



**NATIONAL
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KENTUCKY WEEKLY CROP & WEATHER REPORT



In Cooperation with:
Univ. of Ky - Agr'l Weather Center
U.S. Dept. of Commerce - NOAA
Kentucky Department of Agriculture
Cooperative Extension Service

LELAND E. BROWN, Director

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KBM 22-05

AGRICULTURAL NEWS: Widespread rains crossed the State last week. Although most areas measured some amount of precipitation, western Kentucky received the most rainfall. Days suitable for fieldwork averaged 5.0 out of a possible seven days. Topsoil moisture as of Friday, August 19 was rated 27 percent very short, 35 percent short, 37 percent adequate, and 1 percent surplus. Subsoil moisture was rated 30 percent very short, 42 percent short, and 27 percent adequate, and 1 percent surplus. Farm activities included general farm work, cutting and housing of tobacco and preparing for upcoming grain harvest.

TOBACCO: Tobacco benefited some from added moisture and as of Sunday, August 21, the condition of tobacco in the field was reported as 7 percent very poor, 17 percent poor, 29 percent fair, 37 percent good, and 10 percent excellent. Comments were received about black shank being prevalent, but no serious damage was mentioned. One third of the burley crop was cut, behind last year's 36 percent, but ahead of the average of 29 percent. Dark tobacco was 18 percent cut, compared to 30 percent last year and 24 percent for the 5 year average.

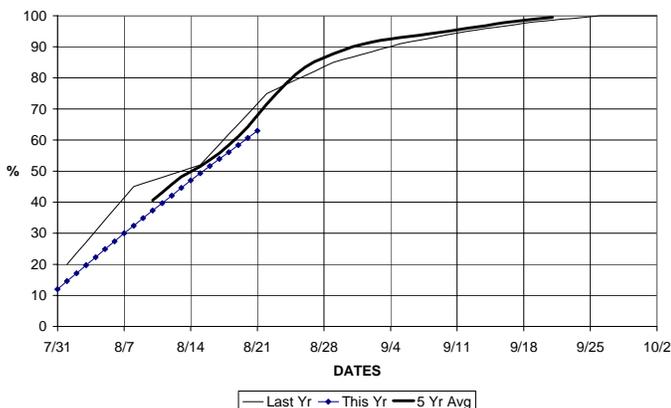
CORN: As of Sunday, August 21, one quarter of the corn was mature, compared to 21 percent last year and the 5 year average of 22 percent. Ninety-percent percent of the corn has reached the dough stage or beyond, the same as last year and 88 percent on average. Sixty-three percent of corn was dented, compared with 72 percent last year and 68

percent for the 5 year average. The crop condition was reported as 6 percent very poor, 12 percent poor, 31 percent fair, 37 percent good and 14 percent excellent. With the corn crop being pretty much made, the recent rains may not have much impact on yield.

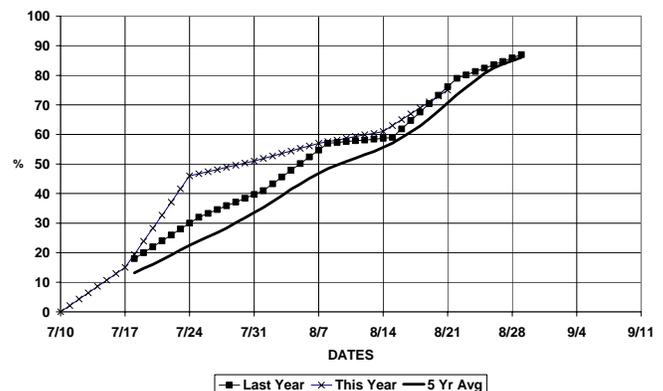
SOYBEANS: As of Sunday, August 21, 91 percent of the soybeans were blooming, the same as last year and slightly ahead of the 5 year average of 88 percent. Recent rains will help pod fill with three quarters of the soybeans setting pods. A year ago 76 percent were setting pods and the 5 year average for soybeans setting pods was 71 percent. The condition of soybeans was rated 5 percent very poor, 10 percent poor, 25 percent fair, 43 percent good, and 17 percent excellent. Of the major crops, soybeans are likely to receive the most overall benefit from recent rains. However, additional showers will be needed for continued pod fill. A few comments were received that if conditions do not improve soybeans may be cut for hay, rather than grain.

