

ILLINOIS WEATHER & CROPS



ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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CROP HI-LITES

*** Corn - 95% dented
60% mature (safe from frost)
2% harvested

*** Soybeans - 68% turning yellow
35% shedding leaves
2% harvested

*** Soil Moisture - 10% short
85% adequate
5% surplus

CORN condition on Friday, September 10, was reported as 47% excellent, 50% good and 3% fair. Ninety-five percent of the corn crop was dented on Friday, September 12, compared to 80% last year and 5-year average (1977-81) of 90%. Sixty percent the crop is mature (safe from frost), compared to 27% last year and an average of 60%. Two percent of the corn has been harvested compared to 0% last year and an average of 2%.

SOYBEANS on September 10 were reported as 26% in excellent condition, 67% good and 7% fair. Sixty-eight percent of the soybeans was turning yellow on September 12, compared to 37% last year and an average of 57%. Thirty-five percent of the crop was shedding leaves compared to 12% last year and an average of 28%. Two percent of the soybean crop has been harvested compared to 0% last year and an average of 1%.

ALFALFA HAY was reported as 25% excellent, 72% good and 3% fair on September 10. About 84% of the third crop was cut by September 12, compared to 80% last year and an average of 84%.

PASTURES on September 10 were reported as 15% excellent, 66% good and 19% fair.

SOIL MOISTURE was reported as 10% short, 85% adequate and 5% surplus on September 10.

There were 5.50 DAYS SUITABLE FOR FIELDWORK for the week ending September 10.

WEATHER

TEMPERATURES for the period of September 6 thru 12 averaged from normal to 3 degrees above normal throughout the State as a warm trend continued from last week. Maximum readings climbed into the 80's during the second half of the week.

PRECIPITATION amounts were light in many areas, ranging from .10 to .69 of an inch. The southwestern sections were the driest with little or no rain. The Rockford area recorded the heaviest rainfall.

The OUTLOOK for the period of September 14 thru 24 is for temperatures to be below normal and precipitation to be near normal.

SOIL MOISTURE MEASUREMENTS

The Illinois State Water Survey reports that soil moisture in a moderately well-drained Flanagan soil near Bondville (Champaign County) increased slightly during the week prior to September 7. A total of 1.25 inch of precipitation was received during the week prior the measurement. Since the precipitation fell early in the period the surface layer, represented by the layer from the surface to 4 inches, decreased from 46% of Potential Plant Available Moisture (PPAM) to 36% of PPAM. The remaining two top layers showed an increase. Between 4 and 12 inches, the PPAM increased from 5% to 17%. From the 12 to 20-inch depth, the PPAM increased from 20% to 24%. Also, soil moisture from the surface to about 7 feet increased from 55% of PPAM to 58%.

Soil moisture was measured at the following locations in Illinois on August 31 through September 3:

Site	County	Inches of Soil Moisture	
		Soil Moisture surface to 20"	Change from mid-August
Freeport	Stephenson	5.5	+0.3
Shabbona	De Kalb	5.9	-0.1
Monmouth	Warren	5.9	+0.1
Appleton	Knox	5.2	+0.2
Perry	Pike	5.7	+0.9
Topeka	Mason	2.8	+0.5
Bondville	Champaign	4.1	+0.3
Springfield	Sangamon	5.5	-0.3
Brownstown	Fayette	4.5	+0.5
Belleville	St. Clair	4.8	No change
Rend Lake	Jefferson	5.0	+1.0
Olney	Richland	3.7	+0.8
Dixon Springs	Pope	5.4	+1.1

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % dented (as of Sept. 12)	90	95	95	98	98	96	97	97	97	95	90
Soybeans: % turning yellow (as of Sept. 12)	70	70	65	75	75	55	70	65	65	68	57
Alfalfa: % 3rd crop cut of Sept. 12)	80	75	75	95	90	90	95	96	96	84	84
Days suitable for fieldwork: (week ending Sept. 10)	4.5	6.5	4.5	5.5	6.5	6.0	5.5	5.5	6.5	5.50	
Soil moisture %:											
(as of Sept. 10) Short	25	35	--	10	35	--	--	--	20	10	
Adequate	65	65	90	85	65	100	100	90	80	85	
Surplus	10	--	10	5	--	--	--	10	--	5	

