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KENTUCKY WEEKLY CROP & WEATHER REPORT



Prepared in Cooperation with:
 Univ. of Ky - Agr'l Weather Center
 U.S. Dept. of Commerce - NOAA
 Kentucky Department of Agriculture
 Cooperative Extension Service

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This is the last issue of the 2002 Weekly Crop Weather Report. We thank and are most appreciative of the many farmers, county agricultural agents, county FSA offices, soil conservationists, and others who made this report possible by supplying the basic information each week. Thanks to Tom Priddy and the U.K. Ag Weather Center for supplying the weather data for this report. Also, thanks to the agricultural news media for the professional manner in which they distribute agricultural news across the State. Publication of the 2003 series will begin about the first week of April.

AGRICULTURAL NEWS: Heavy rains and above normal temperatures prevailed throughout the State last week, averaging 53 degrees, which was 3 degrees above normal. Precipitation averaged 1.99 inches for the week which was 1.07 inches above normal. Major farm activities included stripping tobacco, soybean harvesting, and winter wheat seeding. **Topsoil moisture** as of Friday, November 8 was rated 1 percent short, 54 percent adequate, and 45 percent surplus. **Subsoil moisture** was rated 6 percent short, 64 percent adequate, and 30 percent surplus. Days suitable for fieldwork averaged 2.0 out of a possible 7 days.

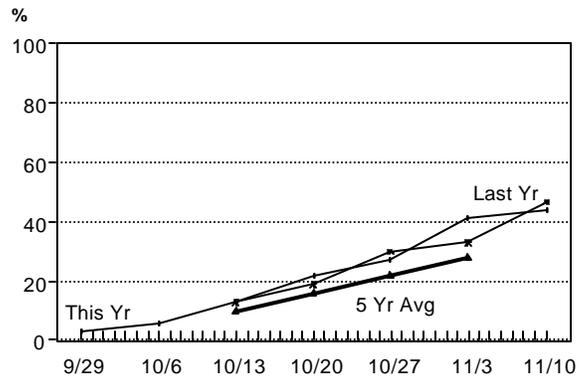
TOBACCO: As of Sunday, November 10, **burley tobacco** was 48 percent stripped. This was ahead of last year's 47 percent and the five-year average of 36 percent. Moist conditions enabled tobacco stripping to continue. Most producers still feel that they will make their quota with good quality tobacco. Condition of the stripped tobacco was reported as 1 percent very poor, 6 percent poor, 26 percent fair, 49 percent good, and 18 percent excellent.

CORN: Corn harvesting was virtually complete throughout the State, however heavy rains kept corn activity to a minimum. Overall, 99 percent of the corn crop was harvested as of Sunday, November 10. This compared to 99 percent last year and 97 percent for the five-year average.

SOYBEANS: Harvest was delayed by frequent showers and wet field conditions with 70 percent complete which was behind both last year's 94 percent and the five-year average of 89 percent.

OTHER CROPS: **Winter wheat** seeding was 68 percent complete as of Sunday, November 10. This compared to last year's 94 percent and the five-year average of 91 percent. The emerged crop was rated at 1 percent poor, 10 percent fair, 58 percent good, and 31 percent excellent. Farmers reported mostly good germination despite delayed growth due to wet conditions. **Pasture** condition was rated as 1 percent very poor, 3 percent poor, 20 percent fair, 58 percent good, and 18 percent excellent. Kentucky farmers were still reporting mostly fair to good conditions for the State's livestock.

BURLEY TOBACCO PERCENT STRIPPED



KENTUCKY CROP PROGRESS
WEEK ENDING NOVEMBER 10, 2002
WITH COMPARISONS

| Crop Stage | This Week | Previous Year | 5-Yr. Avg. | Previous Week | |
|----------------|-----------|---------------|------------|---------------|------|
| | | | | KY | U.S. |
| Percentage | | | | | |
| Soybeans | | | | | |
| Harvested | 70 | 94 | 89 | 61 | 87 |
| Corn | | | | | |
| Harvested | 99 | 99 | 97 | 96 | 77 |
| Burley Tobacco | | | | | |
| Stripped | 48 | 47 | 36 | 41 | NA |
| Wheat Seeded | 68 | 94 | 91 | 60 | 90 |

(NA) Data Not Available.

