



Crop Progress and Condition

USDA, NASS, Kentucky Field Office

David Knopf, Director
601 W Broadway, Rm 645
Louisville, Kentucky 40201-1120
(502) 907-3250 or 1-800-928-5277
Email: nassrfoemr@nass.usda.gov

In Cooperation with:

Univ. of KY – Agr'l Weather Center
U.S. Dept. of Commerce - NOAA
Kentucky Department of Agriculture
Cooperative Extension Service

Released: July 31, 2023

Issue: 22-23

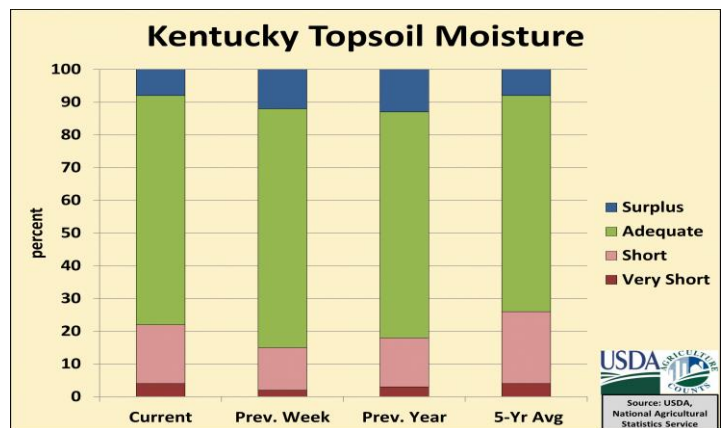
Agricultural News: Kentucky experienced above normal temperatures and slightly below normal rainfall over the past week. Precipitation for the week totaled 0.94 inches, 0.11 inches below normal. Temperatures averaged 80 degrees for the week, 3 degrees above normal. **Topsoil moisture** was rated 4 percent very short, 18 percent short, 70 percent adequate, and 8 percent surplus. **Subsoil moisture** was rated 2 percent very short, 18 percent short, 73 percent adequate, and 7 percent surplus. Days suitable for fieldwork averaged 5.7 out of a possible seven.

Primary activities for this week included monitoring field crops, spraying, topping tobacco, and cutting hay. Rain was scattered throughout this past week and for many, drought concerns have been eased. Although the rain is mostly welcomed, it has proved a detriment to field work. After very heavy rain and storms the week before last, crops have been assessed for damage. There are reports of severe damage to tobacco and total loss for some due to high winds and hail during that period. In the areas hardest hit, damage to soybeans has been observed as well. Eighty-four percent of corn is silking at this juncture. Corn in the milk stage is at 53 percent as 36 percent of the crop is doughing. Ten percent of corn is in the dent stage. Fifty-seven percent of soybeans are blooming with 39 percent setting pods. The condition of both soybeans and corn remains mostly good despite recent weather events. Forty-nine percent of tobacco is blooming as overall condition is mostly good. Despite unstable weather, 24 percent of tobacco has been topped.

Pasture condition overall has declined slightly. While some areas have received intermittent showers, others have been hit hard with recent heavy rain. In these areas, the ground is saturated and susceptible to damage from livestock traffic. Despite recent heat, livestock are in mostly good condition. Hay condition is mostly good, but there continues to be reports of varied yields. The current hay supply is rated 4 percent very short, 28 percent short, 63 percent adequate, and 5 percent surplus.

SOIL MOISTURE for week ending 07/30/23

| | Very Short | Short | Adequate | Surplus |
|---------|------------|-------|----------|---------|
| | % | % | % | % |
| Topsoil | 4 | 18 | 70 | 8 |
| Subsoil | 2 | 18 | 73 | 7 |

