



# KENTUCKY WEEKLY CROP & WEATHER REPORT



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Prepared 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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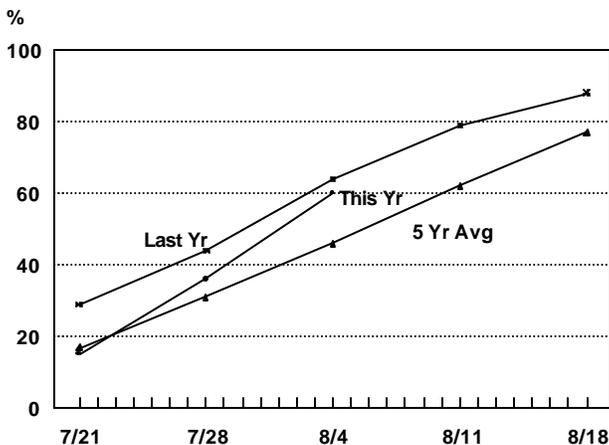
Issued 4:00 P.M., August 5, 2002

KBM 20-02

**AGRICULTURAL NEWS:** IT'S HOT AND IT'S DRY, to sum up what was on our reporters minds last week. Everyone is looking at August and September and anxiously hoping for rain, soon. As one farmer put it, "We need a root soaker." The extent to which crops are hurt at this point depends on whether one of the scattered showers was received or when the crop was planted. Later planted crops are feeling the stress more than those planted early or at least by the normal planting date. Main farm activities for the week included clipping pastures, making hay, and many farmers were topping earlier tobacco and spraying for suckers and insects. Days suitable for fieldwork averaged 6.0 out of a possible seven days. **Topsoil moisture** as of Friday, August 2 was rated 35 percent very short, 34 percent short, 29 percent adequate, and 2 percent surplus. **Subsoil moisture** was rated 25 percent very short, 43 percent short, 30 percent adequate, and 2 percent surplus.

**CORN:** Condition as of Friday, August 2 was reported as 7 percent very poor, 21 percent poor, 28 percent fair, 33 percent good, and 11 percent excellent. Fields planted by mid-June are fairing better than fields where planting was delayed. Corn in the milk stage reached 85 percent compared to 88 percent a year ago, and 69 percent for the five year average. Sixty percent of the corn crop had reached the dough stage compared to 64 percent last year and the average of 46 percent. Approximately 30 percent of the corn was dented, compared with 26 percent a year ago and 11 percent on average.

CORN PERCENT DOUGH OR BEYOND

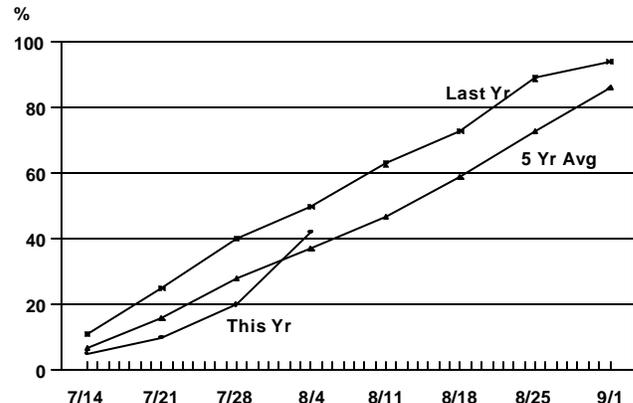


**SOYBEANS:** Crop condition as of August 2 was reported as 5 percent very poor, 16 percent poor, 30 percent fair, 40 percent good, and 9 percent excellent. Seventy-four percent of the soybean crop was blooming as of Sunday, August 4, compared to 77 percent a year ago and 61 percent on average. Pod fill would still benefit from a good rain as 42 percent of the crop was setting pods, compared with 50 percent last year, and the five year average of 37 percent.

**TOBACCO:** Condition of the set tobacco was reported as 5 percent very poor, 16 percent poor, 26 percent fair, 38 percent good, and 15 percent excellent. Even farmers that have not been lucky enough to get sufficient rain believe that a lot of fields will still yield well if a good rain is received soon. As of Sunday, August 4, 66 percent of the **burley** crop was blooming compared to 78 percent last year and 66 percent on average. Burley topped reached 43 percent compared to 55 percent last year and the five year average of 44 percent. Black shank was reported in all districts of the State. However, the extent is mixed as some areas have been harder hit than others. There were a couple of reports of burley being cut. Eighty percent of the **dark tobacco** crop was topped compared to 88 percent last year and the five year average of 72 percent.

