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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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KGC 22-03

AGRICULTURAL NEWS: Warm, dry conditions persisted this week. Showers fell on parts of the State later in the week. Topping, spraying and cutting tobacco, harvesting hay, clipping pastures and preparing harvest equipment continued from last week. Days suitable for fieldwork averaged 5.9 out of a possible seven days. As of Friday, August 22, topsoil moisture was rated 2 percent very short, 27 percent short, 67 percent adequate and 4 percent surplus. Subsoil moisture was rated 2 percent very short, 17 percent short, 74 percent adequate and 7 percent surplus.

TOBACCO: The condition of tobacco was reported as 1 percent very poor, 7 percent poor, 28 percent fair, 45 percent good, and 19 percent excellent. The hot and dry weather helped to dry up a few tobacco fields affected by blue mold, though some fields still suffered from blue mold and black shank. Very few incidents of insect damage have been reported. About 23 percent of burley tobacco has been cut, compared with 33 percent for 2002 and the 5 year average of 38 percent. **Dark tobacco** cutting was 17 percent, behind both last year's 24 percent and 37 percent for the 5 year average.

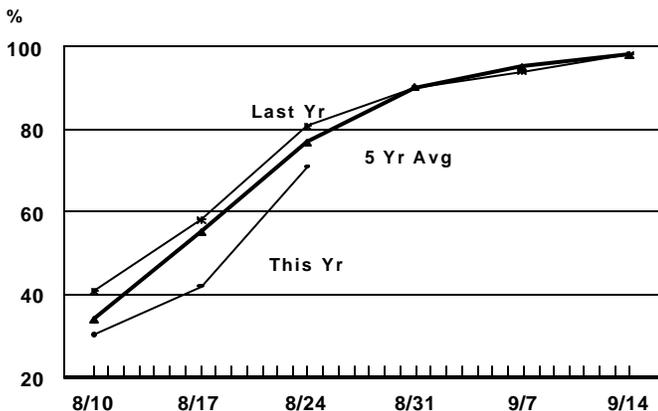
CORN: The corn crop is developing well, in spite of progressing slower than last year. Harvest should begin for early-maturing corn within the next few weeks.

Corn condition was 2 percent very poor, 6 percent poor, 28 percent fair, 37 percent good, and 27 percent excellent. As of Sunday, August 24, 94 percent of the corn has reached the dough stage or beyond, behind 2002's 97 percent, but the same as the 5 year average. Corn dented was at 71 percent, compared to 81 percent last year and 77 percent on average.

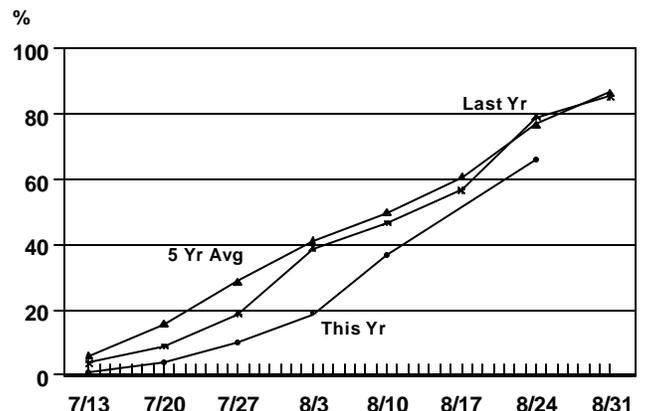
SOYBEANS: Soybeans look good, but could use some more rain. That seems to be the consensus among people across the State. Crop condition for the week was rated 4 percent poor, 19 percent fair, 50 percent good, and 27 percent excellent. Eighty-seven percent of the soybean crop was blooming, compared to 92 percent last year and 93 percent for the 5 year average. On Sunday, August 24, two-thirds of the soybeans were setting pods, compared to 79 percent a year ago, and the 5 year average of 77 percent. Soybeans shedding leaves was at 1 percent, same as 2002, but behind the 5 year average of 2 percent.

