

# ILLINOIS

# WEATHER & CROPS



## ILLINOIS COOPERATIVE CROP REPORTING SERVICE

Illinois Department of Agriculture  
 STATISTICAL REPORTING SERVICE USDA  
 Box 429 Springfield, Illinois 62706  
 Phone: (217) 492-4295

### CONTRIBUTORS:

National Weather Serv. Forecast Office (Chicago)  
 Midwest Agr. Weather Serv. Ctr. (W. Lafayette, Ind.)  
 Illinois State Water Survey Div., DENR (Champaign)

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### CROP HI-LITES

- \*\*\* Corn - 50% harvested
- \*\*\* Soybeans - 85% harvested
- \*\*\* Wheat - 70% seeded  
38% emerged
- \*\*\* Soil Moisture - 15% short  
79% adequate  
6% surplus

Fifty percent of the CORN crop has been harvested as of Sunday, October 17, compared to 34% last year the 5-year average (1977-81) of 46%.

Eighty-five percent of the SOYBEANS have been harvested as of October 17, compared to 70% last year and the average of 75%.

Seventy percent of the 1983 WINTER WHEAT crop in Illinois has been seeded as of October 17, compared to 56% last year and the average of 65%. Thirty-eight percent of next year's wheat crop has emerged compared to 28% last year and a three-year average (1979-81) of 24%.

As of October 17, 18% of the intended ground for Corn and Soybeans has been TILLED (plowed or chiseled) for next year's crop. This compares with 15% last year and the average of 20%.

SORGHUM on October 17 was 50% harvested.

PASTURES on Friday, October 15, were reported as excellent, 68% good, 20% fair and 2% poor.

SOIL MOISTURE was reported as 15% short, 79% adequate and 6% surplus on October 15.

There were 5.75 DAYS SUITABLE FOR FIELDWORK for the week ending October 15.

### WEATHER

TEMPERATURES for the period of October 11 thru 17 averaged from 3 to 8 degrees below normal throughout the State. The South recorded the largest below-normal variation as a 2-week warm trend ended. Minimum temperatures fell near the freezing mark in many sections at the end of the week.

PRECIPITATION was very light in most sections with little or no rain being recorded.

The OUTLOOK for the period of October 19 through October 25 is for temperatures to be above normal and precipitation to be below normal.

### SOIL MOISTURE MEASUREMENTS

The Illinois State Water Survey reports that over the 7-day period from October 4 to 11 soil moisture values increased sharply on a moderately well-drained Flanagan soil in Champaign County according to measurements taken. Increases were observed at all levels from the surface down to 40 inches, with the greatest changes being in the upper 20 inches of soil. These large increments resulted from the receipt of 1.66 inches of precipitation over the period coupled with the cessation of transpirational losses from crops. Soil moisture from the surface to about 7 feet increased from 51% of Potential Plant Available Moisture (PPAM) on October 4 to over 55% on October 10. PPAM increased from 23% to 31% over the same period in the layer from the surface down to 4 inches, from near wilting point to 19% in the layer from 4 inches to 12 inches, and from 19% to 29% in the layer from 12 inches to 20 inches. A small increase from 39% to 41% occurred in the layer from 20 inches to 40 inches.

Soil moisture was measured at the following locations in Illinois between September 28 and October 1:

Site	County	Inches of Soil Moisture	
		Soil Moisture surface to 20"	Change from mid-Sept.
Freeport	Stephenson	5.5	-0.2
Shabbona	De Kalb	5.3	-0.1
Monmouth	Warren	5.4	-0.3
Appleton	Knox	4.4	-1.2
Perry	Pike	4.6	-0.6
Topeka	Mason	2.6	-0.6
Bondville	Champaign	3.9	-0.2
Springfield	Sangamon	4.9	-0.6
Brownstown	Fayette	5.7	+0.3
Belleville	St. Clair	4.8	-0.3
Rend Lake	Jefferson	4.3	-0.9
Olney	Richland	5.2	+0.4
Dixon Springs	Pope	5.1	-0.5

### 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 Oct. 17)	40	35	45	55	60	50	60	55	60	50	46
Soybeans % combined (as of Oct. 17)	80	85	85	90	95	80	90	75	75	85	75
Days suitable for fieldwork: (week ending Oct. 15)	5.5	5.5	6.5	6.0	6.0	6.5	5.0	5.0	5.5	5.75	
Soil moisture %: (as of Oct. 15)											
Short	20	25	10	25	45	--	--	--	--	15	
Adequate	80	75	90	75	55	100	80	70	85	79	
Surplus	--	--	--	--	--	--	20	30	15	6	

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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	Oct. 12- 18
Chicago	+2	-2	0	+3	+3	-8	+6	+6	-4
Peoria	+2	-2	+1	+3	+3	-7	+7	+8	-3
Springfield	+1	-2	+1	+4	+4	-8	+7	+7	-4
St. Louis	0	-2	0	+3	+3	-7	+6	+8	-4

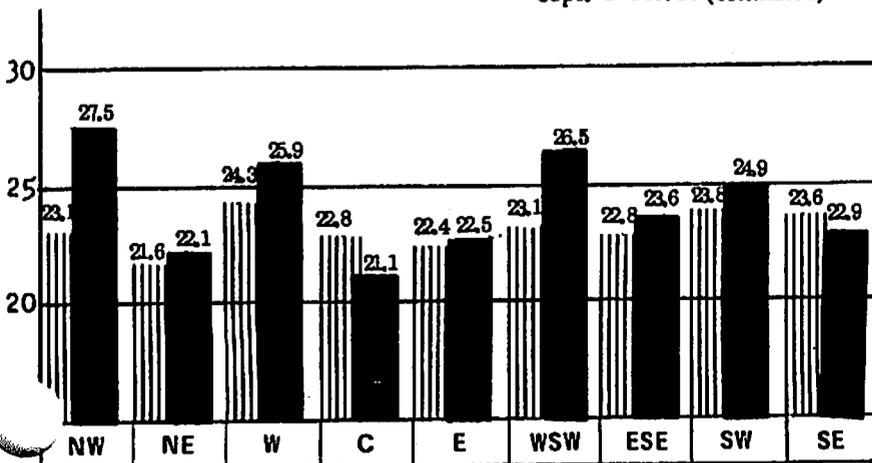
Station	Week ending Monday, 6 A.M., Oct. 18, 1982						
	Temperatures		Growing degree days 1/				
	Maxi- mum	Mini- mum	Aver- age	Current week	3-yr. av. 2/	Totals 1981	Totals 1982
Moline	67	37	51.7	42	3314	3229	3340
Rockford	65	34	50.8	34	3018	3012	3001
Chi. O Hare	64	32	49.9	28	3082	3038	2939
Quincy	68	36	52.3	44	3656	3433	3353
Decatur	69	33	50.7	36	3479	3332	3297
Peoria	68	36	51.6	40	3438	3527	3411
Watska	64	34	48.9	33	3/	3058	3080
Springfield	72	36	52.6	45	3715	3752	3608
Brownstown	73	34	52.1	45	3/	3721	3495
St. Louis	75	38	54.8	51	4119	4045	3946
Dixon Sprgs	75	39	55.5	64	3/	4111	3977

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 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-Sept. 30 | April 1-Oct. 18  
April 1-August 31 (reported by National Weather Service)  
Sept. 1-Oct. 18 (estimated)



PRECIPITATION:  
First figure--Current week, Oct. 12-18  
Parentheses--Previous week  
M--Missing. T--Trace.

