

ILLINOIS WEATHER & CROPS



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CROP HI-LITES

*** Corn - 88% dough, 55% dented
*** Soybeans - 89% setting pods, 5% turning yellow
*** Soil Moisture - 40% short
60% adequate
0% surplus

CORN condition on Friday, August 20, was reported as 49% excellent, 49% good and 2% fair. Eighty-eight percent of the corn crop was in the dough stage on Sunday, August 22, compared to 81% last year and the 5-year average (1977-81) of 85%. Fifty-five percent of the crop is dented compared to 41% last year and an average of 50%. Five percent of the crop is mature compared to 1% last year and an average of 15%.

SOYBEANS on August 20 were reported as 28% in excellent condition, 64% good and 8% fair. Eighty-nine percent of the soybeans were setting pods on August 22 compared to 82% last year and an average of 88%. Five percent of the crop was turning yellow compared to 2% last year and an average of 4%.

ALFALEA HAY was reported as 16% excellent, 79% good and 5% fair on August 20. About 57% of the third crop was cut by August 22 compared to 61% last year and an average of 52%.

PASTURES on August 20 were reported as 18% excellent, 59% good, 21% fair and 2% poor.

SOIL MOISTURE was reported as 40% short and 60% adequate on August 20.

There were 6.50 DAYS SUITABLE FOR FIELDWORK for the week ending August 20.

WEATHER

TEMPERATURES for the period of August 16 thru 22 averaged near normal as they ran from 2 degrees below normal to 1 degree above normal throughout the State. Maximum readings again climbed into the 90's in central and southern sections of the State.

PRECIPITATION amounts were light in most areas. Amounts ranged from a trace to .49 of an inch. Some areas recorded no rainfall.

The OUTLOOK for the period of August 23 thru 30 is for temperatures to be below normal and precipitation to be above 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 August 16. Soil moisture from the surface to about 7 feet decreased from 60% of Potential Plant Available Moisture (PPAM) to 57% of PPAM. In that same week the top 4 inches went from 24% to 13% of PPAM. Precipitation during the week prior to the measurement amounted to 0.16 inch.

Soil moisture was measured at the following locations in Illinois on August 10-12:

Site	County	Inches of Soil Moisture	
		Soil Moisture surface to 20"	Change from late July
Freeport	Stephenson	5.3	+0.5
Shabbona	De Kalb	6.0	-0.4
Monmouth	Warren	5.8	No change
Appleton	Knox	5.0	-0.2
Perry	Pike	4.8	-0.2
Topeka	Mason	2.4	-0.3
Bondville	Champaign	3.8	-0.4
Springfield	Sangamon	5.7	+0.7
Brownstown	Fayette	4.6	-1.4
Belleville	St. Clair	4.8	-0.1
Rend Lake	Jefferson	4.0	*
Olney	Richland	2.9	-0.6
Dixon Springs	Pope	4.7	-0.3

* New site.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % dented (as of August 22)	50	40	60	65	50	60	60	65	65	55	50
Alfa: % 3rd crop cut of August 22)	50	55	60	55	45	50	70	80	75	57	52
Days suitable for fieldwork:(week ending Aug. 20)	7.0	7.0	6.5	6.0	6.5	6.5	6.5	6.5	7.0	6.50	
Soil moisture %:											
(as of Aug. 20) Short	40	35	10	30	45	25	60	55	100	40	
Adequate	60	65	90	70	55	75	40	45	--	60	
Surplus	--	--	--	--	--	--	--	--	--	--	

Weather & Crops
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ILLINOIS WEATHER

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	May	June	June 29- July 5	July 6- 12	July 13- 19	July 20- 26	July 27- Aug. 2	Aug. 3- 9	Aug. 10- 16	Aug. 17- 23
Chicago	+6	-6	-3	+3	+7	+3	+3	+4	-5	+1
Peoria	+7	-4	0	+2	+4	+2	0	+5	-6	0
Springfield	+7	-5	0	+2	+4	+1	-1	+6	-6	0
St. Louis	+6	-4	0	+2	+2	+2	0	+6	-7	0