OTHER CROPS: The much needed moisture will benefit the growth of hay and pastures, although cooler weather is also needed. The condition of the hay crop was rated 23 percent very poor, 23 percent poor, 35 percent fair, 18 percent good, and 1 percent excellent. **Pastures** remain in bad shape and were rated 22 percent very poor, 29 percent poor, 36 percent fair, and 13 percent good. There were some comments of hay being fed to supplement pastures and concerns of potential local hay shortages this winter.

CORN DENT PROGRESS



SOYBEANS SETTING PODS PROGRESS



KENTUCKY CROP PROGRESS
WEEK ENDING AUGUST 21, 2005
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Blooming	91	91	88	81	NA
Setting Pods	75	76	71	61	89
Corn					
Dough Stage	90	90	88	68	65
Dent Stage	63	72	68	47	23
Mature	25	21	22	NA	NA
Burley Tobacco					
Cut	33	36	29	11	NA
Dark Tobacco					
Cut	18	30	24	8	NA

(NA)Data Not Available.

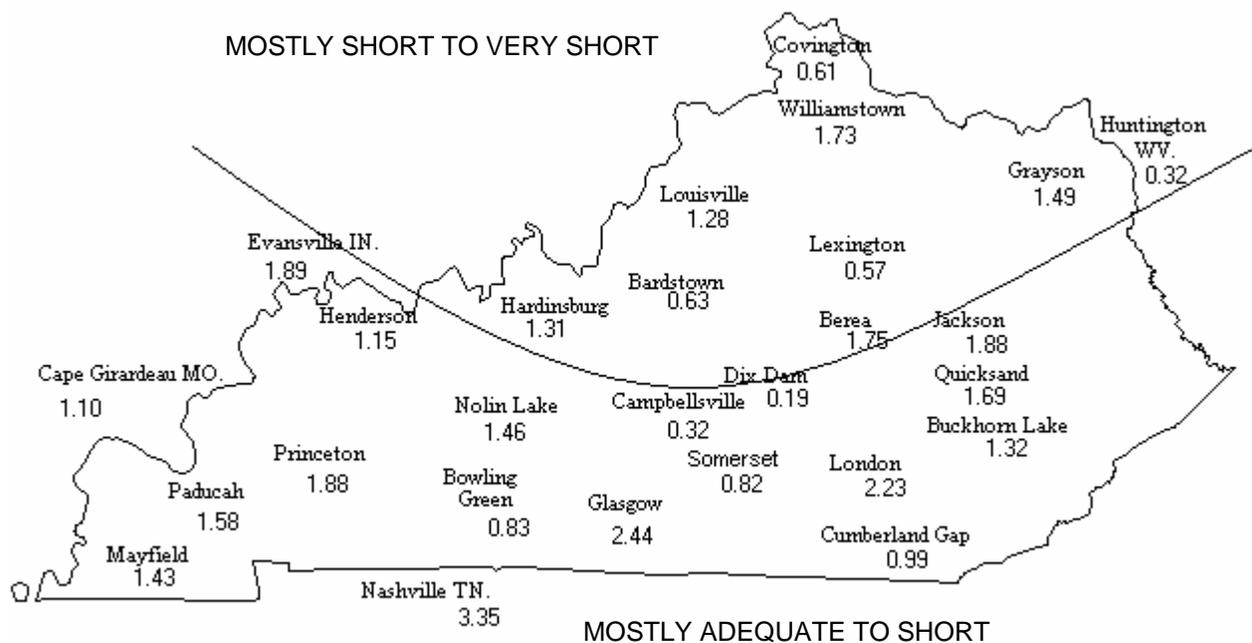
SOIL MOISTURE
WEEK ENDING AUGUST 19, 2005
WITH COMPARISONS

	This Week	Previous Week
TOPSOIL		
Very Short	27	45
Short	35	44
Adequate	37	11
Surplus	1	0
SUBSOIL		
Very Short	30	39
Short	42	43
Adequate	27	18
Surplus	1	0

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING AUGUST 19, 2005					WEEK ENDING AUGUST 12, 2005				
	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT
Corn	6	12	31	37	14	8	14	30	37	11
Soybeans	5	10	25	43	17	7	12	36	37	8
Pasture	22	29	36	13	0	27	30	32	11	0
Hay Crops	23	23	35	18	1	22	23	35	19	1
Tobacco in Field	7	17	29	37	10	8	19	28	38	7

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 21, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, AUGUST 19, 2005



KENTUCKY WEATHER SUMMARY, AUGUST 15 – 21, 2005:
MUCH ABOVE NORMAL TEMPERATURES AND ABOVE NORMAL RAINFALL:

Numerous showers and thunderstorms returned above normal rainfall to the Bluegrass state last week after 4 weeks of mostly hot, dry conditions. It was also the 5th week in a row with above normal temperatures.

