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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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JMB 16-03

AGRICULTURAL NEWS: The central and eastern portions of Kentucky received rain, which was needed to benefit crops, the western part of the State is starting to need rain. The major farming activity this week included topping and cultivating tobacco, harvesting hay, and clipping pastures. Days suitable for fieldwork averaged 4.8 out of a possible seven days. Topsoil moisture as of Friday, July 11 was rated 5 percent very short, 17 percent short, 63 percent adequate and 15 percent surplus. Subsoil moisture was rated 3 percent very short, 15 percent short, 69 percent adequate and 13 percent surplus.

CORN: Corn in the western part of the State was starting to need rain, otherwise the corn is doing well. As of Sunday, July 13, Fifty-seven percent of the corn has silked or is silking, compared to last year's 56 percent and the 5 year average of 66 percent. Twenty-five percent was in milk stage or beyond, compared to last year's 28 percent and the 5 year average of 19 percent. Eight percent of the corn has reached the dough stage or beyond, compared to the 5 year average of 3 percent. The emerged corn was in fair to excellent condition, with 2 percent very poor, 9 percent poor, 23 percent fair, 40 percent good, and 26 percent excellent.

SOYBEANS: Farmers were spraying the soybeans for weeds this week. As of Sunday, July 13, 8 percent of the soybeans were blooming and 1 percent were setting

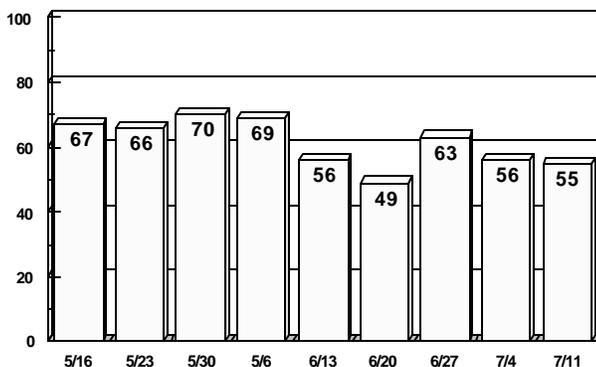
pods, last year 18 percent were blooming and 4 percent were setting pods. The 5 year average for soybeans blooming and setting pods were 25 and 6 percent respectively. Condition of emerged soybeans was rated 1 percent very poor, 5 percent poor, 27 percent fair, 42 percent good, and 25 percent excellent.

TOBACCO: There were minimal reports of disease or insect problems in the tobacco. The rains brought weed growth and some low lying fields were flooded. As of Sunday, July 13, the condition of set tobacco was reported as 3 percent very poor, 13 percent poor, 29 percent fair, 46 percent good, and 9 percent excellent. Tobacco height was reported at 62 percent under 24 inches tall, 28 percent between 24 and 36 inches, and 10 percent over 36 inches high.

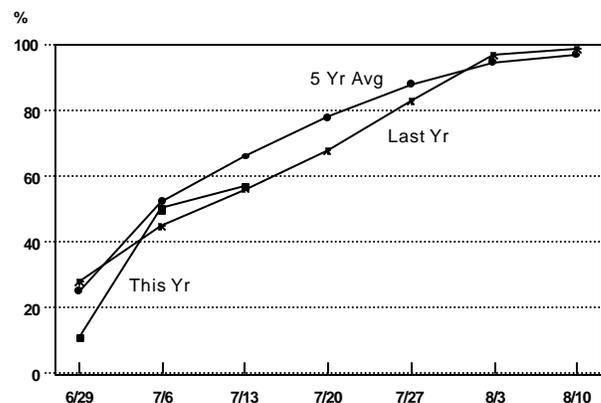
SMALL GRAINS: Wheat harvesting is nearly complete with 99 percent of the crop harvested as of July 13. The wheat harvest is comparable with last year's 99 percent and the average of 98 percent.

OTHER CROPS: Until the rains came, hay baling was a major activity during the week. The condition of the crop was rated 1 percent very poor, 4 percent poor, 24 percent fair, 44 percent good, 27 percent excellent. Pastures remain in good to excellent condition and were rated 1 percent very poor, 6 percent poor, 22 percent fair, 48 percent good and 23 percent excellent.

