

ILLINOIS

WEATHER & CROPS



ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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WEATHER

The week of July 11 to 17 turned out to be a very hot, dry week for the State of Illinois. There was a very brief respite from the heat on Wednesday for Northeastern Illinois, when a weak, cool front moved across Illinois.

TEMPERATURES for most of the week were 6 to 12 degrees above normal over most of Northern Illinois. The only day with near normal temperatures for Northern Illinois was Wednesday. Over Central and Southern Illinois temperatures ranged from 2 to 8 degrees above normal.

PRECIPITATION for the week was light and very spotty. Chicago O'Hare reported .30 inches on Sunday. Most other stations reported no precipitation for the week. However, there were some isolated showers over Southern Illinois.

The OUTLOOK for the week of July 18 to 24 promises to be a little better at least for Northern Illinois. Temperatures should lower to more seasonal levels by mid-week for Northern Illinois while Southern Illinois will continue well above normal for much of the week. Precipitation over Northern Illinois will be scattered but at least more plentiful than last week. Southern Illinois will remain mostly dry.

STATE WATER SURVEY DIVISION

Soil moisture was measured by the State Water Survey Division at sites of the Illinois Climatological Network throughout the State during the past week. These values are for total soil moisture, not Potential Plant Available Moisture.

Site	County	Inches of Soil Moisture	
		Total Soil Moisture, surface to 20"	Change in last half month
Freeport	Stephenson	4.9	-0.7
Shabbona	DeKalb	5.5	-0.9
Momouth	Warren	3.9	-0.5
Appleton	Knox	3.4	-1.0
Peoria	Tazewell	3.5	-0.3
Topeka	Mason	2.3	-0.1
Bondville	Champaign	3.3	-0.8
Perry	Pike	3.0	-0.5
Springfield	Sangamon	4.5	+0.2
Brownstown	Fayette	4.5	+0.1
Olney	Richland	3.0	-1.0
Salem	Marion	3.6	-0.5
Ina	Jefferson	3.1	-1.4
Carbondale	Jackson	2.4	-1.6
Dixon Springs	Pope	5.6	-1.2

CROP HI-LITES

- *** Soybeans - 47% blooming
- *** Wheat - 96% harvested for grain
- *** Corn - 20% silked, tasseled
- *** Soil Moisture - 75% short, 25% adequate.

There were 7.0 DAYS SUITABLE for FIELDWORK for the week ending Friday, July 15. The hot and dry weather has affected the corn and soybean crops which continue to progress about a week behind normal. Livestock and fruit trees are also suffering some stress from the hot weather.

CORN was 20% silked on July 17, compared to 65% last year and the average of 49%. The condition as of July 15 was reported as 10% excellent, 66% good, and 24% fair. Corn leaf rolling, due to moisture stress, has been reported across the State, with overall crop conditions declining from the previous week.

Forty-seven percent of the SOYBEAN acreage was blooming on Sunday, July 17, compared to 56% last year and 48% for the average. Eight percent of the crop was setting pods compared to last year's 19% and the average of 12%. Condition on July 15 was reported 7% excellent, 62% good, and 31% fair.

WINTER WHEAT was 96% harvested by Sunday, July 17, compared to 92% last year and the 93% average. Wheat harvest is nearly complete in the southern two-thirds of the State and is now active in the northern one-third.

On Sunday, July 17, 80% of the OATS were turning yellow compared to 86% last year and the 85% average. Oats were 40% ripe compared to 41% last year and 49% for the average. Twenty percent of the crop is harvested compared to 23% last year and the 24% average. Condition on Friday, July 15, was 4% excellent, 69% good, 26% fair and 1% poor.

The second crop of ALFALFA HAY was 67% cut. Last year it was 56% cut and the average is 63%. The condition on Friday, July 15, was 3% excellent, 61% good, 34% fair, and 2% poor.

PASTURE condition on Friday, July 15, was 2% excellent, 45% good, 46% fair, and 7% poor. This is a decrease in condition from the past week.

