KENTUCKY CROP CONDITIONS (Percent)

| CROP | WEEK ENDING JULY 9, 2004 | | | | | WEEK ENDING JULY 2, 2004 | | | | |
|-----------|--------------------------|------|------|------|-----------|--------------------------|------|------|------|-----------|
| | VERY POOR | POOR | FAIR | GOOD | EXCELLENT | VERY POOR | POOR | FAIR | GOOD | EXCELLENT |
| Corn | 0 | 5 | 17 | 42 | 36 | 1 | 8 | 17 | 50 | 24 |
| Soybeans | 0 | 3 | 15 | 49 | 33 | 1 | 3 | 21 | 54 | 21 |
| Pasture | 0 | 4 | 19 | 55 | 22 | 0 | 3 | 18 | 61 | 18 |
| Tobacco | 4 | 12 | 28 | 45 | 11 | 4 | 11 | 22 | 52 | 11 |
| Hay Crops | 2 | 7 | 24 | 51 | 16 | NA | NA | NA | NA | NA |

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 11, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 9, 2004



KENTUCKY WEATHER SUMMARY, JULY 5 - 11, 2004:

NEAR NORMAL TEMPERATURES AND NEAR NORMAL PRECIPITATION:

The week began with warm humid weather and several rounds of severe weather. Severe weather watches were issued on Monday and Tuesday. Wednesday a cold front moved through bringing a few isolated rain showers and cooler temperatures. Thursday was probably the nicest day of the week as skies were mostly sunny and high temperatures were in the lower to middle 80's. The somewhat cooler weather did not last long as a warm front moved north across Kentucky bringing back hot and humid conditions. Over the weekend highs were at 90 degrees with little relief other than scattered thunderstorms.

Temperatures for the period averaged 77 degrees across the State which was 1 degree above normal and 2 degrees warmer than the previous week. High temperatures averaged from 87 degrees in the West to 86 degrees in the East. Departure from normal high temperatures ranged from 2 degrees below normal in the West to 0 degree from normal in the East. Low temperatures averaged from 68 degrees in the West to 66 degrees in the East. Departure from normal low temperature ranged from 2 degrees above normal in the West to 1 degree above normal in the East. The extreme high temperature was 93 degrees at Glasgow. The extreme low temperature was 59 degrees at Bardstown.

Rainfall for the period totaled 1.12 inches statewide which was 0.06 inches above normal. Precipitation totals by climate division, West 0.85 inches, Central 1.52 inches, Bluegrass 1.35 inches and East 0.75 inches, which was -0.08, +0.41, +0.30 and -0.38 inches respectively from normal. By station, precipitation totals ranged from a low of 0.25 inches at Henderson to a high of 2.86 inches at Bardstown.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, JULY 11, 7:00 P.M.

