



KENTUCKY WEEKLY CROP & WEATHER REPORT



Kentucky Agricultural Statistics Service
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Prepared 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, State Statistician

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MJH 9-02

AGRICULTURAL NEWS: Rain continued to slow field activities as fields continued to be generally too wet for planting and setting. Bottom lands of the major rivers in the State were flooded as well as smaller tributaries. Farmers continue to be anxious to get into their field, to set tobacco and plant corn, while some considering alternatives for corn if condition does not improve soon. **Topsoil moisture** as of Friday May 17 was 27 percent adequate and 73 percent surplus. **Subsoil moisture** was 1 percent short, 33 percent adequate and 66 percent surplus. Days suitable for fieldwork averaged 1.7 out of a possible 7 days.

CORN: Planting of corn continued to be slowed by wet conditions. As of Sunday, May 19, farmers had planted 55 percent of their intended corn acreage, down from 97 percent last year at this time and the 5 year average of 84 percent. Emerged corn as of Sunday was 47 percent. Compared to a year earlier 91 percent of the corn acreage had emerged and the 5 year average was 68 percent. Average height of the emerged corn was 7 inches with the most advanced fields 10 inches tall. As of Friday, the emerged crop condition was 3 percent very poor, 12 percent poor, 30 percent fair, 44 percent good and 11 percent excellent. Little insect damage had been reported to date. Some farmers are starting to consider plans to plant something in place of corn if planting doesn't progress in a speedy manner.

TOBACCO: Farmers were setting their burley and dark tobacco as soil conditions permitted. As of Sunday, farmers in Kentucky had set 10 percent of their intended **burley** acreage, behind the 35 percent last year and the 5 year average of 26 percent. Farmers had set 7 percent of their **dark tobacco**. A year earlier 48 percent had been set with

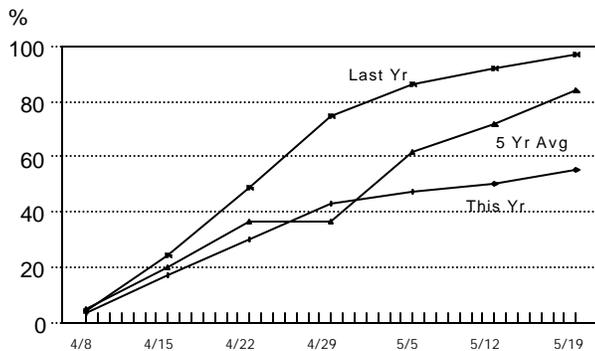
a 5 year average of 29 percent. Plants are getting large and farmers are having to mow the tops of their plants in their greenhouses and beds to reduce their height. Condition of the set tobacco crop was 2 percent very poor, 7 percent poor, 34 percent fair, 52 percent good and 5 percent excellent.

SOYBEANS: Some soybeans had been planted and as of Sunday, 5 percent had been seeded, behind the 56 percent last year and the 5 year average of 29 percent. Three percent of the crop had emerged.

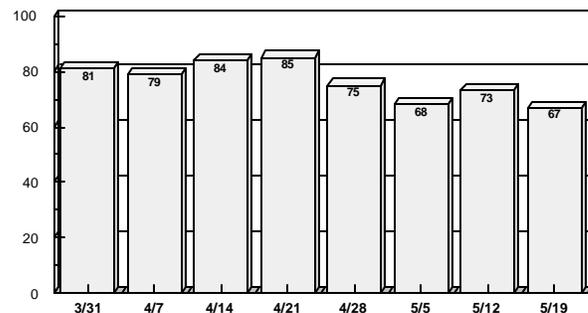
SMALL GRAINS: The **winter crop** continued to develop. With the recent rains some scattered lodging has occurred. No disease or insect problems had been reported to date. The earliest date farmers expect wheat harvest to begin is June 13th. Condition of the winter wheat crop was 2 percent very poor, 7 percent poor, 24 percent fair, 54 percent good and 13 percent excellent. Harvest of the **barley** crop was expected to begin on about June 2.

OTHER CROPS: Harvesting of **alfalfa hay** was slowed by rain and poor curing weather. A few farmers reported putting up some dry hay but more farmers reported their cut hay being rained on prior to baling. As farmers delay harvesting their hay and or having it rained on prior to baling and storing, quality deteriorates. Hay condition in the field was 1 percent very poor, 4 percent poor, 18 percent fair, 56 percent good and 21 percent excellent. **Pastures** continue to be in good to excellent condition. As of Friday pasture was 1 percent very poor, 2 percent poor, 13 percent fair, 56 percent good and 28 percent excellent. **Grain sorghum** was 1 percent planted.

