

ILLINOIS WEATHER & CROPS



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CROP HI-LITES

*** Corn - 85% mature (safe from frost)
 4% harvested

*** Soybeans - 86% turning yellow
 60% shedding leaves
 5% harvested

*** Soil Moisture - 15% short
 67% adequate
 18% surplus

Eighty-five percent of the CORN crop was mature (safe from frost) on Sunday, September 19, compared to 55% last year and the 5-year average (1977-81) of 79%. Four percent of the corn has been harvested compared to 3% last year and an average of 5%. Harvest was delayed by general rainfall last week, especially in the southern half of the State.

Eighty-six percent of the SOYBEANS was turning yellow on September 19, compared to 65% last year and an average of 77%. Sixty percent of the crop was shedding leaves compared to 34% last year and an average of 51%. Five percent of the soybean crop has been harvested compared to 2% last year and an average of 5%. Harvest was delayed by last week's rainfall, but harvest should progress this week if favorable weather is received.

A few fields for the 1983 WINTER WHEAT crop in Illinois have been seeded as of September 19, but Statewide less than 1%. This compares to 3% last year and an average of 3%.

PASTURES on Friday, September 17, were reported as 18% excellent, 65% good and 17% fair.

SOIL MOISTURE was reported as 15% short, 67% adequate and 18% surplus on September 17.

There were 4.75 DAYS SUITABLE FOR FIELDWORK for the week ending September 17.

WEATHER

TEMPERATURES for the period of September 13 thru 19 averaged from 1 to 3 degrees above normal throughout the State as a warm trend continued for the second straight week. Maximum readings climbed into the 80's in the North and 90's in the South before a cool trend developed during the second half of the week. Minimum temperatures fell into the 40's in the North setting a few new record lows.

PRECIPITATION amounts were moderate in the North and heavy in the southern half of the State. Amounts ranged from .50 to .80 of an inch in the North and 1 to 3 inches in the South.

The OUTLOOK for the period of September 21 thru 27 is for temperatures to be below normal and precipitation to be near normal.

SOIL MOISTURE MEASUREMENTS

The Illinois State Water Survey reports that soil moisture in a moderately well-drained Flanagan soil near Bondville (Champaign County) decreased during the week prior to September 13 although the surface layer showed the effects of a rain the morning that the measurements were made. No rain fell at the Bondville site during the week until Monday morning, September 13, when a slow rain amounting to 0.22 inch was received. Between the surface and 4 inches, the Potential Plant Available Moisture (PPAM) increased from 36% to 41% of PPAM. Between 4 and 12 inches, the PPAM decreased from 17% to 9% while the layer from 12 to 20 inches decreased from 24% to 22% of PPAM. Also, soil moisture from the surface to about 7 feet decreased from 58% of PPAM to 55%.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Soybeans: % turning yellow (as of Sept. 19)	90	90	85	90	95	75	85	85	85	86	77
Days suitable for fieldwork: (week ending Sept. 17)	5.5	6.0	4.5	5.5	5.5	3.5	3.5	4.0	3.0	4.75	
Soil moisture %: (as of Sept. 17)											
Short	15	55	--	10	45	--	10	--	--	15	
Adequate	75	45	85	90	55	70	70	20	80	67	
Surplus	10	--	15	--	--	30	20	80	20	18	

Illinois Weather & Crops
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ILLINOIS WEATHER