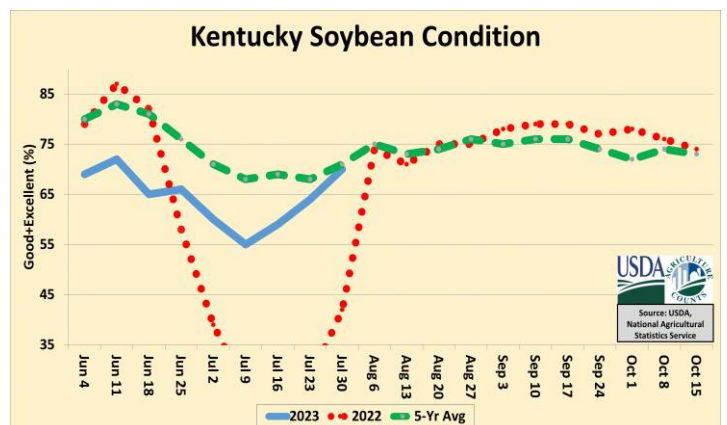
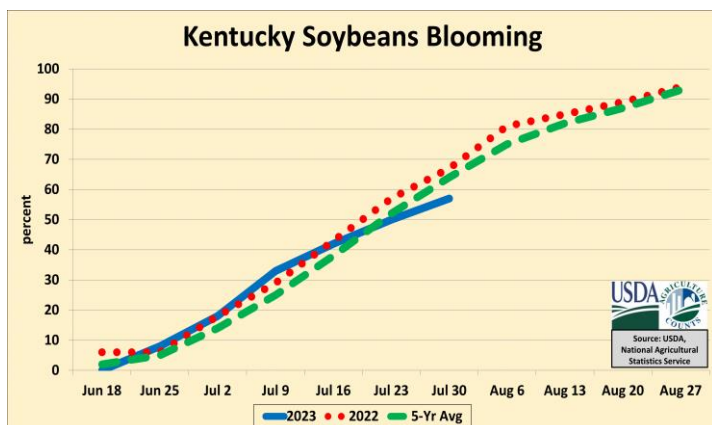


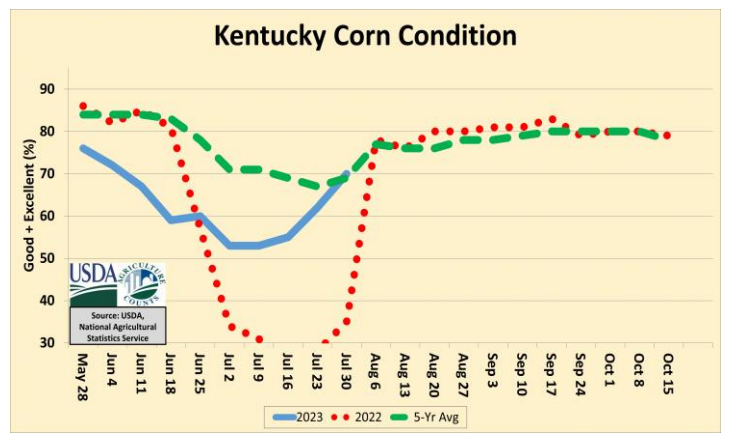
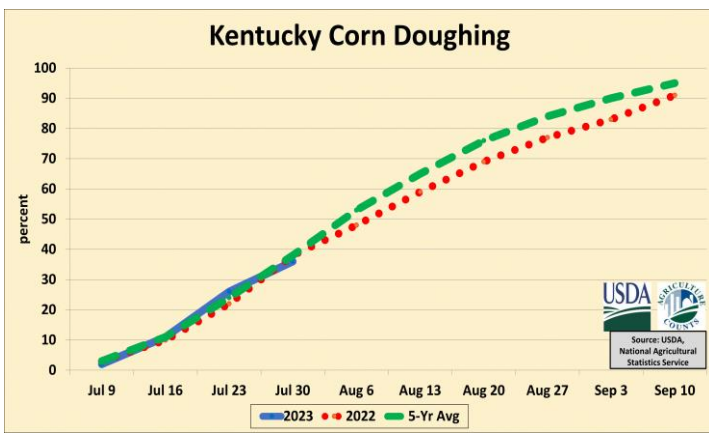
CROP PROGRESS for week ending 07/30/23

| Crop Stage | This Week | Last Week | Last Year | 5-Yr Avg |
|-----------------------|-----------|-----------|-----------|----------|
| | % | % | % | % |
| Corn Silking | 84 | 73 | 86 | 87 |
| Corn Milked | 53 | 39 | 58 | 59 |
| Corn Dough | 36 | 26 | 38 | 38 |
| Corn Dent | 10 | 2 | 18 | 16 |
| Soybeans Blooming | 57 | 50 | 67 | 64 |
| Soybeans Setting Pods | 39 | 29 | 44 | 41 |
| Tobacco Blooming | 49 | 28 | 57 | 57 |
| Tobacco Topped | 24 | 12 | 31 | 32 |

