



# KENTUCKY WEEKLY CROP & WEATHER REPORT



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This is the last issue of the 1999 Weekly Crop Weather Report. We thank and are most appreciative of the many farmers, county agricultural agents, 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 2000 series will begin about the first week of April.

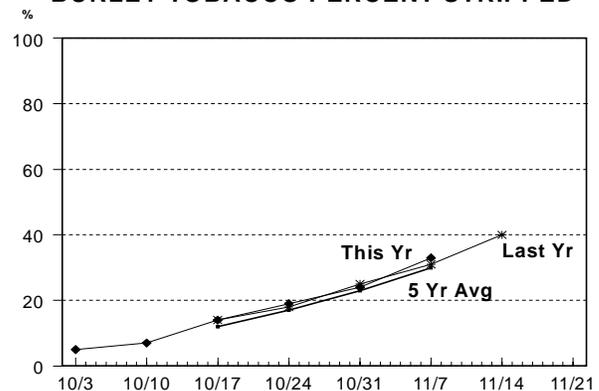
**AGRICULTURAL NEWS:** Cooler temperatures settled across the State for a few days, but the week ended unseasonably warm. Temperatures averaged 54 degrees, 3 degrees above normal, with rain across the State. Rainfall for the week ending November 7 totaled 0.9 inches for the State. **Days suitable for fieldwork** averaged 5.0 out of a possible six. Kentucky farmers are wrapping up the soybean harvest, and concentrating on tobacco stripping. Other farming activities included finishing the winter wheat planting, normal fall tillage, and working cattle. **Topsoil moisture** condition as of Friday, November 5, was 22 percent very short, 49 percent short, and 29 percent adequate. **Subsoil moisture** condition was 46 percent very short, 42 percent short, and 12 percent adequate.

**TOBACCO:** Stripping continues at a slow rate despite some rainfall as dry conditions have generally not been favorable for curing or stripping this fall. As of Sunday, November 7, 33 percent of the **burley** crop was stripped, compared to 31 percent last year and 30 percent on average. Condition of stripped tobacco was 4 percent very poor, 17 percent poor, 39 percent fair, 37 percent good, and 3 percent excellent, with numerous reports of light weight and bright colors.

**SOYBEANS:** Rainfall slowed harvest progress this past week. As of November 7, 90 percent of the State's soybean crop was harvested, behind last year's 93 percent but ahead of the five-year average of 74 percent. Yields have been reported as quite variable in the double crop soybeans.

**OTHER CROPS:** **Winter wheat** seeding was 90 percent complete. Progress was below the 92 percent for last year and above the 88 percent for the five-year average. The rain received across the State was beneficial to the new crop; however, more moisture would ensure stronger plants going into winter dormancy. **Pastures** continue to be stressed even with the recent rainfall received, and the cooler temperatures. Pasture condition this past week was rated 14 percent very poor, 32 percent poor, 40 percent fair, and 14 percent good. Pastures have greened-up with the precipitation of the past month, but are still not producing the quantity of forage needed to sustain livestock feed requirements in many areas. Because many farmers continue feeding hay, there has been concern about the quantity of hay available for winter feeding.

**BURLEY TOBACCO PERCENT STRIPPED**



| Crop Stage              | This Week | Previous Year | 5-Yr. Avg. | Previous Week |      |
|-------------------------|-----------|---------------|------------|---------------|------|
|                         |           |               |            | KY            | U.S. |
| Percentage              |           |               |            |               |      |
| Soybeans Harvested      | 90        | 93            | 74         | 87            | 93   |
| Burley Tobacco Stripped | 33        | 31            | 30         | 24            | NA   |
| Wheat Seeded            | 90        | 92            | 88         | 87            | 89   |