OTHER CROPS: Additional cuttings of **hay** continued from previous week. Fields looked good, but a few more showers will further improve conditions. For the week, those conditions were 2 percent poor, 27 percent fair, 54 percent good, and 17 percent excellent. **Pasture** condition was rated at 1 percent very poor, 3 percent poor, 24 percent fair, 55 percent good, and 17 percent excellent.

CORN PERCENT DENT OR BEYOND



SOYBEANS SETTING PODS PROGRESS



KENTUCKY CROP PROGRESS
WEEK ENDING AUGUST 24, 2003
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	87	92	93	78	95
Setting Pods	66	79	77	50	79
Shedding Leaves	1	1	2	NA	NA
Corn					
Dough Stage	94	97	94	70	57
Dent Stage	71	81	77	42	18
Mature	19	30	25	NA	NA
Burley Tobacco					
Cut	23	33	38	9	NA
Dark Tobacco					
Cut	17	24	37	8	NA

SOIL MOISTURE
WEEK ENDING AUGUST 22, 2003
WITH COMPARISONS

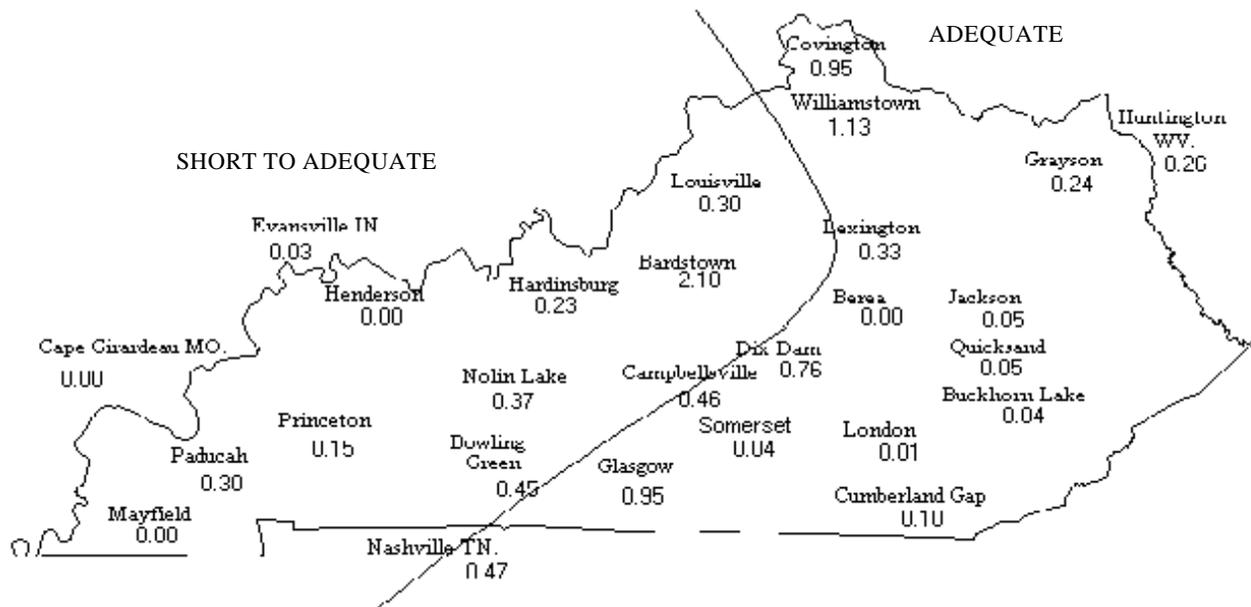
	This Week	Previous Week
TOPSOIL		
Very Short	2	0
Short	27	8
Adequate	67	73
Surplus	4	19
SUBSOIL		
Very Short	2	0
Short	17	9
Adequate	74	74
Surplus	7	17

(NA) Data Not Available.