Temperatures for last week averaged 80 degrees across the State which was 7 degrees above normal. High temperatures averaged from 91 in the West to 90 in the East. Departure from normal high temperatures ranged from 3 degrees above normal in the West to 6 degrees above normal in the East. Low temperatures averaged from 72 degrees in the West to 71 degrees in the East. Departure from normal low temperature ranged from 8 degrees above normal in the West to 9 above from normal in the East. Extreme high temperatures were in the mid to upper 90s and extreme low temperatures were near 70 degrees.

Rainfall for the period totaled 1.29 inches statewide which was 0.44 inches above normal. Rainfall totals by climate division, West 1.50 inches, Central 1.32 inches, Bluegrass 0.97 inches and East 1.34 inches, which was 0.72, 0.48, 0.11 and 0.47 inches respectively above normal. By station, precipitation totals ranged from a low of 0.19 inches at Dix Dam to a high of 3.35 inches at Nashville.

Tom Priddy

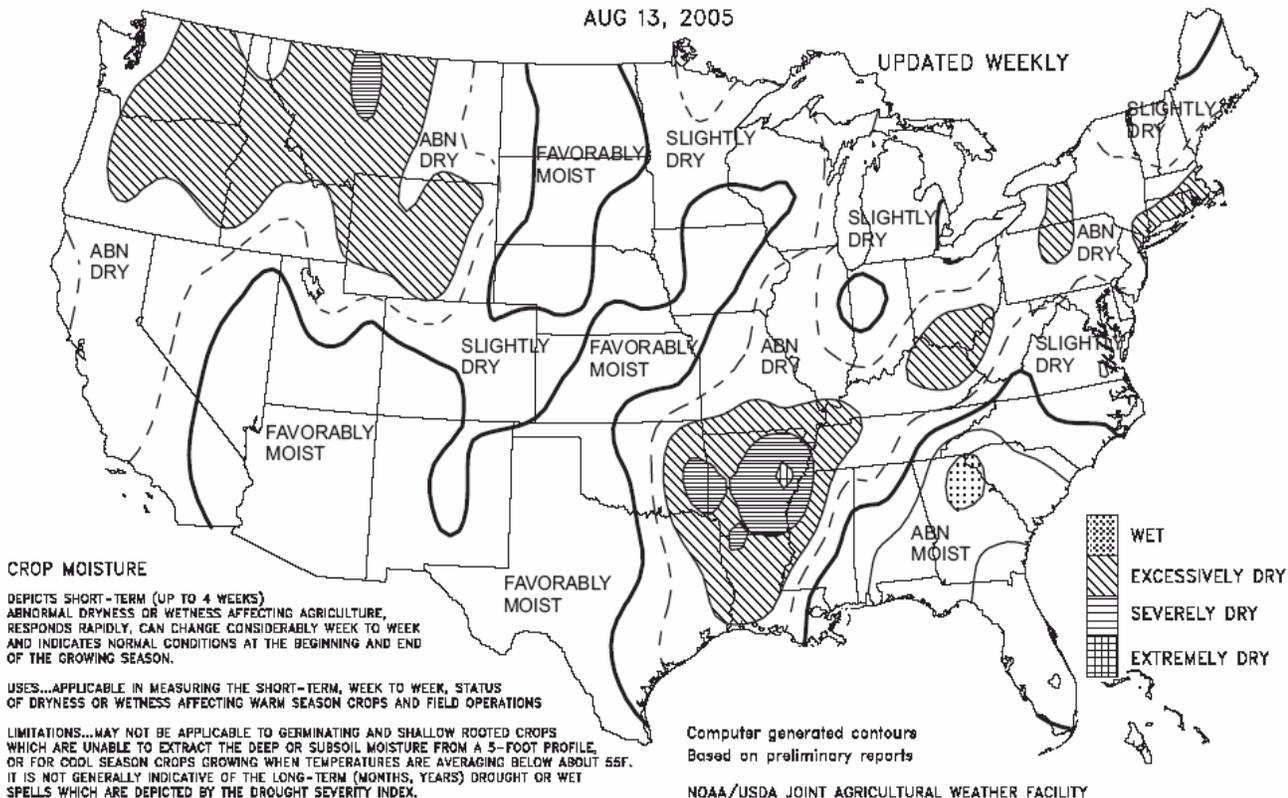
KENTUCKY TEMPERATURES AND RAINFALL
FOR WEEK ENDING SUNDAY, AUGUST 21, 7:00 P.M.

