



Crop Progress and Condition

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In Cooperation with:

Univ. of KY – Agr'l Weather Center
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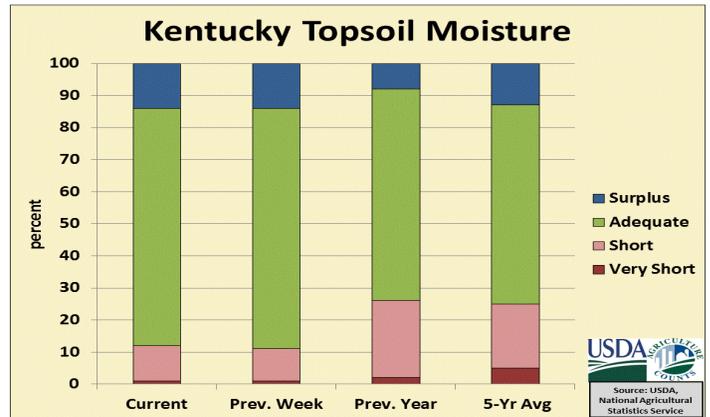
Agricultural News: Kentucky experienced above normal temperatures and rainfall over the past week. Precipitation for the week totaled 1.40 inches, 0.42 inches above normal. Temperatures averaged 80 degrees for the week, 3 degrees above normal. **Topsoil moisture** was rated 1 percent very short, 11 percent short, 74 percent adequate and 14 percent surplus. **Subsoil moisture** was rated 10 percent short, 76 percent adequate, and 14 percent surplus. Days suitable for fieldwork averaged 5.3 out of a possible seven.

Primary activities this week included scouting fields for incidences of disease, topping tobacco, and cutting hay. Precipitation increased from remnants of Tropical Storm Barry earlier in the week followed by excessive heat and humidity. Crops and pastures showed signs of stress from the high temperatures and dry weather later in the week. Livestock heat stress was also escalated during this period.

SOIL MOISTURE for week ending 07/21/19

| | Very Short | Short | Adequate | Surplus |
|---------|------------|-------|----------|---------|
| | % | % | % | % |
| Topsoil | 1 | 11 | 74 | 14 |
| Subsoil | - | 10 | 76 | 14 |

- Represents zero.



CROP PROGRESS for week ending 07/21/19

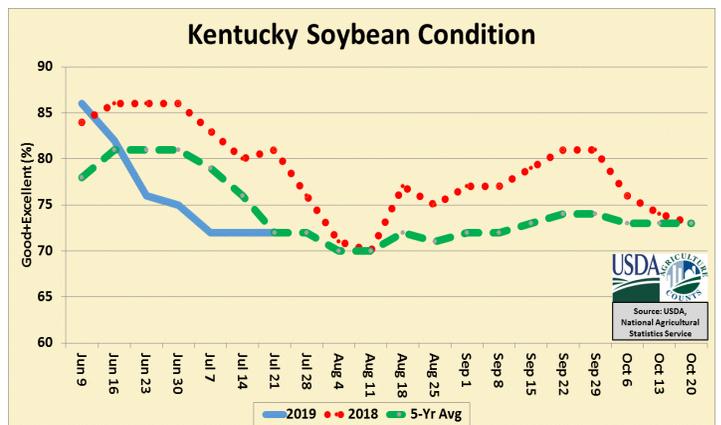
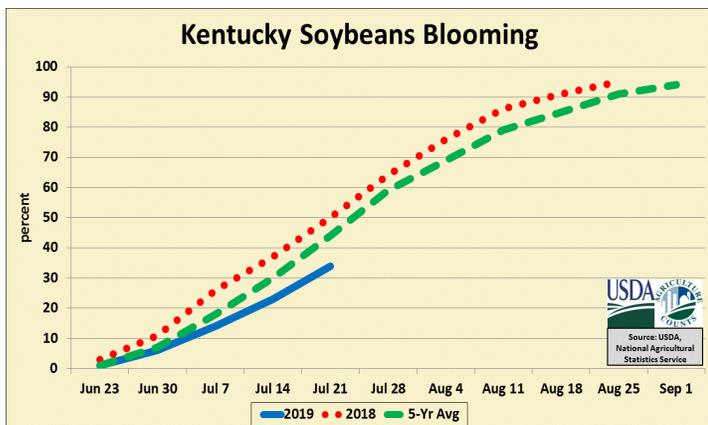
| Crop Stage | This Week | Last Week | Last Year | 5-Yr Avg |
|-----------------------|-----------|-----------|-----------|----------|
| | % | % | % | % |
| Corn Silking | 69 | 60 | 85 | 81 |
| Corn Milked | 38 | 26 | 51 | 44 |
| Corn Dough | 19 | 8 | 30 | 23 |
| Corn Dent | 2 | - | 4 | 3 |
| Soybeans Emerged | 95 | 90 | 100 | 99 |
| Soybeans Blooming | 34 | 23 | 50 | 44 |
| Soybeans Setting Pods | 11 | -1 | 28 | 20 |
| Tobacco Blooming | 37 | 24 | 42 | 38 |
| Tobacco Topped | 15 | 6 | 21 | 17 |