(NA) Data Not Available

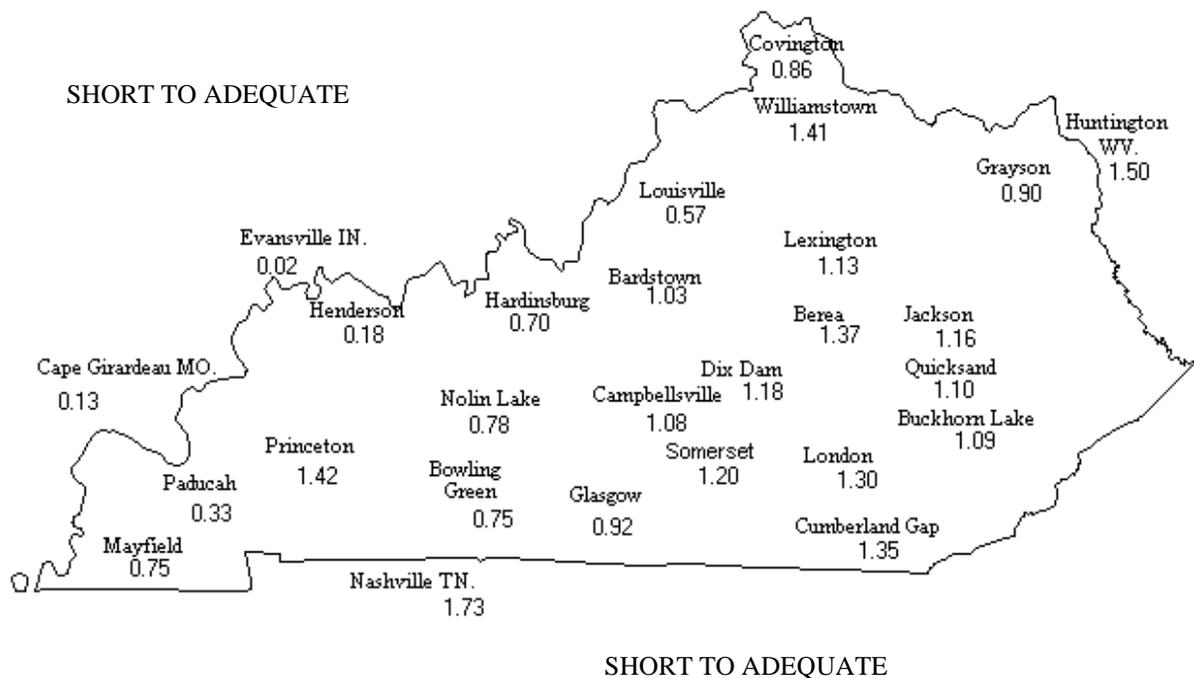
**SOIL MOISTURE**  
WEEK ENDING NOVEMBER 5, 1999  
WITH COMPARISONS

|                | This Week | Previous Week |
|----------------|-----------|---------------|
|                |           |               |
| <b>TOPSOIL</b> |           |               |
| Very Short     | 22        | 28            |
| Short          | 49        | 57            |
| Adequate       | 29        | 15            |
| Surplus        | 0         | 0             |
| <b>SUBSOIL</b> |           |               |
| Very Short     | 46        | 47            |
| Short          | 42        | 43            |
| Adequate       | 12        | 10            |
| Surplus        | 0         | 0             |

**KENTUCKY CROP CONDITIONS (Percent)**

| CROP                        | WEEK ENDING NOVEMBER 5, 1999 |      |      |      |           | WEEK ENDING OCTOBER 29, 1999 |      |      |      |           |
|-----------------------------|------------------------------|------|------|------|-----------|------------------------------|------|------|------|-----------|
|                             | VERY POOR                    | POOR | FAIR | GOOD | EXCELLENT | VERY POOR                    | POOR | FAIR | GOOD | EXCELLENT |
| Fall Wheat Seeded           | 2                            | 11   | 29   | 45   | 13        | 1                            | 6    | 32   | 52   | 9         |
| Pasture                     | 14                           | 32   | 40   | 14   | 0         | 14                           | 39   | 35   | 12   | 0         |
| Quality of Stripped Tobacco | 4                            | 17   | 39   | 37   | 3         | 3                            | 15   | 44   | 33   | 5         |

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, NOVEMBER 7, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, NOVEMBER 5, 1999**



# KENTUCKY WEATHER SUMMARY, NOVEMBER 1 - 7, 1999:

## ABOVE NORMAL Temperatures and NEAR NORMAL Rainfall:

Seasonably cooler temperatures occurred Tuesday/Wednesday across the State and for the Eastern 2/3rds of the State on Sunday, but unseasonably mild temperatures prevailed for the remainder of the time. One rain event after the start of the workweek provided rainfall amounts near 1 inch for the Eastern half of the State and some Western locations...with around ½ inch amounts or less elsewhere. The remainder of the week was dry.

Temperatures for the past week averaged 54 degrees across the State which was 3 degrees ABOVE NORMAL and 3 degrees cooler than the previous week. High temperatures averaged from 69 in the West to 64 in the East. Departure from normal high temperatures ranged from 5 degrees ABOVE NORMAL in the West to 4 degrees ABOVE NORMAL in the East. Low temperatures averaged from 43 degrees in the West to 39 degrees in the East. Departure from normal low temperature ranged from 1 degree ABOVE NORMAL in the West to NEAR NORMAL in the East. Extreme high temperatures were in the low 80's and extreme low temperatures were in the low-to-mid 20's. Rainfall for the week totaled 0.91 inches Statewide which was NEAR NORMAL. Rainfall totals by climate division, West 0.47 inches, Central 0.79 inches, Bluegrass 1.17 inches and East 1.20 inches, which was -0.53, -0.17, +0.34 and +0.32 inches respectively from normal. By station, rainfall totals ranged from a low of 0.18 inches at Henderson to a high of 1.42 inches at Princeton.

