



KENTUCKY WEEKLY CROP & WEATHER REPORT



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Prepared in Cooperation with:
Univ. of Ky - Agr'l Weather Center
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Kentucky Department of Agriculture
Cooperative Extension Service

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AGRICULTURAL NEWS: A frontal system moved across the State mid-week and provided beneficial rainfall, which was especially needed in the western part of the State. Rainfall for the week averaged 0.69 inches statewide which was 0.37 inches below normal. The major farming activity this week included topping and cultivating tobacco, harvesting hay, and clipping pastures. Days suitable for fieldwork averaged 5.3 out of a possible seven days. Topsoil moisture as of Friday, July 18 was rated 2 percent very short, 24 percent short, 68 percent adequate and 6 percent surplus. Subsoil moisture was rated 2 percent very short, 20 percent short, 71 percent adequate and 7 percent surplus.

CORN: Corn continues to show good growth across the State. As of Sunday, July 20, 68 percent of the corn has silked or is silking, which was the same as last year's percentage and behind the 5 year average of 78 percent. Thirty-eight percent of the crop was in milk stage or beyond, compared to last year's 33 percent and the 5 year average of 40 percent. Eighteen percent of the corn has reached the dough stage or beyond. This was ahead of last year's 13 percent and the 5 year average of 17 percent. The emerged corn was in good to fair condition, with 3 percent very poor, 12 percent poor, 26 percent fair, 38 percent good, and 21 percent excellent.

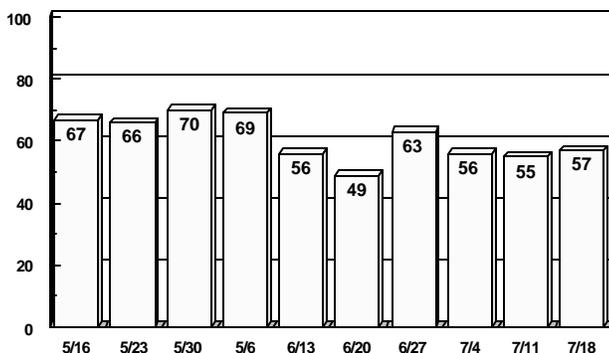
SOYBEANS: Farmers were spraying soybeans for weeds this past week. As of Sunday, July 20, 22 percent of the

soybeans were blooming and 4 percent were setting pods. Last year 31 percent were blooming and 9 percent were setting pods. The 5 year average for soybeans blooming and setting pods were 41 and 16 percent respectively. Condition of emerged soybeans was rated 1 percent very poor, 7 percent poor, 25 percent fair, 46 percent good, and 21 percent excellent.

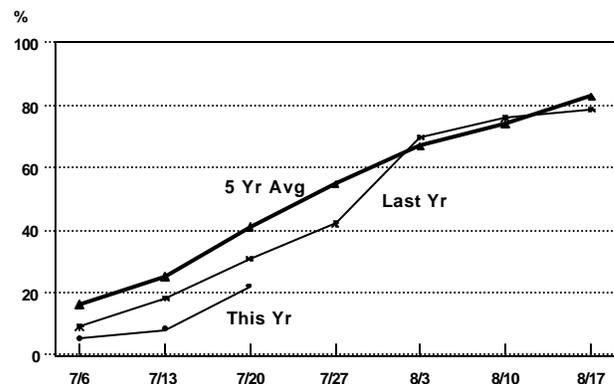
TOBACCO: There were minimal reports of disease or insect problems for tobacco. The major concern is that plants were set late and are blooming before putting on much height. The rains brought weed growth and some low lying fields were flooded. As of Sunday, July 20, the condition of set tobacco was reported as 3 percent very poor, 14 percent poor, 26 percent fair, 47 percent good, and 10 percent excellent. Twenty-one percent of burley tobacco was blooming or beyond, which was behind both last year and average. Six percent of burley tobacco was topped, also behind last year and the 5 year average. Dark tobacco reported blooming or beyond was 36 percent, compared with 29 percent for 2002 and 41 percent for the 5 year average.

OTHER CROPS: Until the rains came, hay baling was a major activity during the week. The condition of the hay crop was rated 1 percent very poor, 5 percent poor, 27 percent fair, 54 percent good, 13 percent excellent. **Pastures** remain in fair to good condition and were rated 1 percent very poor, 7 percent poor, 24 percent fair, 49 percent good and 19 percent excellent.

