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# KENTUCKY WEEKLY CROP & WEATHER REPORT



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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Released weekly April through November

Issued 4:00 P.M., August 6, 2001

KGC 20-01

**AGRICULTURAL NEWS:** The weather continued to be hot and humid this week. Many parts of the State experienced scattered showers, while low-lying areas of Eastern Kentucky suffered some damage due to flash flooding. Farmers continued to top and spray tobacco, as well as cut hay. Some farmers are beginning to cut tobacco as well. An average of 4.5 days were suitable for fieldwork out of a possible six. On Friday, August 3 **topsoil moisture** was rated 1 percent very short, 14 percent short, 69 percent adequate, and 16 percent surplus. **Subsoil moisture** was rated 4 percent very short, 22 percent short, 55 percent adequate, and 19 percent surplus.

**CORN:** The recent rains have helped to improve the corn crop, in spite of the early dry weather and recent flooding. The condition of the crop was rated as 2 percent poor, 17 percent fair, 53 percent good, and 28 percent excellent. As of Sunday, August 5, 98 percent of the corn crop was silking compared to 95 percent a year ago, and 89 percent for the five-year average. Corn in the milk stage reached 91 percent compared to 75 percent a year ago, and 64 percent for the five-year average. Sixty-seven percent of the corn crop had reached the dough stage compared to 55 percent last year and 41 percent for the five-year average. Thirty percent of the corn crop was dented.

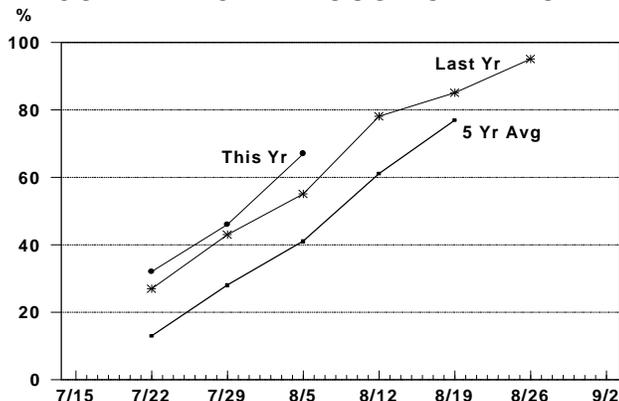
**SOYBEANS:** The soybean crop also improved with recent moisture. However, there have been some reports of Sudden Death Syndrome. Seventy-eight percent of the soybean crop was blooming as of Sunday, August 5,

compared to 73 percent a year ago and 56 percent for the five-year average. Crop condition was rated as 1 percent very poor, 3 percent poor, 16 percent fair, 47 percent good, and 33 percent excellent. Fifty-one percent of the crop was setting pods as of August 5, compared with 48 percent last year, and the five-year average of 34 percent.

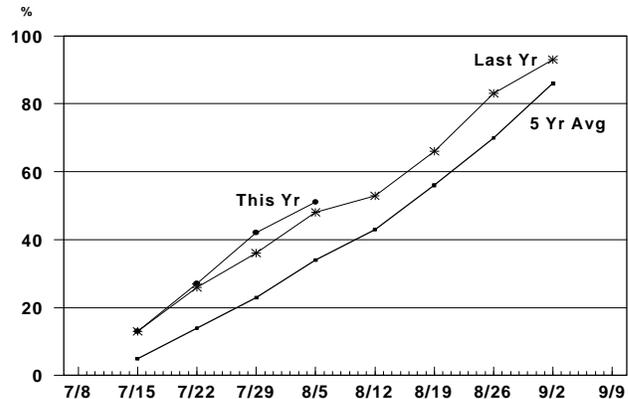
**TOBACCO:** Some tobacco farmers started to cut their tobacco this week, while others continued to spray and top their crop. Blue mold and black shank continued to cause problems in some areas. Scalding and worms were reported. Condition of the set tobacco was reported as 1 percent very poor, 4 percent poor, 19 percent fair, 59 percent good, and 17 percent excellent. As of Sunday, August 5, 81 percent of the **burley** crop was blooming, equal to last year, and 60 percent for the five-year average. Fifty-eight percent of the burley crop was topped compared to 60 percent last year and the five-year average of 40 percent. Eighty-nine percent of the **dark tobacco** crop was topped compared to 74 percent last year and the five-year average of 68 percent.