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING AUGUST 22, 2003					WEEK ENDING AUGUST 15, 2003				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	2	6	28	37	27	1	5	22	43	29
Soybeans	0	4	19	50	27	0	2	18	52	28
Pasture	1	3	24	55	17	0	3	20	57	20
Hay Crops	0	2	27	54	17	0	3	20	57	20
Tobacco in Field	1	7	28	45	19	3	11	25	42	19

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 24, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, AUGUST 22, 2003



KENTUCKY WEATHER SUMMARY, AUGUST 18 - 24, 2003:

ABOVE NORMAL TEMPERATURES AND BELOW NORMAL RAINFALL:

A mostly dry week with limited showers and thunderstorms some of which provided intense rainfall and high winds in localized areas of central and eastern sections of the State. It was the second week with above normal temperatures and below normal rainfall.

Temperatures for the period averaged 77 degrees across the State which was 3 degrees above normal. High temperatures averaged from 91 in the West to 85 in the East. Departure from normal high temperatures ranged from 4 degrees above normal in the West to 1 degree above normal in the East. Low temperatures averaged from 67 degrees in the West to 66 degrees in the East. Departure from normal low temperature ranged from 3 degrees above normal in the West to 4 degrees above normal in the East. Western sections had 5 days with high temperatures near or above 90 degrees, with no days in the 90's in eastern sections of the State.

Rainfall for the period totaled 0.37 inches statewide which was 0.47 inches from normal. Rainfall totals by climate division, West 0.08 inches, Central 0.73 inches, Bluegrass 0.56 inches and East 0.10 inches, which was 0.71, 0.11, 0.30 and 0.77 inches respectively below normal. By station, rainfall totals ranged from a low of 0.00 inches at Berea to a high of 2.10 inches at Bardstown.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL

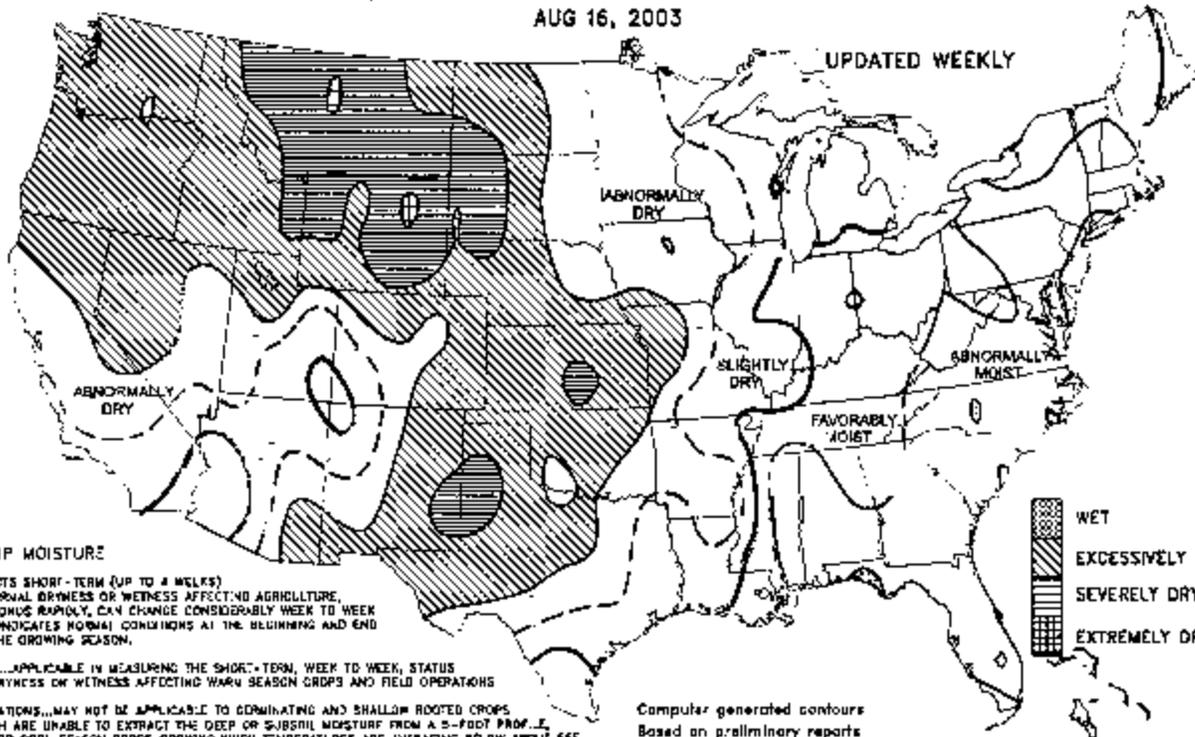
FOR WEEK ENDING SUNDAY, AUGUST 24, 7:00 P.M.