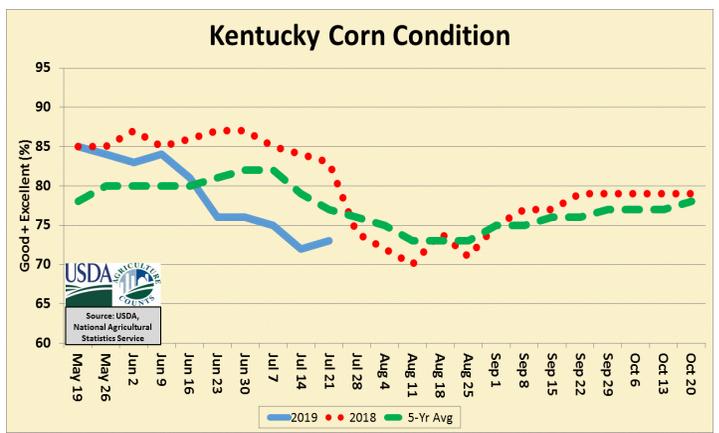
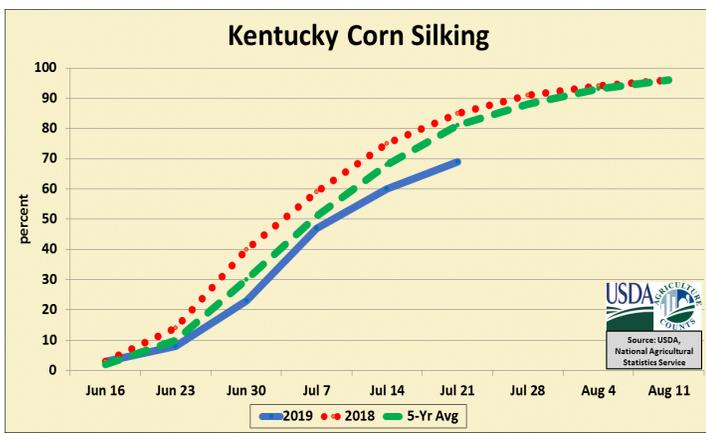
- Represents zero.

-1 Shown when data not available.

CROP CONDITIONS for week ending 07/21/19

| Crop | Very Poor | Poor | Fair | Good | Excellent |
|-------------|-----------|------|------|------|-----------|
| | % | % | % | % | % |
| Corn | 2 | 7 | 18 | 54 | 19 |
| Pasture | 1 | 7 | 26 | 57 | 9 |
| Soybeans | 2 | 6 | 20 | 58 | 14 |
| Tobacco Set | 1 | 9 | 30 | 54 | 6 |





**Kentucky Climate Summary
For the Period July 15, 2019 to July 21, 2019**

Above Normal Temperatures and Rainfall:

The remnants of Tropical Storm Barry worked through the region over the first half of the work week, resulting in multiple rounds of storms. Once again, a very moist air mass led to torrential rainfall from time to time. The state averaged 1.40 inches for the week, but several locations recorded 2 to 3+ inches. As the remnants of Barry moved away from the region midweek, focus then turned to oppressive heat moving into the area through the weekend. An 'Excessive Heat Warning' was issued for much of the state as temperatures rose into the upper 80s to middle 90s for highs. A very sticky air mass with dewpoints in the middle to upper 70s led to heat indices between 100 and 110 degrees during the day. This was ultimately the warmest period of the year thus far and pushed livestock heat stress into the danger to emergency category each day. Looking back, the state has now gone four straight weeks of above normal temperatures.

Temperatures for the period averaged 80 degrees across the state which was 3 degrees warmer than normal and 2 degrees warmer than the previous period. High temperatures averaged from 87 in the West to 88 in the East. Departure from normal high temperatures ranged from 3 degrees cooler than normal in the West to 1 degree warmer than normal in the East. Low temperatures averaged from 73 degrees in the West to 71 degrees in the East. Departure from normal low temperatures ranged from 5 degrees warmer than normal in the West to 7 degrees warmer than normal in the East. The extreme high temperature for the period was 96 degrees at LOUISVILLE APT and the extreme low was 66 degrees at OWINGSVILLE 4S.

Precipitation (liq. equ.) for the period totaled 1.40 inches statewide which was 0.42 inches above normal and 143% of normal. Precipitation totals by climate division, West 1.50 inches, Central 0.91 inches, Bluegrass 1.99 inches and East 1.20 inches, which was 0.56, -0.09, 1.04 and 0.18 inches respectively from normal. By station, precipitation totals ranged from a low of 0.05 inches at PEABODY to a high of 4.90 inches at POPLAR BLUFF ASOS.

