



KENTUCKY WEEKLY CROP & WEATHER REPORT



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Prepared in Cooperation with:
Univ. of Ky - Agr'l Weather Center
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JMB 16-01

AGRICULTURAL NEWS: Cultivating tobacco, clipping pasture, and making hay were still the main farm activities for the week. The weather this past week was like the week before, with scattered showers and hot humid temperatures towards the end of the week. Most eastern areas of the State received rain. Western areas of the State could still use a good soaking rain. Most of the crops look good throughout the State. Days suitable for fieldwork averaged 4.6 out of a possible six days. **Topsoil moisture** as of Friday, July 6 was rated 10 percent very short, 21 percent short, 60 percent adequate, and 9 percent surplus. **Subsoil moisture** was rated 13 percent very short, 28 percent short, 54 percent adequate, and 5 percent surplus.

CORN: The corn crop continued to look good, except for western Kentucky where corn was starting to show signs of stress due to heat and lack of rain. The condition of the corn was rated as 4 percent poor, 17 percent fair, 58 percent good, and 21 percent excellent, as of Friday, July 6. Sixty-nine percent of the corn crop was silking compared to 71 percent a year ago, and 42 percent for the five year average.

SOYBEANS: Most of the planted soybeans are now emerged, and are doing well. The soybean crop condition was rated as 2 percent very poor, 5 percent poor, 22 percent fair, 55 percent good, and 16 percent excellent. Twenty-five percent of the crop was

blooming as of July 8, compared with 24 percent last year, and the five year average of 12 percent.

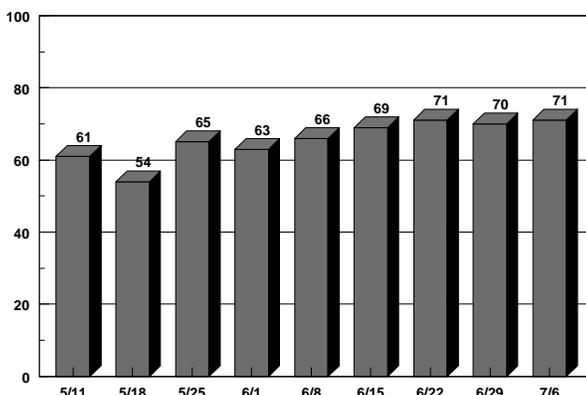
TOBACCO: The tobacco crop looks good overall; however, scattered reports of black shank and blue mold were received. Most areas of the State report that the tobacco was blooming prematurely. Condition of the set tobacco was reported as 1 percent very poor, 5 percent poor, 23 percent fair, 60 percent good, and 11 percent excellent. As of Friday, July 6, 43 percent of the set tobacco was under 24 inches, 39 percent was 24-36 inches, and 18 percent was over 36 inches in height.

SMALL GRAINS: Wheat harvest was practically complete with 99 percent of the crop harvested as of Sunday, July 8, ahead of the 95 percent a year ago. Most areas of the State reported better than expected wheat yields and good quality.

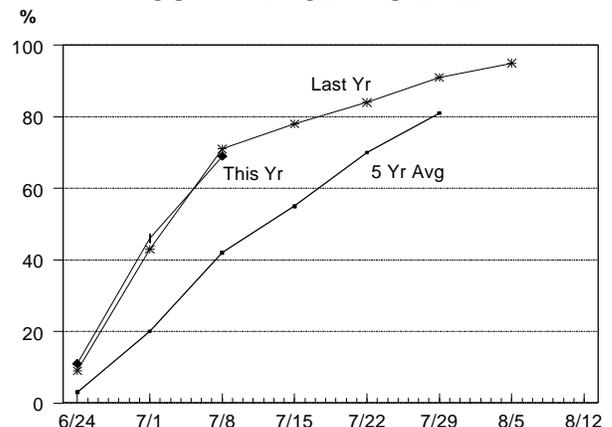
OTHER CROPS: One of the major farm activities this past week continued to be the cutting, baling, and storage of **hay** throughout the State. The hay crop was rated as 3 percent very poor, 10 percent poor, 27 percent fair, 52 percent good, and 8 percent excellent. **Pasture** conditions have remained steady from the previous week with the rains helping to maintain the grass. Conditions were rated as 3 percent very poor, 9 percent poor, 29 percent fair, 51 percent good, and 8 percent excellent.

