



# Indiana Crop & Weather Report

INDIANA AGRICULTURAL STATISTICS  
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## CROP REPORT FOR WEEK ENDING JUNE 15

Crop progress remains slow due to continued wet conditions according to the Indiana Agricultural Statistics Service. Heavy rainfall on already saturated soil caused ponding in many areas. Drier soil conditions are needed for applying nitrogen to corn, herbicides to corn and soybeans, replanting drowned out crops, as well as for baling alfalfa.

### CORN AND SOYBEANS

**Corn planting** is complete, although replanting is necessary in many areas. Condition of the crop is 2 percent good to excellent, 38 percent fair, and 0 percent poor to very poor. **Soybean planting** is 93 percent complete. This is well ahead of 43 percent last year, and the average of 82 percent. By region soybean planting is 97 percent complete in the north, 97 percent complete in the central, and 79 percent complete in the south. Soybeans will also need to be replanted in many drowned out areas.

### WINTER WHEAT

Winter wheat **condition** is rated 66 percent good to excellent, compared with 34 percent at this time last year. Statewide, 96 percent of the wheat is **headed**, compared with 95 percent last year and the average of 99 percent. Ripening of the crop has been slowed by cool, wet weather.

### OTHER CROPS

**Pasture condition** was rated 12 percent excellent, 57 percent good, 27 percent fair, 3 percent poor and 1 percent very poor. Transplanting of **tobacco** is 45 percent complete. First cutting of **alfalfa** is 36 percent complete.

### DAYS SUITABLE and SOIL MOISTURE

For the week ending Friday, 1.8 days were rated **suitable for fieldwork**. **Topsoil moisture** was rated 42 percent adequate and 58 percent surplus. **Subsoil moisture** was rated 50 percent adequate and 0 percent surplus.

#### CROP PROGRESS

| Crop                | This Week | Last Week | Last Year | 5-Year Avg |
|---------------------|-----------|-----------|-----------|------------|
| Percent             |           |           |           |            |
| Soybeans Planted    | 93        | 89        | 43        | 82         |
| Winter Wheat Headed | 96        | 80        | 95        | 99         |

#### CROP CONDITION

| Crop              | Very Poor | Poor | Fair | Good | Excellent |
|-------------------|-----------|------|------|------|-----------|
| Percent           |           |      |      |      |           |
| Corn              | 1         | 9    | 38   | 48   | 4         |
| Winter Wheat 6/15 | 1         | 4    | 29   | 55   | 11        |
| Winter Wheat 1996 | 6         | 20   | 42   | 29   | 3         |
| Pasture           | 1         | 3    | 27   | 57   | 12        |

#### SOIL MOISTURE

|                | This Week | Last Week | Last Year |
|----------------|-----------|-----------|-----------|
| Percent        |           |           |           |
| <b>Topsoil</b> |           |           |           |
| Very Short     | 0         | 0         | 0         |
| Short          | 0         | 0         | 0         |
| Adequate       | 42        | 31        | 19        |
| Surplus        | 58        | 69        | 81        |
| <b>Subsoil</b> |           |           |           |
| Very Short     | 0         | 0         | 0         |
| Short          | 0         | 0         | 0         |
| Adequate       | 50        | 43        | 29        |
| Surplus        | 50        | 57        | 71        |

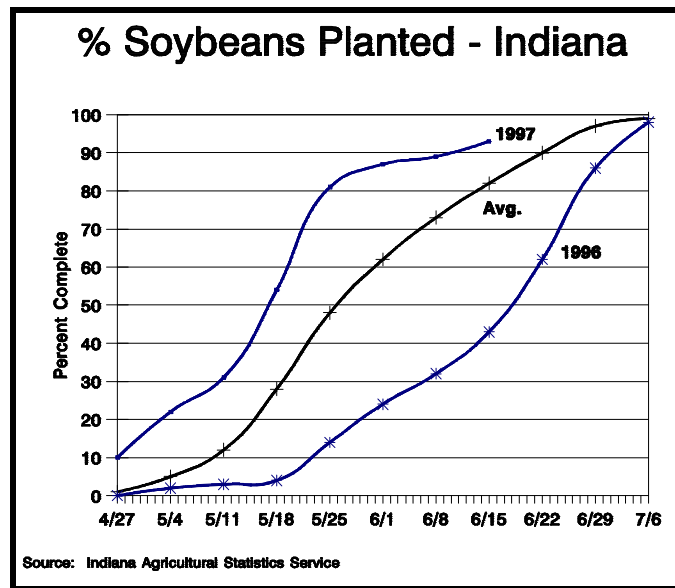
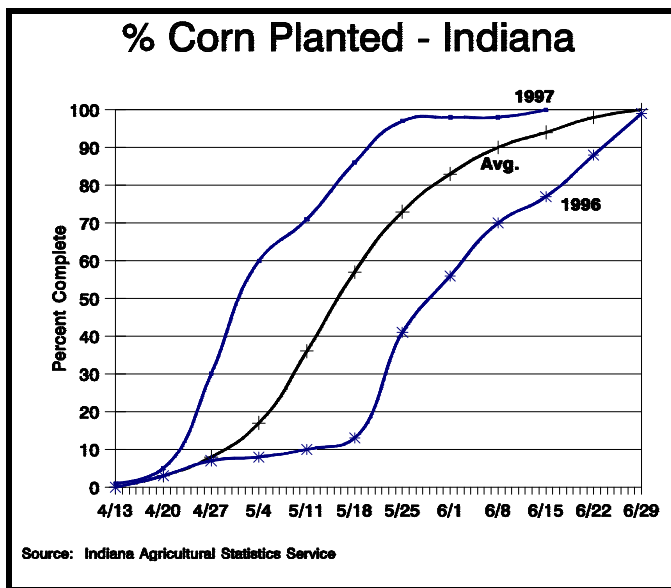
--Ralph W. Gann, State Statistician

