



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

# KENTUCKY WEEKLY CROP & WEATHER REPORT



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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JMB 16-07

**AGRICULTURAL NEWS:** Most of the State received various amounts of rain last week, which helped the crops. More rain is still needed across Kentucky to aid in crop development. Farmers commented that the earlier planted crops benefited more from the rain than the later planted crops. **Topsoil moisture** was rated as 25 percent very short, 30 percent short, 41 percent adequate, and 4 percent surplus. **Subsoil moisture** was rated 32 percent very short, 36 percent short, 30 percent adequate, and 2 percent surplus. There were 5.0 days suitable for fieldwork.

**TOBACCO:** A few farmers were still resetting their tobacco last week, while earlier set tobacco was starting to bloom. Thirty-six percent of the tobacco plants were under 24 inches, 37 percent were between 24 to 36 inches, and 27 percent were over 36 inches. The tobacco crop condition was reported as 8 percent very poor, 15 percent poor, 32 percent fair, 37 percent good, and 8 percent excellent. There have been a few reports of black shank, although the majority of the tobacco is disease and insect free.

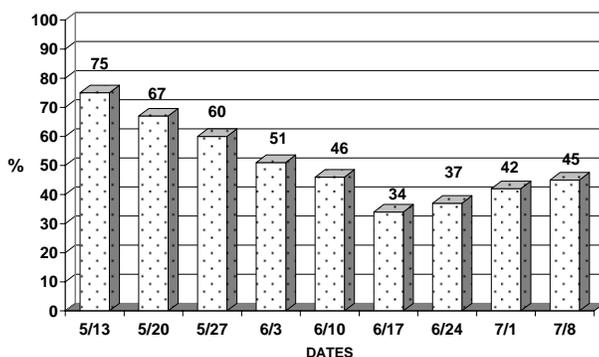
**CORN:** As of Sunday, July 8 sixty-seven percent of the corn has silked or was silking. Comparable to last year's 68 percent, but ahead of the five year average of 60 percent. The corn condition was rated as 6 percent very poor, 11 percent poor, 24 percent fair, 43 percent good, and 16 percent excellent.

**SOYBEANS:** As of Sunday, July 8 twenty-three percent of the soybeans were blooming. This is behind the previous year's 29 percent, but comparable to the five year average of 22 percent. The soybean condition was rated as 5 percent very poor, 10 percent poor, 25 percent fair, 43 good, and 17 percent excellent.

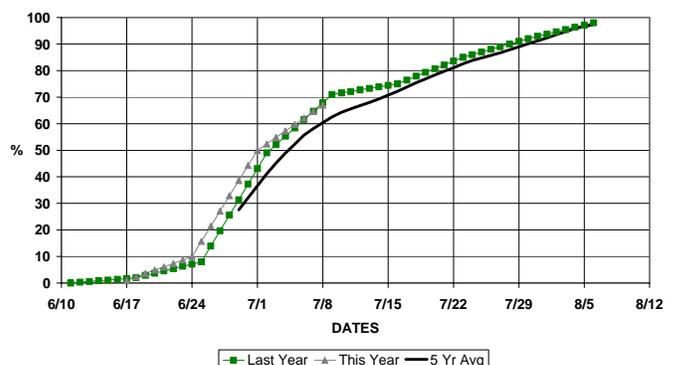
**SMALL GRAINS:** Ninety-three percent of the wheat crop has been harvested, behind last year's 98 percent and the five year average of 97 percent. Although the early spring freeze devastated many wheat fields, the remaining harvested wheat crop yield and test weights look better than what farmers initially expected.

**OTHER CROPS AND PASTURE:** The rain received this past week did slightly improve the pasture conditions, but more rain is still needed to revive the State's pastures and hay fields. The pasture condition was rated as 21 percent very poor, 34 percent poor, 32 percent fair, 12 percent good, and 1 percent excellent. The hay crop condition was rated as 22 percent very poor, 34 percent poor, 35 percent fair, 8 percent good, and 1 percent excellent. Farmers have been feeding hay to their cattle since the pastures are in poor to very poor condition. Now with the low hay cuttings, farmers are trying to find hay to buy.

**BURLEY TOBACCO CONDITION**  
% Good to Excellent



**CORN PERCENT SILKED**



## KENTUCKY CROP PROGRESS

WEEK ENDING JULY 8, 2007

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Corn Silking	67	68	60	50	13
Soybeans Blooming	23	29	22	13	19
Wheat Harvested	93	98	97	78	40

(NA)Data Not Available.