CORN PLANTING PROGRESS



WHEAT CONDITION
% Good to Excellent



KENTUCKY CROP PROGRESS
WEEK ENDING MAY 19, 2002
WITH COMPARISONS

SOIL MOISTURE
WEEK ENDING MAY 17, 2002
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week	
				KY	U.S.
Percentage					
Corn					
Planted	55	97	84	50	62
Emerged	47	91	68	46	21
Soybeans					
Planted	5	56	29	3	17
Emerged	3	38	15	1	3
Sorghum					
Planted	1	58	28	1	30
Burley Tobacco Set	10	35	26	4	NA
Dark Tobacco Set	7	48	29	4	NA

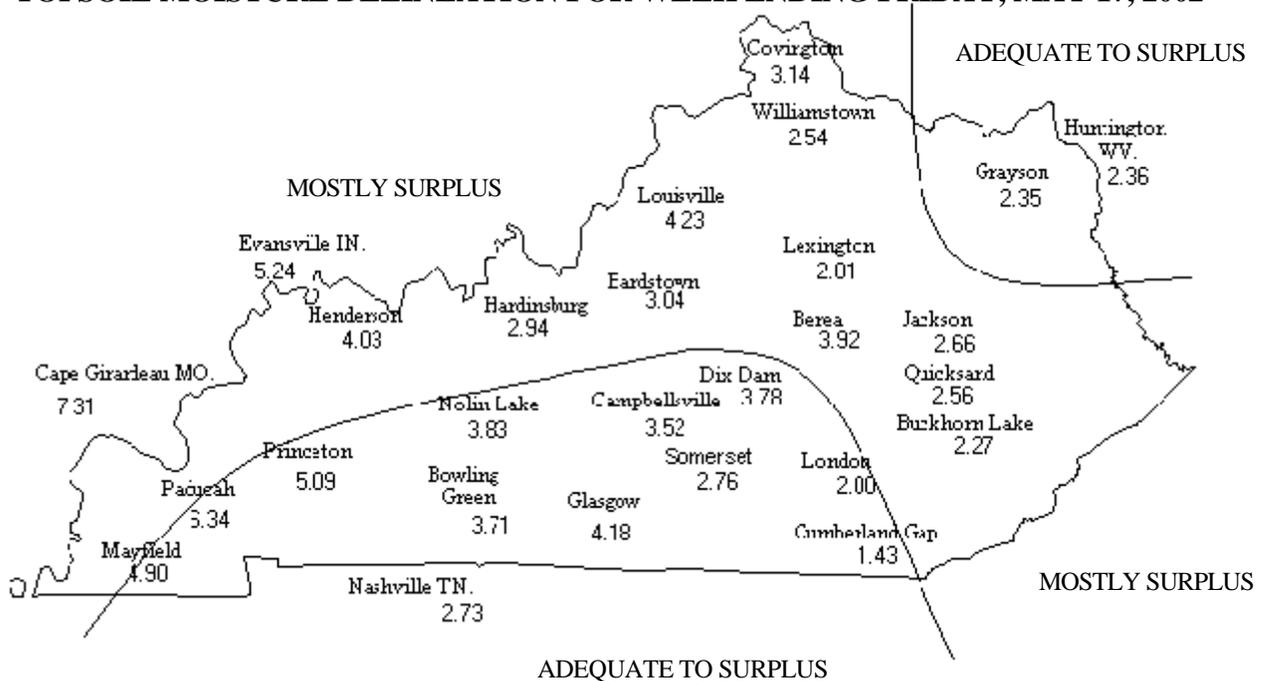
	This Week	Previous Week
TOPSOIL		
Very Short	0	0
Short	0	1
Adequate	27	31
Surplus	73	68
SUBSOIL		
Very Short	0	0
Short	1	1
Adequate	33	39
Surplus	66	60

(NA) Data Not Available.

