

# ILLINOIS

## WEATHER & CROPS



### ILLINOIS COOPERATIVE CROP REPORTING SERVICE

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CROP HI-LITES

- \*\*\* Soybeans - 97% planted
- \*\*\* Wheat - 92% filled, 60% turning yellow
- \*\*\* Soil Moisture - 20% short, 78% adequate  
2% surplus

There were 6.25 DAYS SUITABLE for FIELDWORK for the week ending Friday, June 17. Warmer and mostly dry weather prevailed across the State and allowed crop conditions to improve. Rain occurred Tuesday in most areas, although amounts varied widely.

CORN planting is virtually complete in most areas of the State. The average height of all corn as of Sunday, June 19, was 12 inches compared to 24 inches last year and the 5-year average (1978-82) of 19 inches. The height of the most advanced fields was 20 inches, compared to 37 inches last year and the average of 31 inches. The condition on Friday, June 17, was reported to be 5% excellent, 77% good, and 18% fair. Some problems with armyworms were reported in southern areas.

SOYBEAN planting as of June 19 was 97% complete, compared to 94% for both last year and the 5-year average. The crop was reported as 85% of a full stand compared to 87% last year. Condition as of Friday, June 17, was reported to be 3% excellent, 70% good, and 27% fair. Reports indicate some uneven stands due to poor emergence.

SORGHUM planting was 75% complete compared to 77% last year and the average of 80%.

WINTER WHEAT condition on Friday, June 17, was 7% excellent, 73% good, 16% fair and 4% poor. On Sunday, June 19, 92% of the crop was filled, compared to 100% last year and the 5-year average of 99%. Sixty percent of the crop was turning yellow compared to 86% last year and the average of 77%. Less than 5% of the wheat is ripe compared to 24% for both last year and the average. Comments indicate continuing problems with leaf diseases in the wheat.

Condition of the OATS crop on Friday was 5% excellent, 66% good, 23% fair and 6% poor. The crop was 56% headed on June 19, compared to 77% for last year and the average of 70%. Thirty percent of the oats was filled, compared to 46% last year and the average of 35%.

ALFALFA condition on June 17 was 12% excellent, 73% good, and 15% fair. Cutting of the first crop was 84% complete, compared to 81% last year and the average of 87%.

CLOVER HAY condition was reported as 13% excellent, 78% good, and 9% fair. Seventy-two percent of the crop has been cut, compared to 64% last year and 71% for the average.

PASTURE condition was reported as 21% excellent, 70% good, and 9% fair.

SOIL MOISTURE ON Friday, June 17, was reported as 20% short, 78% adequate, and 2% surplus. Warm and windy conditions dried the topsoil in many areas last week.

WEATHER

TEMPERATURES for the period of June 13 thru June 19 averaged from 1 degree below normal to 3 degrees above normal throughout the State as a cool period ended after six straight weeks. The coolest sections were in the western half of Illinois. A warm period developed sending maximum readings into the upper 80's to low 90's.

PRECIPITATION was moderate over the northern, central, and eastern portions of the State and light in the west and southwest areas. Amounts ranged from .07 of an inch to 1.80 inches. Some local areas in the Southeast recorded around 1.80 inches of rain.

The OUTLOOK for June 21 thru 27 is for temperatures to be above normal and precipitation to be below normal.

MAY WEATHER SUMMARY

Average monthly TEMPERATURES ranged from 3 to 4 degrees below normal throughout the State. The West District had the largest below normal variation (5.0°). Minimum readings fell into the 30's during the third and fourth weeks and several new records were set, mainly in the North. PRECIPITATION was above normal in all districts except the West. The largest above normal variation was in the Southeast District. During the entire month, rainfall was heavy in the South while the northwest and west sections received the lightest amounts. Nearly 11 inches were recorded at several southern areas during the month with 2 to 3 inches of rain being recorded during a 24-hour period on several occasions. Flooding was common causing severe damage, with the "Big Muddy River" reaching near record levels. The Extended Outlook from June 15 to July 15, 1983 is for temperatures and precipitation to be near normal.

STATE WATER SURVEY DIVISION

The State Water Survey Division reports that Potential Plant Available Moisture (PPAM) decreased in the moderately well-drained Flanagan soil four miles south of Bondville in Champaign County during the week ending June 17. Precipitation totaled 0.76 of an inch last week. In the soil layer from the surface to 4 inches the PPAM increased from 15% to 37%; at the 4 to 12-inch depth, the PPAM did not change from 15%; and at the 12 to 20-inch depth, the PPAM decreased from 51% to 31%. Over the total soil column from the surface to nearly 7 feet, the PPAM decreased from 67% to 66%.