## SOIL MOISTURE

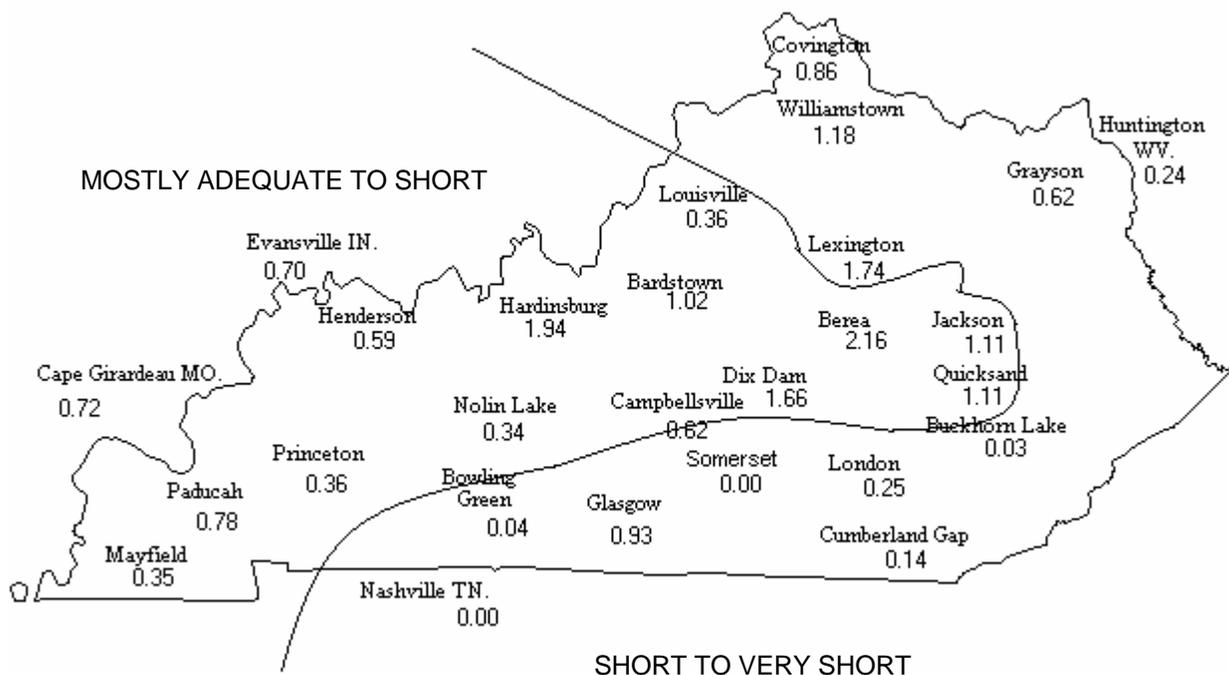
WEEK ENDING JULY 8, 2007

	This Week	Previous Week
<b>TOPSOIL</b>		
Very Short	25	39
Short	30	36
Adequate	41	24
Surplus	4	1
<b>SUBSOIL</b>		
Very Short	32	41
Short	36	38
Adequate	30	20
Surplus	2	1

## KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING JULY 8, 2007					WEEK ENDING JULY 1, 2007				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	6	11	24	43	16	9	11	20	44	16
Soybeans	5	10	25	43	17	6	8	25	41	20
Pasture	21	34	32	12	1	26	36	28	9	1
Tobacco	8	15	32	37	8	12	16	30	36	6
Hay Crops	22	34	35	8	1	NA	NA	NA	NA	NA

## PRECIPITATION MAP AND TOPSOIL MOISTURE DELINEATION WEEK ENDING JULY 8, 2007



# **KENTUCKY WEATHER SUMMARY, JULY 2 – 8, 2007:**

## **Below Normal Temperatures and Below Normal Rainfall:**

Measurable rainfall occurred over most of the State last week, but only the West and Bluegrass areas received normal or above normal rainfall. The northern half of the State received locally heavy rainfall, while much less rainfall occurred in the southern counties especially along the KY/TN and KY/VA borders. The end result was that the central section only received 13 percent and eastern only received 65 percent of normal rainfall, while the west received 96 percent and Bluegrass area received 181 percent of normal.