**KENTUCKY TEMPERATURES AND RAIN FALL
FOR WEEK ENDING SUNDAY, 07/21/19 4 p.m.**

| Weather Station | Rainfall | | | Deviation From | | Air Temperatures | | | | Growing Degree Days | | |
|-----------------|-----------|-------------|----------------|-------------------|-------------------|------------------|-----------|------------|-----------------|---------------------|-------------|------------------|
| | Last Week | Since Apr 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 | Inches | Inches | Inches | Inches | Degrees F | Degrees F | Degrees F | Degrees F | Degrees F | Degrees F | Degrees F |
| Bardstown | 0.57 | 18.87 | 1.40 | 3.47 | -2.84 | 91 | 63 | 80 | 4 | 210 | 2,138 | 153 |
| Berea | 2.80 | 20.56 | 4.35 | 4.55 | 0.43 | 90 | 68 | 79 | 4 | 202 | 2,035 | 4 |
| Bowling Green | 0.23 | 18.38 | 3.13 | 1.74 | -1.05 | 93 | 72 | 82 | 6 | 223 | 2,424 | 364 |
| Bristol | 0.38 | 17.25 | 1.91 | 3.58 | -1.84 | 92 | 67 | 80 | 5 | 206 | 2,170 | 299 |
| Buckhorn Lake | 1.00 | 18.88 | 4.40 | 3.59 | 0.15 | 89 | 68 | 78 | 3 | 200 | 2,086 | 291 |
| Cape Girardeau | 3.49 | 25.66 | 5.58 | 10.17 | 2.37 | 91 | 71 | 81 | 3 | 219 | 2,336 | 170 |
| Campbellsville | 1.92 | 16.90 | 3.77 | -0.83 | -0.84 | 90 | 70 | 79 | 3 | 203 | 2,051 | 43 |
| Covington | 1.56 | 21.19 | 2.20 | 6.45 | -1.57 | 93 | 69 | 82 | 7 | 221 | 2,066 | 241 |
| Cumberland Gap | 0.53 | 24.04 | 4.66 | 7.32 | 0.10 | 80 | 64 | 70 | -5 | 144 | 1,275 | -583 |
| Dix Dam | 3.50 | 19.64 | 4.76 | 3.65 | 0.54 | 91 | 69 | 80 | 5 | 210 | 2,129 | 158 |
| Evansville | 0.81 | 19.70 | 1.97 | 4.70 | -1.58 | 94 | 73 | 82 | 4 | 222 | 2,219 | 170 |
| Glasgow | 0.68 | 20.54 | 3.12 | 2.73 | -1.55 | 91 | 70 | 80 | 4 | 206 | 2,177 | 190 |
| Grayson | 2.69 | 18.74 | 6.27 | 3.72 | 2.08 | 93 | 68 | 80 | 5 | 211 | 2,126 | 391 |
| Hardinsburg | 0.86 | 25.72 | 4.05 | 9.52 | -0.07 | 91 | 70 | 80 | 4 | 211 | 2,148 | 72 |
| Henderson | 1.57 | 17.76 | 2.72 | 2.39 | -0.93 | 92 | 71 | 80 | 2 | 210 | 2,168 | 67 |
| Huntington | 0.64 | 15.35 | 2.79 | 0.45 | -1.41 | 94 | 69 | 81 | 6 | 216 | 2,032 | 148 |
| Jackson | 1.34 | 21.38 | 6.25 | 5.42 | 1.80 | 91 | 69 | 79 | 4 | 204 | 2,178 | 383 |
| Lexington | 1.33 | 18.71 | 2.93 | 3.31 | -1.31 | 94 | 70 | 82 | 7 | 226 | 2,251 | 351 |
| London | 1.20 | 23.52 | 5.14 | 8.50 | 1.07 | 92 | 69 | 80 | 5 | 206 | 2,176 | 285 |
| Louisville | 0.17 | 19.87 | 1.77 | 4.50 | -2.09 | 96 | 75 | 85 | 9 | 245 | 2,492 | 460 |
| Mayfield | 2.28 | 18.89 | 4.49 | 2.42 | 0.66 | 90 | 70 | 80 | 2 | 208 | 2,248 | 132 |
| Nashville | 0.36 | 15.20 | 3.70 | -0.31 | 0.18 | 97 | 72 | 83 | 7 | 230 | 2,615 | 406 |
| Nolin Lake | 0.38 | 21.81 | 4.03 | 4.46 | -0.31 | 95 | 67 | 81 | 5 | 216 | 2,318 | 420 |
| Paducah | 1.65 | 27.67 | 5.11 | 10.83 | 1.33 | 93 | 71 | 82 | 4 | 224 | 2,384 | 249 |
| Princeton | 0.83 | 16.97 | 3.35 | 0.45 | -0.45 | 90 | 71 | 80 | 2 | 209 | 2,190 | 55 |
| Quicksand | 1.62 | 19.05 | 5.68 | 3.09 | 1.23 | 91 | 68 | 80 | 5 | 206 | 2,090 | 295 |
| Somerset | 0.63 | 21.03 | 3.36 | 4.06 | -0.94 | 89 | 68 | 78 | 3 | 196 | 2,018 | 96 |
| Spindletop | 1.75 | 17.75 | 2.60 | 2.35 | -1.64 | 94 | 70 | 82 | 7 | 226 | 2,244 | 344 |
| Williamstown | 1.59 | 21.19 | 3.38 | 5.79 | -0.57 | 90 | 67 | 79 | 4 | 205 | 1,962 | 100 |

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (859) 218-4364.