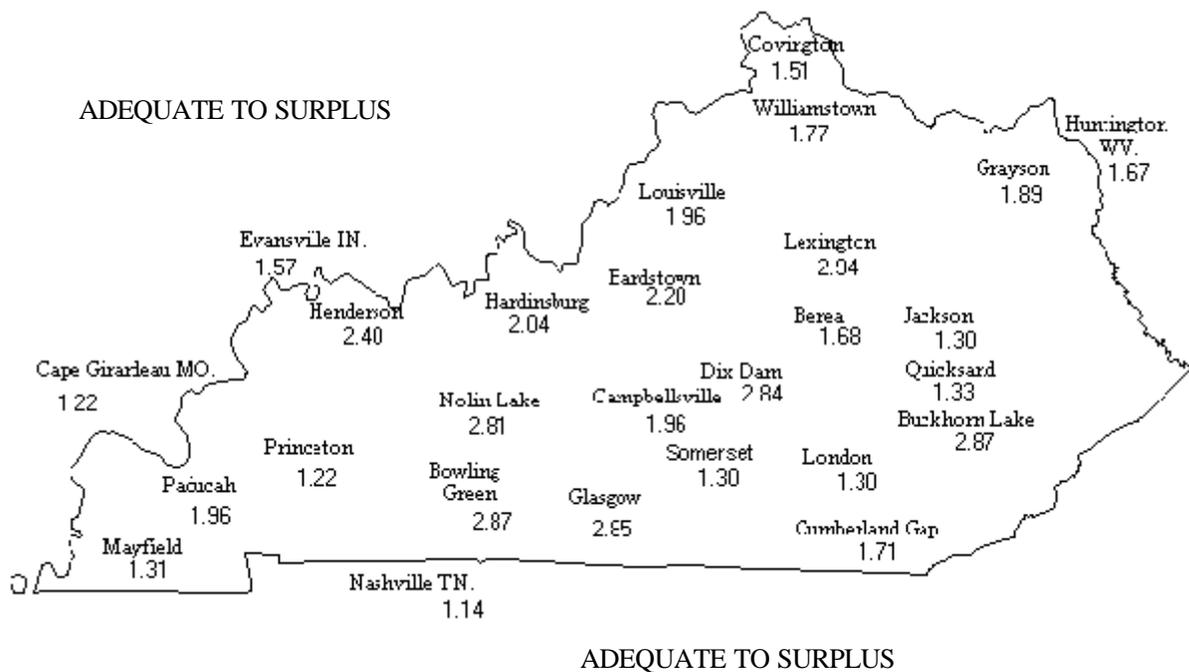
SOIL MOISTURE
WEEK ENDING NOVEMBER 8, 2002
WITH COMPARISONS

| | This Week | Previous Week |
|----------------|-----------|---------------|
| | | |
| TOPSOIL | | |
| Very Short | 0 | 0 |
| Short | 1 | 3 |
| Adequate | 54 | 56 |
| Surplus | 45 | 41 |
| SUBSOIL | | |
| Very Short | 0 | 2 |
| Short | 6 | 9 |
| Adequate | 64 | 69 |
| Surplus | 30 | 20 |

KENTUCKY CROP CONDITIONS (Percent)

| CROP | WEEK ENDING NOVEMBER 8, 2002 | | | | | WEEK ENDING NOVEMBER 1, 2002 | | | | |
|-----------------------------|------------------------------|------|------|------|-----------|------------------------------|------|------|------|-----------|
| | VERY POOR | POOR | FAIR | GOOD | EXCELLENT | VERY POOR | POOR | FAIR | GOOD | EXCELLENT |
| Emerged Wheat | 0 | 1 | 10 | 58 | 31 | 0 | 2 | 20 | 57 | 21 |
| Pasture | 1 | 3 | 20 | 58 | 18 | 1 | 8 | 25 | 47 | 19 |
| Quality of Stripped Tobacco | 1 | 6 | 26 | 49 | 18 | 1 | 8 | 23 | 49 | 19 |

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, NOVEMBER 10, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, NOVEMBER 8, 2002



KENTUCKY WEATHER SUMMARY, NOVEMBER 4 - 10, 2002:

ABOVE NORMAL TEMPERATURES AND ABOVE NORMAL RAINFALL:

Two storm systems brought heavy rains to Kentucky this past week which continued the extremely wet conditions of September and October. The first system tracked directly through Kentucky on Tuesday, and brought with it rainfall over the entire State; with the heaviest amounts falling in a wide band oriented southwest to northeast through central parts of the State. The second low pressure system tracked through southern Canada, and pulled a strong cold front through the State on Sunday afternoon and into the evening, bringing not only torrential rains over much of the State, but severe thunderstorms, damaging winds, and hail with unconfirmed reports of tornadoes.