BURLEY TOBACCO CONDITION
% Good to Excellent



SOYBEANS PERCENT BLOOMING



KENTUCKY CROP PROGRESS
WEEK ENDING JULY 20, 2003
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	22	31	41	8	27
Setting Pods	4	9	16	1	3
Corn					
Silking	68	68	78	57	19
Milk Stage	38	33	40	25	NA
Dough Stage	18	13	17	8	3
Burley Tobacco					
Blooming	21	27	36	NA	NA
Topped	6	9	16	NA	NA
Dark Tobacco					
Blooming	36	29	41	NA	NA

SOIL MOISTURE
WEEK ENDING JULY 18, 2003
WITH COMPARISONS

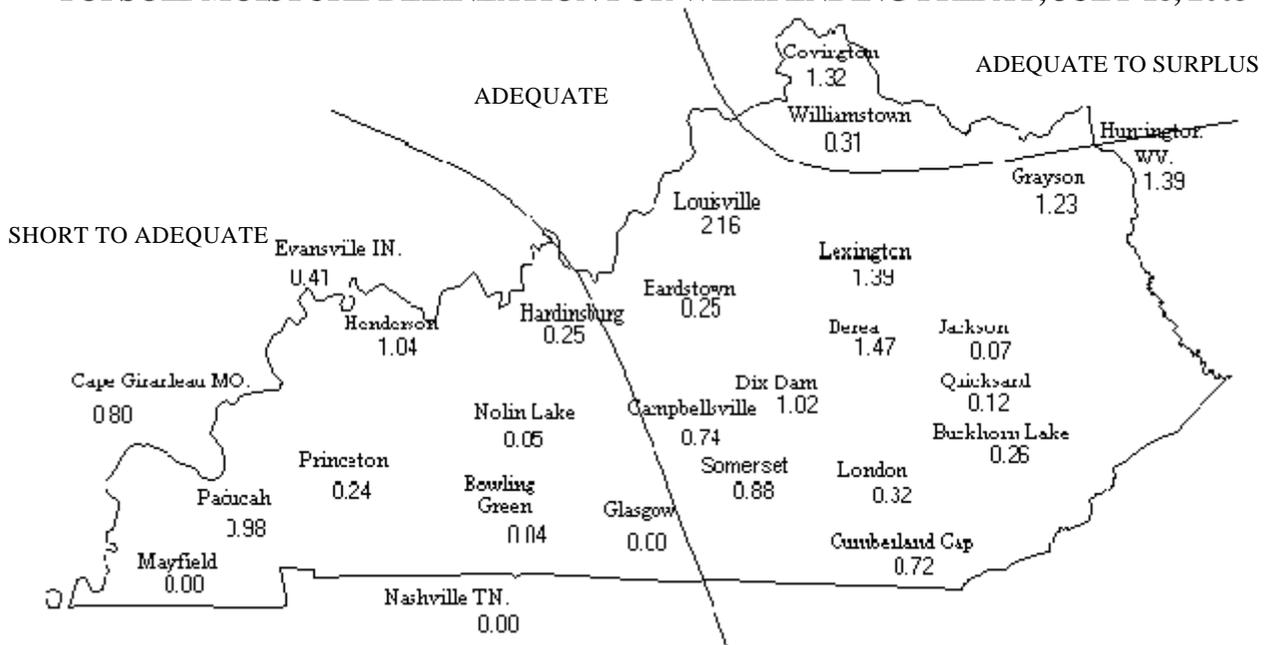
	This Week	Previous Week
TOPSOIL		
Very Short	2	5
Short	24	17
Adequate	68	63
Surplus	6	15
SUBSOIL		
Very Short	2	3
Short	20	15
Adequate	71	69
Surplus	7	13

(NA) Data Not Available.

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING JULY 18, 2003					WEEK ENDING JULY 11, 2003				
	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT
Corn	3	12	26	38	21	2	9	23	40	26
Soybeans	1	7	25	46	21	1	5	27	42	25
Pasture	1	7	24	49	19	1	6	22	48	23
Tobacco	3	14	26	47	10	3	13	29	46	9
Hay Crops	1	5	27	54	13	1	4	24	44	27

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 20, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 18, 2003



KENTUCKY WEATHER SUMMARY, JULY 14 - 20, 2003:**NEAR NORMAL TEMPERATURES AND BELOW NORMAL RAINFALL:**

Rainfall occurred across the Commonwealth of Kentucky last week as a frontal system moved across the State at mid-week. Unlike the previous several weeks, Western Kentucky also received some beneficial rainfall.

Temperatures for the period averaged 76 degrees across the State which was near normal and 1 degree cooler than the previous week. High temperatures averaged from 88 in the West to 84 in the East. Departure from normal high temperatures ranged from 1 degree below normal in the West to 2 degrees below normal in the East. Low temperatures averaged from 67 degrees in the West to 64 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 and low temperatures ranged from the low to mid 60's to low 90's.