| Weather Station | Rainfall | | | Deviation From | | Air Temperature | | | | Growing Degree Days | | |
|-----------------|-----------|---------------|---------------|----------------------|-----------------|-----------------|-----|------------|----------------|---------------------|--------------|-------------------|
| | Last Week | Since April 1 | Last Four Wks | Norm Since Apr. 1 | Norm Last 4 Wks | High | Low | Wkly. Avg. | Dev. From Norm | Last Week | Since Apr. 1 | Dev. Since Apr. 1 |
| | (Inches) | | | (Degrees Fahrenheit) | | | | | | | | |
| Bardstown | 2.86 | 24.59 | 6.67 | +10.81 | +2.82 | 88 | 59 | 75.6 | -0 | 173 | 1851 | +162 |
| Berea | 1.49 | 17.75 | 3.89 | +3.16 | +0.08 | 90 | 63 | 76.9 | +2 | 181 | 1951 | +220 |
| Bowling Green | 1.34 | 20.30 | 4.20 | +5.19 | +0.16 | 91 | 63 | 77.9 | +2 | 184 | 1971 | +210 |
| Bristol | 0.00 | 13.81 | 3.94 | +1.54 | +0.40 | 89 | 61 | 76.1 | +1 | 176 | 1766 | +179 |
| Buckhorn Lake | 0.00 | 21.04 | 4.57 | +7.31 | +0.50 | 89 | 62 | 76.5 | +1 | 179 | 1774 | +258 |
| Cape Girardeau | 1.97 | 13.25 | 4.14 | -1.10 | +0.92 | 91 | 62 | 77.9 | +0 | 186 | 1934 | +90 |
| Campbellsville | 1.90 | 18.76 | 3.78 | +2.76 | -0.48 | 90 | 63 | 76.6 | +1 | 177 | 1933 | +232 |
| Covington | 1.75 | 16.39 | 2.52 | +3.02 | -1.16 | 90 | 61 | 76.1 | +1 | 176 | 1696 | +158 |
| Cumberland Gap | 0.00 | 15.68 | 2.70 | +0.66 | -1.58 | 89 | 62 | 76.5 | +1 | 179 | 1831 | +274 |
| Dix Dam | 1.87 | 20.80 | 5.20 | +6.41 | +1.36 | 89 | 62 | 76.4 | +1 | 179 | 1868 | +179 |
| Evansville | 0.00 | 12.51 | 1.69 | -1.18 | -1.72 | 91 | 62 | 77.0 | -1 | 181 | 1962 | +220 |
| Glasgow | 0.80 | 18.24 | 2.24 | +2.15 | -2.25 | 93 | 60 | 78.4 | +2 | 182 | 2066 | +395 |
| Grayson | 0.71 | 15.91 | 3.43 | +2.46 | -0.47 | 90 | 63 | 76.7 | +1 | 181 | 1808 | +353 |
| Hardinsburg | 0.87 | 20.08 | 2.54 | +5.42 | -1.30 | 90 | 62 | 76.9 | +1 | 180 | 1922 | +161 |
| Henderson | 0.25 | 15.05 | 1.52 | +1.00 | -2.08 | 89 | 62 | 76.6 | -1 | 178 | 1917 | +145 |
| Huntington | 0.73 | 13.73 | 2.74 | +0.42 | -1.11 | 90 | 64 | 77.1 | +2 | 183 | 1823 | +255 |
| Jackson | 0.72 | 23.38 | 7.06 | +9.12 | +3.03 | 87 | 62 | 74.6 | -1 | 170 | 1757 | +241 |
| Lexington | 0.74 | 22.06 | 4.65 | +8.28 | +0.80 | 88 | 60 | 75.6 | +0 | 176 | 1768 | +200 |
| London | 2.71 | 20.07 | 5.01 | +6.58 | +1.27 | 88 | 62 | 75.6 | +0 | 175 | 1786 | +229 |
| Louisville | 1.48 | 21.60 | 2.35 | +7.69 | -1.21 | 90 | 61 | 76.7 | +1 | 180 | 1898 | +156 |
| Mayfield | 0.70 | 11.57 | 2.12 | -3.45 | -1.38 | 89 | 62 | 76.5 | -1 | 179 | 1867 | +45 |
| Nashville | 0.00 | 17.75 | 1.20 | +3.52 | -2.23 | 90 | 62 | 76.9 | +1 | 181 | 2064 | +190 |
| Nolin Lake | 1.75 | 20.32 | 3.70 | +4.60 | -0.31 | 91 | 63 | 77.3 | +1 | 183 | 1969 | +351 |
| Paducah | 0.29 | 13.64 | 2.52 | -1.85 | -1.26 | 92 | 64 | 78.7 | +1 | 192 | 2019 | +186 |
| Princeton | 1.90 | 18.16 | 3.07 | +3.03 | -0.63 | 90 | 62 | 77.7 | -0 | 185 | 2027 | +225 |
| Quicksand | 0.00 | 23.50 | 5.77 | +9.24 | +1.74 | 89 | 62 | 76.5 | +1 | 179 | 1774 | +258 |
| Somerset | 1.12 | 16.70 | 2.84 | +1.30 | -1.30 | 89 | 62 | 75.3 | +0 | 172 | 1785 | +137 |
| Spindletop | 1.31 | 17.50 | 2.82 | +3.72 | -1.03 | 88 | 61 | 75.6 | +0 | 174 | 1739 | +171 |
| Williamstown | 0.97 | 14.85 | 1.92 | +0.91 | -1.82 | 89 | 60 | 76.0 | +1 | 177 | 1797 | +229 |

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (859)257-3000 ext 245. E-mail: priddy@uky.edu Additional Ky weather data available on Internet at: <http://www.wagwx.ca.uky.edu/>

APPARENT TEMPERATURE CHART

| Rel Humid % | Air Temperature (Degrees Fahrenheit) | | | | | |
|-------------------|---|-----|-----|-----|-----|-----|
| | 85 | 90 | 95 | 100 | 105 | 110 |
| 20 | 82 | 87 | 93 | 99 | 105 | 112 |
| 30 | 84 | 90 | 96 | 104 | 113 | 123 |
| 40 | 86 | 93 | 101 | 110 | 123 | 137 |
| 50 | 88 | 96 | 107 | 120 | 135 | 150 |
| 60 | 90 | 100 | 114 | 132 | 149 | |
| 70 | 93 | 106 | 124 | 144 | | |
| 80 | 97 | 113 | 130 | | | |
| 90 | 102 | 122 | | | | |
| 100 | 108 | | | | | |

| CATEGORY | APPARENT TEMP | HEAT SYMPTOMS |
|----------|--------------------|---------------------------------------|
| I | > 130 degrees | Heatstroke imminent |
| II | 105 to 130 degrees | Sunstroke likely, heatstroke possible |
| III | 90 to 105 degrees | Sunstroke possible |
| IV | 80 to 90 degrees | Fatigue possible |

HOW TO USE THE “APPARENT TEMPERATURE” CHART

If the outside air temperature was currently 100 degrees (F) and relative humidity was currently 50%, the apparent temperature would be 120 degrees (see chart). This means the outside temperature would feel like it was 120 degrees. Under these conditions sunstroke would be likely and heatstroke possible if exposure is prolonged. Keep in mind that the actual degree of heat stress experienced will vary with individual age, health, and body characteristics.

This release and others can be viewed on the Internet at <http://www.nass.usda.gov/ky/> For a free E-Mail subscription of the Kentucky Weekly Crop & Weather report, on the Internet go to <http://www.nass.usda.gov/sub-form.htm> and follow the instructions.