**OTHER CROPS:** **Hay** continued to be cut and baled between showers this week. The rain hindered hay making in many areas. Condition of the hay crop was reported as 11 percent very poor, 5 percent poor, 25 percent fair, 50 percent good, and 9 percent excellent. The rains improved **pasture** conditions, though some low lying fields were flooded. Conditions were rated as 5 percent very poor, 8 percent poor, 21 percent fair, 55 percent good, and 11 percent excellent.

**CORN PERCENT DOUGH OR BEYOND**



**SOYBEANS SETTING PODS PROGRESS**



**KENTUCKY CROP PROGRESS**  
WEEK ENDING AUGUST 5, 2001  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	78	73	56	72	79
Setting Pods	51	48	34	42	38
Corn					
Silking	98	95	89	92	79
Milk Stage	91	75	64	69	NA
Dough Stage	67	55	41	46	21
Dent	30	17	8	NA	NA
Burley Tobacco					
Blooming	81	81	60	63	NA
Topped	58	60	40	35	NA
Dark Tobacco					
Topped	89	74	68	79	NA

**SOIL MOISTURE**  
WEEK ENDING AUGUST 3, 2001  
WITH COMPARISONS

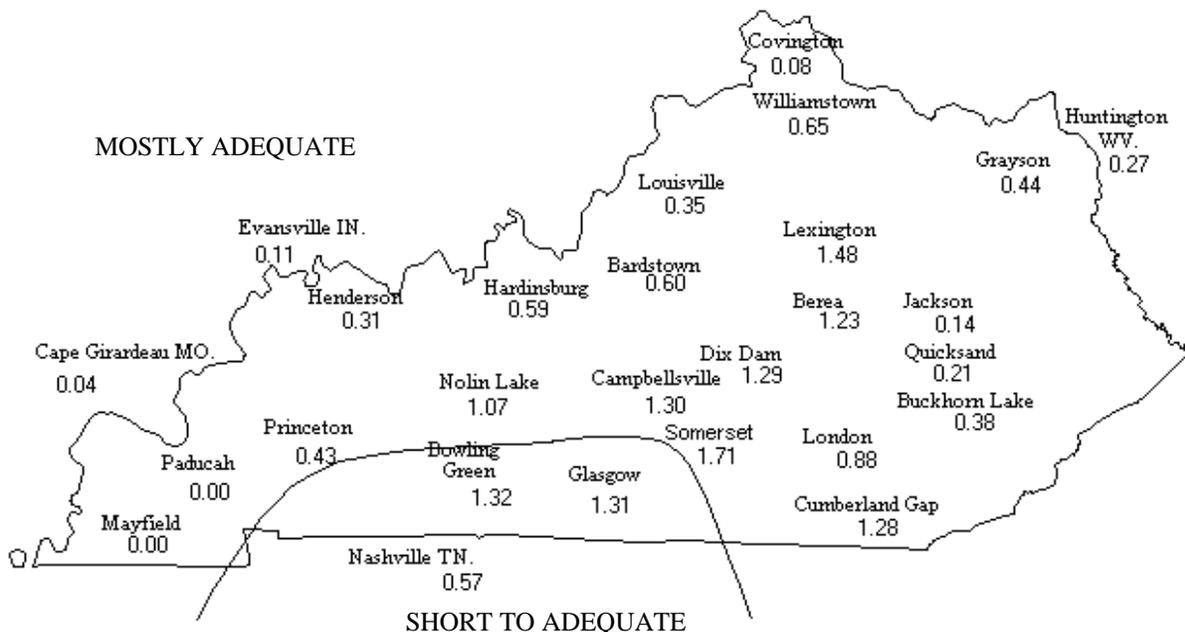
	This Week	Previous Week
<b>TOPSOIL</b>		
Very Short	1	4
Short	14	18
Adequate	69	58
Surplus	16	20
<b>SUBSOIL</b>		
Very Short	4	8
Short	22	28
Adequate	55	53
Surplus	19	11

(NA) Data Not Available.

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING AUGUST 3, 2001					WEEK ENDING JULY 27, 2001				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	0	2	17	53	28	0	3	14	54	29
Soybeans	1	3	16	47	33	0	4	19	54	23
Pasture	5	8	21	55	11	7	11	32	41	9
Hay Crops	11	5	25	50	9	8	10	27	45	10
Tobacco	1	4	19	59	17	2	7	20	56	15

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 5, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, AUGUST 3, 2001**



# **KENTUCKY WEATHER SUMMARY, JULY 30 - AUGUST 5, 2001:**

## **ABOVE NORMAL TEMPERATURES AND BELOW NORMAL RAINFALL:**

Hot and humid conditions were the story for most of the week with high temperatures hovering around 90 degrees. Kentucky received some rain showers and thunderstorms Friday and Saturday but not as much as the previous week. Some areas did receive locally heavy rains that caused flooding conditions in some areas. The heat and humidity also caused heat indices in Western Kentucky to break the 100 degree mark. The livestock heat stress in this area also reached the emergency category for several hours in these areas.

Temperatures for the period averaged 79 degrees across the State which was 3 degrees ABOVE normal. High temperatures averaged from 91 in the West to 86 in the East. Departure from normal high temperatures ranged from 2 degrees ABOVE normal in the West to NEAR normal in the East. Low temperatures averaged from 71 degrees in the West to 68 degrees in the East. Departure from normal low temperature ranged from 5 degrees ABOVE normal in the West to 4 degrees ABOVE normal in the East.

Rainfall for the period totaled 0.66 inches statewide which was 0.24 inches BELOW normal. Precipitation totals by climate division, West 0.15 inches, Central 0.87 inches, Bluegrass 0.97 inches and East 0.66 inches, which was -0.68, -0.05, +0.06 and -0.28 inches respectively from normal. By station, precipitation totals ranged from a low of 0.00 inches at Mayfield to a high of 1.71 inches at Somerset.

Tom Priddy

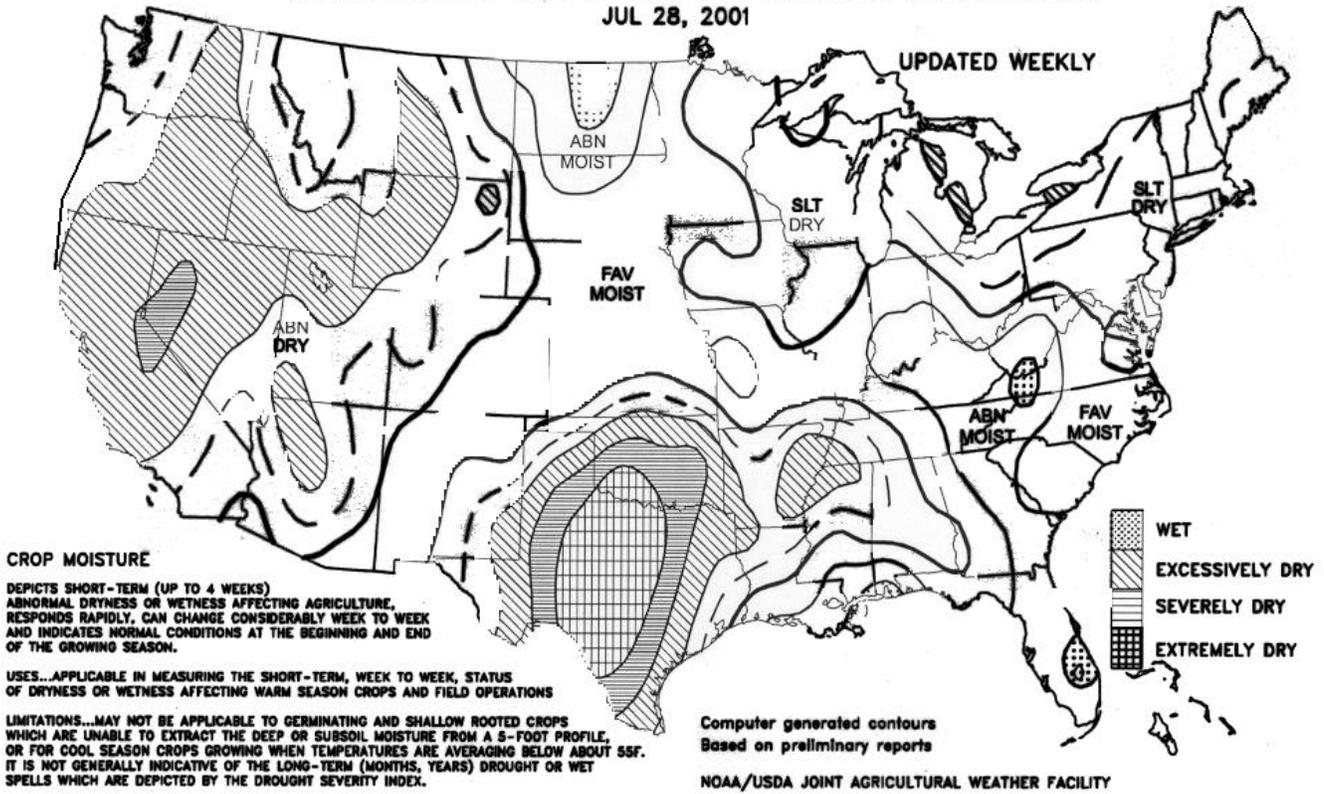
### **KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, AUGUST 5, 7:00 P.M.**