**OTHER CROPS:** Cutting and baling **hay** and clipping pastures were reported widely in the State. In some areas, lack of moisture is slowing pasture growth. Condition of the hay crop was reported as 12 percent very poor, 16 percent poor, 30 percent fair, 34 percent good, and 8 percent excellent.

SOYBEANS SETTING PODS PROGRESS



**KENTUCKY CROP PROGRESS**  
WEEK ENDING AUGUST 4, 2002  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	74	77	61	43	76
Setting Pods	42	50	37	20	34
Corn					
Milk Stage	85	88	69	58	NA
Dough Stage	60	64	46	36	15
Dent Stage	30	26	11	NA	NA
Burley Tobacco					
Blooming	66	78	66	55	NA
Topped	43	55	44	22	NA
Dark Tobacco					
Topped	80	88	72	54	NA

**SOIL MOISTURE**  
WEEK ENDING AUGUST 2, 2002  
WITH COMPARISONS

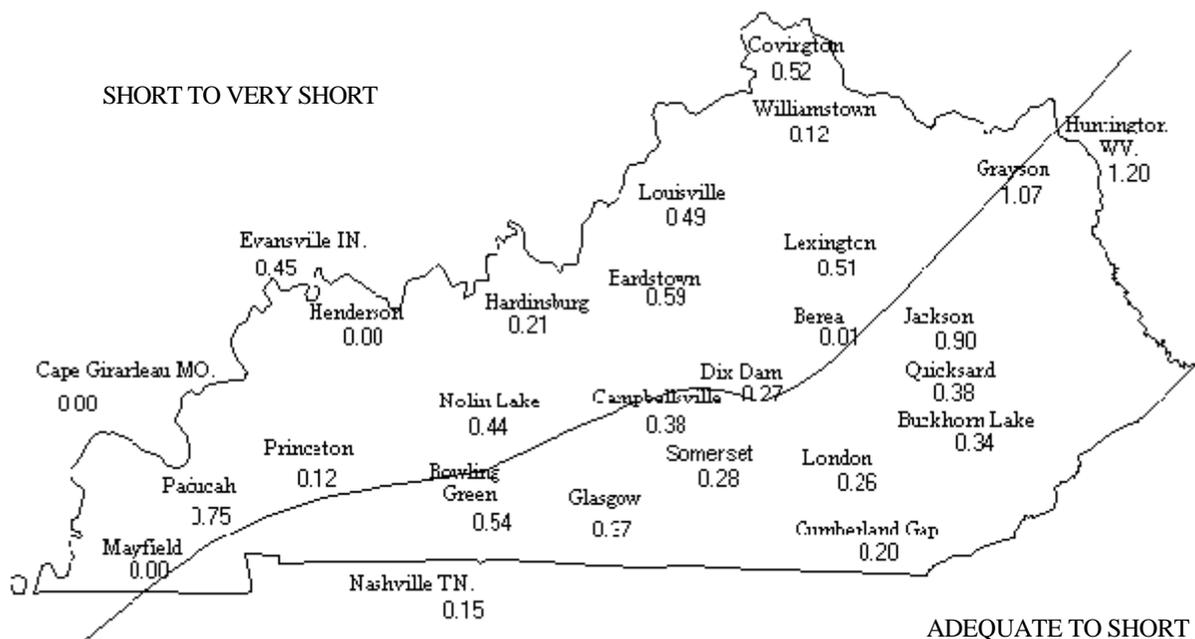
	This Week	Previous Week
<b>TOPSOIL</b>		
Very Short	35	17
Short	34	36
Adequate	29	43
Surplus	2	4
<b>SUBSOIL</b>		
Very Short	25	11
Short	43	37
Adequate	30	49
Surplus	2	3

(NA) Data Not Available.

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING AUGUST 2, 2002					WEEK ENDING JULY 26, 2002				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	7	21	28	33	11	2	13	31	41	13
Soybeans	5	16	30	40	9	1	6	30	48	15
Pasture	15	22	24	33	6	8	15	33	36	8
Hay Crops	12	16	30	34	8	4	11	38	38	9
Tobacco	5	16	26	38	15	3	10	28	43	16

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 4, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, AUGUST 2, 2002**



# KENTUCKY WEATHER SUMMARY, JULY 29 - AUGUST 4, 2002:

## ABOVE NORMAL TEMPERATURES AND BELOW NORMAL RAINFALL:

Hot, humid conditions and limited rainfall continued to haunt the Bluegrass state as high pressure dominated the entire Eastern U.S. Most locations reported 7 days with high temperatures exceeding 90 degrees and some Western locations equaled or exceeded 100 degrees.