CROP CONDITIONS for week ending 07/30/23

| Crop | Very Poor | Poor | Fair | Good | Excellent |
|-------------|-----------|------|------|------|-----------|
| | % | % | % | % | % |
| Corn | 1 | 4 | 25 | 56 | 14 |
| Hay | 1 | 8 | 24 | 58 | 9 |
| Livestock | 1 | 2 | 15 | 70 | 12 |
| Pasture | 2 | 7 | 25 | 59 | 7 |
| Soybeans | 2 | 4 | 24 | 58 | 12 |
| Tobacco Set | 2 | 5 | 23 | 62 | 8 |





**Kentucky Climate Summary
For the Period July 24, 2023 to July 30, 2023**

Above Normal Temperatures and Slightly Below Normal Rainfall:

Kentucky saw another active week with near daily rounds of showers and storms. Saying that, coverage was often scattered, meaning the period was by no means a washout. This led to quite the range in accumulations. Some saw less than a quarter inch, while others recorded more than two. One of the more extreme events occurred Thursday evening/night as portions of Bourbon, Harrison, and Nicholas Counties saw 3-5 inches of rain. The active pattern has very much eased drought concerns over recent weeks. According to the latest update of the U.S. Drought Monitor, only 15% of Kentucky remains abnormally dry or in a moderate drought. Data at the UK Ag Weather Center shows the state has averaged 5 inches of rain through July 30th, which is about three quarters of an inch above normal over that time span. Looking at temperatures, summer heat ramped up over the course of the week, peaking on Friday and Saturday. Dewpoints in the 70s combined with 90+ degree temperatures pushed heat indices well over the century mark, creating stressful conditions for humans and animals, alike.

Temperatures for the period averaged 80 degrees across the state which was 3 degrees warmer than normal and 4 degrees warmer than the previous period. High temperatures averaged from 90 in the West to 89 in the East. Departure from normal high temperatures ranged from 1 degree warmer than normal in the West to 3 degrees warmer than normal in the East. Low temperatures averaged from 72 degrees in the West to 68 degrees in the East. Departure from normal low temperature ranged from 3 degrees warmer than normal in the West to 3 degrees warmer than normal in the East. The extreme high temperature for the period was 98 degrees at LOUISA 1S and the extreme low was 58 degrees at PAINTSVILLE 4W.

Precipitation (liq. equ.) for the period totaled 0.94 inches statewide which was 0.11 inches below normal and 90% of normal. Precipitation totals by climate division, West 0.83 inches, Central 0.83 inches, Bluegrass 1.35 inches and East 0.77 inches, which was -0.13, -0.15, 0.28 and -0.41 inches respectively from normal. By station, precipitation totals ranged from a low of 0.00 inches at TRIANGLE MOUNTAIN to a high of 4.76 inches at CINCINNATI/N-KY INTL AP.

