

**AGRICULTURAL NEWS:** Dry weather continued to diminish crop conditions across the State. Scattered showers were received in some areas, but were not nearly enough to relieve drought stress. Crops are generally a week to two weeks ahead of their normal stages of development with harvest of corn and tobacco becoming widespread much earlier than normal. **Topsoil moisture** as of Friday, August 20 was rated 77 percent very short, 20 percent short and 3 percent adequate. **Subsoil moisture** was rated 72 percent very short, 25 percent short and 3 percent adequate. Days suitable for fieldwork averaged 5.9 out of a possible six days.

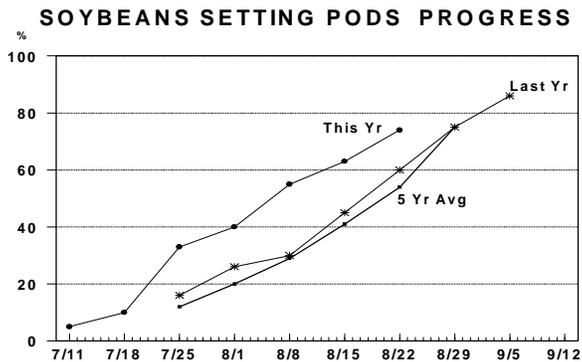
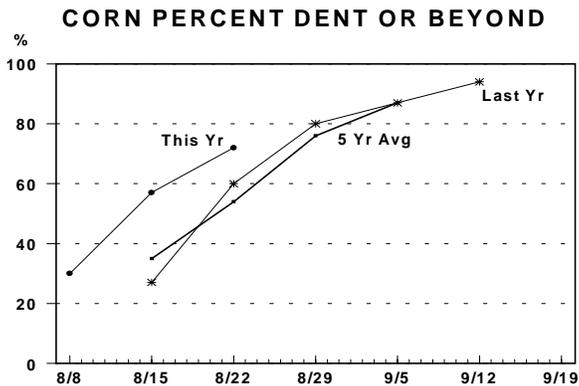
**CORN:** Dry conditions continued the rapid dry down of the corn crop. As of Friday, August 20 the crop was rated 5 percent very poor, 20 percent poor, 38 percent fair, 34 percent good and 3 percent excellent. As of Sunday, August 22 about 95 percent of the crop had reached the dough stage or beyond, compared to 85 percent last year and the 5 year average of 84 percent. Later planted corn has been more severely stressed by the hot, dry weather than earlier planted fields which have matured. Harvest has begun in the western part of the State with fair to good yields expected. Some producers are chopping their corn for silage instead of shelling it for grain because of expected low prices and shortage of forage for cattle.

**SOYBEANS:** The soybean crop was rated 16 percent very poor, 32 percent poor, 39 percent fair and 13 percent good. Soybeans were 91 percent blooming, ahead of last year's 85 percent and 81 percent on average. Soybeans are under

severe stress and most fields have little to no growth. Most soybeans are at the critical pod fill stage and need significant rainfall in the next couple of weeks for pod fill. Without rain soon many second crop soybeans will produce little to no beans. As of August 22, 74 percent of the State's acreage was reported as setting pods, compared to 60 percent a year ago and 54 percent on average.

**TOBACCO:** The tobacco harvest is fully underway. Approximately 43 percent of the burley crop had been cut, compared to 27 percent last year and 21 percent on average. Dark tobacco cutting was 50 percent, compared to 34 percent last year and 32 percent for the five-year average. Black shank continued to be reported statewide. Spraying for hornworms and aphids continued last week. Condition of the crop declined from the previous week and as of August 20 was rated 16 percent very poor, 29 percent poor, 36 percent fair, 17 percent good and 2 percent excellent. Many reports of harvested tobacco drying too fast in the barn were received.

**OTHER CROPS:** **Pasture** conditions further deteriorate due to lack of rain. Pastures as of August 20 were rated 42 percent very poor, 34 percent poor, 18 percent fair and only 6 percent good. Hay supplies continue to be utilized to supplement the inadequate pastures. The **hay** crop was rated 39 percent very poor, 35 percent poor, 20 percent fair and 6 percent good. Many producers feel that the fall hay harvest will be minimal. Livestock are in mostly good condition, but producers are spending a lot of time hauling feed and water. Sales of cattle have been brisk as producers reduce the size of their herds.