SOIL MOISTURE Friday, July 15, was reported as 75% short and 25% adequate.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % silked (as of July 17)	15	15	25	25	15	20	30	25	15	20	49
Soybeans: % blooming (as of July 17)	50	50	65	55	65	40	40	20	25	47	48
Days suitable for fieldwork:(week ending July 15)	6.5	7.0	7.0	6.5	7.0	7.0	7.0	7.0	7.0	7.0	
Soil moisture % (as of July 15)											
Short:	45	65	100	70	90	80	55	90	85	75	
Adequate:	55	35	-	30	10	20	45	10	15	25	
Surplus:	-	-	-	-	-	-	-	-	-	-	

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MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	April	May	May 31- June 6	June 7- 13	June 14- 20	June 21- 27	June 28- July 4	July 5 11	July 12- 18
Chicago	-5	-6	-6	+2	+1	+9	+3	-3	+8
Peoria	-5	-3	-6	+2	+1	+7	+7	-2	+7
Springfield	-6	-4	-7	+1	+1	+6	+6	-4	+6
St. Louis	-6	-3	-5	-1	+1	+5	+7	-2	+6

Station	Week ending Monday, 6 A.M., July 18						
	Temperatures		Growing degree days 1/				
	Maxi- :mum	Mini- :mum	Aver- :age	Current : week	3-yr. :av. 2/	Totals : 1982	Totals : 1983
Moline	: 95	: 64	: 81.6	: 198	: 1695	: 1654	: 1542
Rockford	: 94	: 63	: 80.9	: 197	: 1527	: 1515	: 1399
Chicago O'Hare	: 95	: 56	: 80.4	: 193	: 1472	: 1413	: 1319
Quincy	: 95	: 71	: 83.1	: 204	: 1786	: 1629	: 1531
Decatur	: 93	: 68	: 81.0	: 200	: 1737	: 1636	: 1483
Peoria	: 94	: 69	: 81.8	: 202	: 1746	: 1718	: 1574
Watseka 3/	: 93	: 61	: 78.7	: 182	: 1573	: 1518	: 1436
Springfield	: 95	: 69	: 82.6	: 201	: 1885	: 1830	: 1621
Brownstown 3/	: 95	: 68	: 82.2	: 198	: 1895	: 1753	: 1569
St. Louis	: 97	: 74	: 85.1	: 218	: 2065	: 1973	: 1817
Dixon Springs 3/	: 93	: 67	: 81.9	: 202	: 2105	: 2010	: 1759

1/ Totals are accumulated from April 1. 2/ Average of accumulated totals for 1980, 1981 and 1982. 3/ Two-year average-1980 not 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.

Precipitation: Week ending July 18

Station	Accumulations since Apr. 1				
	Current : week	Normal : 1/	1983 : 1983	Normal : 1/	Departure
Rockford	: 0.00	: 1.05	: 13.17	: 15.12	: - 1.95
Chicago O'Hare	: 0.30	: 0.84	: 20.78	: 13.06	: + 7.72
Watseka	: 0.00	: 1.05	: 14.56	: 15.63	: - 1.07
Peru	: 0.00	: 0.91	: 13.47	: 14.17	: - 0.70
Moline	: 0.00	: 1.12	: 14.78	: 15.32	: - 0.54
Peoria	: 0.00	: 0.91	: 18.18	: 13.86	: + 4.32
Monmouth	: 0.17	: 0.98	: 12.93	: 14.04	: - 1.11
Quincy	: 0.01	: 0.91	: 12.52	: 13.57	: - 1.05
Springfield	: 0.00	: 0.77	: 11.15	: 12.84	: - 1.69
Decatur	: 0.00	: 0.91	: 20.54	: 14.97	: + 5.57
Urbana	: 0.00	: 0.98	: 20.51	: 13.99	: + 6.52
Belleville	: 0.00	: 0.77	: 13.46	: 13.20	: + 0.26
Evansville, IN	: 0.00	: 0.91	: 25.26	: 14.48	: +10.78

1/ 30-year average (1951-80).

PRECIPITATION:

First figure-Current week, 7/12-18
Parentheses--Previous week
M--Missing. T--Trace

