



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

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# 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

**LELAND E. BROWN, Director**

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KGC 20-05

**AGRICULTURAL NEWS:** Weather in Kentucky continued to be mostly hot and dry. The occasional pop-up shower brought very little rain and did nothing to alleviate the stress on field crops. Irrigated crops are doing better, but water sources are beginning to dry up. **Topsoil moisture** as of Friday, August 5, was rated 41 percent very short, 38 percent short, and 21 percent adequate. **Subsoil moisture** was rated 34 percent very short, 40 percent short, and 26 percent adequate. Activity on the farm consisted mainly of topping and spraying tobacco, dropping tobacco sticks, spraying soybeans, cutting hay, and clipping pastures. Due to lack of precipitation, fieldwork for the week averaged 6.4 days out of a possible 7 days.

**CORN:** By now, most of the corn has been made. Some fields that were planted later in the season would benefit from additional rain. For the most part, the corn crop has started to dry. On Sunday, August 7, the corn was rated 5 percent very poor, 11 percent poor, 30 percent fair, 40 percent good, and 14 percent in excellent condition. Eighty-five percent of the corn crop has reached the milk stage or beyond, not far behind last year's 88 percent, but ahead of the 5 year average of 83 percent. The percent of corn acres that were in the dough stage or beyond was at 56 percent, below the previous year and the 5 year average of 66 and 62, respectively. Thirty percent of the corn had reached the dent stage, as opposed to 41 percent a year ago, and 32 percent for the 5 year average.

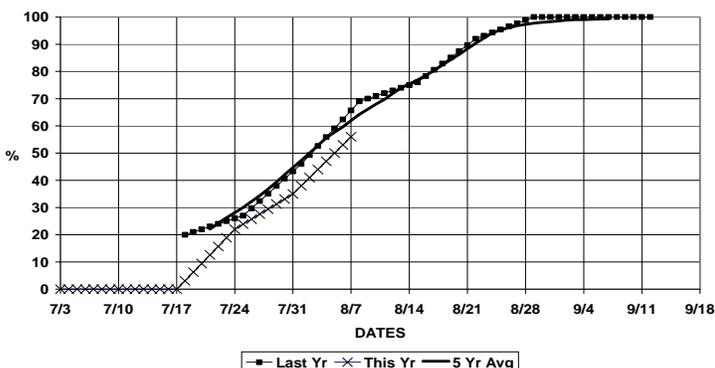
**SOYBEANS:** Rainfall at this stage of development would be greatly appreciated. Without more precipitation, pods may not fill out completely.

Soybean condition as of Friday, August 5, was rated 5 percent very poor, 11 percent poor, 34 percent fair, 36 percent good, and 14 percent excellent. Seventy-eight percent of soybeans were blooming, ahead of 2004 and the 5 year average of 73 percent. The percent of the crop that had set pods was also farther along, at 57 percent of the soybeans. Last year, it was 55 percent, with the 5 year average of 47 percent.

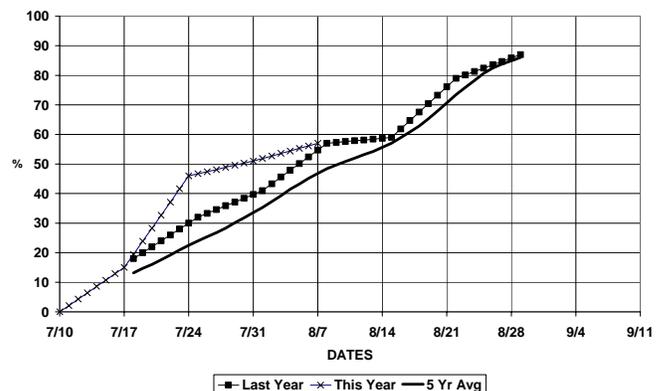
**TOBACCO:** The condition of set tobacco as of Friday, August 5, was 5 percent very poor, 14 percent poor, 31 percent fair, 37 percent good, and 13 percent excellent. The percent of burley that was blooming or beyond reached 66 percent, well behind last year's rate of 78 percent and the 5 year average of 76 percent. Forty-eight percent of burley tobacco has been topped, with a 5 year average of 54 percent. Last year, half the crop had been topped. On the other hand, dark tobacco topped was at 78 percent, compared to 76 percent a year ago and 79 percent for the 5 year average. Several farmers continued to report cases of black shank, and some problems with a few other diseases and insects. Some farms have already started to cut some tobacco in early-maturing fields.

