

# ILLINOIS

# WEATHER & CROPS



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**CROPS**

There were 4.25 DAYS SUITABLE for FIELDWORK for the week ending Friday, May 13. Dry weather early in the week allowed field conditions to improve over most of the State. Farmers in northern areas of the State continued planting while those in central and southern areas were able to resume fieldwork. However, thunderstorms late in the week again slowed field activities.

CORN planting was 47% complete as of Sunday, May 15, compared to 91% complete last year and the 5-year average (1978-82) of 65%. The Northwest Crop Reporting District, where the rain has been the lightest, is 75% complete. Some reporters noted problems with corn not emerging because of soil crusting.

Planting of SOYBEANS was 5% complete on May 15, compared to 41% complete last year and the 5-year average of 21%.

WINTER WHEAT condition on Friday, May 13, was reported to be 8% excellent, 75% good, and 17% fair. The crop was 10% headed on May 15, compared to 26% last year and the average of 28%.

OATS seeded as of Sunday, May 15, was 90% complete, compared to 100% last year and the 5-year average of 98%. Condition of the oats was reported to be 7% excellent, 61% good, 30% fair and 2% poor.

ALFALFA condition was reported as 11% excellent, 78% good, and 11% fair.

PASTURES were reported as 15% excellent, 83% good, and 2% fair, and were supplying 85% of livestock roughage requirements.

FREEZE DAMAGE to the 1983 PEACH crop was reported to be moderate to severe from the record low temperatures of mid-April. Damage to the 1983 APPLE crop was reported to be light to moderate.

SOIL MOISTURE on Friday, May 13, was reported to be 2% short, 50% adequate, and 48% surplus.

**WEATHER**

TEMPERATURES for the period of May 9 thru 15 averaged from 1 to 4 degrees below normal throughout the State. A brief, warm period developed in the beginning of the week sending maximum readings into the 70's and 80's. However, at the end of the week a cool period again developed.

PRECIPITATION was moderate to heavy over much of the State as rainfall amounts ranged from about .50 inch to 3 inches. For the third week the northern area received the least amounts (from .50 to .80 of an inch). The heavier amounts fell in the central and southern sections where more than 3 inches were reported (nearly 3 inches fell during a 24-hour period).

The OUTLOOK for May 16 thru 23 is for temperatures to be below normal and precipitation to be above normal.

The EXTENDED OUTLOOK for May 15 to June 15 is for temperatures and precipitation to be near normal.

**APRIL WEATHER SUMMARY**

Average monthly TEMPERATURES ranged from 4 to 6 degrees below normal throughout the State. The Southwest District had the largest below normal variation (6 degrees below normal). This was the first time in 5 months that temperatures were below normal over much of the State. Some new minimum temperature records were set as readings fell into the 20's. A cool trend that started in March continued through the first 3 weeks of April. During the 4th week, temperatures were near normal. PRECIPITATION was above normal in every district of the State except the West where the rainfall was near normal. The largest above normal variation was in the Southwest District. Some areas reported record rainfall amounts as 7 to 14 inches fell causing many rivers to rise above flood stage. Precipitation was heavy in many sections during the first two weeks and again during the fourth week. On the 16th one to two inches of snow fell on the north and central sections of the State.

**STATE WATER SURVEY DIVISION**

The State Water Survey Division reports that Potential Plant Available Moisture (PPAM) decreased in the moderately well-drained Flanagan soil four miles south of Bondville in Champaign County during the week ending May 13. Only 0.05 inch of precipitation was recorded last week. In the soil layer from the surface to 4 inches the PPAM decreased from 109% to 77%; at the 4 to 12-inch depth, the PPAM decreased from 79% to 54%; and at the 12 to 20-inch depth, the PPAM decreased from 82% to 71%. Over the total soil column from the surface to nearly 7 feet, the PPAM decreased from 84% to 78%.

**ILLINOIS CROP REPORTING DISTRICT SUMMARY**

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % planted (as of May 15)	75	40	50	60	45	50	20	10	10	47	65
Days suitable for fieldwork:(week ending May 13)	6.0	6.0	4.0	3.5	4.5	5.0	3.5	3.0	3.0	4.25	
Soil moisture % (as of May 13)											
Short:	20	0	0	0	0	0	0	0	0	2	
Adequate:	80	100	20	20	65	85	40	40	0	50	
Surplus:	0	0	80	80	35	15	60	60	100	48	

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May 16, 1983

PRELIMINARY DISTRICT PRECIPITATION AVERAGES AND DEPARTURES FROM NORMAL IN INCHES

	NW	NE	W	C	E	WSW	ESE	SW	SE
Departure	4.62	5.44	4.58	6.04	5.40	5.85	4.64	8.65	5.23
	+0.25	+1.34	-0.31	+1.76	+1.26	+1.08	+0.10	+4.33	+0.99

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	March	April	Apr. 26- May 2	May 3- 9	May 10- 16
Chicago	+1	-5	+2	-4	-1
Peoria	+3	-5	+4	-2	+1
Springfield	+3	-6	+4	-4	0
St. Louis	+1	-6	+4	-2	-1

Station	Week ending Monday, 6 A.M., May 16					
	Temperatures : Growing degree days 1/					
	Maxi-	Mini-	Aver-	Current:	3-yr.:	Totals:
	mum	mum	age	week	av.2/:	Totals
					1982	1983
Moline	: 82	: 37	: 59.9	: 88	: 401	: 454
Rockford	: 77	: 33	: 56.4	: 76	: 340	: 414
Chicago O'Hare	: 76	: 28	: 55.9	: 68	: 337	: 389
Quincy	: 75	: 41	: 59.4	: 75	: 427	: 427
Decatur	: 79	: 36	: 59.6	: 82	: 403	: 420
Peoria	: 82	: 36	: 61.0	: 86	: 405	: 474
Watseka 3/	: 79	: 29	: 57.3	: 75	: 374	: 397
Springfield	: 82	: 38	: 62.0	: 93	: 463	: 498
Brownstown 3/	: 82	: 38	: 61.5	: 91	: 484	: 436
St. Louis	: 81	: 41	: 62.5	: 94	: 534	: 520
Dixon Springs 3/	: 82	: 40	: 66.2	: 121	: 584	: 523

1/ Totals are accumulated from April 1. 2/ Average of accumulated totals for 1980, 1981 and 1982. 3/ Two-year average-1980 available.

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

Station	Week ending Mon., 6 A.M. May 16	
	Average daily soil temperature	
	4" bare soil	
	Maximum	Minimum
Elizabeth	: 63	: 50
Elwood	: 66	: 51
Monmouth	: 65	: 54
Urbana	: 67	: 56
Perry	: 63	: 52
Brownstown	: 67	: 55
Belleville	: 67	: 56
Dixon Springs	: 74	: 58

PRECIPITATION:

First figure-Current week, May 10-16  
Parentheses--Previous week  
M--Missing. T--Trace