BURLEY TOBACCO CONDITION

% Good to Excellent



CORN PERCENT SILKED



KENTUCKY CROP PROGRESS
WEEK ENDING JULY 8, 2001
WITH COMPARISONS

| Crop Stage | This Week | Previous Year | 5-Yr. Avg. | Previous Week | |
|-------------------|-----------|---------------|------------|---------------|------|
| | | | | KY | U.S. |
| | | Percentage | | | |
| Corn Silking | 69 | 71 | 42 | 46 | 8 |
| Wheat Harvested | 99 | 95 | 88 | 93 | 55 |
| Soybeans Blooming | 25 | 24 | 12 | 18 | 12 |

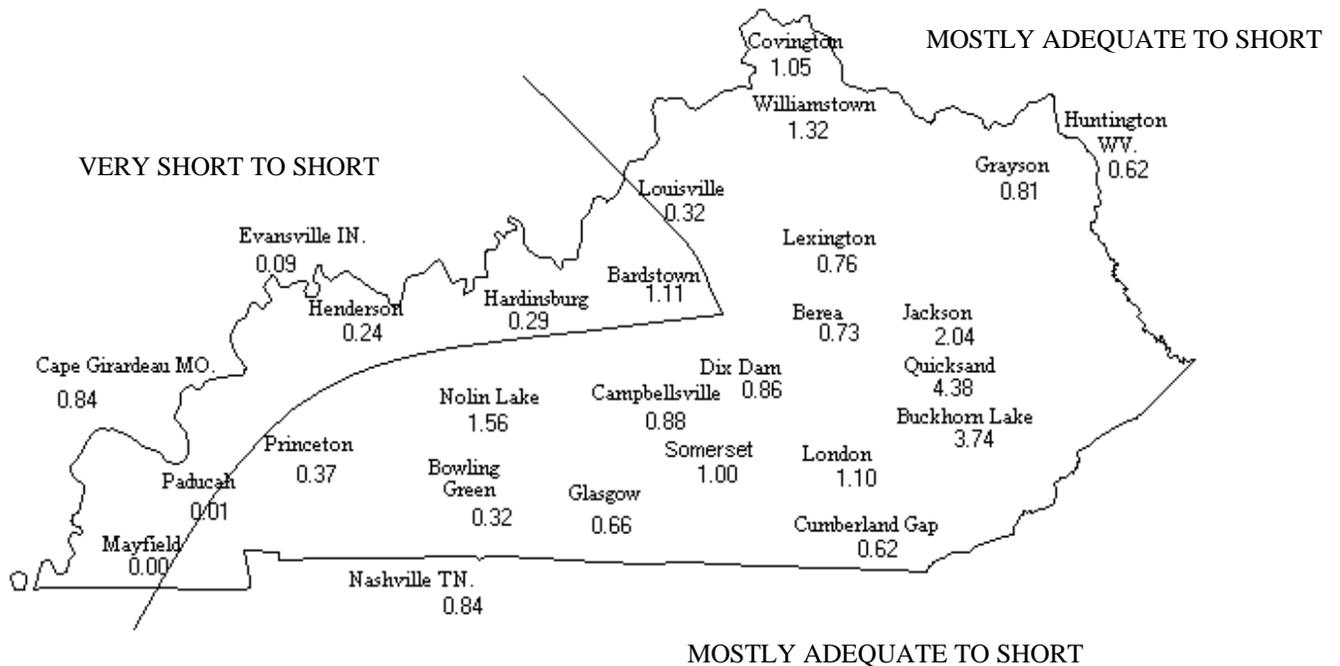
SOIL MOISTURE
WEEK ENDING JULY 6, 2001
WITH COMPARISONS

| | This Week | Previous Week |
|----------------|-----------|---------------|
| | | |
| TOPSOIL | | |
| Very Short | 10 | 10 |
| Short | 21 | 28 |
| Adequate | 60 | 58 |
| Surplus | 9 | 4 |
| SUBSOIL | | |
| Very Short | 13 | 14 |
| Short | 28 | 29 |
| Adequate | 54 | 54 |
| Surplus | 5 | 3 |

