

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

CONTRIBUTORS:

National Weather Serv. Forecast Office (Chicago)
Midwest Agr. Weather Serv. Ctr. (W. Lafayette, Ind.)
Illinois State Water Survey Div., DENR (Champaign)

RELEASED: SEPTEMBER 19, 1983, 3 P.M., CDT

VOL.4, NO.27

WEATHER

The week of September 12 to 18 was another one of contrast across the State. For the most part Northern and Central Illinois experienced below normal TEMPERATURES and substantial rainfall amounts. Temperature-wise, the only exception was on Sunday when southwest winds pushed temperatures 8 to 15 degrees above normal. Temperatures across Southern Illinois varied considerably during the week. On Wednesday and Thursday temperatures ran 7 to 8 degrees below normal but on Sunday temperatures warmed up to 11 to 16 degrees above normal.

In regard to RAINFALL the area around Decatur and Springfield received on the order of .5 inches whereas further north and west, most areas received anywhere from 1.50 to 2.75 inches. Rainfall continued to be very light throughout Southern Illinois, with amounts generally less than .25 of an inch.

The OUTLOOK for the week of September 19 to 25 calls for a chance of thunderstorms on Monday across Southern Illinois with showers and thunderstorms likely on Tuesday. The remainder of the week should be cooler with a chance of showers and thunderstorms. Across Northern Illinois there will be showers and thunderstorms on Monday. The remainder of the week should be much cooler and fairly dry.

STATE WATER SURVEY DIVISION

Soil moisture was measured by the State Water Survey Division at sites of the Illinois Climatological Network throughout the State during the past week. These values are for total soil moisture, not Potential Plant Available Moisture.

Site	County	Inches of Soil Moisture	
		Total Soil Moisture, surface to 20"	Change in last half month
Freeport	Stephenson	4.5	+0.2
Shabbona	De Kalb	5.7	-0.1
Mommouth	Warren	4.2	+0.8
Appleton	Knox	2.9	-0.2
Peoria	Tazewell	3.6	-0.5
Topeka	Mason	2.1	-0.3
Bondville	Champaign	3.7	-0.4
Perry	Pike	2.8	-0.1
Springfield	Sangamon	3.4	-0.4
Brownstown	Fayette	2.7	+0.8
Olney	Richland	3.7	+0.1
Salem	Marion	2.9	+0.1
Belleville	St. Clair	4.3	+0.4
Ina	Jefferson	3.5	-0.2
Carbondale	Jackson	2.3	+0.1
Dixon Springs	Pope	2.8	No change

CROP HI-LITES

- *** Corn - 78% mature, 8% harvested
- *** Soybeans - 85% turning yellow, 60% shedding leaves, 9% harvested
- *** Soil Moisture - 85% short, 15% adequate.

There were 5.75 DAYS SUITABLE for FIELDWORK for the week ending Friday, September 16. Temperatures moderated last week over the State, while northern and central areas received some rain. In northern areas, enough rain has fallen to cause some improvement in pastures.

Seventy-eight percent of the CORN acreage was mature as of Sunday, September 18. In 1982, 83% was mature while the 5-year average (1978-82) was 72%. Eight percent of the crop has been harvested for grain, compared to 4% for both last year and the average. Condition of the corn on Friday, September 16 was 8% good, 46% fair, 43% poor, and 3% a failure. Comments from reporters indicate increasing concern over potential lodging and ear droppage if high winds occur.

Eighty-five percent of the SOYBEAN acreage was turning yellow on Sunday, September 18. Last year, 85% of the soybeans were turning yellow while the 5-year average was 76%. Sixty percent of the crop was shedding leaves, compared to 57% in 1982 and 46% for the average. Nine percent of the soybeans have been harvested, compared to 4% for both 1982 and the average. Condition of the crop on Friday, September 16, was 10% good, 62% fair, and 28% poor.

Less than 5% of the WINTER WHEAT acreage has been seeded, compared to 1% last year and 3% for the average.

PASTURE condition on Friday, September 16, was 5% good, 25% fair, 54% poor, and 16% a failure.