Tom Priddy

### KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, NOVEMBER 7, 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       | 1.03      | 18.10         | 1.08          | -9.40                | -1.45           | 77              | 30  | 54.3      | +3             | 92                | 44 |      |     |
| Berea           | 1.37      | 21.12         | 1.39          | -8.00                | -1.40           | 77              | 29  | 53.4      | +4             | 91                | 42 |      |     |
| Bowling Green   | 0.75      | 17.14         | 0.76          | -12.31               | -2.32           | 77              | 26  | 53.7      | +3             | --                | -- |      |     |
| Bristol         | 0.57      | 20.19         | 1.13          | -4.58                | -1.31           | 75              | 23  | 49.1      | -0             | --                | -- |      |     |
| Buckhorn Lake   | 1.09      | 18.72         | 1.61          | -9.11                | -1.15           | 77              | 23  | 51.0      | +2             | --                | -- |      |     |
| Cape Girardeau  | 0.13      | 16.16         | 0.13          | -11.45               | -2.83           | 81              | 21  | 53.9      | +1             | --                | -- |      |     |
| Campbellsville  | 1.08      | 19.55         | 1.09          | -13.21               | -1.98           | 78              | 28  | 54.9      | +4             | 92                | 42 |      |     |
| Covington       | 0.86      | 18.50         | 1.02          | -7.51                | -1.72           | 77              | 28  | 50.7      | +1             | --                | -- |      |     |
| Cumberland Gap  | 1.35      | 20.60         | 1.72          | -9.53                | -1.52           | 71              | 24  | 50.0      | +1             | 92                | 44 |      |     |
| Dix Dam         | 1.18      | 18.33         | 1.18          | -10.16               | -1.61           | 77              | 29  | 53.8      | +4             | --                | -- |      |     |
| Evansville      | 0.02      | 20.30         | 0.02          | -5.82                | -2.79           | 77              | 27  | 54.1      | +1             | --                | -- |      |     |
| Glasgow         | 0.92      | 16.66         | 0.92          | -14.85               | -2.18           | 80              | 27  | 56.1      | +5             | 92                | 42 |      |     |
| Grayson         | 0.90      | 20.42         | 1.41          | -6.40                | -1.35           | 77              | 30  | 51.9      | +3             | 90                | 43 |      |     |
| Hardinsburg     | 0.70      | 19.36         | 0.70          | -9.83                | -2.33           | 80              | 26  | 54.8      | +4             | 87                | 46 |      |     |
| Henderson       | 0.18      | 21.44         | 0.18          | -5.61                | -2.66           | 77              | 28  | 57.1      | +4             | 87                | 41 |      |     |
| Huntington      | 1.50      | 19.07         | 3.03          | -7.91                | +0.24           | 79              | 31  | 50.7      | +1             | --                | -- |      |     |
| Jackson         | 1.16      | 23.19         | 1.80          | -5.81                | -1.08           | 79              | 29  | 53.3      | +4             | --                | -- |      |     |
| Lexington       | 1.13      | 16.12         | 1.15          | -11.38               | -1.38           | 78              | 27  | 51.5      | +2             | --                | -- |      |     |
| London          | 1.30      | 20.30         | 1.59          | -6.71                | -1.18           | 76              | 25  | 50.8      | +1             | --                | -- |      |     |
| Louisville      | 0.57      | 21.44         | 0.61          | -5.65                | -2.09           | 79              | 31  | 54.5      | +4             | --                | -- |      |     |
| Mayfield        | 0.75      | 20.30         | 0.80          | -10.17               | -2.79           | 77              | 29  | 54.6      | +2             | 90                | 45 |      |     |
| Nashville       | 1.73      | 22.65         | 1.80          | -4.59                | -0.94           | 78              | 29  | 54.9      | +4             | --                | -- |      |     |
| Nolin Lake      | 0.78      | 20.26         | 0.78          | -10.91               | -2.42           | 78              | 28  | 54.5      | +4             | --                | -- |      |     |
| Paducah         | 0.33      | 24.65         | 0.36          | -4.58                | -2.68           | 81              | 30  | 57.7      | +5             | 90                | 45 |      |     |
| Princeton       | 1.42      | 24.91         | 1.54          | -4.46                | -1.61           | 79              | 30  | 58.9      | +6             | 90                | 49 |      |     |
| Quicksand       | 1.10      | 23.45         | 1.72          | -5.55                | -1.16           | 79              | 23  | 51.3      | +2             | 99                | 42 |      |     |
| Somerset        | 1.20      | 25.83         | 1.26          | -4.89                | -1.93           | 75              | 24  | 52.0      | +3             | 91                | 44 |      |     |
| Spindletop      | 1.06      | 13.42         | 1.20          | -14.08               | -1.33           | 78              | 30  | 53.3      | +4             | 90                | 48 |      |     |
| Williamstown    | 1.41      | 15.27         | 1.55          | -12.33               | -1.30           | 77              | 28  | 53.6      | +4             | 81                | 42 |      |     |

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (606)257-3000 ext 245. E-mail: tpriddy@ca.uky.edu Additional Ky weather data available on Internet at: <http://www.agwx.ca.uky.edu/>

## WIND CHILL CHART

| Wind Speed<br>MPH | Air Temperature<br>(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 (606) 257-3000.

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