



Kentucky Agricultural Statistics Service  
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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

*LELAND E. BROWN, State Statistician*

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JMB 16-02

**AGRICULTURAL NEWS:** Scattered rains were received across the State, although all areas need additional rain. The top agricultural activities this past week were baling hay, clipping pastures, cultivating tobacco, spraying for weeds, and general farm maintenance. Days suitable for fieldwork averaged 6.0 out of a possible seven. **Topsoil moisture** as of Friday, July 5 was rated 13 percent very short, 43 percent short, 43 percent adequate, and 1 percent surplus. **Subsoil moisture** was rated 4 percent very short, 38 percent short, 55 percent adequate, and 3 percent surplus.

**CORN:** Most of the corn was still doing well, although rain would be very beneficial at this time. Corn was starting to twist in some fields due to lack of rain and heat. The condition of the crop was rated as 1 percent very poor, 8 percent poor, 28 percent fair, 46 percent good, and 17 percent excellent, as of Friday, July 5. As of Sunday, July 7, 48 percent of the corn was silking, compared with 66 percent the previous year, and 46 percent for the five year average.

**SOYBEANS:** Most of the soybeans were emerged, and are generally looking good. Like the corn crop, the soybeans would benefit from rain. Soybeans blooming was at 10 percent, compared with 24 percent the previous year, and the five year average of 15 percent.

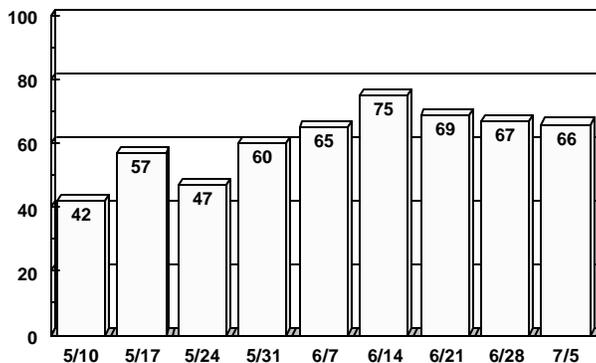
The condition of the crop was 1 percent very poor, 5 percent poor, 28 percent fair, 51 percent good, and 15 percent excellent.

**TOBACCO:** The tobacco crop looks good throughout the State. Black shank was the most prevalent disease problem reported, although some reports mentioned increased worm numbers. Condition of the set tobacco was reported as 1 percent very poor, 7 percent poor, 26 percent fair, 51 percent good, and 15 percent excellent. As of Friday, July 5, 6 percent of the set tobacco was over 36 inches, 37 percent was 24-36 inches, and 57 percent was under 24 inches in height.

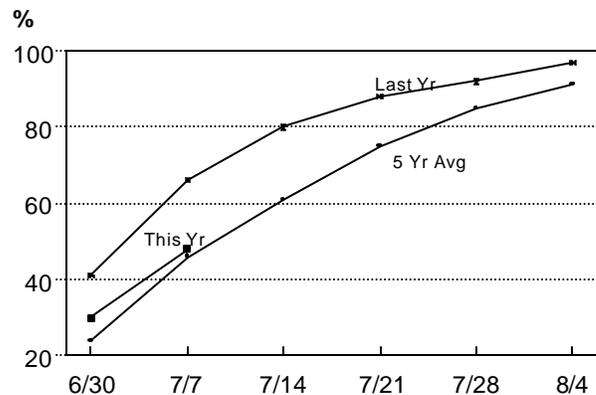
**SMALL GRAINS: Wheat** harvest was nearly complete with 99 percent of the crop harvested as of Sunday, July 7. Last year 98 percent of the crop was harvested, and the five year average was 87 percent. Yield and test weights were less than anticipated.

**OTHER CROPS:** The majority of farming activity this past week included the cutting and baling of **hay**. The condition of the hay crop as of Friday, July 5 was rated 1 percent very poor, 9 percent poor, 25 percent fair, 52 percent good, and 13 percent excellent. With little to no rain received farmers were clipping their **pastures** this past week. The condition of pastures were rated as 2 percent very poor, 13 percent poor, 26 percent fair, 50 percent good, and 9 percent excellent.

