



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

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

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Released weekly April - November

Issued 4:00 P.M., October 1, 2007

RPT 28-07

AGRICULTURAL NEWS: Kentucky received some much needed moisture during the week. The rain was too late for most crops but stabilized pasture conditions and conserved water supplies. Rain received varied widely ranging from no rain to 3.5 inches. Temperatures remained unseasonably warm with all areas of the state reaching 90 degrees. Temperatures averaged 72 degrees, 8 degrees above normal. Eight of the last nine weeks have had above normal temperatures. Most of the state remained dry with **topsoil moisture** rated 59 percent very short, 33 percent short, and 8 percent adequate as of Sunday, September 30. **Subsoil moisture** was rated 75 percent very short, 20 percent short, and 5 percent adequate. There were 5.6 days suitable for fieldwork. Main farm activities included shelling corn, cutting and housing tobacco, and soybean harvest.

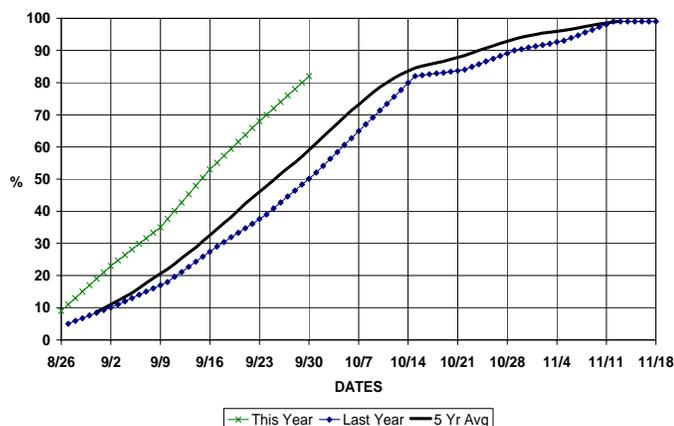
TOBACCO: The condition of housed tobacco was reported as 3 percent very poor, 7 percent poor. 33 percent fair, 49 percent good and 8 percent excellent. Three percent of tobacco had been stripped, 21 percent was ready for stripping and 76 percent was not ready for stripping. Nearly 93 percent of the burley had been cut by Sunday, September 30, compared with 89 percent a year ago and the five-year average of 91 percent. Dark tobacco harvest was nearly complete with 95 percent cut. Last year 87 percent had been cut and the five-year average was 92 percent. Producers concerns include tobacco drying too fast and losing color.

CORN: Harvest continued at a rapid pace with 82 percent of the crop combined as of Sunday, September 30. This is well ahead of the 50 percent harvested last year and the five year average of 59 percent. Reported yields vary widely depending of the amount and timing of rain received.

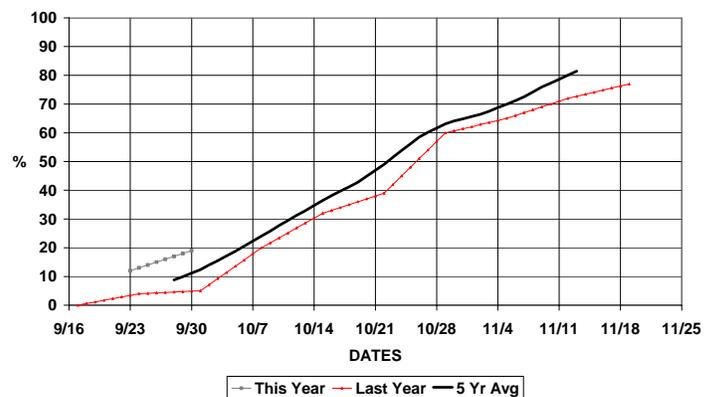
SOYBEANS: As of Sunday, September 30, 19 percent of the soybeans had been harvested, well ahead of the 5 percent reported last year and the average of 11 percent. Fifty-three percent of soybeans were mature, ahead of last year's 39 percent but slightly behind the five year average of 56 percent. Nearly 78 percent of the crop had dropped leaves compared with 69 percent a year ago and the five year average of 74 percent. Soybean condition continued to decline and was rated 27 percent very poor, 26 percent poor, 26 percent fair, 17 percent good, and 4 percent excellent. Eighty percent of the crop was considered safe from frost. Small size of bean is a concern for some producers, especially with double crop beans.