BURLEY TOBACCO CONDITION
 % Good to Excellent



CORN PERCENT SILKED



KENTUCKY CROP PROGRESS
WEEK ENDING JULY 13, 2003
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	8	18	25	5	11
Setting Pods	1	4	6	NA	NA
Corn					
Silking	57	56	66	50	9
Milk Stage	25	28	19	NA	NA
Dough Stage	8	NA	3	NA	NA
Wheat Harvested	99	99	98	92	64

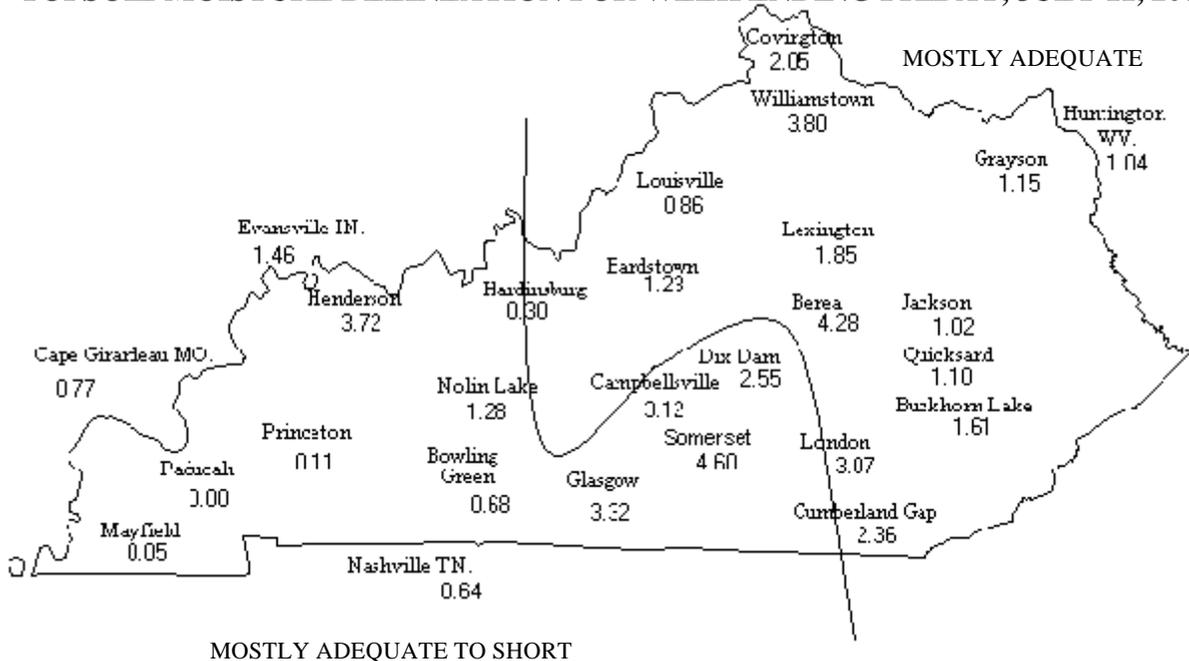
SOIL MOISTURE
WEEK ENDING JULY 11, 2003
WITH COMPARISONS

	This Week	Previous Week
TOPSOIL		
Very Short	5	1
Short	17	21
Adequate	63	72
Surplus	15	6
SUBSOIL		
Very Short	3	0
Short	15	9
Adequate	69	84
Surplus	13	7

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING JULY 11, 2003					WEEK ENDING JULY 4, 2003				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	2	9	23	40	26	1	7	25	43	24
Soybeans	1	5	27	42	25	1	3	21	51	24
Pasture	1	6	22	48	23	1	4	19	54	22
Tobacco	3	13	29	46	9	1	11	32	44	12
Hay Crops	1	4	24	44	27	NA	NA	NA	NA	NA

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 13, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 11, 2003



KENTUCKY WEATHER SUMMARY, JULY 7 - 13, 2003:

ABOVE NORMAL TEMPERATURES AND ABOVE NORMAL RAINFALL:

Very timely and for the most part beneficial rainfall occurred for much of the State during the mid to latter part of the workweek. Central, Bluegrass and Eastern sections of the State benefitted greatest, while several weather stations in the Western section of the State received little or no rainfall for the 7 day period. Very intense downpours occurred, especially in South-central sections where 4 to 6 inches of rainfall was reported. Seasonably warm temperatures dominated the first half of the workweek with cooler temperatures for the remainder of the week.

Temperatures for the past week averaged 77 degrees across the State which was 1 degree above normal. 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 70 degrees in the West to 68 degrees in the East. Departure from normal low temperature ranged from 4 degrees above normal in the West to 3 degrees above normal in the East. Extreme high and low temperatures ranged in the low 90's and low 60's.

