

ILLINOIS WEATHER & CROPS



ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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CROP HI-LITES

*** Corn - 95% dough, 71% dented, 15% mature
*** Soybeans - 95% setting pods, 16% turning yellow
*** Soil Moisture - 24% short
69% adequate
7% surplus

CORN condition on Friday, August 27, was reported as 41% excellent, 53% good and 6% fair. Ninety-five percent of the corn crop was in the dough stage on Sunday, August 29, compared to 95% last year and the 5-year average (1977-81) of 95% also. Seventy-one percent of the crop is dented compared to 55% last year and an average of 67%. Fifteen percent of the crop is mature compared to 5% last year and an average of 26%. High winds last week through Central Illinois flattened or partially flattened some acres, but the extent of the damage has not yet been determined.

SOYBEANS on August 27 were reported as 24% in excellent condition, 63% good and 13% fair. Ninety-five percent of the soybeans were setting pods on August 29 compared to 93% last year and an average of 95%. Sixteen percent of the crop was turning yellow compared to 6% last year and an average of 14%.

ALFALFA HAY was reported as 21% excellent, 71% good and 8% fair on August 27. About 67% of the third crop was cut by August 29 compared to 69% last year and an average of 62%.

PASTURES on August 27 were reported as 20% excellent, 56% good, 21% fair and 3% poor.

SOIL MOISTURE was reported as 24% short, 69% adequate and 7% surplus on August 27.

There were 5.00 DAYS SUITABLE FOR FIELDWORK for the week ending August 27.

WEATHER

TEMPERATURES for the period of August 24 thru 30 averaged 2 to 8 degrees below normal throughout the State. Minimum readings fell into the 40's in the central and northern sections.

PRECIPITATION amounts were moderate to heavy in most areas as amounts ranged from .45 of an inch to more than 5 inches. The South reported the heaviest rainfall and some local areas recorded 2.50 inches during a 24-hour period.

The OUTLOOK for the period of September 1 thru 7 is for temperatures to be near normal and precipitation to be above normal.

JULY WEATHER SUMMARY

Average monthly TEMPERATURES ranged from 1 to 3 degrees above normal throughout the State. The East-Southeast and the Southwest Districts had the largest above normal variation (2.5 degrees above normal). A cool trend which started during May ended its 6-week trend in the second week of July as maximum temperatures climbed in the 90's. However, during the first week, minimum temperatures in the North dropped into the 40's. Readings stayed above normal until the end of the month, when they once again fell below normal.

PRECIPITATION was above normal in every district of the State except the Southeast District. The largest above normal variation was in the Northwest District. During the first half of the month, rainfall was heavy throughout the State with amounts ranging from 1 to 7 inches each week. Localized areas recorded nearly 4 inches during a 24-hour period during this time causing some flooding. In the second half of the month, the North continued to receive heavy rainfall, while most of the South was dry.

The EXTENDED OUTLOOK from August 15 to September 15 is for above normal temperatures and below normal precipitation.

SOIL MOISTURE MEASUREMENTS

The Illinois State Water Survey reports that soil moisture in a moderately well-drained Flanagan soil near Bondville (Champaign County) decreased during the week prior to August 23. Soil moisture from the surface to about 7 feet decreased from 57% of Potential Plant Available Moisture (PPAM) to 54%. Between the surface and 4-inch depth, the moisture increased from 13% of PPAM to 19%. Between 4 and 12 inches, the PPAM increased from 4% to 5%. From the 12 to 20-inch depth, the PPAM decreased from 24% to 19%. Precipitation during the week prior to the measurement amounted to 0.58 inch.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % dented											
of August 29)	65	55	75	75	70	75	80	75	75	71	67
Soybeans: % turning yellow											
of August 29)	15	15	15	15	20	10	15	20	20	16	14
Alfalfa: % 3rd crop cut											
(as of August 29)	60	60	65	70	65	70	80	90	80	67	62
Days suitable for fieldwork: (week ending Aug. 27)	7.0	7.0	3.5	3.5	5.0	5.5	5.5	5.0	5.5	5.00	
Soil moisture %:											
(as of Aug. 27) Short	15	80	10	20	10	5	45	20	70	24	
Adequate	85	20	70	65	90	95	45	70	30	69	
Surplus	--	--	20	15	--	--	10	10	--	7	

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ILLINOIS WEATHER

PRELIMINARY DISTRICT PRECIPITATION AVERAGES AND DEPARTURES FROM NORMAL IN INCHES

	NW	NE	W	C	E	WSW	ESE	SW	SE
July	8.89	7.07	6.72	4.68	5.37	6.26	3.87	3.94	3.18
Departure	+4.76	+3.23	+2.83	+1.01	+1.36	+2.49	+0.18	+0.36	-0.65