OTHER CROPS AND PASTURE: Rain this week slowed the decline in pasture condition, but pastures are rated in mostly very poor to poor condition. Pastures were rated 53 percent very poor, 29 percent poor, 15 percent fair, and 3 percent good. A few reports indicate corn stocks are being cut for livestock forage as hay supplies remain in short supply. Wheat seeding was underway but many farmers are waiting for improved moisture for germination before planting fall grains.

CORN HARVESTED PROGRESS



SOYBEANS HARVESTED PROGRESS



KENTUCKY CROP PROGRESS
WEEK ENDING SEPTEMBER 30, 2007

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Soybeans					
Shedding Leaves	78	69	74	71	76
Mature	53	39	56	43	NA
Harvested	19	5	11	12	12
Corn					
Mature	99	95	95	98	80
Harvested	82	50	59	68	22
Winter Wheat					
Seeded	5	4	6	NA	27
Burley Tobacco					
Cut	93	89	91	87	NA
Dark Tobacco					
Cut	95	87	92	94	NA

(NA)Data Not Available.

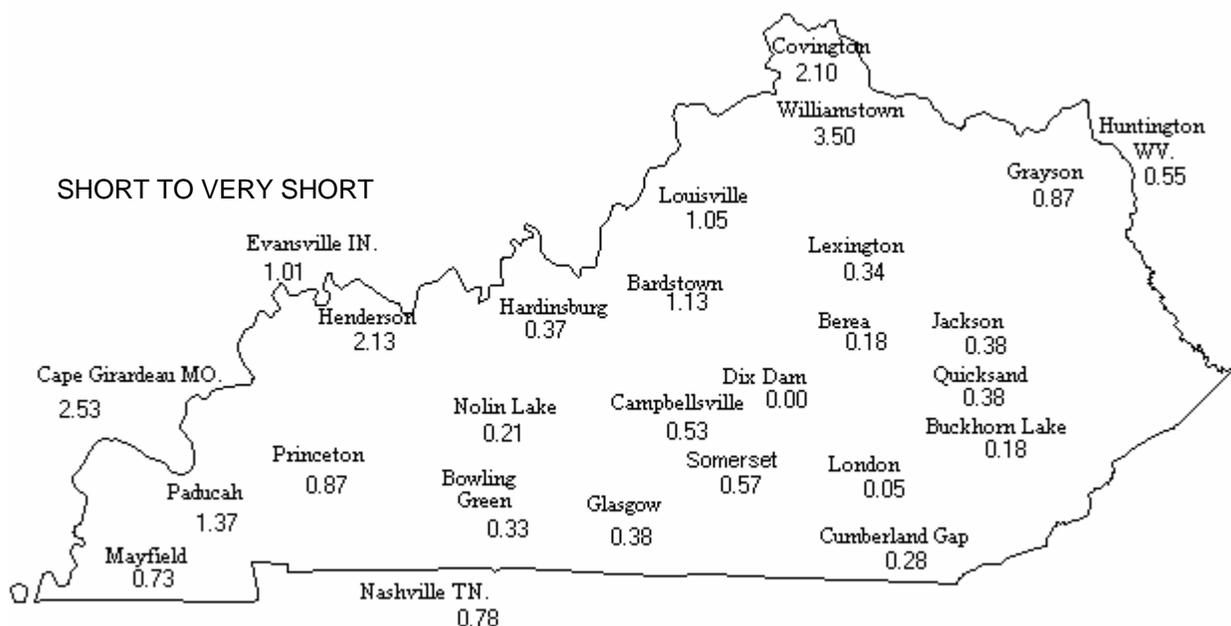
SOIL MOISTURE
WEEK ENDING SEPTEMBER 30, 2007

	This Week	Previous Week
TOPSOIL		
Very Short	59	69
Short	33	26
Adequate	8	5
Surplus	0	0
SUBSOIL		
Very Short	75	70
Short	20	23
Adequate	5	7
Surplus	0	0

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING SEPTEMBER 30, 2007					WEEK ENDING SEPTEMBER 23, 2007				
	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT
Soybeans	27	26	26	17	4	19	23	36	18	4
Pasture	53	29	15	3	0	51	27	18	4	0
Housed Tobacco	3	7	33	49	8	1	8	31	50	10