**BURLEY TOBACCO CONDITION**  
 % Good to Excellent



**CORN PERCENT SILKED**



**KENTUCKY CROP PROGRESS**  
WEEK ENDING JULY 7, 2002  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
		Percentage			
Corn Silking	48	66	46	30	5
Wheat Harvested	99	98	87	95	61
Soybeans Blooming	10	24	15	2	6

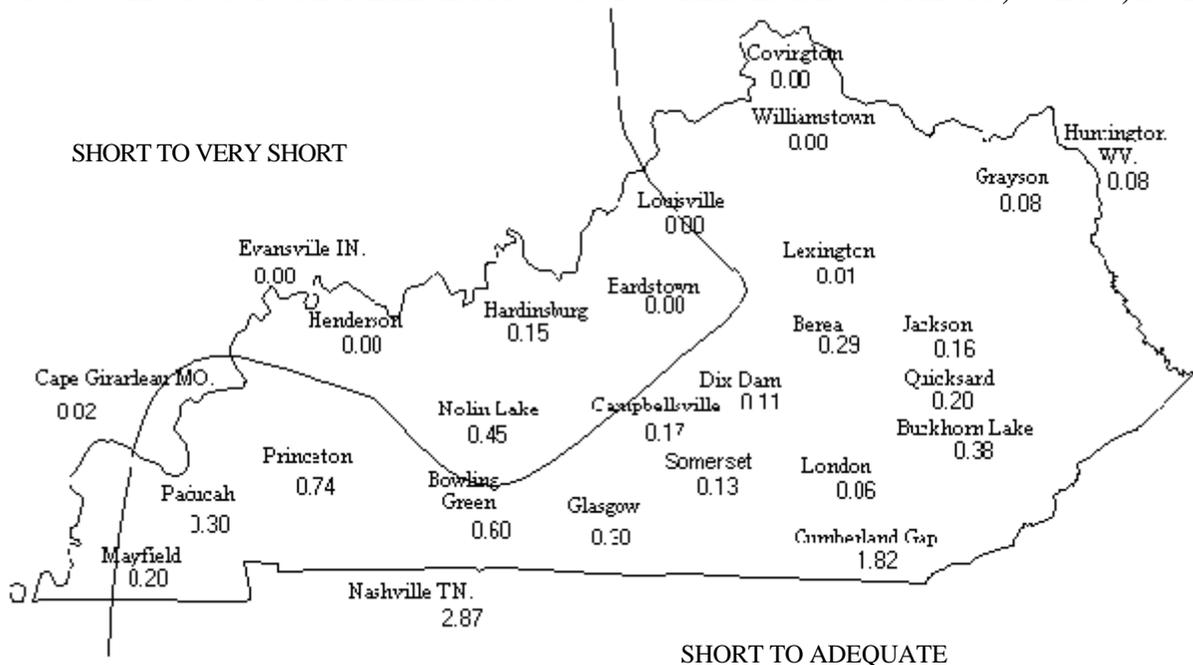
**SOIL MOISTURE**  
WEEK ENDING JULY 5, 2002  
WITH COMPARISONS

	This Week	Previous Week
Percentage		
<b>TOPSOIL</b>		
Very Short	13	7
Short	43	30
Adequate	43	54
Surplus	1	9
<b>SUBSOIL</b>		
Very Short	4	2
Short	38	26
Adequate	55	64
Surplus	3	8

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING JULY 5, 2002					WEEK ENDING JUNE 28, 2002				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	1	8	28	46	17	0	9	28	48	15
Soybeans	1	5	28	51	15	0	5	27	53	15
Pasture	2	13	26	50	9	1	6	22	55	16
Tobacco	1	7	26	51	15	1	5	27	52	15
Hay Crops	1	9	25	52	13	NA	NA	NA	NA	NA

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 7, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 5, 2002**



# KENTUCKY WEATHER SUMMARY, JULY 1 - 7, 2002:

## ABOVE NORMAL TEMPERATURES AND BELOW NORMAL RAINFALL:

The week began with above normal temperatures across the region. As a stagnant high centered over the area began to subside, high pressure to the north of the area provided northerly flow late in the week. The result was slightly cooler temperatures west and central and near normal temperatures east. Due to the influence of high pressure throughout the week, rainfall was minimal, with rainfall totals well below normal for most of the State. For the past 30 days, rainfall totals were nearly 2 inches below normal for the entire State. Temperatures for the period averaged 80 degrees across the State which was 4 degrees above normal. High temperatures averaged from 93 in the West to 89 in the East. Departure from normal high temperatures ranged from 4 degrees above normal in the West to 4 degrees above normal in the East. Low temperatures averaged from 69 degrees in the West to 66 degrees in the East. Departure from normal low temperature ranged from 3 degrees above normal in the West to 2 degrees above normal in the East.