SOIL MOISTURE was reported to be 85% short and 15% adequate on Friday, September 16.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

Crop and Soil Characteristics	NW	NE	W	C	E	WSW	ESE	SW	SE	STATE	5-YR. AVG.
Soybeans: % turning yellow											
as of Sept. 18)	88	78	94	95	92	90	86	62	65	85	76
as suitable for fieldwork:(week ending Sept. 16)	5.0	4.5	5.0	5.5	5.5	6.0	6.5	6.5	6.5	5.75	
Soil moisture % (as of Sept. 16)											
Short:	40	45	95	90	85	100	100	95	90	85	
Adequate:	60	55	5	10	15	0	0	5	10	15	

NON PROFIT ORG.
U.S. POSTAGE
PAID
SPRINGFIELD, IL
PERMIT NO. 600

Illinois Weather & Crops
September 19, 1983

CROP CONDITIONS BY REGIONS ON FRIDAY, SEPTEMBER 16

	Corn					Soybeans				
	N	N.Cen.	S.Cen.	S	State	N	N.Cen.	S.Cen.	S	State
Good (%)	20	0	5	0	8	30	5	5	10	10
Fair (%)	65	45	30	40	46	65	75	50	55	62
Poor (%)	15	50	55	60	43	5	20	45	35	28
Failure (%)	0	5	10	0	3	0	0	0	0	0

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

	June	July	August 2-8	August 9-15	August 16-22	August 23-29	August 30-Sept. 5	Sept. 6-12	Sept. 13-19
Chicago	+1	+4	+6	+3	+10	+6	+9	+7	-2
Peoria	+1	+5	+5	+3	+14	+11	+9	+9	+2
Springfield	+1	+4	+4	+3	+12	+9	+7	+9	+2
St. Louis	+1	+5	+6	+2	+13	+11	+6	+12	+2

Station	Week ending Monday, 6 A.M., Sept. 19									
	Temperatures		Growing degree days 1/		Maxi--Mini--Aver--Current		3-yr. Totals		Totals	
	max	min	age	week	av. 2/	1982	1983	1982	1983	
Moline	85	42	63.6	102	3042	2998	3129			
Rockford	89	48	60.9	83	2776	2706	2870			
Chicago O'Hare	84	44	62.4	91	2790	2652	2825			
Quincy	91	46	65.5	109	3230	2995	3203			
Decatur	94	46	68.4	128	3118	2971	3063			
Peoria	90	45	67.1	121	3159	3064	3216			
Watseka 3/	91	42	63.2	101	2779	2759	2872			
Springfield	93	45	69.6	136	3361	3233	3274			
Brownstown 3/	92	48	71.4	145	3208	3029	3221			
St. Louis	95	53	71.6	147	3677	3524	3612			
Mazon Springs 3/	93	48	73.7	161	3602	3542	3519			

Totals are accumulated from April 1.
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 September 19

Station	Current		Normal		Accumulations		Departures	
	week	1/	Apr. 1	May 31	in 1983 since	Apr. 1	May 31	from normal
Rockford	1.44	0.84	19.46	10.58	- 3.61	- 4.69		
Chicago O'Hare	2.61	0.77	29.30	15.25	+ 9.18	+ 1.73		
Watseka	1.48	0.77	20.83	10.71	- 2.25	- 3.97		
Peru	1.80	0.77	23.09	11.96	+ 1.73	- 1.60		
Moline	3.23	0.84	20.61	13.81	- 2.79	- 1.49		
Peoria	2.72	0.84	24.16	10.60	+ 2.92	- 3.14		
Monmouth	1.82	0.84	16.94	8.64	- 4.92	- 6.02		
Quincy	1.35	0.91	17.18	6.57	- 3.96	- 7.07		
Springfield	0.53	0.70	13.89	5.80	+ 5.38	- 6.27		
Decatur	0.10	0.77	23.69	8.91	+ 1.22	- 5.46		
Urbana	0.20	0.70	26.31	15.23	+ 4.88	+ 1.30		
Belleville	0.13	0.77	15.09	4.76	- 5.04	- 8.17		
Evansville, IN	0.04	0.63	27.46	8.30	+ 6.48	- 4.28		

30-year average (1951-80).

PRECIPITATION:

First figure--Current week, 9/13-19
Parentheses--Previous week
M--Missing. T--Trace