PRECIPITATION MAP AND TOPSOIL MOISTURE DELINEATION
WEEK ENDING SEPTEMBER 30, 2007



SHORT TO VERY SHORT

KENTUCKY WEATHER SUMMARY, SEPTEMBER 24 – 30, 2007:

Above normal temperatures and below normal rainfall

Much needed rainfall arrived throughout the majority of the Bluegrass State as tropical moisture pooled up ahead of a cold front by mid-week. However, with only the one rainfall event, the drying trend persisted. Unseasonably warm temperatures continued as the State experienced the eighth week out of the past nine with above normal temperatures. All stations reported at least one day with high temperatures at or above 90 degrees. Cool, dry conditions occurred on Friday and Saturday with warmer conditions on Sunday.

Temperatures for the period averaged 72 degrees across the State which was 8 degrees above normal and 1 degree cooler than the previous week. High temperatures averaged 84 degrees across the State. Departure from normal high temperatures ranged from 6 degrees above normal in the West to 10 degrees above normal in the East. Low temperatures averaged from 61 degrees in the West to 59 degrees in the East. Departure from normal low temperature averaged 7 degrees above normal throughout the State.

Rainfall for the period totaled 0.62 inches statewide which was 0.28 inches below normal. Rainfall totals by climate division, West 1.10 inches, Central 0.41 inches, Bluegrass 0.84 inches and East 0.27 inches, which was 0.27 above normal, 0.52 below normal, 0.02 below normal and 0.67 inches below normal respectively. By station, rainfall totals ranged from a low of 0.00 inches at Dix Dam to a high of 3.50 inches at Williamstown for the period.

Tom Priddy

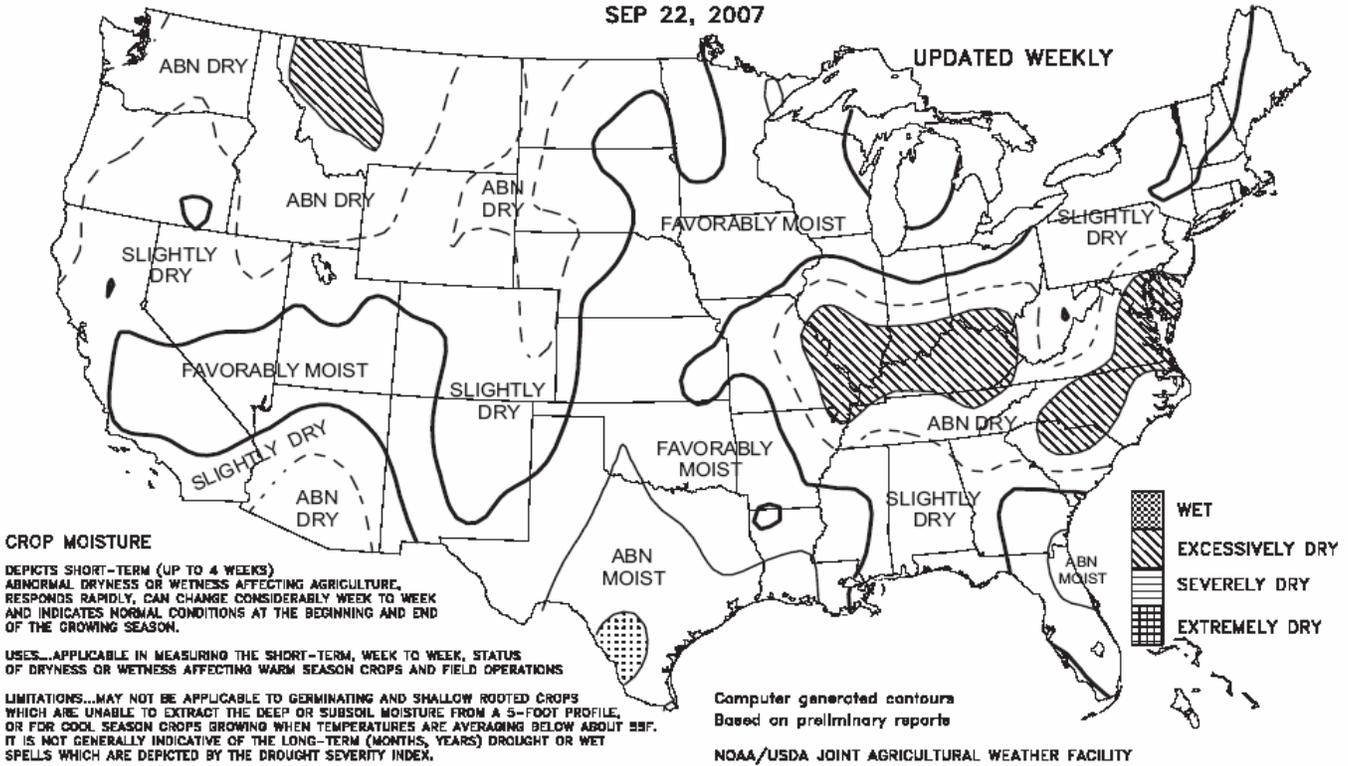
KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, SEPTEMBER 30, 7:00 P.M.