**OTHER CROPS:** As of Friday, August 5, hay condition was rated 15 percent very poor, 20 percent poor, 35 percent fair, 26 percent good, and 4 percent excellent. Pastures fared even worse, with conditions that rated 18 percent very poor, 26 percent poor, 34 percent fair, 21 percent good, and only 1 percent excellent. There is concern that more pasture and hay fields will become dormant soon if current weather conditions continue further.

**CORN PERCENT DOUGH OR BEYOND**



**SOYBEANS SETTING PODS PROGRESS**



## KENTUCKY CROP PROGRESS

WEEK ENDING AUGUST 7, 2005  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	78	73	73	72	91
Setting Pods	57	55	47	51	55
Corn					
Milk Stage	85	88	83	59	NA
Dough Stage	56	66	62	35	27
Dent Stage	30	41	32	12	4
Burley Tobacco					
Blooming	66	78	76	47	NA
Topped	48	50	54	25	NA
Dark Tobacco					
Topped	78	76	79	75	NA

(NA)Data Not Available.

## SOIL MOISTURE

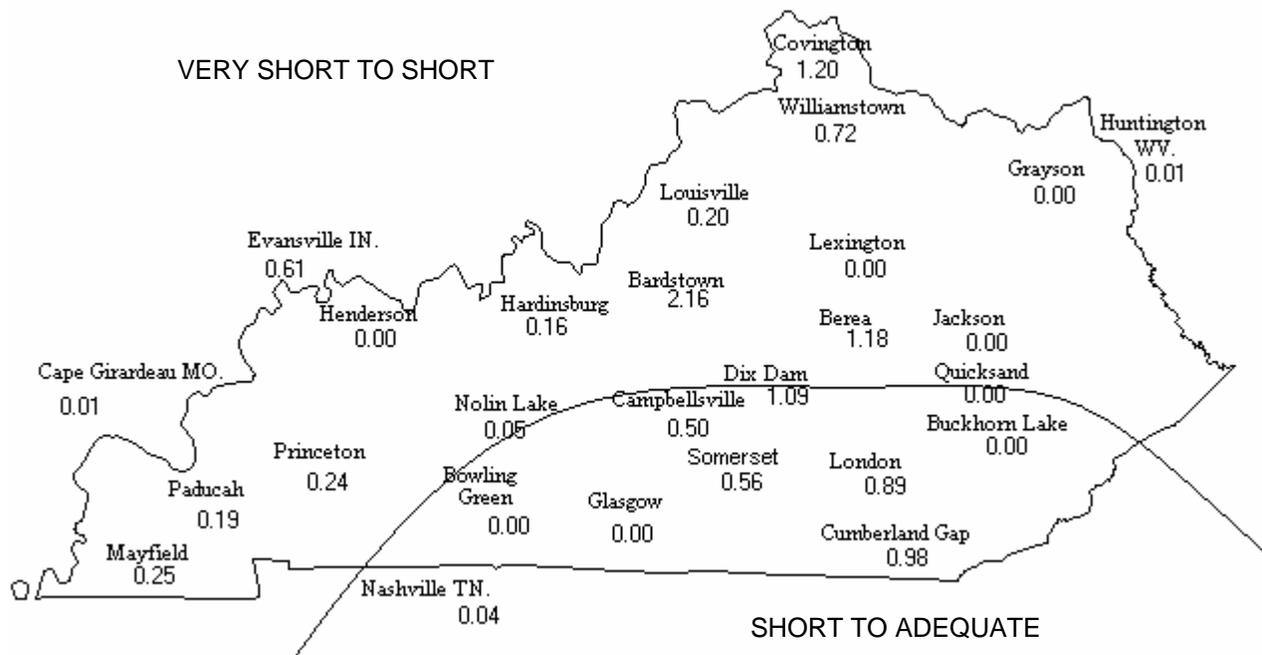
WEEK ENDING AUGUST 5, 2005  
WITH COMPARISONS

	This Week	Previous Week
Percentage		
<b>TOPSOIL</b>		
Very Short	41	13
Short	38	39
Adequate	21	43
Surplus	0	5
<b>SUBSOIL</b>		
Very Short	34	11
Short	40	38
Adequate	26	49
Surplus	0	2

## KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING AUGUST 5, 2005					WEEK ENDING JULY 29, 2005				
	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT
Corn	5	11	30	40	14	5	7	28	38	22
Soybeans	5	11	34	36	14	2	6	20	48	24
Pasture	18	26	34	21	1	9	26	42	21	2
Hay Crops	15	20	35	26	4	9	20	46	21	4
Tobacco	5	14	31	37	13	3	10	32	45	10

## PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 7, 7:00 P.M. TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, AUGUST 5, 2005



# **KENTUCKY WEATHER SUMMARY, AUGUST 1 – 7, 2005:**

## **Above Normal Temperatures and Below Normal Precipitation:**

Sunshine and heat were back in the picture across Kentucky this week. High temperatures Monday through Thursday were in the 90's across the State, with Jackson setting a few record highs. Dew points were generally in the lower to middle 60's, so heat index values were at or below the actual air temperature due to low relative humidity values near 30%. It was still warm outside as livestock heat stress was regularly in the danger category by mid morning until early evening. It was also another dry week across Kentucky. There were very isolated showers during the beginning of the week. A cold front approached the Ohio Valley on Friday bringing more organized activity. Over the weekend, pop up thunderstorms were more numerous, with several producing strong winds and hail. Despite the storms, there were still many areas that again went dry this week. The past 3 weeks have had above normal temperatures and below normal precipitation.

Temperatures for the period averaged 80 degrees across the State which was 5 degrees above normal. High temperatures averaged from 93 in the West to 92 in the East. Departure from normal high temperatures ranged from 4 degrees above normal in the West to 7 degrees above normal in the East. Low temperatures averaged from 68 degrees in the West to 67 degrees in the East. Departure from normal low temperature ranged from 2 degrees above normal in the West to 3 degrees above normal in the East. The extreme high temperature was 99 degrees in Grayson. The extreme low temperature was 63 degrees in London. Rainfall for the period totaled 0.41 inches statewide which was 0.43 inches below normal. Precipitation totals by climate division, West 0.22 inches, Central 0.43 inches, Bluegrass 0.70 inches and East 0.31 inches, which was 0.57, 0.42, 0.16 and 0.57 inches respectively below normal. By station, precipitation totals ranged from a low of 0.00 inches at Bowling Green, Glasgow, Grayson, Henderson, Jackson, and Lexington to a high of 2.16 inches at Bardstown.

Tom Priddy

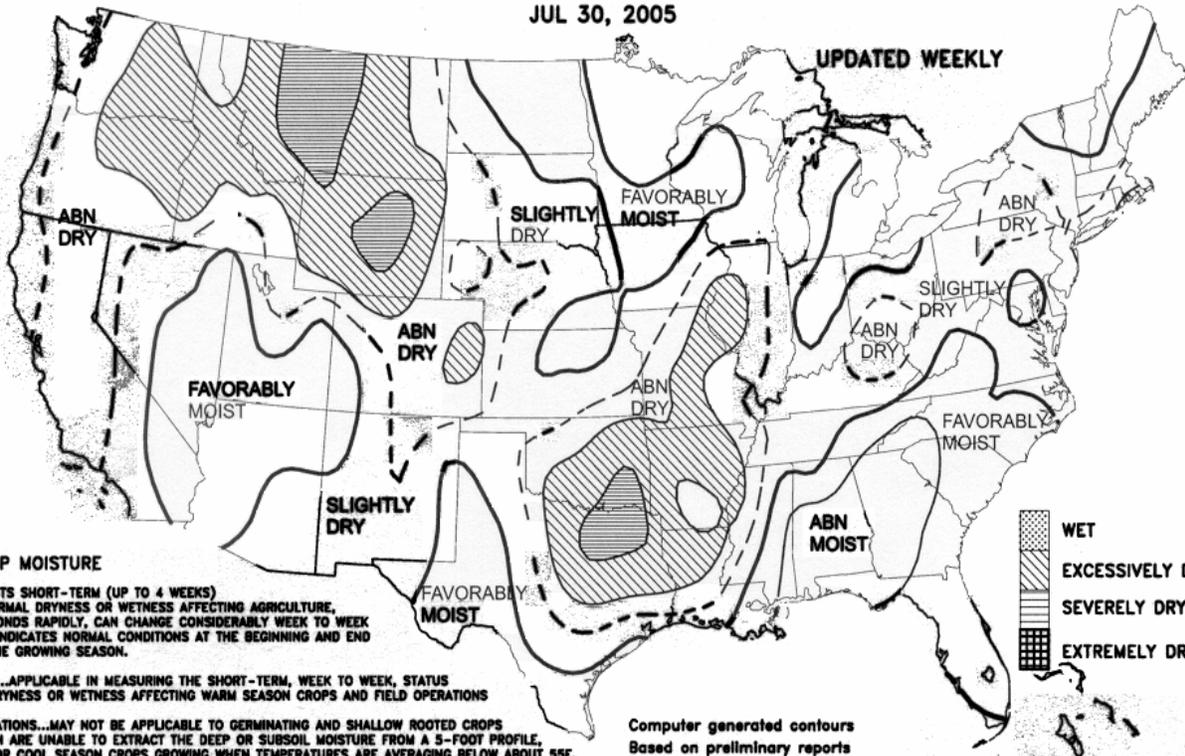
## **KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, AUGUST 7, 7:00 P.M.**

