

ILLINOIS

WEATHER & CROPS



ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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WEATHER

The week of July 18 to 24 was miserably hot over most of Illinois. TEMPERATURES in Northern Illinois ranged from 7 to 15 degrees above normal thru Saturday. Over the rest of the State it was extremely dry as well as hot. Temperatures reached into the 100's on Wednesday, Thursday and Friday. On Sunday temperatures moderated to more seasonal levels. PRECIPITATION was scarce across the State until a cool front arrived during the weekend. Amounts ranged from 1.52 inches in Chicago to .08 inches in Quincy. The OUTLOOK for the coming week calls for near to slightly below normal temperatures early in the week. By the end of the week temperatures will be above normal again over Illinois. Precipitation will be spotty, generally below normal for the State.

JUNE WEATHER SUMMARY

Average monthly TEMPERATURES ranged from 1 to 2 degrees above normal throughout the State. The Northwest District had the largest above normal variation (2.0 degrees above normal). Temperatures were below normal during the first half of the month with minimum readings falling into the 40's during the first week. A 6-week cool period has finally broken by the 3rd week as readings climbed to near the 100 degree mark which set several new records. PRECIPITATION was below normal in all districts except the East and East-Southeast. Nearly 11 inches were recorded in these areas and caused some flooding. The largest below normal variation was in the West District while the largest above normal variation was in the East-Southeast District. During the first 3 weeks of the month, rainfall was light to moderate over the State. In the last week, 1 to 6 inches fell in the northern and extreme southern areas.

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 July 22. There has been no measurable precipitation since July 4, 1983. In the soil layer from the surface to 4 inches the PPAM decreased from -1% to +0%; at the 4 to 12-inch depth, the PPAM decreased from -7% to -14%; and at the 12 to 20-inch depth, the PPAM decreased from 8% to 4%. Over the total soil column from the surface to nearly 7 feet, the PPAM decreased from 51% to 47%.

CROP HI-LITES

- *** Soybeans - 67% blooming, 18% setting pods
- *** Corn - 57% silked, (tasseled), 5% dough
- *** Soil Moisture - 92% short, 8% adequate.

There were 6.75 DAYS SUITABLE for FIELDWORK for the week ending Friday, July 22. The hot, dry weather adversely affected crop condition in all parts of Illinois. Livestock suffered heat stress throughout the State.

CORN was 57% silked on July 24, which is behind the 87% last year and the 5-year average (1978-82) of 75%. Only 5% was in the dough stage compared to 3% last year and 16% for the average. Condition of corn reported on Friday, July 22, was 4% excellent, 40% good, 42% fair, 14% poor, down rather sharply from a week earlier.

Sixty-seven percent of the SOYBEAN acreage was blooming by Sunday, July 24, compared to 75% last year and 66% for the average. Eighteen percent was setting pods compared to 33% last year and the average of 24%. Condition on July 22 was reported 1% excellent, 42% good, 54% fair and 3% poor, also sharply below the condition report a week ago.

On Sunday, July 24, 85% of the OATS were ripe compared to 81% last year and 78% for the average. Harvest is 50% complete, compared to the 33% last year and the average of 44%.

The second crop of ALFALFA HAY was 84% cut, compared to 65% last year and the 75% average. The condition reported as of Friday, July 22, was 36% good, 49% fair, and 15% poor.

PASTURE condition deteriorated sharply during the past week and on Friday, July 22, was reported 15% good, 50% fair, 31% poor and 4% as a failure.

IL MOISTURE Friday, July 22, was reported as 92% short and 8% 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 24)	60	55	65	60	55	60	60	45	30	57	75
Soybeans: % blooming (as of July 24)	70	70	80	75	80	60	65	50	45	67	66
Days suitable for fieldwork:(week ending July 22)	6.5	6.5	7.0	6.5	6.5	7.0	7.0	7.0	7.0	6.75	
11 moisture % as of July 22) Short	80	70	100	90	100	100	90	100	100	92	
Adequate:	20	30	-	10	-	-	10	-	-	8	

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CROP CONDITIONS BY REGIONS ON FRIDAY, JULY 22

	Corn					Soybeans				
	N	N.Cen.	S.Cen.	S	State	N	N.Cen.	S.Cen.	S	State
Planted (%)	5	5	5	0	4	10	0	0	0	1
Good (%)	60	35	30	25	40	50	40	45	25	42
Fair (%)	30	45	45	55	42	40	55	50	70	54
Poor (%)	5	15	20	20	14	0	5	5	5	3

PRELIMINARY DISTRICT PRECIPITATION AVERAGES AND DEPARTURES FROM NORMAL IN INCHES

	NW	NE	W	C	E	WSW	ESE	SW	SE
June	2.91	2.96	1.66	3.64	4.54	4.56	5.34	3.89	4.03
Departure	-1.46	-1.14	-3.23	-0.64	+0.40	-0.21	+0.80	-0.43	-0.21

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	May	June	June 28-	July 5-	July 12-	July 19-
			July 4	11	18	25
Chicago	-6	+1	+3	-3	+8	+8
Peoria	-3	+1	+7	-2	+7	+11
Springfield	-4	+1	+6	-4	+6	+9
St. Louis	-3	+1	+7	-2	+6	+11

Station	Week ending Monday, 6 A.M., July 25						
	Max	Min	Aver	Current	3-yr	Totals	Totals
Moline	:103	68	85.0	: 207	1862	1835	1749
Rockford	: 96	65	82.0	: 199	1687	1689	1598
Chicago O'Hare	:100	62	80.9	: 192	1649	1588	1511
Quincy	:102	69	86.3	: 211	1965	1805	1742
Decatur	:103	66	85.6	: 207	1910	1819	1690
Peoria	:102	69	85.9	: 202	1923	1902	1776
Watseka 3/	: 99	62	81.8	: 193	1729	1684	1629
Springfield	:102	69	85.2	: 204	2068	2016	1825
Brownstown 3/	:103	71	86.4	: 210	2073	1933	1779
St. Louis	:103	71	89.4	: 228	2264	2177	2045
Dixon Springs 3/	:100	67	85.8	: 209	2296	2202	1968

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 25

Station	Current week	Normal 1/	Accumulations since Apr. 1	Normal 1/	Departure
Rockford	: 1.19	1.05	14.36	16.17	- 1.81
Chicago O'Hare	: 1.52	0.84	22.30	13.90	+ 8.40
Watsseka	: 0.33	1.05	14.89	16.68	- 1.79
Peru	: 0.29	0.91	13.76	15.08	- 1.32
Moline	: 0.03	1.12	14.81	16.44	- 1.63
Peoria	: 0.02	0.91	18.20	14.77	+ 3.43
Monmouth	: 0.12	0.98	13.05	15.02	- 1.97
Quincy	: 0.08	0.91	12.60	14.48	- 1.88
Springfield	: 0.37	0.77	11.52	13.61	- 2.09
Decatur	: 0.52	0.91	21.06	15.88	+ 5.18
Urbana	: 0.03	0.98	20.54	14.97	+ 5.57
Belleville	: 0.80	0.77	14.26	13.97	+ 0.29
Evansville, IN	: 0.66	0.91	25.92	15.39	+10.53

30-year average (1951-80).

PRECIPITATION:
First figure--Current week, 7/19-25
Parentheses--Previous week
M--Missing. T--Trace

