

# ILLINOIS

# WEATHER & CROPS



## ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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### CROP HI-LITES

- \*\*\* Corn - 85% dented, 25% mature
- \*\*\* Soybeans - 38% turning yellow  
10% shedding leaves
- \*\*\* Soil Moisture - 11% short  
78% adequate  
11% surplus

CORN condition on Friday, September 3, was reported as 40% excellent, 57% good and 3% fair. Eighty-five percent of the corn crop was dented on Sunday, September 5, compared to 68% last year and the 5-year average (1977-81) of 80%. Twenty-five percent of the crop is mature (safe from frost), compared to 15% last year and an average of 42%.

SOYBEANS on September 3 were reported as 26% in excellent condition, 68% good and 6% fair. Thirty-eight percent of the soybeans was turning yellow on September 5 compared to 17% last year and an average of 32%. Ten percent of the crop was shedding leaves compared to 4% last year and an average of 10%.

ALFALFA HAY was reported as 19% excellent, 73% good and 8% fair on September 3. About 74% of the third crop was cut by September 5 compared to 74% last year and an average of 73%.

PASTURES on September 3 were reported as 19% excellent, 65% good, 15% fair and 1% poor.

SOIL MOISTURE was reported as 11% short, 78% adequate and 11% surplus on September 3.

There were 4.25 DAYS SUITABLE FOR FIELDWORK for the week ending September 3.

### WEATHER

TEMPERATURES for the period of August 31 thru September 6 averaged from normal to 3 degrees below normal throughout the State. This was the second straight week of below normal readings in many sections. A warm trend in the beginning of the week sent maximum readings into the 90's in the extreme southern sections. However, a cool period developed at the end of the week with minimum temperatures falling into the 40's in the northern section. A few new minimum temperature records were set in this area.

PRECIPITATION amounts were moderate to heavy in most areas as amounts ranged from .30 of an inch to more than 3 inches. The South again recorded the heaviest rainfall.

The OUTLOOK for the period of September 7 through 13 is for temperatures 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) increased slightly during the week prior to August 30. Soil moisture from the surface to about 7 feet increased from 54% of Potential Plant Available Moisture (PPAM) to 55%. Between the surface and 4-inch depth, the moisture increased from 19% of PPAM to 46%. Between 4 and 12 inches, the increase was minor, staying near 5% of PPAM. From the 12 to 20-inch depth, the PPAM increased slightly from 19% to 20%. Precipitation during the week prior to the measurement on August 30 amounted to 0.62 inch.

### 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 Sept. 5)	75	75	86	92	90	88	92	92	92	85	80
Soybeans: % turning yellow (as of Sept. 5)	30	30	30	40	45	30	45	45	40	38	32
Alfalfa: % 3rd crop cut (as of Sept. 5)	65	65	70	80	80	80	92	93	93	74	73
Days suitable for fieldwork: (week ending Sept. 3)	5.0	5.5	3.0	4.0	6.5	4.0	3.0	3.5	4.0	4.25	
Soil moisture %: (as of Sept. 3)											
Short	20	20	--	20	10	--	--	--	30	11	
Adequate	80	80	75	60	90	90	90	65	70	78	
Surplus	--	--	25	20	--	10	10	35	--	11	