--Lance Honig, Agricultural Statistician

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<http://info.aes.purdue.edu/agstat/nass.html>

# Crop Progress



## Soybeans Planted in Atrazine-treated Acreage

- ✓ This article is a reprint from last year's newsletter about this same time. My how time flies!
- ✓ It is not labeled to plant soybeans in a field previously (same year) treated with atrazine. Purdue does not recommend this practice.

Due to the lost corn stands from flooding many growers are seriously thinking about replanting of soybeans. However, many of these fields have already been treated with atrazine. Questions we're getting from growers is how can I determine how much atrazine is still in the soil (applied more than a month ago) and is this enough to injure soybeans.

The answers to these questions depends on several factors. First, the initial rate of the atrazine (pounds active ingredient) must be known. Obviously, the chances of raising a soybean crop is less risky if 1.0 pound of atrazine per acre was applied versus 2.0 pounds. Secondly, how long has the atrazine been applied and what is the soil type and pH of the treated fields? Without getting drawn into predicting levels of atrazine residues based on half-lives in various soil types, in general, much of the atrazine applied a month ago is still present in the soil.

Atrazine breaks down in the soil by two major degradation methods: microbial and hydrolysis. In a general sense, atrazine persistence is increased in soils that are high in pH (>7.0) and when conditions are cool and dry. Conversely, warm and wet soils with a low pH will promote atrazine breakdown.

Soybeans are sensitive to low levels of atrazine. As a rule of thumb, 0.25 ppm of atrazine is usually enough to kill or severely injure soybeans. That's roughly equivalent to 0.25 pounds of atrazine in the top 3 inches of soil (1 acre of soil = 1,000,000 pounds in top 3 inches).

How to quantify atrazine residues? At this late date, a chemical analysis of the soil may be the quickest option to obtain useful information. There are a number of private labs that will test soil for atrazine. Price per sample may range from \$40 to \$75. Typically, the numbers reported will be in ppm's. Turn around time is about a week to ten days. The Plant and Pest Diagnostic Lab has a list of private labs that perform this service.

Advantages: Quick.

Disadvantages: Expensive, test only as good as the sample pulled.

(Continued on Page 4.)

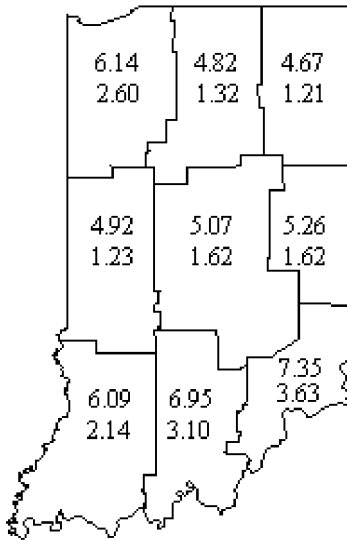
## Average Daily Values for week ending Monday morning June 16, 1997

