

# ILLINOIS

# WEATHER & CROPS



## ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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Released: OCTOBER 13, 1981, 3 P.M., CDT

DOC, NOAA, NATIONAL WEATHER SERVICE

VOL. 2, NO. 31

### CROP HI-LITES

- \*\*\* Corn - 26% harvested
- \*\*\* Soybeans - 96% shedding leaves  
49% harvested
- \*\*\* Wheat - 34% seeded
- \*\*\* Soil Moisture - 10% short, 77% adequate, 13% surplus

CORN on October 11 was 26% harvested compared to 59% in 1980 and an average of 31%.

Ninety-six percent of SOYBEANS as of October 11 were shedding leaves compared to 100% last year and an average of 100%. Forty-nine percent of the soybean crop has been harvested compared to 80% last year and an average of 66%.

Thirty-four percent of the 1982 WINTER WHEAT crop for Illinois has been seeded as of October 11, compared to 57% last year and an average of 44%. About 10% of the crop was emerged compared to 14% last year.

As of October 11, 10% of the intended ground for Corn and Soybeans has been TILLED for next year's crop. This compares with 6% last year and an average of 9%.

SORGHUM on October 11 was 30% harvested.

PASTURES on October 9 were reported as 16% excellent, 64% good, 19% fair, and 1% poor.

SOIL MOISTURE on October 9 was reported as 10% short, 77% adequate and 13% surplus.

For the week ending October 9, there were 5.50 DAYS SUITABLE FOR FIELDWORK.

### WEATHER

TEMPERATURES for the period of October 5-11 averaged 1 to 7 degrees below normal over the entire State. This is the second straight week temperatures were below normal. Minimum readings again dropped below freezing in the North, while the rest of the State reported frost. Several new minimum temperature records were set in the North.

PRECIPITATION was scattered over Illinois, ranging from trace amounts to 2.98 of an inch.

The Outlook for the period of October 13-19 is for temperatures to be above normal and precipitation to be near normal in the North and above normal in the South.

### SOIL MOISTURE MEASUREMENTS

Soil moisture decreased during the past month on a moderately well-drained Flanagan soil in Champaign County according to measurements taken by the Illinois State Water Survey on September 28. A total of 2.44 inches of precipitation was received during the previous month, mostly coming during one intense storm of 1.90 inches on September 26. Soil moisture from the surface to about 7 feet decreased from about 62% of potential plant available soil moisture to about 57% on September 28. Percent of potential plant available moisture decreased from 74% to 38% in the layer from the surface down to 4 inches during the past month, from 63% to 57% in the 4 to 12 inch layer, and from 57% to 49% in the 12 to 20 inch layer. During the week ending on October 5, a further 0.78 inch of precipitation fell, and soil moisture to 7 feet increased slightly to 24.7 inches, mainly as a result of an increase in plant available moisture in the top 4 inches to 54% of potential. The heavy precipitation of September 26 and 29 was quite intense and mostly became surface runoff, leading to considerable local flooding of low-lying areas. Despite the relatively low precipitation for the month, the net decrease in soil moisture was not excessive due to the much reduced evapotranspirational demand. Soil moisture was also monitored by the Illinois State Water Survey at the following locations in Illinois on September 28-30. The soil moisture values in the table are for total moisture in the soil column, not just plant available moisture.

Site	County	Inches of Soil Moisture Surface to 20 inches	Change from 4 weeks ago
Shabbona	DeKalb	6.7	+0.6
Monmouth	Warren	5.9	+0.3
Appleton	Knox	5.5	+0.2
Perry	Pike	4.3	-0.6
Topeka	Mason	3.2	+0.2
Bondville	Champaign	5.7	-0.6
Brownstown	Fayette	4.9	+0.4
Dixon Springs	Pope	6.1	+0.6

### ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % harvested (as of October 11)	15	15	20	25	15	35	40	60	65	26	31
Soybeans: % combined (as of Oct. 11)	40	50	50	50	55	65	35	35	55	49	66
Days suitable for fieldwork: (week ending Oct. 9)	4.5	6.5	5.5	5.0	4.0	6.0	5.5	5.0	6.5	5.5	
Soil moisture %: (as of Oct. 9)											
Short	--	--	--	--	--	20	10	--	60	10	
Adequate	50	100	100	90	60	80	90	80	40	77	
Surplus	50	--	--	10	40	--	--	20	--	13	