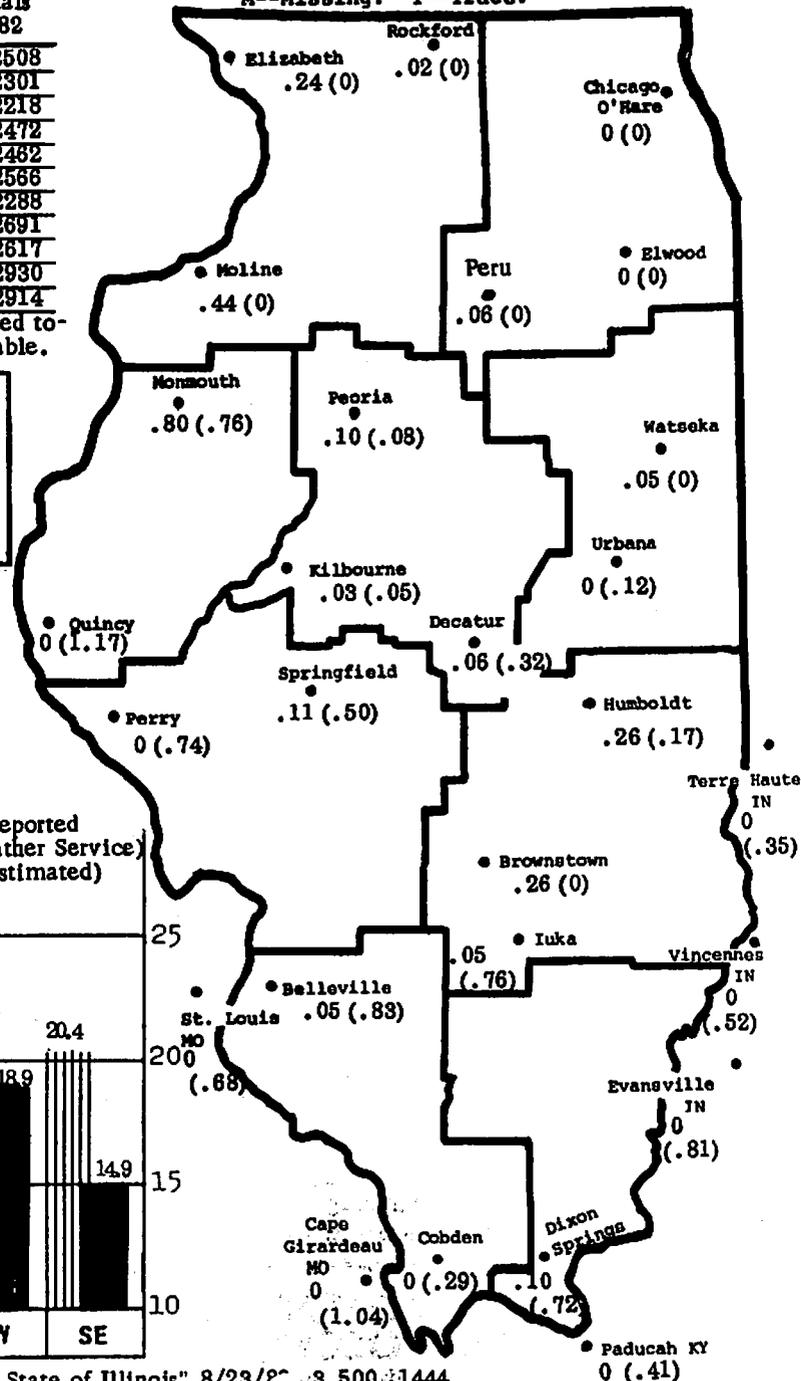
Week ending Monday, 6 A.M., August 23

Station	Temperatures			Growing degree days 1/		
	Maxi- mum	Mini- mum	Aver- age	Current year	3-yr. av. 2/	Totals 1981 : 1982
Moline	89	55	74.3	168	2494	2459 2508
Rockford	86	52	70.1	139	2262	2283 2301
Chi. O'Hare	88	53	72.2	153	2299	2317 2218
Quincy	85	59	73.9	167	2718	2590 2472
Decatur	84	55	70.9	146	2600	2546 2482
Peoria	88	57	73.4	161	2545	2646 2566
Watseka	86	49	69.6	137	3/	2318 2288
Springfield	88	57	73.5	161	2744	2807 2691
Brownstown	87	55	72.4	156	3/	2852 2617
St. Louis	89	61	76.1	180	3055	3064 2930
Dixon Springs	90	54	74.4	165	3/	3085 2914

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

Growing degree days (GDD's) are calculated by subtracting a 50-degree (F) base temperature from the average of the maximum 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.

PRECIPITATION:
First figure--Current week, August 17-23
Parentheses--Previous week
M--Missing. T--Trace.



ACCUMULATED PRECIPITATION (Inches)

LEGEND: Normal | Actual

April 1-August 31 | April 1-August 23

April 1-June 30 (reported by National Weather Service) | July 1-Aug. 23 (estimated)

