

ILLINOIS

WEATHER & CROPS



ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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CROP HI-LITES

*** Corn - 90% silked (tasseled), 25% dough
 *** Soybeans - 78% blooming, 35% setting pods
 *** Soil Moisture - 2% short
 48% adequate
 50% surplus

CORN condition on Friday, July 23, was reported as 44% excellent, 53% good and 3% fair. Ninety percent of the corn crop was tasseled on Sunday, July 25, compared to 79% last year and the 5-year average (1977-81) of 79%. Twenty-five percent of the crop was in the dough stage compared to 20% last year and an average also of 20%.

SOYBEANS on July 23 were reported as 24% in excellent condition, 67% good and 9% fair. Twenty-eight percent of the soybeans were blooming as of July 25 compared to 60% last year and an average of 68%. Thirty-five percent of the crop was setting pods compared to 20% last year and an average of 28%.

The **OATS** crop on July 25 was 85% ripe compared to 98% last year and an average of 93%. Thirty-five percent of the crop was combined compared to 60% last year and an average of 55%.

ALFALFA HAY was reported as 18% excellent, 71% good and 11% fair on July 23. About 67% of the second crop was cut by July 25 compared to 81% last year and an average of 79%.

PASTURES on July 23 were reported as 37% excellent, 61% good and 2% fair.

SOIL MOISTURE was reported as 2% short, 48% adequate and 50% surplus on July 23.

There were 3.00 **DAYS SUITABLE FOR FIELDWORK** for the week ending July 23.

WEATHER

TEMPERATURES for the period of July 19 thru July 25 averaged from 1 degree below normal to 3 degrees above normal throughout the State. Maximum readings again climbed into the 90's in central and southern sections.

PRECIPITATION amounts were heavy in the north and central sections and light to moderate in the southern areas. Amounts ranged from 1 to 4 inches in the North and around .50 of an inch in the southern section. Some areas recorded no rainfall. Scattered thunderstorms gave localized areas nearly 3.90 inches during a 24-hour period causing flooding.

The **OUTLOOK** for the period of July 27 thru August 2 is for temperatures to be near normal and precipitation to be above normal.

JUNE WEATHER SUMMARY

Average monthly **TEMPERATURES** ranged from 3 to 7 degrees below normal throughout the State. The West District had the largest below normal variation (7.1 degrees below normal). A cool trend which started during the first week of the month continued throughout June. During the month, minimum temperatures in the North dropped into the 40's.

PRECIPITATION was below normal in many districts of the State except the West-Southwest and the Southwest Districts. The largest below normal variation was in the West District, while the largest above normal variation was in the West-Southwest District. During most of the month, rainfall was heavy in the northern sections while the South was dry. Scattered thunderstorms throughout the month gave some local areas more than 1 inch of rain a week.

The **EXTENDED OUTLOOK** from July 15 to August 15 is for temperatures 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) decreased during the week prior to July 19. Soil moisture from the surface to about 7 feet decreased from 73% of Potential Plant Available Moisture (PPAM) to 70% of PPAM. In that same week the top four inches went from 51% to 39% of PPAM. Precipitation during the week prior to the measurement amounted to 0.10 inch.

Soil moisture (from the surface to a depth of 20 inches) was measured at the following locations in Illinois on July 13-15:

Site	County	Soil Moisture (inches)	Change from late June
Freeport	Stephenson	4.8	-0.7
Shabbona	De Kalb	6.2	-0.2
Monmouth	Warren	5.8	+0.6
Appleton	Knox	5.0	+0.7
Perry	Pike	5.2	M
Topeka	Mason	2.7	-0.3
Bondville	Champaign	5.1	+0.5
Brownstown	Fayette	6.1	+0.6
Belleville	St. Clair	5.2	+0.3
Dixon Springs	Pope	5.7	+0.5

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
% silked (tasseled) of July 25)	80	85	90	95	98	90	90	95	90	90	79
Soybeans: % bloomed (as of July 25)	65	75	80	85	90	70	75	70	80	78	68
Days suitable for fieldwork: (week ending July 23)	2.0	2.0	3.5	2.0	3.0	3.0	2.5	5.5	4.5	3.00	
Soil moisture %: (as of July 23)											
Short	-	-	-	-	-	-	-	15	-	2	
Adequate	-	-	40	60	40	75	65	55	100	48	
Surplus	100	100	60	40	60	25	35	30	-	50	

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PRELIMINARY DISTRICT PRECIPITATION AVERAGES AND DEPARTURES FROM NORMAL IN INCHES

	NW	NE	W	C	E	WSW	ESE	SW	SE
June	3.78	3.05	3.68	3.36	3.59	5.03	3.63	4.50	3.22
Departure	-0.59	-1.05	-1.21	-0.92	-0.55	+0.26	-0.91	+0.18	-1.02

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	May	June	June 29- July 5	July 6- 12	July 13- 19	July 20- 26
Chicago	+6	-6	-3	+3	+7	+3
Peoria	+7	-4	0	+2	+4	+2
Springfield	+7	-5	0	+2	+4	+1
St. Louis	+6	-4	0	+2	+2	+2

Station	Week ending Monday, 6 A.M., July 26						
	Temperatures			Growing degree days 1/			
	Maxi- mum	Mini- mum	Aver- age	Current year	3-yr. av. 2/	Totals 1981	Totals 1982
Moline	88	62	75.9	180	1865	1903	1861
Rockford	87	61	74.9	172	1667	1734	1714
Chi. O'Hare	89	61	75.1	171	1682	1770	1612
Quincy	88	63	75.0	174	2038	1998	1830
Decatur	88	64	76.3	181	1950	1997	1845
Peoria	88	62	76.4	182	1889	2037	1928
Watseka	88	60	73.6	163	3/	1794	1707
Springfield	92	63	76.9	183	2052	2177	2042
Brownstown	92	63	77.0	179	3/	2237	1959
St. Louis	92	66	80.4	203	2289	2362	2206
Dixon Springs	93	65	80.4	194	3/	2416	2230

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

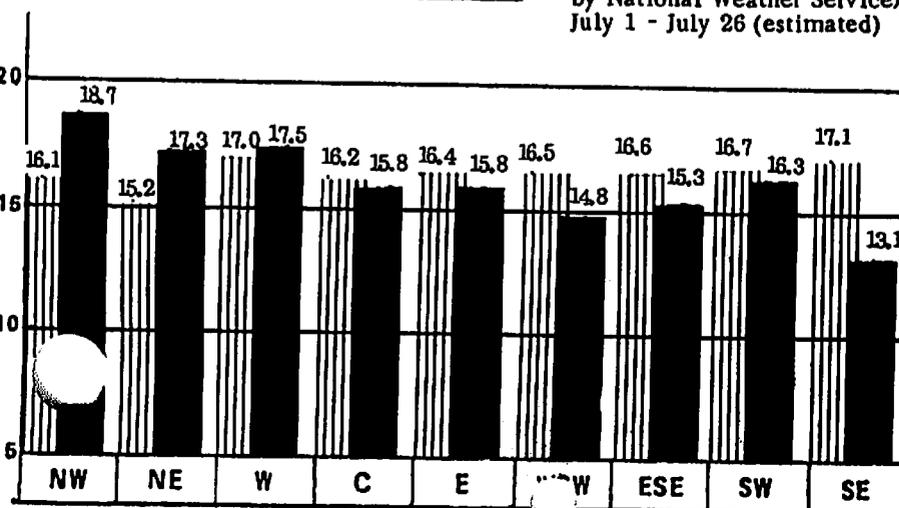
Growing degree days (GDD's) are calculated by subtracting a 50-degree (F) base temperature from the average of the maximum and minimum temperatures for the day. The daily maximum temperature is limited to 86 degrees (F) and daily minimum to 50 degrees (F). Thus, if the mean temperature for the day is 75 degrees, then 25 GDD's will have been accumulated.

ACCUMULATED PRECIPITATION (Inches)

LEGEND: Normal | Actual

April 1-July 31

April 1-July 26
 April 1-June 30 (reported by National Weather Service)
 July 1 - July 26 (estimated)



PRECIPITATION:
 First figure--Current week, July 20-26
 Parentheses--Previous week
 M--Missing. T--Trace.