**KENTUCKY CROP PROGRESS**  
WEEK ENDING AUGUST 22, 1999  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	91	85	81	86	96
Setting Pods	74	60	54	63	80
Corn					
Dough Stage	95	85	84	85	65
Dent Stage	72	60	54	57	22
Burley Tobacco					
Cut	43	27	21	22	NA
Dark Tobacco					
Cut	50	34	32	23	NA

**SOIL MOISTURE**  
WEEK ENDING AUGUST 20, 1999  
WITH COMPARISONS

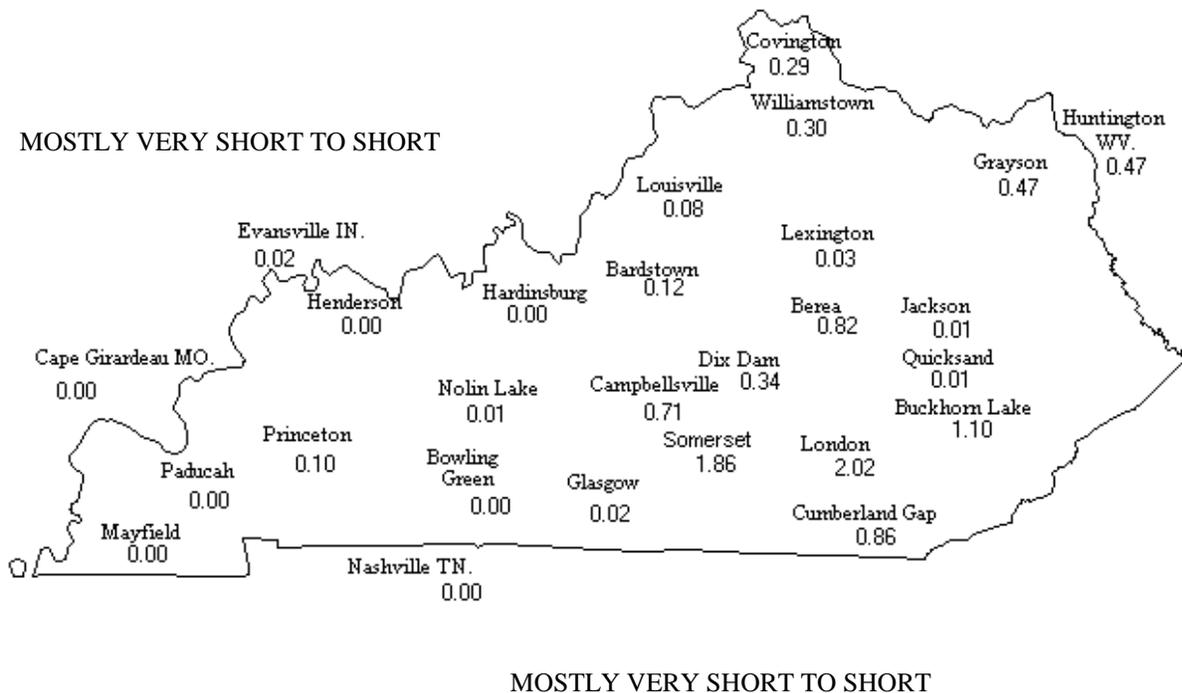
	This Week	Previous Week
Percentage		
<b>TOPSOIL</b>		
Very Short	77	61
Short	20	35
Adequate	3	4
Surplus	0	0
<b>SUBSOIL</b>		
Very Short	72	59
Short	25	37
Adequate	3	4
Surplus	0	0

(NA) Data Not Available

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING AUGUST 20, 1999					WEEK ENDING AUGUST 13, 1999				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	5	20	38	34	3	7	17	38	34	4
Soybeans	16	32	39	13	0	10	28	41	19	2
Pasture	42	34	18	6	0	38	33	22	6	1
Hay Crops	39	35	20	6	0	30	34	26	9	1
Tobacco in Field	16	29	36	17	2	14	26	36	20	4

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 22, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, AUGUST 20, 1999**



**KENTUCKY WEATHER SUMMARY, AUGUST 16 - 22, 1999:**

Mostly Dry with Very Warm Temperatures becoming seasonal by mid- week:

Dry conditions continued in most of Kentucky this past week except in scattered Eastern sections of the State where rainfall provided some moisture relief on Thursday/Friday (Aug 19/20). Very warm temperatures started off the workweek but became more seasonal by mid-week and into the weekend. Tuesday's high temperatures were NEAR RECORD highs in many locations across the State.

