



# KENTUCKY WEEKLY CROP & WEATHER REPORT



USDA, NASS, Kentucky Field Office  
PO Box 1120  
Louisville, Kentucky 40201-1120  
(502) 582-5293 or 1-800-928-5277

LELAND E. BROWN, Director

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**AGRICULTURAL NEWS:** Widely scattered showers during the week provided some local relief. Most areas of Kentucky remained very dry and early planted crops were becoming stressed from lack of moisture at critical points in their development. Precipitation for the week remained below normal for the seventh week in a row and averaged 0.76 inches 0.13 inches below normal. There were reports received about the beginnings of a shortage of livestock water across the State. Temperatures averaged 75 degrees, which was near normal. **Topsoil moisture** was rated as 52 percent very short, 31 percent short, and 16 percent adequate and 1 percent surplus. **Subsoil moisture** was rated 47 percent very short, 36 percent short, and 17 percent adequate. There were 6.1 days suitable for fieldwork. Several reports were received of double crop soybeans being planted following the early week rains.

**TOBACCO:** Sixty-nine percent of tobacco plants were under 12 inches, with 26 percent 12-24 inches in height, and 5 percent were over 24 inches. The tobacco crop condition was reported as 13 percent very poor, 16 percent poor, 34 percent fair, 31 percent good, and 6 percent excellent.

**CORN:** Corn condition was rated 7 percent very poor, 14 percent poor, 30 percent fair, 40 percent good, and 9 percent excellent. Twenty-five percent of the corn has tasseled or is tasseling as of Sunday June 24, ahead of both last year's 18 percent and the five-year average of 21 percent. Ten percent of the corn had silked or was silking, ahead of last year's 7 percent and behind the five-year average of 12 percent. There is concern from some reporters that

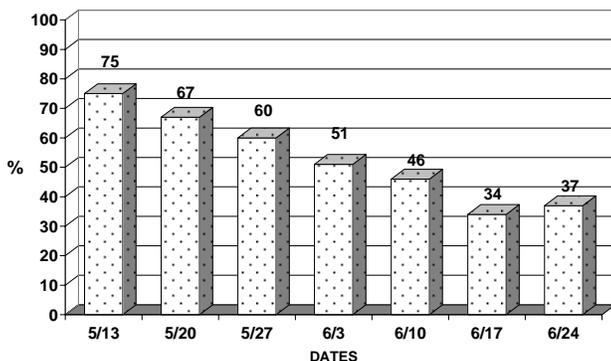
as more corn starts to tassel the continued dry spell will adversely affect kernel development.

**SOYBEANS:** Ninety-nine percent of the single crop soybeans had been planted, ahead of the 98 percent reported last year and the five-year average of 93. The percent of double-crop soybeans planted was 66 percent, ahead of both last year's 54 percent and the five-year average of 49 percent. Total crop planted was 93 percent, behind last year's 96 percent but ahead of the five-year average of 85 percent. Ninety percent of the soybeans had emerged which was ahead of last year's 89 percent and the five-year average of 74 percent. Soybean condition was rated 5 percent very poor, 12 percent poor, 33 percent fair, 39 percent good, and 11 percent excellent. The average height of emerged soybeans was 8 inches, the same as in 2006.

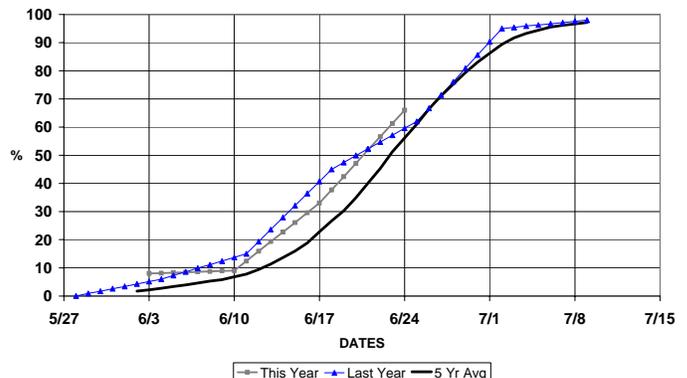
**SMALL GRAINS:** Sixty-six percent of the wheat crop has been harvested, compared with 60 percent a year ago and the five-year average of 56 percent. Early reports indicated both yields and test weights to be better than anticipated. Barley harvest was 99 percent complete compared with 93 percent last year and the five-year average of 95.