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	2.10	28.43	6.46	+8.38	+2.77	90	60	75.3	+2	171	2730	+9
Berea	0.00	27.62	2.68	+7.09	-0.98	89	59	76.1	+4	177	2770	-37
Bowling Green	0.45	25.83	2.84	+4.94	-0.49	94	62	78.4	+5	185	2899	+62
Bristol	0.00	36.44	11.70	+18.93	+8.69	87	60	75.3	+3	174	2627	+28
Buckhorn Lake	0.04	30.01	7.12	+10.33	+3.67	88	60	74.5	+2	169	2634	+174
Cape Girardeau	0.00	23.20	2.35	+3.87	-0.81	98	63	81.1	+6	192	2890	-94
Campbellsville	0.46	28.20	4.30	+5.20	+0.07	91	62	77.8	+4	183	2891	+114
Covington	0.95	20.21	3.71	+1.51	+0.57	89	61	74.9	+2	171	2486	-84
Cumberland Gap	0.10	33.72	9.17	+11.95	+5.14	88	62	76.5	+4	181	2731	+162
Dix Dam	0.76	28.24	4.37	+7.63	+0.71	89	60	75.9	+3	175	2732	-13
Evansville	0.03	17.96	2.77	-0.75	-0.16	95	61	79.1	+4	183	2780	-58
Glasgow	0.95	29.61	5.13	+6.97	+1.32	93	63	79.1	+6	186	2984	+237
Grayson	0.24	28.65	5.58	+9.16	+2.05	90	60	74.9	+2	170	2618	+195
Hardinsburg	0.23	22.99	4.35	+2.32	+0.81	93	60	77.4	+4	181	2769	-68
Henderson	0.00	28.07	6.37	+8.93	+3.39	94	60	76.9	+2	176	2811	-57
Huntington	0.26	29.10	6.02	+9.56	+2.33	90	60	74.8	+2	169	2600	+0
Jackson	0.05	25.50	4.79	+4.75	+1.01	89	60	74.4	+2	168	2582	+122
Lexington	0.33	26.76	4.02	+6.71	+0.33	90	61	75.9	+3	175	2647	+47
London	0.01	32.61	8.24	+13.49	+5.06	87	59	74.7	+2	170	2620	+51
Louisville	0.30	25.81	3.46	+6.25	+0.14	91	62	76.6	+3	178	2748	-114
Mayfield	0.00	16.68	1.25	-4.21	-2.29	89	61	76.6	+1	181	2739	-159
Nashville	0.47	23.63	4.50	+4.16	+1.31	92	68	81.0	+8	200	3062	+24
Nolin Lake	0.37	25.15	3.34	+3.27	-0.21	93	62	78.1	+5	184	2886	+256
Paducah	0.30	21.43	2.51	+0.65	-0.62	95	63	79.5	+4	184	2936	-17
Princeton	0.15	22.78	4.07	+1.78	+0.41	95	62	80.1	+5	188	2945	+23
Quicksand	0.05	32.51	6.01	+11.76	+2.23	89	60	74.5	+2	168	2644	+184
Somerset	0.04	34.09	4.60	+12.51	+0.93	89	61	76.0	+3	175	2735	+75
Spindletop	0.18	21.14	4.25	+1.09	+0.56	88	59	74.6	+2	170	2562	-38
Williamstown	1.13	24.35	6.26	+4.60	+2.79	90	59	74.9	+2	168	2683	+83

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/>

Crop Moisture
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
AUG 16, 2003

UPDATED WEEKLY



CROP MOISTURE

DEPICTS SHORT-TERM (UP TO A WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONSE RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USDS...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 MET SPILLS 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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