Rainfall for the week totaled 1.71 inches statewide which was 0.66 inches above normal. Precipitation totals by climate division, West 1.02 inches, Central 1.28 inches, Bluegrass 2.56 inches and East 1.99 inches, which was 0.09, 0.17, 1.51 and 0.86 inches respectively above normal. By station, precipitation totals ranged from a low of 0.00 inches at Paducah to a high of 4.60 inches at Somerset.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, JULY 13, 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	1.23	20.96	3.83	+6.85	-0.10	89	62	76.6	+1	181	1709	-28
Berea	4.28	22.71	5.20	+7.84	+1.37	90	62	77.1	+2	183	1720	-61
Bowling Green	0.68	20.83	5.32	+5.41	+1.25	91	64	79.1	+3	196	1836	+25
Bristol	2.14	23.08	8.68	+10.53	+5.10	87	58	75.4	+0	175	1628	-5
Buckhorn Lake	1.61	22.13	4.56	+8.09	+0.46	89	61	75.0	-0	172	1646	+86
Cape Girardeau	0.77	20.00	2.22	+5.43	-1.00	93	62	79.9	+2	195	1796	-102
Campbellsville	3.12	21.19	5.91	+4.85	+1.58	92	62	77.9	+2	187	1822	+71
Covington	2.05	14.42	2.96	+0.77	-0.74	91	60	75.1	-0	170	1505	-81
Cumberland Gap	2.36	23.35	7.38	+7.99	+3.04	88	61	76.4	+1	182	1699	+96
Dix Dam	2.55	22.14	4.76	+7.43	+0.85	90	61	77.0	+2	182	1698	-39
Evansville	1.46	14.03	1.88	+0.08	-1.56	92	62	78.6	+1	191	1710	-84
Glasgow	3.32	21.39	6.36	+4.95	+1.83	93	62	78.2	+2	186	1905	+184
Grayson	1.15	21.01	3.70	+7.24	-0.26	91	60	75.6	+0	172	1626	+127
Hardinsburg	0.30	17.64	1.14	+2.67	-2.76	90	62	77.4	+1	185	1738	-73
Henderson	3.72	20.35	3.92	+6.03	+0.31	91	62	78.1	+0	189	1767	-57
Huntington	1.04	20.75	3.75	+7.12	-0.17	91	60	75.6	+0	173	1615	-1
Jackson	1.02	20.21	3.35	+5.61	-0.76	89	61	75.1	-0	173	1602	+42
Lexington	1.85	20.72	3.73	+6.61	-0.20	93	60	77.4	+2	183	1634	+18
London	3.07	23.32	5.88	+9.52	+2.07	89	60	75.6	+0	176	1629	+26
Louisville	0.86	18.77	2.59	+4.57	-1.03	90	62	77.3	+1	185	1712	-82
Mayfield	0.05	15.18	1.07	-0.13	-2.50	90	62	76.9	-1	181	1700	-172
Nashville	0.64	18.84	4.82	+4.36	+1.37	91	67	79.6	+4	198	1923	-5
Nolin Lake	1.28	19.84	4.01	+3.79	-0.07	91	64	78.4	+2	190	1824	+160
Paducah	0.00	17.86	1.58	+2.10	-2.20	92	67	80.9	+3	202	1848	-37
Princeton	0.11	17.07	0.37	+1.66	-3.35	93	65	80.6	+3	197	1859	+5
Quicksand	1.10	25.92	5.76	+11.32	+1.65	89	61	74.8	-1	170	1659	+99
Somerset	4.60	27.15	7.09	+11.44	+2.92	90	60	76.9	+2	182	1712	+18
Spindletop	0.86	15.53	2.16	+1.42	-1.77	90	59	76.1	+1	178	1580	-36
Williamstown	3.80	16.72	5.70	+2.49	+1.92	90	60	75.9	+1	175	1665	+49

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/>

APPARENT TEMPERATURE CHART

Rel Humid %	Air Temperature (Degrees Fahrenheit)					
	85	90	95	100	105	110
20	82	87	93	99	105	112
30	84	90	96	104	113	123
40	86	93	101	110	123	137
50	88	96	107	120	135	150
60	90	100	114	132	149	
70	93	106	124	144		
80	97	113	130			
90	102	122				
100	108					

CATEGORY	APPARENT TEMP	HEAT SYMPTOMS
I	> 130 degrees	Heatstroke imminent
II	105 to 130 degrees	Sunstroke likely, heatstroke possible
III	90 to 105 degrees	Sunstroke possible
IV	80 to 90 degrees	Fatigue possible

HOW TO USE THE “APPARENT TEMPERATURE” CHART

If the outside air temperature was currently 100 degrees (F) and relative humidity was currently 50%, the apparent temperature would be 120 degrees (see chart). This means the outside temperature would feel like it was 120 degrees. Under these conditions sunstroke would be likely and heatstroke possible if exposure is prolonged. Keep in mind that the actual degree of heat stress experienced will vary with individual age, health, and body characteristics.

This release and others can be viewed on the Internet at <http://www.nass.usda.gov/ky/> For a free E-Mail subscription of the Kentucky Weekly Crop & Weather report, on the Internet go to <http://www.nass.usda.gov/sub-form.htm> and follow the instructions.