Temperatures for the period averaged 53 degrees across the State which was 3 degrees above normal. High temperatures averaged from 60 in the West to 58 in the East. Departure from normal high temperatures ranged from 3 degrees below normal in the West to 1 degree above normal in the East. Low temperatures averaged from 48 degrees in the West to 44 degrees in the East. Departure from normal low temperature ranged from 7 degrees above normal in the West to 7 degrees above normal in the East. The extreme high and low were 82 degrees at Buckhorn Lake and 31 degrees at Cumberland Gap.

Rainfall for the period totaled 1.99 inches statewide which was 1.07 inches above normal. Precipitation totals by climate division, West 1.61 inches, Central 2.45 inches, Bluegrass 2.23 inches and East 1.67 inches, which was 0.62, 1.49, 1.40 and 0.79 inches respectively above normal. By station, precipitation totals ranged from a low of 1.30 inches at Somerset to a high of 2.94 inches at Lexington.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, NOVEMBER 10, 7:00 P.M.

| Weather Station | Rainfall | | | Deviation From | | Air Temperature | | | | Relative Humidity | | | |
|-----------------|-----------|---------------|---------------|----------------------|-----------------|-----------------|-----|-----------|----------------|-------------------|----|------|-----|
| | Last Week | Since April 1 | Last Four Wks | Norm Since Apr. 1 | Norm Last 4 Wks | High | Low | Wkly Avg. | Dev. From Norm | Average | | | |
| | (Inches) | | | (Degrees Fahrenheit) | | | | | | | | High | Low |
| Bardstown | 2.20 | 38.70 | 4.35 | +10.86 | +1.73 | 76 | 40 | 52.3 | +3 | 95 | 49 | | |
| Berea | 1.68 | 41.94 | 4.71 | +12.43 | +1.81 | 77 | 40 | 52.1 | +4 | 94 | 51 | | |
| Bowling Green | 2.87 | 40.32 | 4.62 | +10.42 | +1.39 | 82 | 44 | 56.9 | +7 | -- | -- | | |
| Bristol | 0.79 | 20.61 | 3.80 | -4.45 | +1.32 | 77 | 28 | 50.0 | +2 | -- | -- | | |
| Buckhorn Lake | 2.87 | 32.63 | 7.55 | +4.44 | +4.70 | 82 | 37 | 51.8 | +4 | -- | -- | | |
| Cape Girardeau | 1.22 | 34.94 | 3.21 | +6.93 | +0.15 | 76 | 42 | 54.4 | +3 | -- | -- | | |
| Campbellsville | 1.96 | 39.30 | 3.97 | +6.14 | +0.80 | 76 | 39 | 53.2 | +4 | 95 | 51 | | |
| Covington | 1.51 | 30.86 | 4.57 | +4.51 | +1.76 | 74 | 40 | 50.6 | +2 | -- | -- | | |
| Cumberland Gap | 1.71 | 25.24 | 4.19 | -5.32 | +0.84 | 76 | 31 | 51.1 | +3 | 95 | 51 | | |
| Dix Dam | 2.84 | 36.94 | 4.74 | +7.96 | +1.86 | 82 | 38 | 52.6 | +4 | -- | -- | | |
| Evansville | 1.57 | 31.46 | 4.18 | +4.97 | +1.27 | 82 | 41 | 54.6 | +3 | -- | -- | | |
| Glasgow | 2.85 | 40.92 | 4.70 | +8.95 | +1.43 | 73 | 38 | 53.6 | +4 | 96 | 49 | | |
| Grayson | 1.89 | 28.67 | 4.18 | +1.54 | +1.39 | 76 | 37 | 50.2 | +2 | 95 | 52 | | |
| Hardinsburg | 2.04 | 35.72 | 3.74 | +6.12 | +0.59 | 76 | 40 | 53.6 | +4 | 95 | 52 | | |
| Henderson | 2.40 | 38.69 | 4.35 | +11.23 | +1.37 | 76 | 39 | 53.1 | +1 | 95 | 51 | | |
| Huntington | 1.67 | 28.95 | 4.46 | +1.64 | +1.62 | 80 | 37 | 49.9 | +2 | -- | -- | | |
| Jackson | 1.30 | 32.68 | 5.27 | +3.30 | +2.29 | 78 | 38 | 51.3 | +3 | -- | -- | | |
| Lexington | 2.94 | 31.64 | 5.51 | +3.80 | +2.89 | 76 | 40 | 51.1 | +3 | -- | -- | | |
| London | 1.30 | 28.65 | 4.34 | +1.25 | +1.45 | 78 | 32 | 51.1 | +3 | -- | -- | | |
| Louisville | 1.96 | 34.18 | 3.89 | +6.72 | +1.08 | 78 | 40 | 52.5 | +3 | -- | -- | | |
| Mayfield | 1.31 | 24.59 | 2.63 | -6.37 | -1.10 | 76 | 40 | 52.7 | +1 | 95 | 52 | | |
| Nashville | 1.14 | 29.28 | 1.97 | +1.63 | -0.92 | 81 | 36 | 55.5 | +6 | -- | -- | | |
| Nolin Lake | 2.81 | 39.45 | 4.45 | +7.83 | +1.11 | 82 | 43 | 56.0 | +6 | -- | -- | | |
| Paducah | 1.96 | 32.51 | 3.47 | +2.85 | +0.29 | 76 | 39 | 55.0 | +3 | 95 | 47 | | |
| Princeton | 1.22 | 34.15 | 2.79 | +4.32 | -0.52 | 78 | 39 | 55.3 | +3 | 99 | 63 | | |
| Quicksand | 1.33 | 34.64 | 5.73 | +5.26 | +2.75 | 76 | 38 | 51.3 | +3 | 95 | 52 | | |
| Somerset | 1.30 | 35.00 | 3.96 | +3.86 | +0.66 | 76 | 38 | 52.2 | +4 | 94 | 52 | | |
| Spindletop | 2.61 | 26.29 | 4.90 | -1.55 | +2.28 | 76 | 37 | 50.9 | +3 | 87 | 49 | | |
| Williamstown | 1.77 | 26.01 | 3.49 | -1.94 | +0.57 | 76 | 39 | 51.7 | +4 | 95 | 52 | | |

