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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 14-03

AGRICULTURAL NEWS: Farmers saw sunshine throughout the week, allowing them to get into their fields for most of the week. This is a welcomed change from all of the rain we have received over the past months. Days suitable for fieldwork averaged 5.9 out of a possible seven. Topsoil moisture as of Friday, June 27 was rated 1 percent short, 91 percent adequate, and 8 percent surplus. Subsoil moisture was rated 1 percent short, 89 percent adequate, and 10 percent surplus.

CORN: The corn mostly looks good, although behind last year and the 5 year average in growth. Corn tasseling is at 25 percent as of Sunday, June 29, compared to 42 percent last year, and 40 percent for the 5 year average. Corn silking is at 11 percent, compared to 28 percent last year, and 25 percent for the 5 year average. The condition of the corn improved this week, with 1 percent very poor, 4 percent poor, 22 percent fair, 60 percent good, and 13 percent excellent.

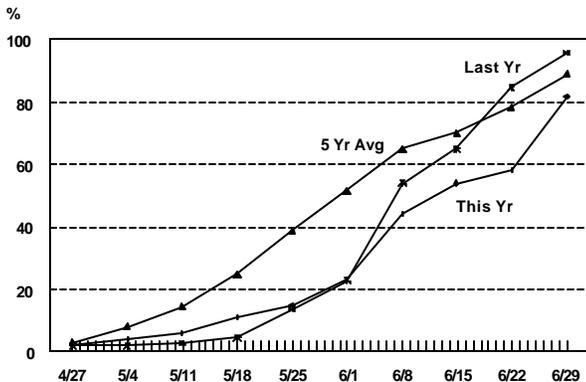
SOYBEANS: The sunshine allowed farmers to finish planting much of the remaining single crop soybeans and to plant double crop beans as wheat combining progresses. As of Sunday, June 29, about 82 percent of the crop had been planted, compared with 96 percent a year ago, and behind the 5 year average of 89 percent. Fifty-five percent of the intended soybean acres have emerged, compared with 76 percent last year, and 80 percent for the 5 year average. Average height of the emerged plants were 7.0 inches. Condition of emerged soybeans also improved and was rated 1 percent very poor, 2 percent poor, 25 percent fair, 60 percent good, and 12 percent excellent.

TOBACCO: The good weather allowed farmers to catch up on setting or resetting their tobacco. There were a few reports of disease or other problems with the tobacco, otherwise the tobacco looks good. The condition of set tobacco was reported as 1 percent very poor, 6 percent poor, 30 percent fair, 55 percent good, and 8 percent excellent. Tobacco plant growth was behind last year with 68 percent under 12 inches tall, 25 percent between 12 and 24 inches, and 7 percent over 24 inches high.

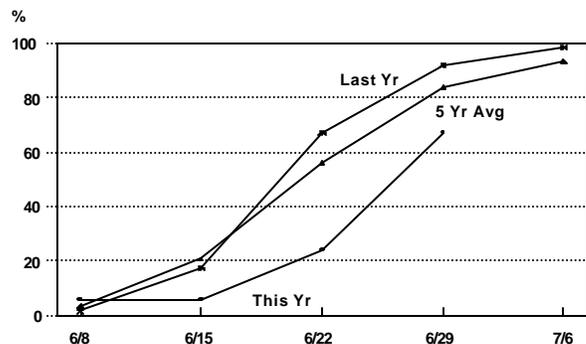
SMALL GRAINS: Small grain harvest was in full swing with little or no rain for the entire week. Barley harvest was at 96 percent complete, compared with 99 percent completed last year and the average of 98 percent. Wheat harvest was 67 percent complete compared with 92 percent completed a year ago and the average of 84 percent. Farmers reported the wheat yields and test weights were better than expected, despite the delayed harvest.

OTHER CROPS: Clipping pastures and the cutting and baling hay were one of the many farm activities this week. Pastures remain in good to excellent condition and were rated, 2 percent poor, 18 percent fair, 55 percent good, and 25 percent excellent. Grain sorghum planted was 98 percent complete, compared to 94 percent last year, and 86 percent for the average.

SOYBEAN PLANTING PROGRESS



WHEAT PERCENT HARVESTED



KENTUCKY CROP PROGRESS
WEEK ENDING JUNE 29, 2003
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
		Percentage			
Corn Tasseling	25	42	40	NA	NA
Corn Silking	11	28	25	NA	NA
Soybeans Planted	82	96	89	58	94
Sorghum Planted	98	94	86	90	84

(NA) Data Not Available.