Statewide temperatures for this past week averaged 76 degrees across the State which was 2 degrees ABOVE NORMAL and similar to the previous two week's average temperatures. High temperatures averaged from 91 in the West to 89 in the East. Departure from normal high temperatures ranged from 4 degrees ABOVE NORMAL in the West to 5 degrees ABOVE NORMAL in the East. Low temperatures averaged from 60 degrees in the West to 62 degrees in the East. Departure from normal low temperature ranged from 4 degrees BELOW NORMAL in the West to NEAR NORMAL in the East. Statewide rainfall for the week totaled 0.30 inches statewide which was 0.54 inches BELOW NORMAL and the seventh straight week for BELOW NORMAL rainfall. Rainfall totals by climate division, West 0.02 inches, Central 0.04 inches, Bluegrass 0.30 inches and East 0.85 inches, which was 0.77, 0.81, 0.55 and 0.02 inches respectively BELOW NORMAL. By station, rainfall totals ranged from a low of 0.00 inches at Bowling Green (and for other West and Central locations) to a high of 2.02 inches at London.

Tom Priddy

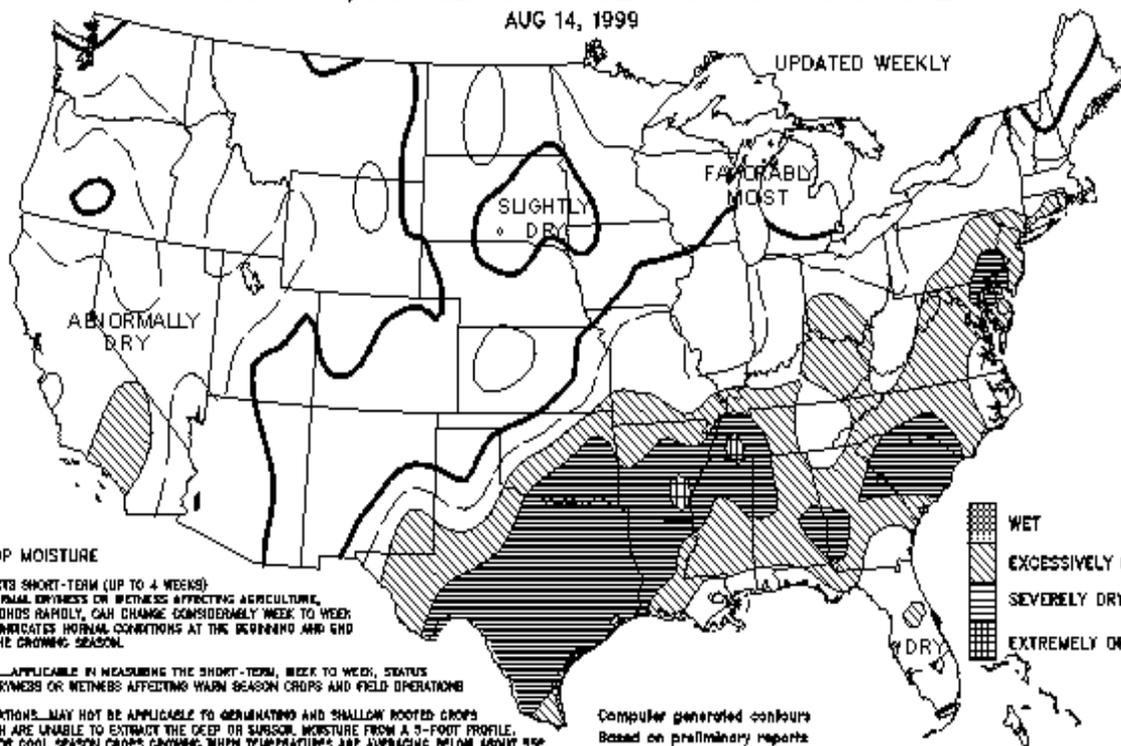
**KENTUCKY TEMPERATURES AND RAINFALL**  
FOR WEEK ENDING SUNDAY, AUGUST 22, 7:00 P.M.