ILLINOIS CROP REPORTING DISTRICT SUMMARY

| Crop and Soil Characteristics                     | NW  | NE  | W   | C   | E   | WSW | ESE | SW  | SE  | STATE | 5-YR. AVG. |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------------|
| Soybeans: % planted (as of June 19)               | 100 | 98  | 99  | 100 | 100 | 98  | 95  | 90  | 90  | 97    | 94         |
| Alfalfa Hay: % cut (as of June 19)                | 80  | 70  | 80  | 92  | 90  | 90  | 88  | 96  | 95  | 84    | 87         |
| Days suitable for fieldwork:(week ending June 17) | 6.0 | 6.0 | 7.0 | 5.0 | 6.0 | 7.0 | 5.5 | 7.0 | 7.0 | 6.25  |            |
| Soil moisture % (as of June 17)                   |     |     |     |     |     |     |     |     |     |       |            |
| Short:  | 40  | 15  | 40  | 10  | 25  | 5   | 0   | 25  | 25  | 20    |            |
| Adequate:   | 60  | 85  | 60  | 75  | 75  | 95  | 100 | 75  | 75  | 78    |            |
| Surplus:  | 0   | 0   | 0   | 15  | 0   | 0   | 0   | 0   | 0   | 2     |            |

Illinois Weather & Crops  
 June 20, 1983

PRELIMINARY DISTRICT PRECIPITATION AVERAGES AND DEPARTURES FROM NORMAL IN INCHES

|           | NW    | NE    | W     | C     | E     | WSW   | ESE   | SW    | SE    |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| May       | 4.84  | 4.84  | 2.93  | 5.49  | 4.79  | 6.19  | 6.18  | 6.48  | 9.37  |
| Departure | +0.97 | +1.26 | -1.05 | +1.52 | +0.62 | +1.92 | +1.76 | +1.86 | +4.69 |

MONTHLY AND WEEKLY TEMPERATURE DEPARTURES IN DEGREES

|             | April | May | May 31-<br>June 6 | June 7-<br>13 | June 14-<br>20 |
|-------------|-------|-----|-------------------|---------------|----------------|
| Chicago     | -5    | -6  | -6                | +2            | +1             |
| Peoria      | -5    | -3  | -6                | +2            | +1             |
| Springfield | -6    | -4  | -7                | +1            | +1             |
| St. Louis   | -6    | -3  | -5                | -1            | +1             |

Station : Week ending Monday, 6 A.M., June 20

Station : Temperatures : Growing degree days 1/  
 : Maxi-:Mini-:Aver-:Current:3-yr.:Totals:Totals  
 :mum :mum : age : week :av.2/: 1982 : 1983

|                  |      |    |      |       |      |      |      |
|------------------|------|----|------|-------|------|------|------|
| Moline           | : 89 | 53 | 73.3 | : 159 | 1005 | 992  | 828  |
| Rockford         | : 89 | 53 | 70.7 | : 143 | 892  | 916  | 700  |
| Chicago O'Hare   | : 91 | 54 | 69.4 | : 131 | 861  | 846  | 649  |
| Quincy           | : 85 | 56 | 72.7 | : 159 | 1058 | 972  | 781  |
| Decatur          | : 86 | 60 | 72.6 | : 157 | 1039 | 979  | 786  |
| Peoria           | : 89 | 55 | 72.8 | : 159 | 1043 | 1054 | 841  |
| Watseka 3/       | : 89 | 58 | 73.4 | : 159 | 950  | 929  | 760  |
| Springfield      | : 90 | 56 | 74.6 | : 167 | 1148 | 1132 | 885  |
| Brownstown 3/    | : 95 | 58 | 74.1 | : 163 | 1184 | 1085 | 828  |
| St. Louis        | : 88 | 59 | 76.3 | : 182 | 1278 | 1232 | 1018 |
| Dixon Springs 3/ | : 89 | 53 | 73.4 | : 161 | 1365 | 1292 | 1013 |

1/ Totals are accumulated from April 1. 2/ 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 June 20

| Station        | :Current:<br>: week | : Normal:<br>: 1/ | : Accumulations since Apr.1<br>: 1983 | : Normal 1/<br>: 1983 | : Departure |
|----------------|---------------------|-------------------|---------------------------------------|-----------------------|-------------|
| Rockford       | : 0.57              | 1.05              | 9.69                                  | 10.92                 | - 1.23      |
| Chicago O'Hare | : 0.75              | 0.98              | 16.37                                 | 9.50                  | + 6.87      |
| Watsaka        | : 0.94              | 1.05              | 12.01                                 | 11.43                 | + 0.58      |
| Peru           | : 1.20              | 0.91              | 12.79                                 | 10.53                 | + 2.26      |
| Moline         | : 0.78              | 0.98              | 8.33                                  | 11.04                 | - 2.71      |
| Peoria         | : 1.22              | 0.91              | 15.14                                 | 10.22                 | + 4.92      |
| Monmouth       | : 0.25              | 0.98              | 9.31                                  | 10.12                 | - 0.81      |
| Quincy         | : 0.50              | 0.84              | 12.17                                 | 10.03                 | + 2.14      |
| Springfield    | : 0.82              | 0.84              | 9.62                                  | 9.66                  | - 0.04      |
| Decatur        | : 1.14              | 1.05              | 17.24                                 | 11.13                 | + 6.11      |
| Urbana         | : 6.07              | 0.91              | 18.61                                 | 10.17                 | + 8.44      |
| Belleville     | : 0.60              | 0.91              | 12.63                                 | 9.92                  | + 2.71      |
| Evansville, IN | : 1.17              | 0.84              | 23.29                                 | 10.94                 | +12.35      |

1/ 30-year average (1951-80).

PRECIPITATION:  
 First figure-Current week, 6/14-20  
 Parentheses--Previous week  
 M--Missing. T--Trace