KENTUCKY CROP CONDITIONS (Percent)

| CROP | WEEK ENDING JULY 6, 2001 | | | | | WEEK ENDING JUNE 29, 2001 | | | | |
|-----------|--------------------------|------|------|------|-----------|---------------------------|------|------|------|-----------|
| | VERY POOR | POOR | FAIR | GOOD | EXCELLENT | VERY POOR | POOR | FAIR | GOOD | EXCELLENT |
| Corn | 0 | 4 | 17 | 58 | 21 | 0 | 4 | 16 | 59 | 21 |
| Soybeans | 2 | 5 | 22 | 55 | 16 | 2 | 5 | 23 | 55 | 15 |
| Pasture | 3 | 9 | 29 | 51 | 8 | 3 | 9 | 25 | 54 | 9 |
| Tobacco | 1 | 5 | 23 | 60 | 11 | 1 | 6 | 23 | 56 | 14 |
| Hay Crops | 3 | 10 | 27 | 52 | 8 | - | - | - | - | - |

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 8, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 6, 2001



KENTUCKY WEATHER SUMMARY, JULY 2 - 8, 2001:

BELOW NORMAL TEMPERATURES AND RAINFALL:

Scattered thunderstorms and showers at the beginning of the week to hot and humid conditions at the end of the week. The week started out with scattered showers and thunderstorms mostly across the eastern two-thirds of the State. The big story this week though was the heat and humidity. Temperatures reached the upper 90s in Western Ky, low 90s in Central Ky, and upper 80s Eastern, Ky. The combination of these temperatures and high dewpoints, which mean high humidities, created heat indices in the 100s across much of the western two-thirds of the State. The heat and humidity also provide conditions to cause livestock stress to reach the emergency category in some areas. Temperatures for the period averaged 75 degrees across the State which was 1 degree BELOW NORMAL. High temperatures averaged from 89 in the West to 82 in the East. Departure from normal high temperatures ranged from NEAR NORMAL in the West to 3 degrees BELOW NORMAL in the East. Low temperatures averaged from 66 degrees in the West to 62 degrees in the East. Departure from normal low temperature ranged from NEAR NORMAL in the West to 2 degrees BELOW NORMAL in the East.

Rainfall for the period totaled 0.93 inches statewide which was 0.13 inches BELOW NORMAL. Precipitation totals by climate division, West 0.26 inches, Central 0.71 inches, Bluegrass 0.96 inches and East 1.79 inches, which was -0.67, -0.40, -0.10 and +0.66 inches respectively from normal. By Kentucky station, precipitation totals ranged from a low of 0.00 inches at Mayfield to a high of 4.38 inches at Quicksand.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL

FOR WEEK ENDING SUNDAY, JULY 8, 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 | 1.11 | 11.94 | 2.95 | -1.36 | -0.78 | 92 | 56 | 74.1 | -2 | 164 | 1722 | +105 |
| Berea | 0.73 | 11.09 | 1.96 | -3.07 | -1.81 | 89 | 54 | 72.3 | -3 | 152 | 1678 | +22 |
| Bowling Green | 0.32 | 11.31 | 2.61 | -3.34 | -1.39 | 96 | 60 | 78.0 | +2 | 181 | 1876 | +190 |
| Bristol | 1.79 | 13.09 | 6.03 | +1.24 | +2.56 | 85 | 57 | 73.0 | -2 | 159 | 1626 | +108 |
| Buckhorn Lake | 3.74 | 16.06 | 6.01 | +2.80 | +1.99 | 87 | 57 | 71.9 | -3 | 150 | 1672 | +222 |
| Cape Girardeau | 0.84 | 9.55 | 4.18 | -4.45 | +0.95 | 96 | 62 | 78.4 | +1 | 181 | 1889 | +126 |
| Campbellsville | 0.88 | 12.32 | 2.99 | -3.16 | -1.17 | 94 | 58 | 75.5 | -0 | 171 | 1764 | +138 |
| Covington | 1.05 | 12.66 | 2.85 | -0.30 | -0.80 | 88 | 52 | 70.5 | -5 | 141 | 1576 | +110 |
| Cumberland Gap | 0.62 | 11.37 | 4.30 | -3.14 | +0.10 | 92 | 55 | 74.6 | -0 | 165 | 1724 | +236 |
| Dix Dam | 0.86 | 11.17 | 2.22 | -2.74 | -1.51 | 91 | 54 | 73.1 | -2 | 158 | 1696 | +79 |
| Evansville | 0.09 | 10.26 | 3.60 | -3.04 | +0.23 | 96 | 55 | 76.9 | -1 | 173 | 1856 | +192 |
| Glasgow | 0.66 | 12.17 | 3.20 | -3.41 | -1.24 | 97 | 60 | 77.7 | +2 | 178 | 1839 | +243 |
| Grayson | 0.81 | 14.89 | 1.96 | +1.91 | -1.85 | 87 | 55 | 71.4 | -4 | 148 | 1650 | +261 |
| Hardinsburg | 0.29 | 10.38 | 1.92 | -3.82 | -1.84 | 95 | 57 | 76.4 | +1 | 173 | 1830 | +144 |
| Henderson | 0.24 | 8.30 | 1.69 | -5.36 | -1.89 | 96 | 54 | 77.1 | -1 | 172 | 1843 | +149 |
| Huntington | 0.62 | 14.40 | 1.64 | +1.57 | -2.10 | 87 | 53 | 71.1 | -4 | 145 | 1639 | +143 |
| Jackson | 2.04 | 12.32 | 3.97 | -1.43 | +0.07 | 86 | 57 | 70.6 | -4 | 144 | 1655 | +205 |
| Lexington | 0.76 | 10.47 | 1.91 | -2.83 | -1.82 | 91 | 55 | 73.6 | -1 | 160 | 1713 | +217 |
| London | 1.10 | 14.60 | 4.39 | +1.57 | +0.75 | 90 | 58 | 73.5 | -2 | 161 | 1624 | +136 |
| Louisville | 0.32 | 10.69 | 1.71 | -2.78 | -1.76 | 93 | 55 | 75.0 | -1 | 166 | 1798 | +134 |
| Mayfield | 0.00 | 6.70 | 0.75 | -7.89 | -2.66 | 92 | 58 | 74.6 | -3 | 165 | 1748 | +1 |
| Nashville | 0.84 | 13.48 | 4.67 | -0.36 | +1.27 | 95 | 62 | 79.0 | +3 | 190 | 1926 | +133 |
| Nolin Lake | 1.56 | 13.90 | 3.64 | -1.33 | -0.28 | 95 | 60 | 77.2 | +1 | 177 | 1852 | +303 |
| Paducah | 0.01 | 8.41 | 1.05 | -6.67 | -2.73 | 99 | 63 | 80.3 | +3 | 190 | 1924 | +169 |
| Princeton | 0.37 | 9.99 | 1.84 | -4.73 | -1.83 | 97 | 60 | 79.3 | +2 | 185 | 1972 | +248 |
| Quicksand | 4.38 | 17.16 | 6.17 | +3.41 | +2.27 | 86 | 57 | 71.4 | -4 | 148 | 1665 | +215 |
| Somerset | 1.00 | 12.66 | 3.05 | -2.26 | -1.04 | 93 | 58 | 74.3 | -1 | 164 | 1689 | +110 |
| Spindletop | 1.05 | 9.60 | 2.08 | -3.70 | -1.65 | 89 | 56 | 71.8 | -3 | 149 | 1626 | +130 |
| Williamstown | 1.32 | 14.16 | 4.56 | +0.66 | +0.88 | 89 | 53 | 71.7 | -3 | 148 | 1674 | +178 |

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: tpriddy@ca.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, send an E-Mail message to nass-state-releases@news.usda.gov with the following command in the body of the message: **subscribe ky-crop-weather <e-mail address>**. The E-Mail address is optional; leave the address blank unless subscribing for someone else. The default address is where you sent the message from. You would unsubscribe in a similar way but use the word unsubscribe.

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