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# ILLINOIS WEATHER

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

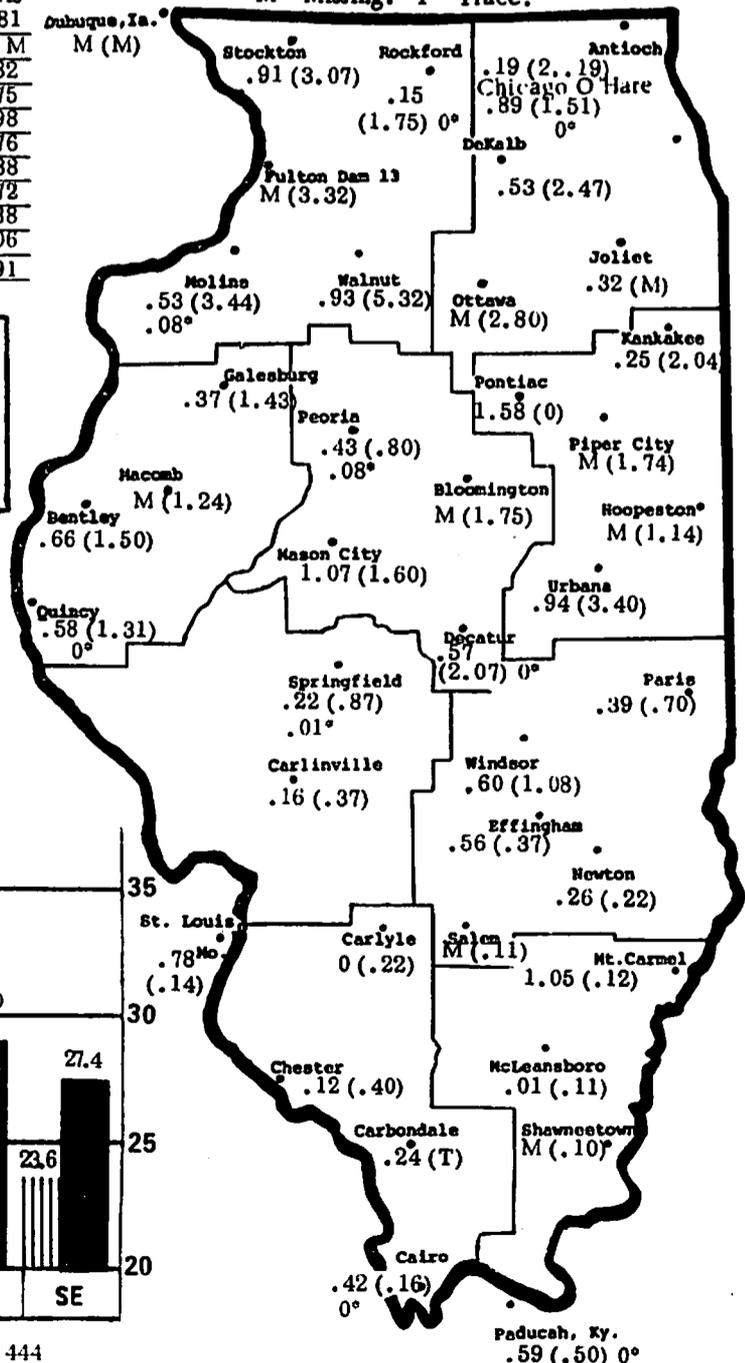
	July	August	Aug. 31 Sept. 6	Sept. 7- 13	Sept. 14- 20	Sept. 21- 27	Sept. 28- Oct. 4	Oct. 5- 11
Chicago	+1	0	-1	+3	-6	-3	-6	-7
Moline	-2	-1	-2	+2	-3	-2	-5	-6
Springfield	+1	0	0	+2	-4	0	-2	-1
So. Central	+1	-1	-2	0	-6	0	-3	-2

STATION	October 9			October 12		
	Maxi	Mini	Average	Current	3-year	Totals
Dubuque, IA	--	--	--	M	2953	3189
Moline	72	32	53	51	3310	3413
Rockford	70	32	52	51	3041	3076
Chicago O'Hare	69	29	51	45	3130	3158
Quincy	83	34	58	63	3671	3873
Decatur	81	34	56	56	3500	3620
Peoria	79	36	56	70	3368	3481
Springfield	89	35	59	80	3621	3770
Cairo	89	41	61	98	4080	4175
St. Louis	--	--	--	75	3998	4200

\* Totals are accumulated from April 1.

**PRECIPITATION:**

First figure--current week, Oct. 2-8  
 Parentheses--previous week  
 Asterisk--Friday-Sunday  
 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