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	0.63	17.67	2.79	-2.00	-1.00	96	66	79.1	+5	189	2794	+142
Berea	1.75	19.17	3.99	-0.97	+0.29	94	68	80.4	+7	199	2909	+174
Bowling Green	0.83	15.26	0.83	-5.29	-2.62	96	70	82.5	+9	205	2920	+155
Bristol	1.90	19.82	2.49	+2.61	-0.63	93	68	79.4	+6	189	2616	+86
Buckhorn Lake	1.32	12.06	2.24	-7.26	-1.33	96	66	80.4	+7	196	2838	+441
Cape Girardeau	1.10	18.77	1.74	-0.22	-1.42	99	70	83.4	+8	208	2985	+76
Campbellsville	0.32	18.91	2.04	-3.65	-2.27	96	69	81.1	+7	199	2898	+193
Covington	0.61	12.89	2.79	-5.49	-0.44	95	66	78.1	+5	187	2693	+192
Cumberland Gap	0.99	12.50	2.50	-8.85	-1.62	96	66	80.4	+7	196	2832	+332
Dix Dam	0.19	16.07	1.91	-4.16	-1.85	95	69	79.8	+7	192	2822	+149
Evansville	1.89	14.80	2.86	-3.61	-0.16	95	70	80.3	+5	198	2853	+87
Glasgow	2.44	21.48	2.73	-0.77	-1.20	97	69	82.6	+9	201	3016	+341
Grayson	1.49	15.33	2.19	-3.80	-1.45	97	68	80.8	+8	197	2844	+487
Hardinsburg	1.31	14.51	1.82	-5.79	-1.82	95	68	79.8	+6	194	2869	+104
Henderson	1.15	14.95	1.45	-3.89	-1.62	97	66	80.9	+5	197	2903	+107
Huntington	0.32	13.35	0.33	-5.81	-3.45	98	68	81.3	+8	197	2855	+324
Jackson	1.88	19.37	2.86	-1.00	-1.04	94	69	80.1	+7	199	2853	+456
Lexington	0.57	12.75	1.31	-6.92	-2.48	96	68	79.6	+6	190	2761	+230
London	2.23	17.65	3.75	-1.15	+0.43	94	68	80.0	+7	192	2719	+219
Louisville	1.28	14.68	1.49	-4.54	-1.93	95	69	78.6	+5	189	2803	+16
Mayfield	1.43	12.11	1.73	-8.40	-1.88	96	66	80.4	+5	196	2853	+27
Nashville	3.35	16.39	3.82	-2.74	+0.58	98	71	84.6	+1	209	3091	+131
Nolin Lake	1.46	16.38	1.79	-5.14	-1.89	96	69	81.6	+8	202	2910	+349
Paducah	1.58	14.89	1.86	-5.56	-1.35	96	70	82.4	+7	206	2972	+94
Princeton	1.88	13.68	2.05	-6.94	-1.64	96	65	81.7	+6	201	2984	+137
Quicksand	1.69	15.99	2.64	-4.38	-1.26	96	66	80.4	+7	196	2843	+446
Somerset	0.82	18.28	2.82	-2.93	-0.94	94	68	79.9	+7	192	2781	+190
Spindletop	0.99	10.73	1.02	-8.94	-2.77	95	67	78.6	+6	189	2698	+167
Williamstown	1.73	13.66	2.78	-5.73	-0.77	95	67	78.7	+6	189	2726	+195

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 13, 2005

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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