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

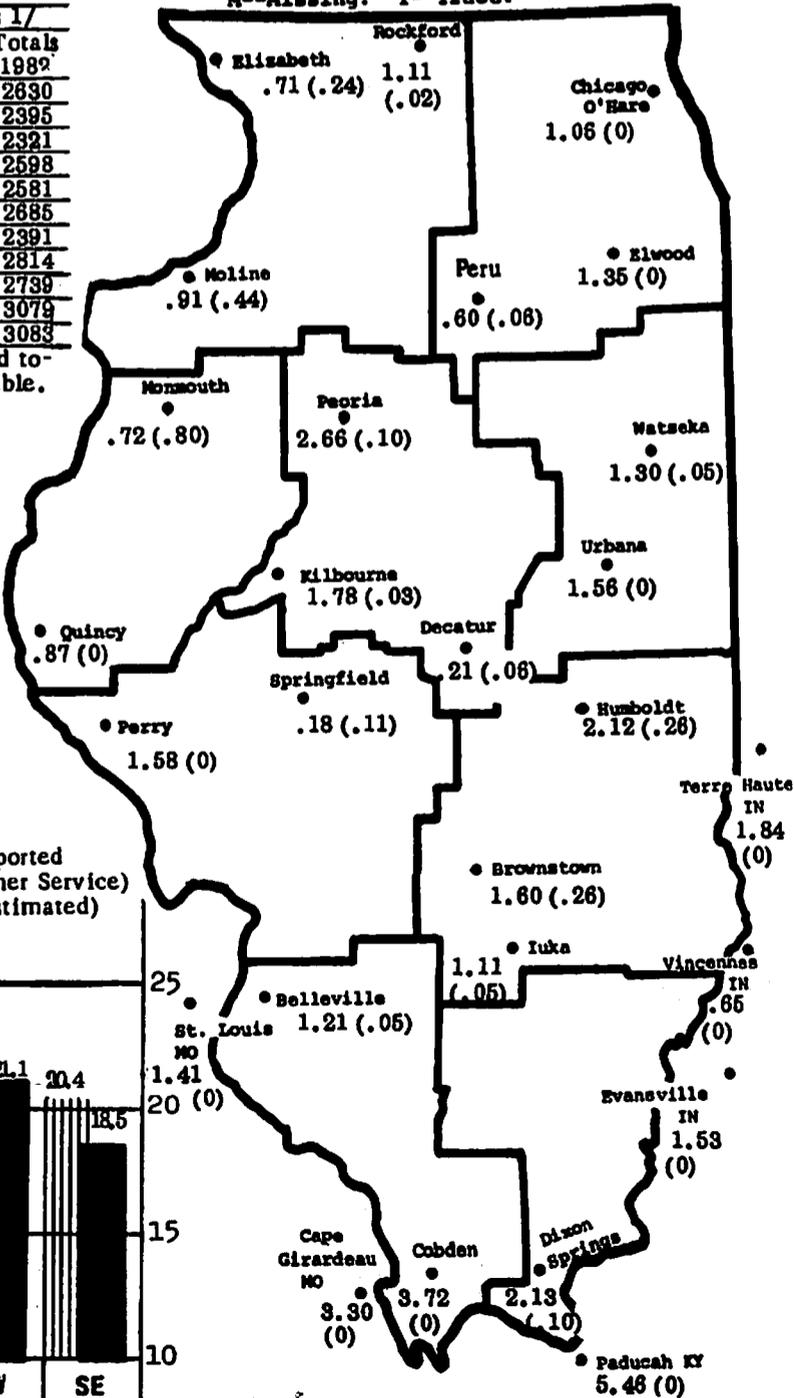
	June	July	July 27- Aug. 2	Aug. 3- 9	Aug. 10- 16	Aug. 17- 23	Aug. 24- 30
Chicago	-6	+2	+3	+4	-5	+1	-4
Peoria	-4	+2	0	+5	-6	0	-3
Springfield	-5	+1	-1	+6	-6	0	-4
St. Louis	-4	0	0	+6	-7	0	-3

Station	Week ending Monday, 6 A.M., August 30						
	Temperatures			Growing degree days 1/			
	Maxi- mum	Mini- mum	Aver- age	Current year	3-yr. av. 2/	Totals 1981	Totals 1982
Moline	82	47	67.1	122	2657	2620	2830
Rockford	82	43	62.6	94	2420	2441	2395
Chi. O'Hare	85	43	63.9	103	2471	2481	2321
Quincy	82	52	68.1	126	2891	2746	2698
Decatur	80	50	67.0	119	2767	2699	2581
Peoria	82	51	67.1	119	2717	2813	2685
Watseka	85	43	63.9	103	3/	2480	2391
Springfield	83	49	67.6	123	2923	2979	2814
Brownstown	81	52	67.4	122	3/	3024	2739
St. Louis	82	55	71.4	149	3246	3244	3079
Dixon Springs	86	54	74.0	169	3/	3272	3083

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.

PRECIPITATION:
First figure--Current week, Aug. 24-30
Parentheses--Previous week
M--Missing. T--Trace.



ACCUMULATED PRECIPITATION (Inches)

LEGEND: Normal | Actual
April 1-Aug. 31 | April 1-Aug. 30
April 1-July 31 (reported by National Weather Service)
Aug. 1-Aug. 30 (estimated)