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

WIND CHILL CHART

| Wind Speed MPH | Air Temperature (Degrees Fahrenheit) | | | | | | | | | | | | | | | | |
|-------------------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 | -35 | -40 | -45 |
| 5 | 33 | 27 | 21 | 16 | 12 | 7 | 1 | -6 | -11 | -15 | -20 | -26 | -31 | -35 | -41 | -47 | -54 |
| 10 | 21 | 16 | 9 | 2 | -2 | -9 | -15 | -22 | -27 | -31 | -38 | -45 | -52 | -58 | -64 | -70 | -77 |
| 15 | 16 | 11 | 1 | -6 | -11 | -18 | -25 | -33 | -40 | -45 | -51 | -60 | -65 | -70 | -78 | -85 | -90 |
| 20 | 12 | 3 | -4 | -9 | -17 | -24 | -32 | -40 | -46 | -52 | -60 | -68 | -76 | -81 | -88 | -96 | -103 |
| 25 | 7 | 0 | -7 | -15 | -22 | -29 | -37 | -45 | -52 | -58 | -67 | -75 | -83 | -89 | -96 | -104 | -112 |
| 30 | 5 | -2 | -11 | -18 | -26 | -33 | -41 | -49 | -56 | -63 | -70 | -78 | -87 | -94 | -101 | -109 | -117 |
| 35 | 3 | -4 | -13 | -20 | -27 | -35 | -43 | -52 | -60 | -67 | -72 | -83 | -90 | -98 | -105 | -113 | -123 |
| 40 | 1 | -4 | -15 | -22 | -29 | -36 | -45 | -54 | -62 | -69 | -76 | -87 | -94 | -101 | -107 | -116 | -128 |
| 45 | 1 | -6 | -17 | -24 | -31 | -38 | -46 | -54 | -63 | -70 | -78 | -87 | -94 | -101 | -108 | -118 | -128 |
| 50 | 0 | -7 | -17 | -24 | -31 | -38 | -47 | -56 | -63 | -70 | -79 | -88 | -96 | -103 | -110 | -120 | -128 |

WIND CHILL (Equivalent Temperature)

During the winter months many decisions are made which depend upon the temperatures and the extremes which might be expected. Not only do we dress according to the thermometer, but we use it to anticipate the feed requirements and care of livestock. If we have to be out-of-doors, as is the case with children who have to stand waiting for a school bus, we soon find that the temperature alone gives too little information. Should the temperature be zero with a light wind, we would not be as cold as with a strong wind. Thus if we have an idea of how much wind increases the chilling effect of temperature on the human body, we can get a better estimate of how "cold" it really is. If you have any questions regarding the graph please contact Tom Priddy at (859) 257-3000.

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.