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	0.12	13.38	1.11	-6.42	-2.65	97	54	75.5	+2	159	2864	+189
Berea	0.82	13.91	1.82	-6.36	-1.87	96	55	74.8	+2	154	2840	+81
Bowling Green	0.00	11.28	1.11	-9.38	-2.30	100	55	80.1	+6	180	3090	+301
Bristol	0.63	16.08	2.07	-1.23	-1.02	95	53	75.5	+3	162	2726	+173
Buckhorn Lake	1.10	12.92	2.23	-6.52	-1.30	95	54	75.1	+2	162	2778	+360
Cape Girardeau	0.00	13.27	0.95	-5.84	-2.21	97	52	74.4	-1	151	2938	+4
Campbellsville	0.71	14.36	1.47	-8.34	-2.81	97	54	77.2	+3	167	2951	+222
Covington	0.29	12.48	3.35	-6.01	+0.15	93	54	71.8	-1	146	2684	+160
Cumberland Gap	0.86	13.64	1.28	-7.85	-2.81	96	55	76.1	+3	165	2851	+328
Dix Dam	0.34	12.59	1.06	-7.77	-2.67	97	56	75.2	+2	160	2807	+110
Evansville	0.02	17.09	0.90	-1.42	-2.09	94	54	73.9	-2	155	2856	+66
Glasgow	0.02	12.25	1.04	-10.13	-2.85	100	54	79.2	+5	171	3108	+409
Grayson	0.47	13.71	0.83	-5.54	-2.77	96	51	75.6	+3	162	2840	+461
Hardinsburg	0.00	16.35	0.56	-4.07	-3.05	99	56	78.6	+5	170	2886	+97
Henderson	0.00	17.17	1.36	-1.77	-1.68	95	54	74.3	-1	155	2972	+152
Huntington	0.47	9.48	2.50	-9.81	-1.25	98	55	74.4	+1	159	2829	+275
Jackson	0.01	13.70	2.60	-6.80	-1.26	94	59	74.6	+2	163	2828	+410
Lexington	0.03	11.38	0.31	-8.42	-3.45	97	57	76.1	+3	166	2828	+274
London	2.02	14.33	3.26	-4.58	-0.01	96	56	75.2	+2	158	2824	+301
Louisville	0.08	17.50	1.21	-1.83	-2.18	98	57	75.7	+2	163	2936	+124
Mayfield	0.00	17.24	0.28	-3.40	-3.31	97	57	78.1	+3	170	2995	+145
Nashville	0.00	15.88	2.08	-3.37	-1.14	99	60	79.4	+6	182	3223	+237
Nolin Lake	0.01	14.94	0.98	-6.70	-2.66	99	55	78.4	+5	170	3005	+421
Paducah	0.00	19.67	0.54	-0.89	-2.64	97	54	76.1	+1	160	3031	+128
Princeton	0.10	19.32	1.00	-1.43	-2.68	101	58	78.4	+3	167	3144	+272
Quicksand	0.01	14.77	2.00	-5.73	-1.86	95	53	74.8	+2	161	2764	+346
Somerset	1.86	20.19	2.38	-1.14	-1.35	96	54	76.3	+3	164	2826	+212
Spindletop	0.05	8.87	0.99	-10.93	-2.77	96	56	75.1	+2	163	2798	+244
Williamstown	0.30	9.92	1.94	-9.59	-1.58	95	56	74.9	+2	160	2864	+310

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (606)257-3000 ext 245. E-mail: tpriddy@ca.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  
 AUG 14, 1999

UPDATED WEEKLY



**CROP MOISTURE**

DEFINES SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES HOURLY 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 SURFACE 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 DENOTED BY THE DROUGHT SEVERITY INDEX.

Computer generated contours  
 Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY