

ILLINOIS WEATHER & CROPS



**ILLINOIS
COOPERATIVE CROP
REPORTING SERVICE**

Illinois Department of Agriculture
STATISTICAL REPORTING SERVICE - USDA
Box 429 Springfield, Illinois 62705
Phone: (217) 492-4295

Released: AUGUST 17, 1981, 3 P.M., CDT

DOC, NOAA, NATIONAL WEATHER SERVICE

VOL.2, NO. 23

WEATHER

CROP HI-LITES

- *** Corn - 75% dough, 30% dented
- *** Soybeans - 93% blooming,
65% setting pods
- *** Soil Moisture - 2% short, 72% adequate,
26% surplus

CORN on August 14 was reported as 32% in excellent condition, 66% good, and 2% fair. On August 16, 75% of the corn crop was in the dough stage, compared to 2% last year and an average of 77%. Thirty percent of the crop is dented compared to 47% last year and an average of 37%.

SOYBEANS on August 14 were reported as 7% in excellent condition, 77% good and 16% fair. As of August 16, 93% of the soybeans were blooming compared to 100% last year and an average of 97%. Sixty-five percent of the crop was setting pods compared to 87% last year and an average of 82%.

ALFALFA HAY was reported as 28% excellent, 66% good and 6% fair on August 14. About 42% of the third cutting was complete on August 16 compared to 36% last year and an average of 38%.

PASTURES on August 14 were reported as 30% excellent, 66% good, and 4% fair.

SOIL MOISTURE on August 14 was reported as 2% short, 72% adequate, and 26% surplus.

For the week ending August 14, there were **0.00 DAYS SUITABLE** for **FIELDWORK**.

TEMPERATURES: From August 10 thru August 16 a persistent, cool period continued with the weekly means ranging from 1 degree below to 5 degrees below the normal.

PRECIPITATION: The weekly totals over the State ranged from trace amounts to over 7.00 inches. There were general light rainfalls over the southern two-thirds of the State. Widespread thunderstorm activity, along with heavy rains on the 14th, drenched the northern third of the State with rainfall amounts varying from nearly 1.00 inch to over 7.00 inches. Sterling reported 7.60 inches, Pontiac 5.30 inches, and numerous localities in excess of 3.00 inches.

The Outlook for the period August 18 thru August 24 indicates temperatures will be above normal for most of the State and near normal in the extreme South. Precipitation amounts will be near normal over the northern quarter of the State and above normal in other areas.

SOIL MOISTURE MEASUREMENTS

Soil moisture increased during the past week in moderately well-drained Flanagan soil in Champaign County according to measurements taken by the Illinois State Water Survey on August 10. A total of 3.58 inches of precipitation was received during the previous week, mostly coming during one intense storm of 2.57 inches on August 9. Soil moisture from the surface to about 7 feet increased from about 56% of potential plant available soil moisture (Note that this value was quoted incorrectly as 31% in the report of August 3.) to about 64% this week. Percent of potential plant available moisture increased from 55% to 108% in the layer from the surface down to 4 inches during the past week, from 52% to 68% in the 4 to 12 inch layer, and from 47% to 62% in the 12 to 20 inch layer. The value of 108% for the top layer means that field capacity has been exceeded and the surplus (above 100%) will rapidly percolate down through the soil profile. This large increase resulted from the considerable precipitation in combination with the reduced evapotranspirational loss over the same period.

Soil moisture was also monitored by the Illinois State Water Survey at the following locations in Illinois on August 12-13.

Site	County	Inches of Soil Moisture	
		Total Soil Moisture Surface to 20 inches	Change from 2 weeks ago
Shabbona	De Kalb	6.0	-0.2
Monmouth	Warren	5.4	-0.7
Appleton	Knox	5.6	-0.3
Perry	Pike	5.9	-0.2
Topeka	Mason	3.2	-1.0
Bondville	Champaign	6.9	-0.5
Dixon Springs	Pope	6.1	+0.3
Brownstown	Fayette	4.8	-1.0

The soil moisture values in the above table are for total moisture in the soil column, not just plant available moisture.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Corn: % dented (as of Aug. 16)	30	28	30	28	24	28	30	40	50	30	37
Soybeans: % bloomed (as of August 16)	96	98	90	94	95	92	92	85	90	93	97
Alfalfa: % 3rd crop cut (Aug. 16)	35	35	35	30	50	50	55	75	75	42	38
Days suitable for fieldwork: (week ending Aug. 14)	5.0	3.5	5.5	3.5	4.5	6.0	4.5	6.0	7.0	5.00	
Soil moisture % (as of Aug. 14) Short	--	--	--	--	--	--	--	--	20	2	
Adequate	75	55	75	40	65	65	90	100	80	72	
Surplus	25	45	25	60	35	35	10	--	--	26	

Illinois Weather & Crops (ISSN: 0273-8635) is published weekly April-November, monthly December-March by the Illinois Department of Agriculture, Illinois Cooperative Crop Reporting Service, Room 218, Federal Building, 600 East Monroe, Springfield, IL 62701. This publication is free upon request to the above address. Postmaster: Send Change of Address Form 3579 to P.O. Box 429, Springfield, IL 62705.

Illinois Weather & Crops
August 17, 1981

ILLINOIS WEATHER

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	May	June	June 29- July 5	July 6- 12	July 13- 19	July 20- 26	July 27- Aug. 2	Aug. 3- 9	Aug. 10- 16
Chicago	-3	+2	+2	+5	+5	-2	-6	0	-1
Moline	-3	0	0	+4	+3	-3	-8	-3	-3
Springfield	-3	+2	+1	+6	+4	+1	-5	+1	-3
So. Central	-4	+2	0	+4	+5	-3	-6	+2	-2

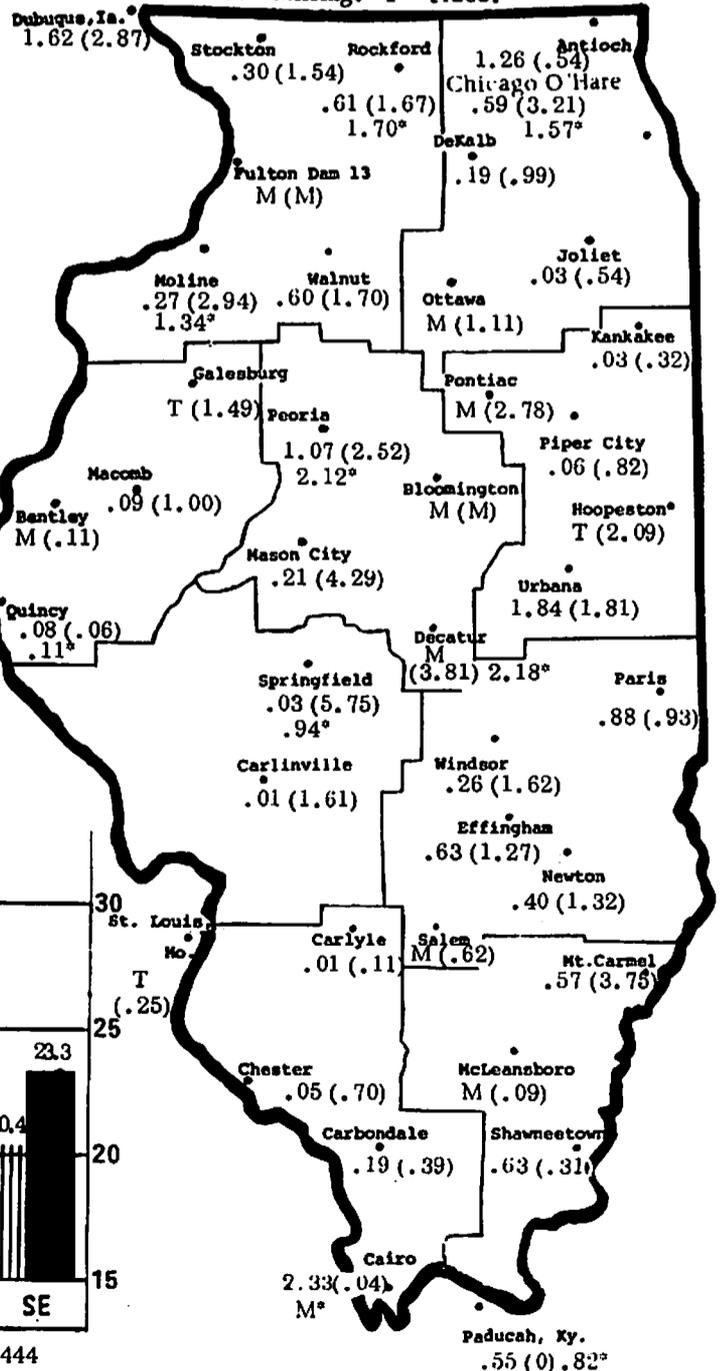
STATION	August 14			August 17			
	Maxi- mum	Mini- mum	Aver- age	Temperatures Week ending Fri. 6 A.M.	Growing Degree Days* Week ending Mon. 6 A.M.	Current 3-year Totals	Totals :1980 :1981
Dubuque, IA	--	--	--			137	2105 2313 2169
Moline	84	55	71			149	2363 2446 2359
Rockford	85	55	71			145	2153 2186 2180
Chicago O'Hare	86	58	71			146	2169 2166 2212
Quincy	83	58	72			153	2597 2753 2485
Decatur	82	59	69			139	2481 2554 2449
Peoria	83	58	72			158	2369 2445 2532
Springfield	86	56	72			156	2566 2672 2692
Cairo	88	65	76			174	2915 2966 3020
St. Louis	--	--	--			182	2827 2977 2936

* Totals are accumulated from April 1.

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 55 degrees, then 25 GDD's will have been accumulated.

PRECIPITATION:

First figure--current week, August 7-13
Parentheses--previous week
Asterisk--Friday-Sunday
M--Missing. T--Trace.



ACCUMULATED PRECIPITATION (Inches)

LEGEND: Normal | Actual

April 1-August 31

April 1- August 13