Rainfall for the period totaled 0.22 inches statewide which was 0.83 inches below normal. Precipitation totals by climate division, West 0.21 inches, Central 0.25 inches, Bluegrass 0.07 inches and East 0.36 inches, which was 0.72, 0.86, 0.99 and 0.77 inches respectively below normal. By station, rainfall totals ranged from a low of 0.00 inches at Bardstown to a high of 1.82 inches at Cumberland Gap.

Tom Priddy

## KENTUCKY TEMPERATURES AND RAINFALL

FOR WEEK ENDING SUNDAY, JULY 7, 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	Lo w	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr. 1
	(Inches)			(Degrees Fahrenheit)								
Bardstown	0.00	17.57	2.32	+4.43	-1.37	96	63	80.6	+5	188	1732	+139
Berea	0.29	20.22	4.44	+6.20	+0.68	93	60	78.4	+4	183	1774	+143
Bowling Green	0.60	14.66	1.47	+0.16	-2.52	95	61	80.4	+5	188	1768	+107
Bristol	2.29	7.65	3.79	-4.07	+0.34	92	60	76.6	+2	171	1664	+169
Buckhorn Lake	0.38	12.80	3.03	-0.30	-0.97	91	63	77.2	+2	180	1650	+222
Cape Girardeau	0.02	21.23	1.35	+7.34	-1.88	96	62	81.4	+4	191	1835	+99
Campbellsville	0.17	15.90	4.00	+0.60	-0.12	95	61	79.9	+4	186	1808	+207
Covington	0.00	17.52	1.07	+4.69	-2.58	95	64	79.5	+5	186	1518	+76
Cumberland Gap	1.82	9.50	3.39	-4.84	-0.78	93	62	77.9	+3	178	1711	+246
Dix Dam	0.11	16.83	2.80	+3.08	-0.89	95	62	79.7	+5	186	1710	+117
Evansville	0.00	18.33	1.86	+5.16	-1.50	96	63	81.8	+4	196	1756	+118
Glasgow	0.30	14.82	4.51	-0.59	+0.09	97	62	81.7	+6	192	1906	+335
Grayson	0.08	12.74	1.53	-0.09	-2.26	93	61	78.5	+4	182	1637	+270
Hardinsburg	0.15	16.16	1.27	+2.11	-2.46	94	63	80.4	+5	191	1737	+76
Henderson	0.00	21.21	1.22	+7.69	-2.36	95	62	80.9	+3	191	1802	+134
Huntington	0.08	12.87	1.60	+0.20	-2.10	93	60	78.4	+3	182	1634	+162
Jackson	0.16	14.39	2.88	+0.80	-0.98	90	63	77.3	+2	183	1663	+235
Lexington	0.01	11.87	1.38	-1.27	-2.31	96	62	79.9	+5	186	1633	+161
London	0.06	11.41	2.19	-1.46	-1.42	92	61	77.5	+3	180	1625	+160
Louisville	0.00	16.61	1.01	+3.28	-2.43	94	60	80.0	+4	192	1714	+76
Mayfield	0.20	12.51	0.27	-1.93	-3.10	94	62	79.4	+2	186	1727	+5
Nashville	2.87	12.64	4.06	-1.08	+0.66	95	67	81.1	+5	196	1896	+130
Nolin Lake	0.45	14.87	1.36	-0.20	-2.52	95	62	80.3	+5	188	1742	+216
Paducah	0.30	17.21	0.68	+2.26	-3.10	98	63	82.7	+5	195	1864	+135
Princeton	0.74	17.38	1.82	+2.80	-1.84	96	63	81.3	+4	192	1932	+234
Quicksand	0.20	13.77	3.15	+0.18	-0.71	90	63	77.3	+2	183	1656	+228
Somerset	0.13	13.03	2.80	-1.73	-1.27	93	61	77.8	+3	180	1671	+115
Spindletop	0.00	11.00	0.88	-2.14	-2.81	93	62	78.4	+3	184	1590	+118
Williamstown	0.00	14.93	2.16	+1.58	-1.50	95	60	80.1	+5	189	1690	+218

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.

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