**OTHER CROPS AND PASTURE:** About 98 percent of the sorghum acres had been planted compared with 90 percent both a year ago and the five-year average. Pasture condition was rated 30 percent very poor, 34 percent poor, 29 percent fair, 6 percent good and 1 percent excellent. Pastures in some areas were not meeting livestock feed requirements. Producers were feeding hay from this year's cuttings.

BURLEY TOBACCO CONDITION  
% Good to Excellent



WHEAT PERCENT HARVESTED



**KENTUCKY CROP PROGRESS**  
WEEK ENDING JUNE 24, 2007

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Corn Tasseling	25	18	21	5	NA
Corn Silking	10	7	12	1	NA
Sorghum Planted	98	90	90	97	82
Wheat Harvested	66	60	56	33	11
Barley Harvested	99	93	95	99	NA

(NA)Data Not Available.

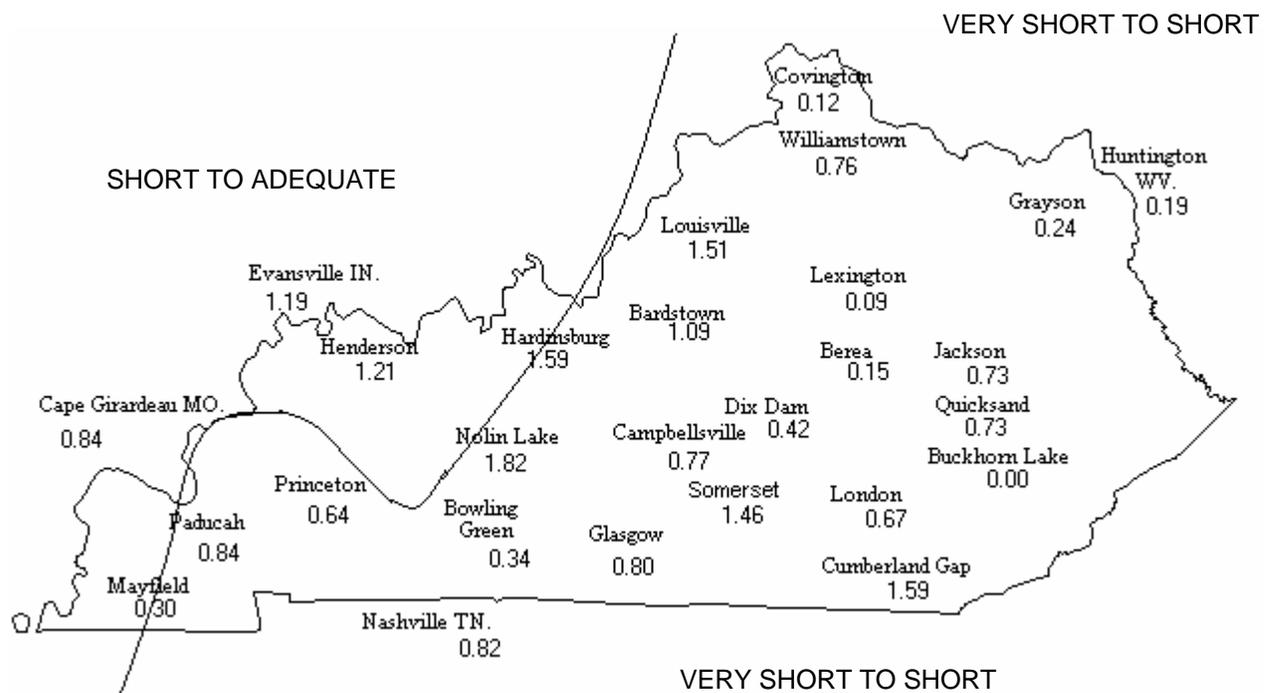
**SOIL MOISTURE**  
WEEK ENDING JUNE 24, 2007