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# ILLINOIS WEATHER

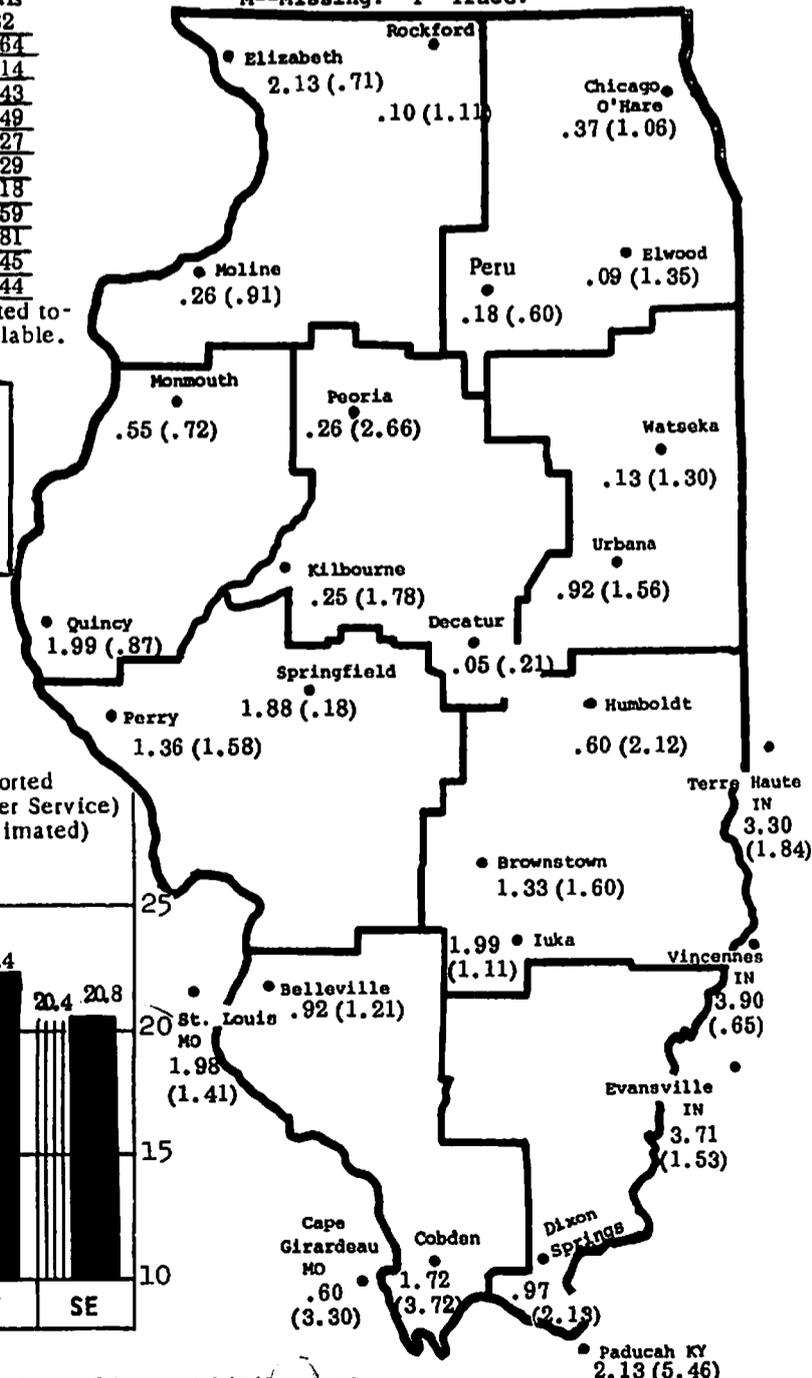
MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

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

Station	Week ending Monday, 6 A.M., Sept. 6						
	Temperatures			Growing degree days 1/			
	Maxi- mum	Mini- mum	Aver- age	Current week	3-yr. av. 2/	Totals 1981	Totals 1982
Moline	86	48	69.1	134	2802	2747	2764
Rockford	82	44	66.1	119	2554	2566	2514
Chi. O'Hare	83	45	67.1	122	2615	2605	2443
Quincy	86	55	71.6	151	3049	2874	2749
Decatur	85	50	70.9	146	2917	2832	2727
Peoria	87	51	70.6	144	2872	2953	2829
Waseka	87	43	67.2	127	3/	2606	2518
Springfield	88	50	71.1	145	3083	3128	2959
Brownstown	83	49	70.3	142	3/	3165	2881
St. Louis	88	58	73.9	166	3421	3398	3245
Dixon Springs	90	55	73.3	161	3/	3437	3244

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, 8/31-9/6  
 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. 6  
 April 1-July 31 (reported by National Weather Service)  
 Aug. 1- Sept. 6 (estimated)