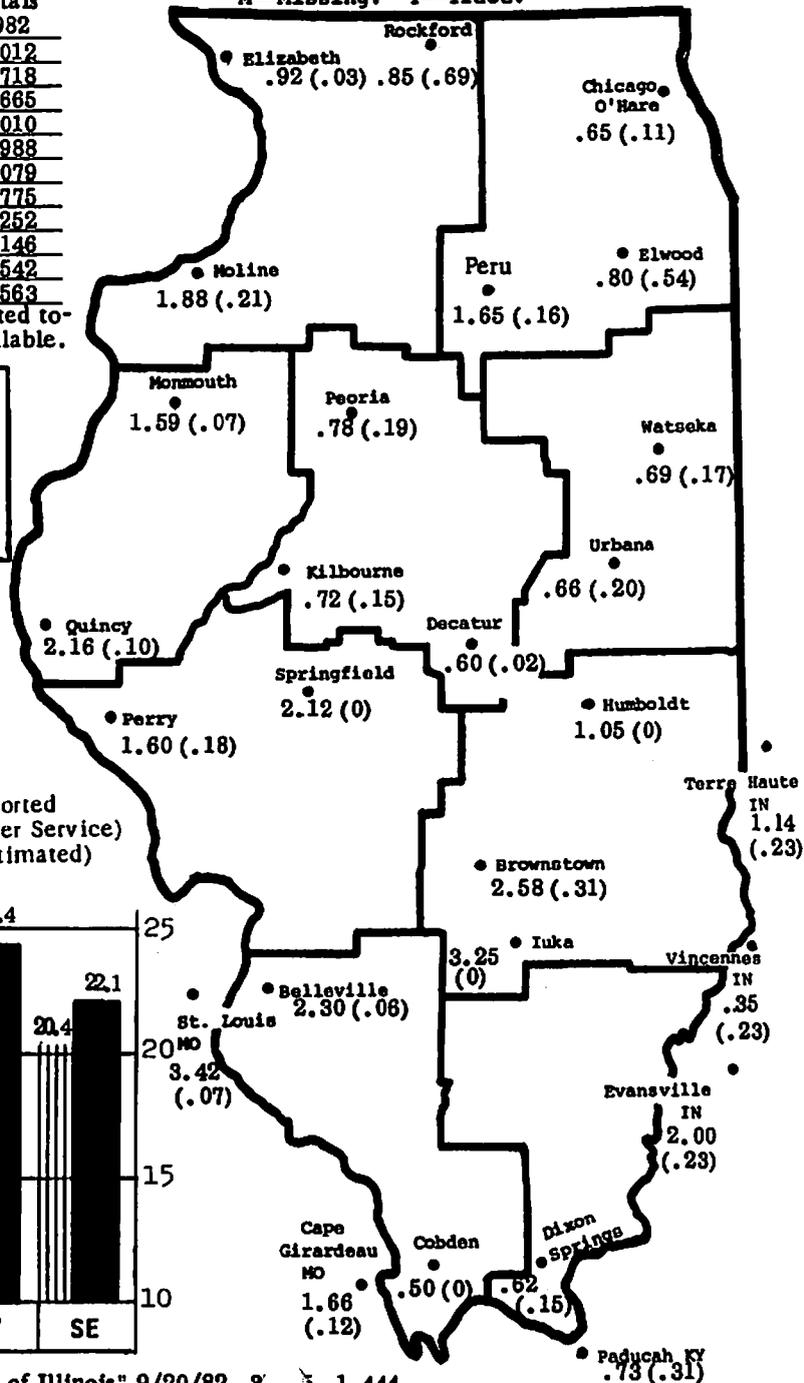
MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	June	July	July 27- Aug. 2	Aug. 3- 9	Aug. 10- 16	Aug. 17- 23	Aug. 24- 30	Aug. 31- Sept. 6	Sept. 7- 13	Sept. 14- 20
Chicago	-6	+2	+3	+4	-5	+1	-4	0	+3	+3
Peoria	-4	+2	0	+5	-6	0	-3	+1	+3	+3
Springfield	-5	+1	-1	+6	-6	0	-4	+1	+4	+4
St. Louis	-4	0	0	+6	-7	0	-3	0	+3	+3

Station	Week ending Monday, 6 A.M., Sept. 20									
	Temperatures			Growing degree days 1/						
	Maxi- mum	Mini- mum	Aver- age	Current week	3-yr. av. 2/	Totals 1981	Totals 1982			
Moline	85	44	63.1	99	3038	2967	3012			
Rockford	82	41	59.8	83	2772	2767	2718			
Chl. O Hare	80	45	62.3	93	2845	2806	2665			
Quincy	80	47	64.4	103	3317	3104	3010			
Decatur	85	46	66.5	117	3168	3052	2988			
Peoria	83	45	64.2	104	3127	3198	3079			
Watseka	89	42	65.1	112	3/	2808	2775			
Springfield	85	44	68.8	135	3350	3383	3252			
Brownstown	85	49	67.1	121	3/	3400	3146			
St. Louis	83	54	67.9	125	3481	2967	3542			
Dixon Springs	90	49	71.1	145	3/	3676	3563			

1/ Totals are accumulated from April 1. 2/ Average of accumulated totals for 1979, 1980 and 1981. 3/ Previous years' data are not available.

PRECIPITATION:
First figure--Current week, Sept. 14-20
Parentheses--Previous week
M--Missing. T--Trace.



Growing degree days (GDD's) are calculated by subtracting a 50-degree (F) base temperature from the average of the maximum and minimum temperatures for the day. The daily maximum temperature is limited to 86 degrees (F) and daily minimum to 50 degrees (F). Thus, if the mean temperature for the day is 75 degrees, then 25 GDD's will have been accumulated.

ACCUMULATED PRECIPITATION (Inches)

LEGEND: Normal | Actual
April 1-Aug. 31 | April 1-Sept. 20
April 1-July 31 (reported by National Weather Service)
Aug. 1-Sept. 20 (estimated)