	This Week	Previous Week
<b>TOPSOIL</b>		
Very Short	52	55
Short	31	37
Adequate	16	8
Surplus	1	0
<b>SUBSOIL</b>		
Very Short	47	40
Short	36	44
Adequate	17	16
Surplus	0	0

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING JUNE 24, 2007					WEEK ENDING JUNE 17, 2007				
	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT
Corn	7	14	30	40	9	6	20	31	37	6
Soybeans	5	12	33	39	11	4	16	29	45	6
Pasture	30	34	29	6	1	22	39	32	7	0
Tobacco	13	16	34	31	6	10	17	39	32	2

**PRECIPITATION MAP AND TOPSOIL MOISTURE DELINEATION**  
WEEK ENDING JUNE 24, 2007



# KENTUCKY WEATHER SUMMARY, JUNE 18 - 24, 2007:

Near Normal Temperatures and Below Normal Rainfall:

Beneficial rainfall returned to some sections of the Bluegrass State last week. The western half of the State received much more rainfall than did the eastern half of the State. Yet, even some localized heavy rainfall occurred in the eastern half of the State. With scattered showers and thunderstorms during the work week and numerous showers and thunderstorms during the weekend, this was the most rainfall for the State in the past 7 weeks. West and Central sections of the State received above normal rainfall, while Bluegrass and East received below normal rainfall. The end result was a considerable part of the State received beneficial rainfall for agriculture.

Temperatures for the 7 day period averaged 75 degrees across the State which was near normal and similar to the previous week's average temperature. High temperatures averaged from 88 in the West to 87 in the East. Departure from normal high temperatures ranged from near normal in the West to 3 degrees above normal in the East. Low temperatures averaged from 65 degrees in the West to 63 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 mid 90s and extreme low temperatures were in the low 50s.

Rainfall for the period totaled 0.76 inches statewide which was 0.13 inches below normal. Rainfall totals by climate division, West 0.84 inches, Central 1.19 inches, Bluegrass 0.33 inches and East 0.70 inches, which was -0.02, +0.27, -0.55 and -0.22 inches respectively from normal. By station, rainfall totals ranged from a low of 0.00 inches at Buckhorn Lake to a high of 1.82 inches at Nolin Lake.