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	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr. 1
	(Inches)			(Degrees Fahrenheit)								
Bardstown	2.16	17.04	5.23	-0.86	+0.96	97	65	80.3	+5	181	2420	+90
Berea	1.18	16.88	6.78	-1.46	+2.88	94	64	78.1	+3	179	2521	+122
Bowling Green	0.00	14.43	3.77	-4.53	-0.23	95	66	80.5	+5	187	2526	+97
Bristol	0.17	17.81	3.25	+2.03	-0.39	93	59	75.9	+1	164	2252	+44
Buckhorn Lake	0.00	9.87	1.45	-7.80	-2.65	96	66	80.2	+5	186	2452	+349
Cape Girardeau	0.01	17.09	5.12	-0.33	+1.93	95	65	80.7	+3	188	2580	+21
Campbellsville	0.50	17.92	5.83	-2.57	+1.16	95	65	79.4	+4	181	2513	+144
Covington	1.20	11.30	2.65	-5.57	-0.98	96	66	80.0	+5	188	2318	+139
Cumberland Gap	0.98	11.11	3.75	-8.29	-0.80	96	65	79.9	+5	184	2446	+268
Dix Dam	1.09	15.44	5.36	-3.03	+1.12	96	66	79.6	+5	183	2443	+106
Evansville	0.61	12.59	3.19	-4.41	-0.25	95	67	80.8	+3	192	2461	+31
Glasgow	0.00	18.98	6.18	-1.45	+1.67	96	66	80.7	+5	183	2628	+289
Grayson	0.00	13.14	3.03	-4.30	-1.11	99	66	80.8	+6	186	2458	+409
Hardinsburg	0.16	12.85	3.15	-5.74	-0.93	95	68	81.4	+6	193	2478	+49
Henderson	0.00	13.52	4.00	-3.89	+0.51	95	67	81.1	+4	190	2510	+50
Huntington	0.01	13.03	3.32	-4.35	-0.91	100	65	81.0	+6	185	2469	+260
Jackson	0.00	16.83	2.39	-1.73	-2.07	95	67	79.9	+5	189	2471	+368
Lexington	0.00	11.44	2.88	-6.46	-1.39	97	66	80.6	+6	188	2381	+172
London	0.89	15.25	4.03	-2.06	+0.06	94	63	77.5	+3	174	2348	+170
Louisville	0.20	13.39	3.45	-4.23	-0.40	97	68	81.6	+6	193	2420	-17
Mayfield	0.25	10.63	2.61	-8.15	-1.30	96	66	80.1	+3	185	2467	-23
Nashville	0.04	12.63	1.70	-4.94	-1.77	96	68	82.5	+7	197	2682	+86
Nolin Lake	0.05	14.71	3.40	-5.12	-0.87	95	67	80.8	+5	188	2515	+276
Paducah	0.19	13.22	3.60	-5.72	+0.01	93	64	79.9	+3	185	2572	+44
Princeton	0.24	11.87	2.31	-6.94	-1.50	97	66	80.7	+3	186	2592	+95
Quicksand	0.00	13.65	2.11	-4.91	-2.35	96	66	80.3	+5	186	2457	+354
Somerset	0.56	17.28	5.23	-2.16	+1.03	95	64	77.7	+3	176	2409	+140
Spindletop	0.00	9.71	3.21	-8.19	-1.06	97	65	80.1	+5	186	2321	+112
Williamstown	0.72	11.60	2.95	-6.10	-0.96	96	66	80.4	+6	189	2348	+139

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.wagwx.ca.uky.edu/>

**Crop Moisture**  
**SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE**  
**JUL 30, 2005**

**UPDATED WEEKLY**



**CROP MOISTURE**

DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES...APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F. IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

Computer generated contours  
 Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

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