Temperatures for the period averaged 82 degrees across the State which was 6 degrees above normal. High temperatures averaged from 95 in the West to 90 in the East. Departure above normal high temperatures ranged from 5 degrees above normal in the West to 5 degrees above normal in the East. Low temperatures averaged from 71 degrees in the West to 69 degrees in the East. Departure from normal low temperature ranged from 5 degrees above normal in the West to 5 degrees above normal in the East. Extreme high temperatures were near 100 degrees (Princeton 101) and extreme low temperatures were in the low 60's.

Rainfall for the period totaled 0.38 inches statewide which was 0.55 inches below normal. Rainfall totals by climate division, West 0.22 inches, Central 0.44 inches, Bluegrass 0.28 inches and East 0.58 inches, which was 0.63, 0.52, 0.67 and 0.40 inches respectively below normal. By station, rainfall totals ranged from a low of 0.00 inches at Mayfield to a high of 0.90 inches at Jackson. As of July 29, Central and Bluegrass areas were experiencing MILD hydrologic drought and the Crop Moisture Index indicated topsoil moisture short statewide with West and Bluegrass areas experiencing "abnormally dry, prospects deteriorating" conditions.

Tom Priddy

## KENTUCKY TEMPERATURES AND RAINFALL

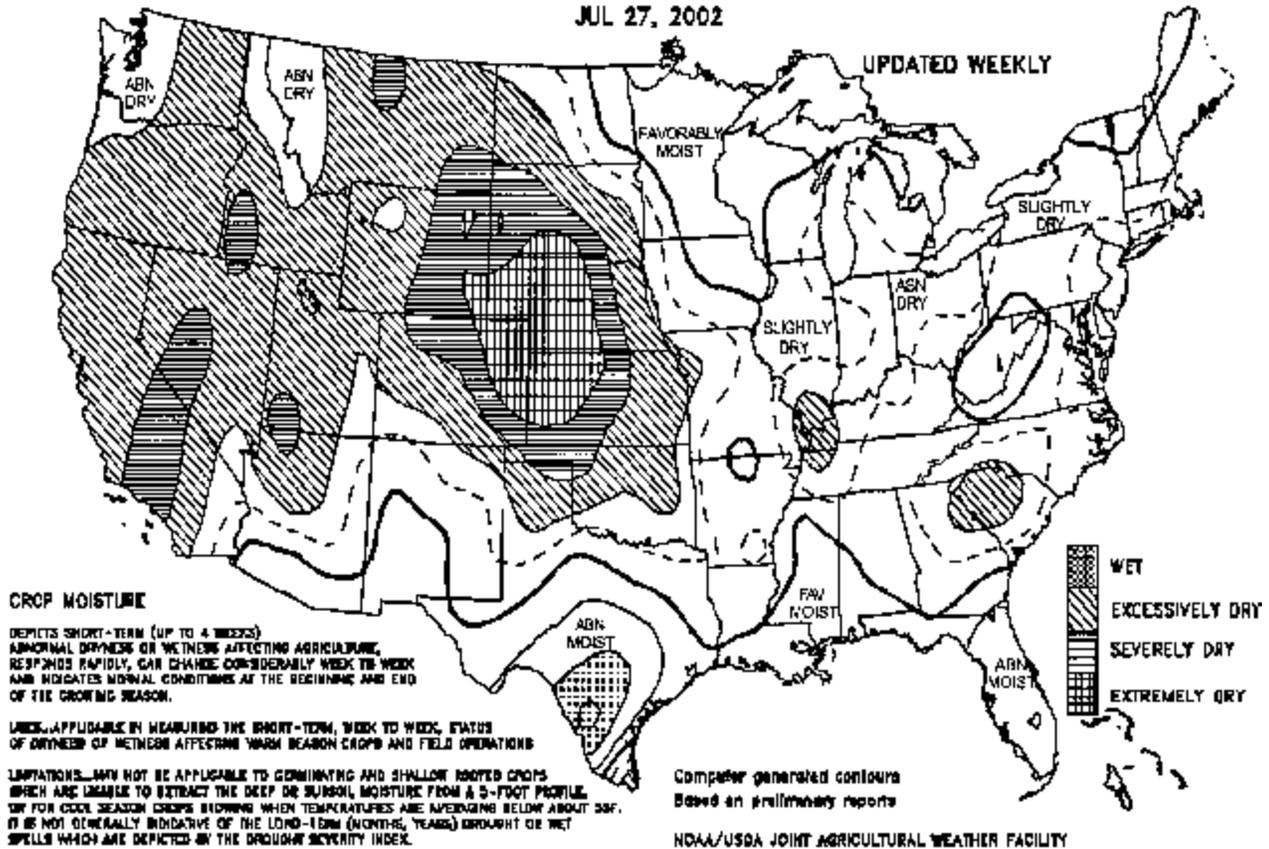
FOR WEEK ENDING SUNDAY, AUGUST 4, 7:00 P.M.