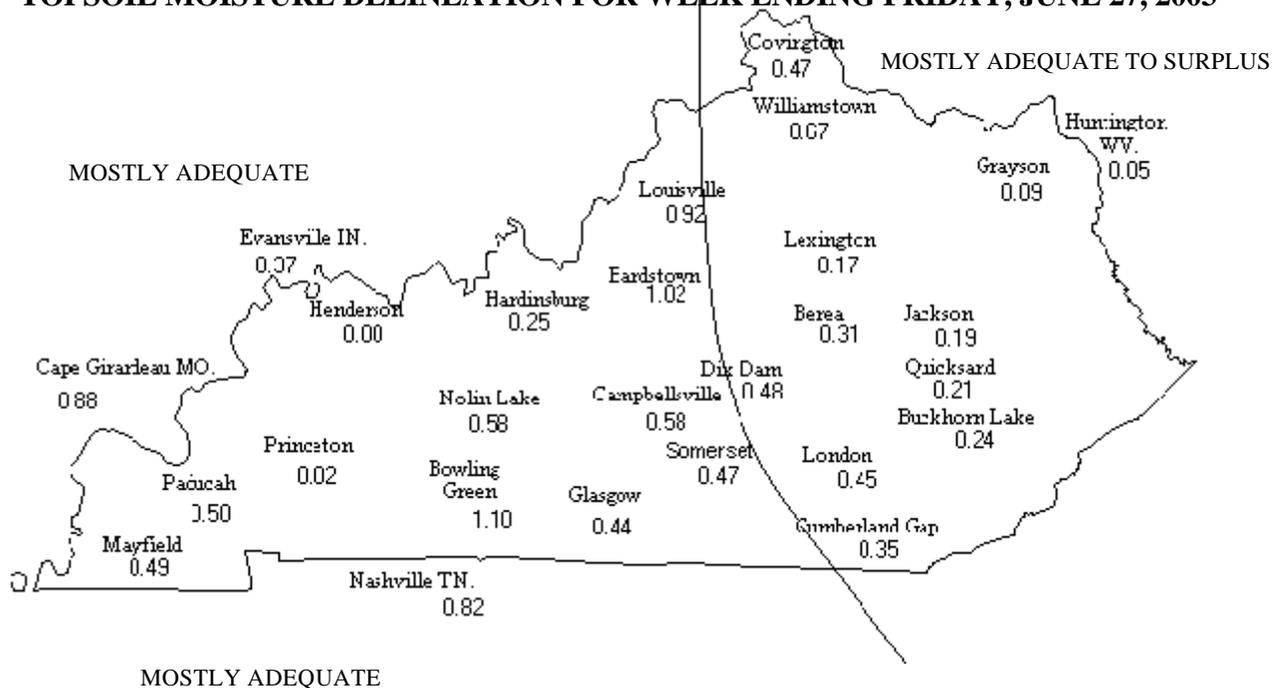
SOIL MOISTURE
WEEK ENDING JUNE 27, 2003
WITH COMPARISONS

	This Week	Previous Week
TOPSOIL		
Very Short	0	0
Short	1	0
Adequate	91	39
Surplus	8	61
SUBSOIL		
Very Short	0	0
Short	1	0
Adequate	89	45
Surplus	10	55

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING JUNE 27, 2003					WEEK ENDING JUNE 20, 2003				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn	1	4	22	60	13	3	10	31	38	18
Soybeans	1	2	25	60	12	3	5	32	51	9
Pasture	0	2	18	55	25	1	3	15	45	36
Tobacco	1	6	30	55	8	2	9	40	39	10

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JUNE 29, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JUNE 27, 2003



KENTUCKY WEATHER SUMMARY, JUNE 23 - 29, 2003:

BELOW NORMAL TEMPERATURES AND BELOW NORMAL RAINFALL:

Cooler and drier conditions dominated Kentucky weather this past week which was a significant change from the very wet conditions of the past 3 months. Mid-week high temperatures approached the 90's in Central and Eastern sections and exceeded 90 degrees in Western sections of the State. Cooler than normal temperatures occurred for the remainder of the week and light-to-moderate rainfall occurred during the end of the workweek. Preliminary analysis indicated this week wraps up the 8th wettest June and the 3rd wettest April, May and June in the past 108 years of record.

Temperatures for the period averaged 72 degrees across the State which was 2 degrees below normal but 2 degrees warmer than the previous. Last week was the 7th week straight with below normal temperatures. High temperatures averaged from 86 in the West to 83 in the East. Departure from normal high temperatures ranged from 2 degrees below normal in the West to 2 degrees below normal in the East. Low temperatures averaged from 60 degrees in the West to 60 degrees in the East. Departure from normal low temperature ranged from 5 degrees below normal in the West to 4 degrees below normal in the East.