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	0.60	17.86	5.92	+0.22	+1.58	93	66	79.3	+4	190	2455	+171
Berea	1.23	17.77	6.68	-0.31	+2.76	89	64	76.6	+2	181	2360	+9
Bowling Green	1.32	16.00	4.69	-2.74	+0.61	92	70	74.6	-1	173	2618	+237
Bristol	1.18	20.23	7.14	+4.66	+3.42	89	62	76.0	+1	178	2280	+118
Buckhorn Lake	0.38	21.13	5.07	+3.69	+0.89	88	65	77.7	+3	188	2370	+309
Cape Girardeau	0.04	19.47	9.92	+2.28	+6.73	94	64	81.4	+4	199	2665	+156
Campbellsville	1.30	17.36	5.04	-2.84	+0.32	92	66	79.3	+4	190	2490	+169
Covington	0.08	20.02	7.36	+3.37	+3.67	91	66	78.6	+4	189	2289	+156
Cumberland Gap	1.28	15.68	4.31	-3.44	-0.30	90	66	78.0	+3	186	2427	+295
Dix Dam	1.29	17.73	6.56	-0.49	+2.25	90	66	78.1	+3	186	2408	+119
Evansville	0.11	15.80	5.54	-1.00	+2.04	93	66	80.7	+3	198	2620	+238
Glasgow	1.31	16.82	4.65	-3.35	+0.06	94	66	80.9	+5	194	2590	+299
Grayson	0.44	19.81	4.92	+2.62	+0.71	88	67	76.9	+2	182	2344	+339
Hardinsburg	0.59	14.35	3.97	-4.00	-0.18	92	67	78.6	+3	185	2576	+195
Henderson	0.31	15.68	7.38	-1.52	+3.83	93	64	80.4	+3	193	2591	+179
Huntington	0.27	19.05	4.65	+1.92	+0.36	88	66	76.6	+2	182	2329	+166
Jackson	0.14	16.84	4.52	-1.46	-0.02	87	66	76.1	+1	180	2332	+271
Lexington	1.48	16.98	6.51	-0.66	+2.17	90	67	78.2	+3	188	2430	+267
London	0.88	20.24	5.64	+3.15	+1.57	89	64	76.8	+2	181	2309	+177
Louisville	0.35	13.53	2.84	-3.86	-1.08	92	67	79.9	+4	195	2541	+154
Mayfield	0.00	13.04	6.34	-5.50	+2.39	90	67	78.4	+1	190	2481	+39
Nashville	0.57	15.98	2.50	-1.37	-1.00	94	72	81.9	+6	204	2728	+184
Nolin Lake	1.07	18.08	4.18	-1.50	-0.17	92	69	75.9	+0	172	2592	+399
Paducah	0.00	15.68	7.27	-3.05	+3.62	93	67	81.0	+4	198	2690	+212
Princeton	0.43	15.31	5.52	-3.24	+1.69	95	69	82.4	+5	201	2752	+305
Quicksand	0.21	22.50	5.34	+4.20	+0.80	88	65	77.6	+3	188	2363	+302
Somerset	1.71	18.84	6.18	-0.34	+1.92	89	65	77.4	+2	184	2388	+165
Spindletop	1.11	15.24	5.64	-2.40	+1.30	90	66	78.4	+3	188	2328	+165
Williamstown	0.65	21.24	7.08	+3.78	+3.12	92	66	79.0	+4	191	2399	+236

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 28, 2001**

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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