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	0.59	22.24	4.67	+4.72	+0.29	99	66	82.2	+6	195	2491	+230
Berea	0.01	25.78	5.56	+7.83	+1.62	95	61	80.3	+5	194	2533	+206
Bowling Green	0.54	17.63	2.97	-0.99	-1.15	98	70	82.9	+7	201	2547	+190
Bristol	0.20	10.09	2.44	-5.38	-1.31	94	63	78.9	+4	181	2373	+234
Buckhorn Lake	0.34	17.17	4.37	-0.15	+0.15	92	66	79.2	+4	190	2382	+342
Cape Girardeau	0.00	22.00	0.77	+4.92	-2.42	98	69	82.3	+5	197	2619	+135
Campbellsville	0.38	21.18	5.28	+1.13	+0.53	96	67	81.1	+5	194	2571	+274
Covington	0.52	18.90	1.38	+2.36	-2.33	97	66	82.4	+7	195	2250	+140
Cumberland Gap	0.20	11.95	2.45	-7.03	-2.19	94	66	79.6	+5	189	2449	+340
Dix Dam	0.27	20.72	3.89	+2.63	-0.45	98	66	81.9	+7	197	2474	+209
Evansville	0.45	19.91	1.58	+3.21	-1.95	97	69	82.4	+5	198	2541	+183
Glasgow	0.37	20.06	5.24	+0.02	+0.61	97	70	82.4	+7	199	2679	+412
Grayson	1.07	17.18	4.44	+0.11	+0.19	96	67	81.3	+6	195	2379	+396
Hardinsburg	0.21	17.88	1.72	-0.35	-2.46	98	70	83.1	+7	200	2506	+149
Henderson	0.00	23.34	2.13	+6.24	-1.45	98	68	82.9	+5	198	2582	+194
Huntington	1.20	17.07	4.20	+0.07	-0.13	96	67	81.2	+6	194	2365	+225
Jackson	0.90	19.70	5.31	+1.53	+0.73	91	68	79.1	+4	193	2394	+354
Lexington	0.51	14.18	2.31	-3.34	-2.07	99	68	83.2	+8	197	2394	+254
London	0.26	15.17	3.76	-1.82	-0.35	94	64	78.9	+4	188	2359	+250
Louisville	0.49	17.91	1.30	+0.63	-2.65	99	69	83.3	+8	199	2479	+117
Mayfield	0.00	12.51	0.00	-5.90	-3.97	96	69	81.6	+4	194	2484	+66
Nashville	0.15	14.30	1.66	-2.94	-1.86	96	70	82.8	+7	205	2689	+171
Nolin Lake	0.44	17.30	2.43	-2.16	-1.96	98	70	82.9	+7	200	2500	+330
Paducah	0.75	19.06	1.85	+0.44	-1.82	99	68	83.4	+6	201	2661	+208
Princeton	0.12	18.77	1.39	+0.35	-2.45	101	69	85.0	+7	201	2719	+297
Quicksand	0.38	18.71	4.94	+0.54	+0.36	91	66	79.5	+4	191	2389	+349
Somerset	0.28	19.56	6.53	+0.50	+2.24	95	66	79.6	+5	191	2409	+209
Spindletop	0.24	12.15	1.15	-5.37	-3.23	98	66	82.4	+7	194	2332	+192
Williamstown	0.12	16.03	1.10	-1.31	-2.89	99	66	82.9	+8	198	2433	+293

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/>

**Crop Moisture**  
**SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE**  
**JUL 27, 2002**

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.

INDEX 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 REMAINING BELOW ABOUT 50F. 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

NDA/USDA JOINT AGRICULTURAL WEATHER FACILITY

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