Rainfall for the week totaled 0.69 inches statewide which was 0.37 inches below normal. Rainfall totals by climate division, West 0.58 inches, Central 0.46 inches, Bluegrass 1.09 inches and East 0.62 inches, which was -0.35, -0.65, +0.04 and -0.51 inches respectively from normal. By station, rainfall totals ranged from a low of 0.00 inches at Glasgow to a high of 2.16 inches at Louisville.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL**FOR WEEK ENDING SUNDAY, JULY 20, 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	0.25	21.21	3.42	+5.97	-0.78	89	62	76.1	-0	175	1884	-21
Berea	1.47	24.18	6.25	+8.31	+2.35	86	62	75.8	+0	178	1898	-58
Bowling Green	0.04	20.87	2.35	+4.38	-1.82	91	64	77.4	+1	181	2017	+31
Bristol	1.24	24.32	6.32	+10.79	+2.59	87	61	74.7	-1	171	1799	+5
Buckhorn Lake	0.26	22.39	3.19	+7.26	-1.04	85	61	74.4	-1	169	1815	+101
Cape Girardeau	0.80	20.80	3.02	+5.43	-0.19	93	63	78.1	+0	185	1981	-106
Campbellsville	0.74	21.93	4.81	+4.38	+0.24	89	62	76.6	+0	179	2001	+75
Covington	1.32	15.74	4.25	+1.13	+0.49	85	56	73.1	-2	159	1664	-90
Cumberland Gap	0.72	24.07	5.69	+7.52	+1.15	87	62	75.9	+0	177	1876	+112
Dix Dam	1.02	23.16	4.41	+7.33	+0.23	86	62	75.5	+0	177	1875	-30
Evansville	0.41	14.44	2.28	-0.43	-1.26	90	64	77.0	-1	180	1890	-86
Glasgow	0.00	21.39	4.03	+3.75	-0.62	91	61	77.9	+2	180	2085	+189
Grayson	1.23	22.24	3.29	+7.37	-0.87	85	60	73.6	-2	164	1790	+137
Hardinsburg	0.25	17.89	1.39	+1.84	-2.70	89	60	75.8	-0	174	1912	-74
Henderson	1.04	21.39	4.94	+6.15	+1.29	90	63	77.6	-0	181	1948	-58
Huntington	1.39	22.14	3.43	+7.40	-0.74	85	60	73.3	-2	160	1775	-9
Jackson	0.07	20.28	2.30	+4.49	-2.11	85	62	74.4	-1	169	1771	+57
Lexington	1.39	22.11	3.41	+6.87	-0.79	86	60	74.5	-1	170	1804	+20
London	0.32	23.64	4.33	+8.77	+0.29	86	60	74.6	-1	171	1800	+36
Louisville	2.16	20.93	4.67	+5.71	+0.84	88	63	76.3	+0	180	1892	-84
Mayfield	0.00	15.18	0.59	-1.15	-3.21	87	62	75.6	-2	176	1876	-171
Nashville	0.00	18.84	4.53	+3.46	+1.02	92	67	79.9	+4	194	2117	+0
Nolin Lake	0.05	19.89	2.38	+2.70	-1.92	90	63	77.1	+1	179	2003	+178
Paducah	0.98	18.84	2.10	+2.14	-1.68	92	64	78.4	+0	185	2033	-34
Princeton	0.24	17.31	0.48	+0.93	-3.31	92	64	78.4	+0	183	2042	+6
Quicksand	0.12	26.04	2.27	+10.25	-2.14	85	62	74.4	-1	169	1828	+114
Somerset	0.88	28.03	6.08	+11.22	+1.79	87	58	75.1	-0	173	1885	+30
Spindletop	1.06	16.59	2.04	+1.35	-2.16	87	59	74.1	-1	167	1747	-37
Williamstown	0.31	17.03	5.41	+1.78	+1.48	88	60	75.1	-0	172	1837	+53

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/>

Livestock Weather Safety Index Chart

Dry Bulb Temp(F)	Relative Humidity Intervals (Percent)									
	10	20	30	40	50	60	70	80	90	100
78			70	71	72	74	75	75	77	78
80		70	72	73	74	75	77	78	79	80
82	70	71	73	74	75	76	78	79	81	82
84	71	72	74	75	77	78	80	81	83	84
86	72	74	75	77	78	80	81	83	84	86
88	73	75	76	78	80	81	83	85	87	88
90	74	76	78	79	81	83	85	87	88	90
92	75	77	79	81	83	84	86	88	90	
94	76	78	80	82	84	86	88	90		
96	77	79	81	84	86	88	90			
98	78	80	82	85	87	89				
100	79	82	84	86	88	91				

EMERGENCY STRESS - Index of 84 or Greater

DANGER STRESS - Index of 79 to 83

NO STRESS - Index of 78 or Less

DANGER - EXPECT 25% or more increase in transit loss!

EMERGENCY - EXPECT 45% or more increase in transit loss!

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