**KENTUCKY TEMPERATURES AND RAIN FALL
FOR WEEK ENDING SUNDAY, 07/30/23 7 P.M. ^**

| County | 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 |
| Western KY | | | | | | | | | | | | | |
| Caldwell | Princeton(M) | 3.56 | 19.43 | 10.04 | 0.65 | 5.96 | 92 | 68 | 80 | 1 | 210 | 2216 | -206 |
| Christian | Hopkinsville(M) | 1.65 | 16.22 | 5.22 | -2.97 | 0.82 | 93 | 66 | 79 | 0 | 208 | 2241 | -181 |
| Daviess | Owensboro(AP) | 0.32 | 12.76 | 1.39 | -4.99 | -2.18 | 95 | 69 | 82 | 4 | 222 | 2363 | 19 |
| Fulton | Hickman(M) | 0.35 | 13.97 | 3.34 | -4.76 | -0.53 | 93 | 70 | 81 | 1 | 218 | 2442 | -84 |
| Marshall | Benton(M) | 0.81 | 14.67 | 5.68 | -6.56 | 1.42 | 93 | 69 | 81 | 2 | 218 | 2310 | -180 |
| McCracken | Paducah(AP) | 1.28 | 19.54 | 9.69 | 0.81 | 5.82 | 94 | 70 | 83 | 3 | 228 | 2568 | 42 |
| McLean | Calhoun(M) | 1.33 | 18.96 | 3.21 | -1.14 | -1.32 | 93 | 66 | 79 | 0 | 208 | 2166 | -421 |
| Todd | Elkton(M) | 0.57 | 14.57 | 4.56 | -4.62 | 0.16 | 95 | 63 | 79 | 0 | 209 | 2208 | -214 |
| Union | Morganfield(M) | 1.51 | 13.73 | 3.83 | -4.02 | 0.26 | 96 | 68 | 82 | 4 | 225 | 2316 | -28 |
| Central KY | | | | | | | | | | | | | |
| Barren | Glasgow(M) | 0.45 | 15.82 | 1.73 | -4.19 | -2.78 | 94 | 66 | 79 | 1 | 209 | 2116 | -158 |
| Breckinridge | Hardinsburg(M) | 1.10 | 16.11 | 4.29 | -4.05 | 0.52 | 92 | 66 | 79 | 1 | 207 | 2088 | -150 |
| Clinton | Albany(M) | 1.20 | 16.40 | 3.26 | -4.04 | -1.33 | 92 | 60 | 78 | 2 | 196 | 1990 | -13 |
| Hardin | Elizabethtown(M) | 0.75 | 16.78 | 1.73 | -3.38 | -2.04 | 94 | 63 | 79 | 1 | 206 | 2067 | -171 |
| Hart | Munfordville(M) | 0.93 | 17.95 | 2.93 | -1.76 | -1.51 | 93 | 63 | 79 | 0 | 203 | 2090 | -495 |
| Jefferson | Louisville(AP) | 0.03 | 15.01 | 2.52 | -3.15 | -1.12 | 96 | 69 | 84 | 4 | 240 | 2490 | -37 |
| Taylor | Campbellsville(M) | 0.41 | 13.63 | 1.52 | -5.89 | -2.58 | 94 | 62 | 79 | 3 | 205 | 2007 | -199 |
| Warren | Bowling_Green(AP) | 0.36 | 13.56 | 3.28 | -4.95 | -0.57 | 97 | 67 | 83 | 3 | 233 | 2468 | -32 |
| Bluegrass | | | | | | | | | | | | | |
| Boone | Cinci./NKY(AP) | 4.76 | 17.00 | 7.45 | -0.66 | 4.01 | 91 | 63 | 79 | 3 | 202 | 2013 | -12 |
| Boyle | Danville(M) | 0.66 | 13.29 | 2.12 | -6.58 | -2.55 | 93 | 63 | 79 | 4 | 206 | 1955 | -171 |
| Fayette | Lexington(AP) | 0.71 | 16.96 | 2.89 | -2.82 | -1.75 | 94 | 66 | 82 | 5 | 222 | 2228 | 65 |
| Franklin | Frankfort(M) | 0.61 | 16.20 | 3.14 | -2.34 | -1.11 | 92 | 63 | 79 | 2 | 204 | 1915 | -295 |
| Madison | Richmond(M) | 0.89 | 15.54 | 2.76 | -4.33 | -1.91 | 95 | 61 | 79 | 4 | 204 | 1891 | -235 |
| Mason | Maysville(M) | 1.73 | 13.06 | 5.74 | -5.88 | 1.12 | 90 | 63 | 77 | 1 | 190 | 1860 | -111 |
| Eastern KY | | | | | | | | | | | | | |
| Breathitt | Jackson(AP) | 0.69 | 16.34 | 4.59 | -3.55 | 0.01 | 92 | 63 | 79 | 3 | 205 | 2141 | -41 |
| Harlan | Harlan(M) | 0.47 | 14.70 | 2.65 | -4.89 | -2.12 | 88 | 61 | 70 | -5 | 144 | 1147 | -939 |
| Lawrence | Louisa(M) | 0.23 | 12.87 | 1.69 | -5.19 | -2.97 | 98 | 61 | 80 | 5 | 211 | 2015 | 19 |
| Pike | Pikeville(M) | 1.83 | 17.10 | 5.42 | -0.96 | 0.76 | 87 | 65 | 75 | 0 | 177 | 1654 | -342 |
| Pulaski | Somerset(M) | 0.08 | 12.75 | 1.22 | -7.12 | -3.45 | 95 | 59 | 78 | 3 | 201 | 1901 | -225 |
| Rowan | Morehead(M) | 0.79 | 16.04 | 4.11 | -4.38 | -1.25 | 91 | 60 | 77 | 2 | 190 | 1812 | -143 |

Climate narrative and data table provided by Matthew Dixon, Senior Meteorologist, University of Kentucky Agricultural Weather Center: (859) 218-4363.

^ : Data Courtesy: (M) - Kentucky Mesonet Station: <http://www.kymesonet.org/>

(AP) - Airport, Federal Aviation Administration Surface Weather Observation Station (ASOS/AWOS)

* : Deviations based on closest available station with climate normals: http://weather.uky.edu/climate_normals.php