Tom Priddy

## KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, JUNE 24, 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	1.09	7.81	1.58	-3.47	-1.92	90	55	74.2	-0	163	1427	+134
Berea	0.15	7.27	0.88	-4.96	-2.90	92	55	75.4	+2	165	1409	+85
Bowling Green	0.34	7.61	0.39	-4.99	-3.58	91	57	76.5	+2	175	1503	+155
Bristol	0.44	4.67	1.27	-5.36	-2.07	94	50	74.6	+1	159	1288	+80
Buckhorn Lake	0.00	4.97	0.44	-6.21	-3.41	91	55	75.1	+2	168	1410	+250
Cape Girardeau	0.84	7.45	1.65	-4.95	-1.80	93	59	77.7	+2	181	1499	+96
Campbellsville	0.77	10.33	1.21	-2.93	-2.79	91	54	74.4	+0	163	1422	+122
Covington	0.12	4.51	0.62	-6.59	-3.00	94	52	73.6	+0	154	1326	+172
Cumberland Gap	1.59	7.97	2.05	-4.33	-1.98	91	55	75.1	+2	168	1407	+223
Dix Dam	0.42	7.91	1.46	-3.99	-2.09	90	55	74.6	+1	164	1379	+86
Evansville	1.19	8.57	2.52	-2.99	-0.88	91	58	76.3	+0	177	1459	+141
Glasgow	0.80	8.42	0.98	-4.87	-3.35	94	53	76.0	+2	170	1506	+242
Grayson	0.24	6.50	1.31	-4.46	-2.31	96	54	74.9	+1	164	1357	+258
Hardinsburg	1.59	8.34	2.30	-3.87	-1.36	93	56	75.9	+2	170	1512	+164
Henderson	1.21	9.50	1.94	-2.34	-1.68	89	57	76.1	-0	174	1464	+116
Huntington	0.19	5.24	1.08	-5.58	-2.43	97	53	74.9	+1	163	1354	+170
Jackson	0.73	5.40	1.82	-6.24	-1.81	94	56	74.8	+1	162	1388	+228
Lexington	0.09	7.35	2.02	-3.93	-1.48	92	55	74.5	+1	163	1351	+173
London	0.67	7.23	1.79	-3.85	-1.66	92	53	74.9	+1	164	1382	+198
Louisville	1.51	9.13	1.97	-2.49	-1.39	89	56	73.9	-0	162	1405	+87
Mayfield	0.30	5.14	0.74	-7.62	-2.60	91	55	75.1	-1	168	1419	+10
Nashville	0.82	7.35	1.30	-4.76	-2.19	93	59	77.7	+3	178	1576	+143
Nolin Lake	1.82	10.63	3.54	-2.52	-0.30	91	57	76.1	+2	174	1513	+268
Paducah	0.84	7.93	2.77	-5.26	-1.11	92	59	77.3	+1	179	1520	+117
Princeton	0.64	7.94	1.70	-4.90	-2.02	95	57	77.6	+1	176	1576	+198
Quicksand	0.73	5.35	1.82	-6.29	-1.81	91	55	75.1	+2	168	1414	+254
Somerset	1.46	8.06	2.15	-4.75	-1.90	91	53	72.7	-1	151	1296	+27
Spindletop	0.44	6.57	1.58	-4.71	-1.92	92	56	73.0	-0	156	1327	+149
Williamstown	0.76	9.02	2.48	-2.56	-1.11	93	53	74.0	+1	157	1336	+158

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/>

## **DEFINITIONS OF PHENOLOGICAL STAGES USED IN SUBSEQUENT RELEASES**

### **CORN PHENOLOGICAL STAGES:**

- Silking - The emergence of silk like strands from the end of ears. Occurs approximately 10 days after the tassel first begins to emerge from the sheath or 2-4 days after the tassel is emerged.
- Dough - Normally half of the kernels are showing dent with some thick or dough like substance in all kernels.
- Dent - Occurs when all kernels are fully dented and the ear is firm and solid. There is no milk present in most kernels.
- Mature - Plant is considered safe from frost. Corn is about ready to harvest with shucks opening and there is no green foliage present.

### **SOYBEAN PHENOLOGICAL STAGES:**

- Blooming - A plant should be considered as blooming as soon as one bloom appears.
- Setting Pods - Pods are developing on the lower nodes with some blooming still occurring on the upper nodes.
- Dropping Leaves - Leaves near the bottom of the plant are yellow and dropping, while leaves at the very top may still be green. Leaves are 30-50 percent yellow.

### **SORGHUM PHENOLOGICAL STAGES:**

- Headed - The head is present, visible and fully emerged.
- Coloring - The head is turning color from green to reddish brown or white. Leaves are also turning yellow or brown.
- Mature - Grains readily part from the head and are tough and not easily crushed by the thumbnail.

This release and others can be viewed on the Internet at <http://www.nass.usda.gov/ky/> For a free E-Mail subscription of the Kentucky Weekly Crop & Weather report, on the Internet go to <http://www.nass.usda.gov/sub-form.htm> and follow the instructions.

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