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING MAY 17, 2002					WEEK ENDING MAY 10, 2002				
	VERY POOR	POOR	FAIR	GOOD	EXCELLENT	VERY POOR	POOR	FAIR	GOOD	EXCELLENT
Corn Emerged	3	12	30	44	11	1	12	25	46	16
Wheat	2	7	24	54	13	1	5	21	57	16
Pasture	1	2	13	56	28	0	1	13	59	27
Hay Crops	1	4	18	56	21	1	5	17	56	21
Tobacco Set	2	7	34	52	5	2	10	46	32	10

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, MAY 19, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, MAY 17, 2002



KENTUCKY WEATHER SUMMARY, MAY 13 - 19, 2002:

BELOW NORMAL TEMPERATURES AND MUCH ABOVE NORMAL RAINFALL:

Unseasonably cool and very wet conditions dominated the Bluegrass State this past 7 days with record and near record low temperature resulting in light, patchy frost across much of the State on Sunday morning (May 19). Temperatures for the period averaged 57 degrees across the State which was 9 degrees BELOW normal and 11 degrees cooler than the previous week. High temperatures averaged from 70 in the West to 67 in the East. Departure from normal high temperatures ranged from 11 degrees BELOW normal in the West to 9 degrees BELOW normal in the East. Low temperatures averaged from 48 degrees in the West to 47 degrees in the East. Departure from normal low temperature ranged from 9 degrees BELOW normal in the West to 9 degrees BELOW normal in the East. Extreme high temperatures were in the low 80's and extreme low temperatures were at record and near record level in the low 30's

Rainfall for the period totaled 3.57 inches statewide which was 2.51 inches ABOVE normal. Rainfall totals by climate division, West 5.49 inches, Central 3.65 inches, Bluegrass 2.86 inches and East 2.30 inches, which was 4.38, 2.55, 1.84 and 1.29 inches respectively ABOVE normal. By station, rainfall totals ranged from a low of 1.43 inches at Cumberland Gap to a high of 6.34 inches at Paducah. Unofficial rainfall reports indicated greater than 8 inches south of the Henderson County area. Rainfall totals for the State received since April 1 was 10.98 inches or 3.77 inches ABOVE normal (152 percent of normal) with many West and Central locations reporting greater than 15 inches of rainfall. For 2001 for the same same time period, 4.34 inches was received which was 2.87 inches BELOW normal (60 percent of normal).

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL FOR WEEK ENDING SUNDAY, MAY 19, 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	3.04	14.32	11.83	+7.70	+7.93	77	42	58.1	-8	70	629	+44
Berea	3.92	13.70	12.83	+6.49	+8.60	81	34	58.3	-7	74	681	+77
Bowling Green	3.71	12.35	6.93	+5.00	+2.61	79	36	58.1	-8	70	653	+49
Bristol	0.58	3.26	3.03	-2.43	-0.35	79	35	57.1	-8	67	643	+107
Buckhorn Lake	2.27	8.15	7.09	+1.88	+3.45	77	36	56.3	-9	61	603	+67
Cape Girardeau	7.31	18.71	14.08	+11.10	+9.57	77	40	59.4	-9	75	659	+36
Campbellsville	3.52	10.88	9.46	+2.96	+4.86	82	34	59.1	-7	81	692	+88
Covington	3.14	12.67	8.22	+6.30	+4.47	77	30	53.1	-12	45	477	-29
Cumberland Gap	1.43	5.61	5.02	-1.42	+0.85	79	37	57.8	-8	70	643	+107
Dix Dam	3.78	13.13	11.53	+6.00	+7.36	75	36	57.1	-8	66	623	+38
Evansville	5.24	17.10	12.14	+10.17	+8.02	75	37	57.4	-11	65	602	+28
Glasgow	4.18	9.50	8.32	+1.85	+3.85	83	34	60.4	-6	91	751	+207
Grayson	2.35	9.38	7.41	+3.14	+3.71	77	34	57.1	-8	67	579	+92
Hardinsburg	2.94	13.14	8.78	+5.85	+4.50	77	36	57.1	-9	66	625	+21
Henderson	4.03	16.47	12.62	+9.42	+8.55	76	37	58.1	-10	74	655	+51
Huntington	2.36	9.47	7.25	+3.26	+3.56	78	34	57.6	-8	73	577	+41
Jackson	2.66	9.23	7.97	+2.38	+3.99	77	36	56.1	-9	59	598	+62
Lexington	2.01	9.02	7.63	+2.40	+3.73	75	32	54.7	-11	53	544	+38
London	2.00	7.58	6.63	+1.05	+2.84	78	35	56.4	-9	64	588	+52
Louisville	4.23	12.96	9.82	+5.90	+5.72	78	35	56.4	-10	61	592	+18
Mayfield	4.90	11.80	8.50	+3.68	+3.91	77	36	57.4	-11	67	617	-36
Nashville	2.73	8.14	7.71	+0.78	+3.41	81	43	61.0	-6	86	719	+66
Nolin Lake	3.83	12.53	7.67	+4.64	+2.95	79	36	57.6	-9	67	635	+50
Paducah	6.34	15.71	12.74	+7.67	+8.21	79	39	59.1	-10	76	670	+47
Princeton	5.09	12.87	8.86	+5.03	+4.38	78	37	60.9	-8	93	761	+127
Quicksand	2.56	8.95	7.74	+2.10	+3.76	77	36	55.9	-10	59	603	+67
Somerset	2.76	9.42	7.91	+1.96	+3.50	78	35	57.6	-8	73	620	+35
Spindletop	1.76	8.55	6.65	+1.93	+2.75	75	34	54.0	-11	53	527	+21
Williamstown	2.54	9.83	8.32	+2.98	+4.37	78	31	54.6	-11	60	591	+85