Rainfall for the period totaled 0.43 inches statewide which was 0.46 inches below normal which was nearly 50 percent of normal rainfall and followed three weeks with above normal rainfall. Rainfall totals by climate division, West 0.38 inches, Central 0.72 inches, Bluegrass 0.37 inches and East 0.26 inches, which was 0.48, 0.20, 0.51 and 0.66 inches respectively below normal. By station, rainfall totals ranged from a low of 0.00 inches at Henderson to a high of 1.10 inches at Bowling Green.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL

FOR WEEK ENDING SUNDAY, JUNE 29, 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	1.02	18.81	5.26	+6.92	+1.84	87	55	72.6	-2	157	1351	-52
Berea	0.31	18.24	7.20	+5.35	+3.51	87	52	72.0	-2	151	1363	-71
Bowling Green	1.10	19.62	8.92	+6.33	+5.03	90	56	73.1	-2	157	1456	-7
Bristol	0.09	18.09	5.98	+7.47	+2.68	87	52	71.6	-3	148	1299	-14
Buckhorn Lake	0.24	19.44	7.40	+7.57	+3.53	86	57	70.9	-3	145	1306	+51
Cape Girardeau	0.88	18.66	5.20	+5.69	+1.96	95	56	74.0	-3	159	1410	-113
Campbellsville	0.58	17.70	6.93	+3.75	+3.05	89	54	72.7	-2	153	1457	+52
Covington	0.47	11.96	2.75	+0.22	-0.83	86	53	71.1	-3	146	1154	-100
Cumberland Gap	0.35	18.73	5.65	+5.72	+1.67	87	55	71.9	-2	150	1353	+69
Dix Dam	0.48	19.23	6.55	+6.72	+3.12	87	56	72.4	-2	155	1339	-64
Evansville	0.37	12.53	2.60	+0.39	-0.66	91	56	73.1	-4	155	1331	-102
Glasgow	0.44	17.80	7.50	+3.74	+3.21	91	55	73.9	-1	158	1535	+161
Grayson	0.09	19.04	5.68	+7.44	+2.10	88	55	71.7	-2	149	1278	+84
Hardinsburg	0.25	16.75	3.78	+3.91	+0.24	92	54	72.5	-2	153	1377	-86
Henderson	0.00	16.45	4.45	+3.98	+0.91	91	35	71.5	-5	150	1393	-70
Huntington	0.05	18.76	5.18	+7.32	+1.73	88	54	71.4	-3	146	1268	-16
Jackson	0.19	18.17	7.53	+5.90	+3.96	86	57	71.2	-3	146	1258	+3
Lexington	0.17	18.87	6.42	+6.98	+3.00	88	57	72.7	-1	156	1269	-14
London	0.45	19.76	7.52	+8.08	+4.14	87	54	70.3	-4	140	1286	+2
Louisville	0.92	17.18	3.46	+4.99	+0.23	90	56	73.3	-2	159	1342	-91
Mayfield	0.49	15.08	4.32	+1.76	+1.17	89	54	72.1	-5	151	1341	-183
Nashville	0.82	15.13	3.88	+2.43	+0.55	90	61	75.4	+0	171	1541	-12
Nolin Lake	0.58	18.09	6.30	+4.29	+2.64	91	55	73.2	-2	158	1452	+107
Paducah	0.50	17.24	5.05	+3.38	+1.27	93	56	73.9	-3	159	1456	-67
Princeton	0.02	16.85	5.05	+3.37	+1.46	94	56	74.8	-2	165	1476	-17
Quicksand	0.21	23.98	11.91	+11.71	+8.34	86	57	71.1	-3	146	1318	+63
Somerset	0.47	22.42	10.34	+8.90	+6.38	88	53	70.8	-3	142	1359	-15
Spindletop	0.12	14.67	4.85	+2.78	+1.43	87	57	71.9	-2	151	1228	-55
Williamstown	0.67	12.29	3.57	+0.09	+0.05	89	55	72.7	-1	155	1308	+25

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/>

DEFINITIONS OF PHENOLOGICAL STAGES USED IN SUBSEQUENT RELEASES

CORN PHENOLOGICAL STAGES:

- Silking* - The emergence of silk like strands from the end of ears. Occurs approximately 10 days after the tassel first begins to emerge from the sheath or 2-4 days after the tassel is emerged.
- Dough* - Normally half of the kernels are showing dent with some thick or dough like substance in all kernels.
- Dent* - Occurs when all kernels are fully dented and the ear is firm and solid. There is no milk present in most kernels.
- Mature* - Plant is considered safe from frost. Corn is about ready to harvest with shucks opening and there is no green foliage present.

SOYBEAN PHENOLOGICAL STAGES:

- Blooming* - A plant should be considered as blooming as soon as one bloom appears.
- Setting Pods* - Pods are developing on the lower nodes with some blooming still occurring on the upper nodes.
- Dropping Leaves* - Leaves near the bottom of the plant are yellow and dropping, while leaves at the very top may still be green. Leaves are 30-50 percent yellow.

SORGHUM PHENOLOGICAL STAGES:

- Headed* - The head is present, visible and fully emerged.
- Coloring* - The head is turning color from green to reddish brown or white. Leaves are also turning yellow or brown.
- Mature* - Grains readily part from the head and are tough and not easily crushed by the thumbnail.

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.