Temperatures for the 7 day period averaged 76 degrees across the State which was 1 degree below normal and 2 degrees cooler than the previous week. High temperatures averaged from 88 in the West to 87 in the East. Departure from normal high temperatures ranged from 2 degrees below normal in the West to 2 degrees above normal in the East. Low temperatures averaged from 65 degrees in the West to 64 degrees in the East. Departure from normal low temperature ranged from 2 degrees below normal in the West to 1 degree below normal in the East.

Rainfall for the period totaled 0.84 inches statewide which was 0.16 inches below normal. Rainfall totals by climate division, West 1.01 inches, Central 0.13 inches, Bluegrass 1.72 inches and East 0.63 inches, which was -0.04, -0.88, +0.77 and -0.34 inches respectively from normal. By station, rainfall totals ranged from a low of 0.00 inches at Nashville to a high of 2.53 inches at Spindletop Research Farm in Lexington.

Tom Priddy

## **KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, JULY 8, 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	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr. 1
	(Inches)			(Degrees Fahrenheit)								
Bardstown	1.02	10.79	4.07	-2.51	+0.34	89	60	75.6	-0	171	1782	+165
Berea	2.16	10.05	2.93	-4.11	-0.84	90	59	76.8	+2	180	1777	+121
Bowling Green	0.04	9.91	2.64	-4.74	-1.36	93	59	77.9	+2	183	1874	+188
Bristol	0.11	6.58	2.86	-5.27	-0.61	92	59	75.1	+0	167	1629	+111
Buckhorn Lake	0.03	5.32	0.39	-7.94	-3.63	91	59	75.9	+1	172	1765	+315
Cape Girardeau	0.72	9.14	2.53	-4.86	-0.70	91	56	76.6	-1	174	1862	+99
Campbellsville	0.62	12.21	2.65	-3.27	-1.51	91	60	76.3	+1	174	1778	+152
Covington	0.86	6.80	2.41	-6.16	-1.24	90	59	74.4	-1	164	1667	+201
Cumberland Gap	0.14	8.97	2.76	-5.54	-1.44	91	59	76.4	+1	176	1768	+280
Dix Dam	1.66	10.21	2.72	-3.70	-1.01	90	59	75.6	+1	170	1735	+118
Evansville	0.70	9.66	2.29	-3.64	-1.08	91	57	76.6	-1	175	1821	+157
Glasgow	0.93	11.06	3.44	-4.52	-1.00	93	61	77.3	+2	178	1871	+275
Grayson	0.62	7.90	1.68	-5.08	-2.13	91	56	75.0	-0	166	1700	+311
Hardinsburg	1.94	10.85	4.10	-3.35	+0.34	89	60	76.6	+1	182	1878	+192
Henderson	0.59	11.26	2.97	-2.40	-0.61	90	57	76.3	-1	174	1824	+130
Huntington	0.24	6.68	1.68	-6.15	-2.06	92	56	75.0	-0	167	1696	+200
Jackson	1.11	6.64	1.97	-7.11	-1.93	89	57	74.7	-0	168	1733	+283
Lexington	1.74	9.54	2.28	-3.76	-1.45	90	57	75.7	+1	170	1705	+209
London	0.25	9.42	2.86	-3.61	-0.78	92	61	75.4	+0	169	1735	+247
Louisville	0.36	10.17	2.55	-3.30	-0.92	90	58	75.6	-0	172	1760	+96
Mayfield	0.35	6.72	1.88	-7.87	-1.53	91	59	76.1	-2	172	1776	+29
Nashville	0.00	8.42	1.89	-5.42	-1.51	93	59	79.6	+4	192	1962	+169
Nolin Lake	0.34	12.46	3.65	-2.77	-0.27	92	60	77.2	+1	181	1881	+332
Paducah	0.78	12.20	5.11	-2.88	+1.33	90	58	76.4	-1	174	1884	+129
Princeton	0.36	10.92	3.62	-3.80	-0.05	92	58	76.4	-1	174	1936	+212
Quicksand	1.11	6.59	1.98	-7.16	-1.92	91	58	75.8	+1	172	1768	+318
Somerset	0.00	8.65	2.05	-6.27	-2.04	92	54	74.9	-0	165	1634	+55
Spindletop	2.53	9.62	3.49	-3.68	-0.24	89	56	74.9	-0	166	1673	+177
Williamstown	1.18	10.76	2.50	-2.74	-1.18	90	58	74.9	-0	166	1682	+186

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: priddy@uky.edu Additional Ky weather data available on Internet at: <http://www.agwx.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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