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr1 Weather Center (859)257-3000 ext 245. E-mail: tpriddy@ca.uky.edu Additional Ky weather data available on Internet at: <http://www.wagwx.ca.uky.edu/>

A GUIDE TO GROWING DEGREE DAYS

For the 2002 growing season, the Kentucky Agricultural Statistics Service in cooperation with the National Weather Service will provide weekly accumulated growing degree days (GDD) data.

These GDD are calculated according to the definition:

$$\text{GDD} + = \frac{\text{Daily Max } (\leq 86^\circ \text{ F}) + \text{Daily Min } (\geq 50^\circ \text{ F})}{2} - 50^\circ \text{ F}$$

Maximum temperatures above 86°F are entered as 86° and minima below 50° are entered as 50°. This modification is designed to take into account the differing response of plants to quite high or quite low temperatures. There are several methods of calculating GDD, but the above formula is most widely accepted. This adjusted 50°F method of calculating GDD has been adopted by the Hybrid Seed Corn Industry as a basis for a uniform maturity rating system.

At 50°F corn grows hardly at all. As the temperature rises up to the range of 80° to 86°F, corn grows faster if moisture is adequate. When the temperature rises above 86°F the roots have increasing difficulty taking in water fast enough to keep plant cells turgid (full of water) and working at top speed. When soil moisture is short, the optimum temperature is less than 80°F. With perfect moisture supply the optimum temperature is likely 90° to 95°F.

The concept of growing degree days is still under study and refinement. In its short existence growing degree days has proven to be a much better gauge for rating corn maturity than the old "days of maturity" rating. The use and importance of GDD will improve as information is collected over the years.

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, send an E-Mail message to nass-state-releases@news.usda.gov with the following command in the body of the message: **subscribe ky-crop-weather <e-mail address>**. The E-Mail address is optional; leave the address blank unless subscribing for someone else. The default address is where you sent the message from. You would unsubscribe in a similar way but use the word unsubscribe.

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KENTUCKY AGRICULTURAL STATISTICS SERVICE
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Corn Percent Planted Week Ending May 12, 2002

State	May 12 2002	Prev Week	Prev Year	5-Yr Avg
CO	63	44	61	66
IL	51	30	96	78
IN	11	10	98	69
IA	86	53	65	80
KS	87	70	88	81
KY	50	47	92	72
MI	41	17	68	57
MN	78	56	26	76
MO	77	74	85	72
NE	79	55	72	74
NC	98	92	97	90
ND	40	27	28	44
OH	17	11	91	70
PA	52	30	64	48
SD	64	33	21	42
TN	93	86	98	89
TX	96	86	90	89
WI	35	19	44	60
ALL	62	42	71	72

These 18 States planted 93% of last year's corn acreage.

Soybean Percent Planted Week Ending May 12, 2002

State	May 12 2002	Prev Week	Prev Year	5-Yr Avg.
AR	27	20	42	24
IL	10	1	66	37
IN	3	2	76	41
IA	30	7	12	29
KS	22	11	31	23
KY	3	2	41	16
LA	38	28	71	49
MI	20	7	43	22
MN	24	*6	4	36
MS	63	55	83	56
MO	13	11	23	20
NE	19	10	16	21
NC	20	8	11	12
ND	2	1	3	11
OH	6	5	70	44
SD	10	*3	3	12
TN	15	7	24	10
WI	20	8	15	21
ALL	17	7	34	29

These 18 States planted 95% of last year's soybean acreage.
*Revised.

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