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ILLINOIS WEATHER

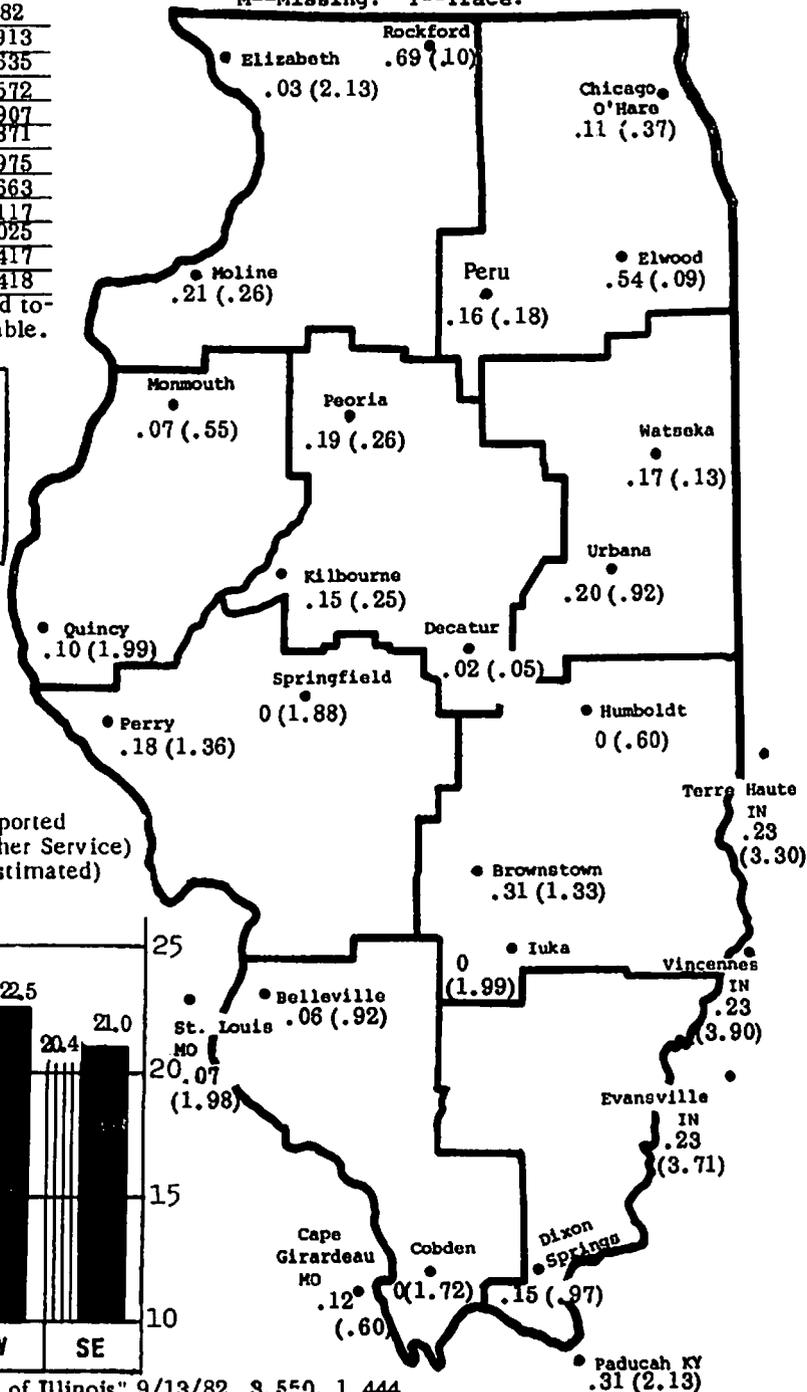
MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	June	July	July 27- Aug. 2	Aug. 3- 9	Aug. 10- 16	Aug. 17- 23	Aug. 24- 30	Aug. 31- Sept. 6	Sept. 7- 13
Chicago	-6	+2	+3	+4	-5	+1	-4	0	+3
Peoria	-4	+2	0	+5	-6	0	-3	+1	+3
Springfield	-5	+1	-1	+6	-6	0	-4	+1	+4
St. Louis	-4	0	0	+6	-7	0	-3	0	+3

Station	Week ending Monday, 6 A.M., Sept. 13									
	Temperatures		Growing degree days 1/							
	Maxi- mum	Mini- mum	Aver- age	Current week	3-yr. av. 2/	Totals 1981	Totals 1982			
Moline	87	51	71.1	149	2932	2877	2913			
Rockford	87	46	66.9	121	2674	2688	2635			
Chi. O'Hare	88	47	68.3	129	2746	2737	2572			
Quincy	86	57	72.8	158	3193	3008	2907			
Decatur	86	55	70.6	144	3055	2964	2871			
Peoria	87	54	71.0	146	3014	3100	2975			
Watseka	86	53	70.6	145	3/	2737	2663			
Springfield	89	56	73.1	158	3228	3277	3117			
Brownstown	87	48	70.5	144	3/	3309	3025			
St. Louis	85	61	74.6	172	3581	3551	3417			
Dixon Springs	86	62	74.8	174	3/	3574	3418			

1/ Totals are accumulated from April 1. 2/ Average of accumulated totals for 1979, 1980 and 1981. 3/ Previous years' data are not available.

PRECIPITATION:
First figure--Current week, Sept. 7-13
Parentheses--Previous week
M--Missing. T--Trace.



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-Aug. 31 | April 1-Sept. 13
April 1-July 31 (reported by National Weather Service)
Aug. 1-Sept. 13 (estimated)