Weather Station	Rainfall			Deviation From		Air Temperature			Relative Humidity		
	Last Week	Since April 1	Last Four Wks	Norm Since Apr. 1	Norm Last 4 Wks	High	Low	Wkly Avg.	Dev. From Norm	Average	
	(Inches)					(Degrees Fahrenheit)					
Bardstown	1.13	19.98	2.08	-4.16	-0.91	94	49	72.4	+8	90	44
Berea	0.18	17.66	2.29	-7.77	-1.44	92	47	73.4	+10	80	48
Bowling Green	0.33	14.72	1.89	-10.68	-1.58	96	49	73.8	+9	90	43
Bristol	0.18	11.23	0.48	-10.26	-2.56	87	49	74.4	+11	90	41
Buckhorn Lake	0.18	12.43	1.09	-11.73	-2.33	93	49	72.1	+9	82	41
Cape Girardeau	2.53	15.97	5.39	-7.72	+2.06	88	51	71.9	+5	90	41
Campbellsville	0.53	22.24	2.48	-6.43	-1.85	93	47	72.3	+8	90	49
Covington	2.10	10.86	2.47	-11.48	-0.22	94	48	70.5	+7	86	41
Cumberland Gap	0.28	15.18	0.81	-10.65	-2.06	93	49	72.1	+9	91	42
Dix Dam	0.00	15.84	0.33	-9.06	-2.85	93	48	72.7	+9	83	43
Evansville	1.01	13.72	1.68	-8.66	-1.09	94	51	72.9	+7	86	44
Glasgow	0.38	21.59	2.69	-5.85	-0.94	94	49	73.6	+9	91	48
Grayson	0.87	18.02	1.90	-5.07	-0.67	95	47	71.4	+8	90	49
Hardinsburg	0.37	19.20	2.65	-5.97	-0.76	94	49	73.2	+9	93	55
Henderson	2.13	20.21	4.71	-3.11	+1.48	91	50	72.1	+6	86	44
Huntington	0.55	10.97	1.07	-12.26	-1.54	96	45	71.1	+8	90	43
Jackson	0.38	14.69	2.49	-10.49	-0.80	92	50	71.6	+8	79	41
Lexington	0.34	18.89	0.88	-5.25	-2.11	93	47	72.1	+9	88	45
London	0.05	13.78	0.44	-9.57	-2.81	94	44	71.0	+8	87	41
Louisville	1.05	17.95	2.24	-5.57	-0.71	93	49	71.5	+7	81	38
Mayfield	0.73	10.47	2.80	-15.25	-0.91	93	49	72.1	+6	90	49
Nashville	0.78	12.42	2.22	-11.24	-0.96	84	49	73.9	+10	91	44
Nolin Lake	0.21	19.52	2.63	-7.43	-1.31	94	49	73.5	+9	88	45
Paducah	1.37	16.69	1.99	-8.53	-1.45	92	50	73.6	+7	86	42
Princeton	0.87	16.72	3.52	-8.52	+0.41	93	50	73.6	+7	89	42
Quicksand	0.38	14.38	2.49	-10.80	-0.80	93	49	72.1	+9	90	48
Somerset	0.57	16.28	1.97	-10.19	-1.76	92	42	71.0	+8	91	41
Spindletop	0.91	17.70	1.15	-6.44	-1.84	93	48	71.5	+8	92	46
Williamstown	3.50	20.29	3.63	-3.49	+0.65	94	49	71.1	+8	90	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/>

Crop Moisture
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
SEP 22, 2007

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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