| Area | Station         | Air         |     |    | Precipitation |               |                  | Growing Degree Days |               |                  |
|------|-----------------|-------------|-----|----|---------------|---------------|------------------|---------------------|---------------|------------------|
|      |                 | Temperature |     |    | Past Week     | Since April 1 | DN Since April 1 | Past Week           | Since April 1 | DN Since April 1 |
|      |                 | Max         | Min | DN |               |               |                  |                     |               |                  |
| NW   | Wanatah         | 78          | 51  | -3 | 3.01          | 10.98         | +1.58            | 116                 | 600           | -111             |
|      | Kentland        | 78          | 57  | -3 | 1.43          | 8.65          | -.92             | 127                 | 679           | -157             |
|      | Winamac         | 78          | 57  | -1 | 1.34          | 9.22          | -.08             | 127                 | 638           | -171             |
| NC   | South Bend      | 78          | 55  | -2 | .55           | 6.05          | -3.03            | 121                 | 600           | -133             |
|      | Waterford Mills | 80          | 53  | -2 | 1.25          | 7.75          | -.75             | 123                 | 615           | -158             |
| NE   | Prairie Heights | 79          | 56  | +0 | 1.10          | 7.59          | -1.40            | 125                 | 606           | -51              |
|      | Columbia City   | 79          | 57  | +0 | .97           | 9.30          | +1.10            | 128                 | 614           | -117             |
|      | Fort Wayne      | 79          | 57  | -2 | .88           | 9.33          | +1.68            | 129                 | 624           | -162             |
|      | Bluffton        | 79          | 60  | -1 | 1.15          | 10.43         | +1.96            | 137                 | 653           | -176             |
| WC   | West Lafayette  | 78          | 59  | -1 | 2.50          | 14.01         | +4.54            | 131                 | 690           | -116             |
|      | Lafayette       | 77          | 57  | -2 | 2.49          | 10.90         | +1.43            | 125                 | 739           | -67              |
|      | Perrysville     | 78          | 59  | -3 | .21           | 7.05          | -3.66            | 134                 | 733           | -269             |
|      | Crawfordsville  | 78          | 57  | -2 | 1.04          | 8.53          | -.89             | 123                 | 675           | -139             |
|      | Terre Haute 8s  | 80          | 56  | -3 | 1.65          | 12.13         | +1.95            | 130                 | 802           | -135             |
| C    | Tipton          | 76          | 56  | -3 | 2.20          | 12.11         | +2.65            | 116                 | 620           | -163             |
|      | Indianapolis    | 77          | 61  | -2 | .02           | 6.62          | -2.87            | 137                 | 731           | -196             |
|      | Indian Creek    | 79          | 58  | -2 | .94           | 9.91          | -.20             | 131                 | 754           | -135             |
| EC   | Farmland        | 79          | 58  | +0 | .64           | 9.31          | -.17             | 132                 | 679           | -77              |
|      | Liberty         | 78          | 58  | -1 | .64           | 9.35          | -1.03            | 130                 | 719           | -164             |
| SW   | Vincennes       | 79          | 60  | -2 | 1.41          | 10.22         | -.68             | 141                 | 845           | -141             |
|      | Dubois          | 78          | 59  | -3 | .33           | 13.53         | +2.27            | 131                 | 800           | -148             |
|      | Evansville      | 78          | 62  | -4 | 1.27          | 12.36         | +1.71            | 143                 | 870           | -248             |
| SC   | Bedford         | 78          | 57  | -3 | .38           | 13.00         | +2.07            | 125                 | 773           | -143             |
|      | Louisville      | 77          | 62  | -3 | .27           | 9.83          | -.83             | 142                 | 884           | -201             |
| SE   | Butlerville     | 79          | 58  | -3 | 1.03          | 11.21         | +1.86            | 132                 | 742           | -278             |

DN = departure from normal.

Growing Degree Days = daily mean - 50 (below 50 adjusted to 50, above 86 adjusted to 86.)

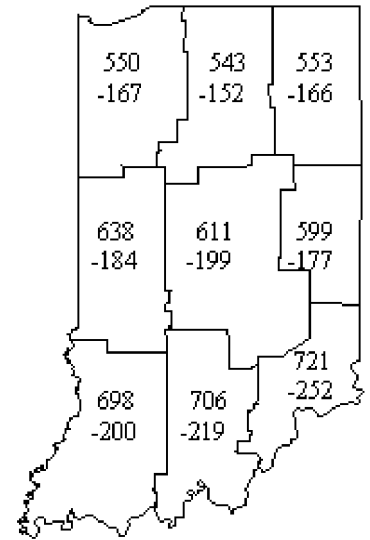
Rainfall for Past 4 Weeks  
and Departure from Normal



Rainfall of 1 Inch or More  
for Past 7 Days  
as of Monday morning



Growing Degree Days  
and Departure since April 1



## Soybeans (continued)

If planting soybeans in a field treated with atrazine, do not use soybean herbicides containing metribuzin (Sencor, Lexone, Canopy) or an "additive effect" with the atrazine will most likely occur resulting in injury. Chances are, no herbicide will be necessary when planting the soybeans. Just plant the soybeans and apply a postemergence product later if needed. And if the soybeans do die from the atrazine, at least you will not have more added herbicide costs to this field.

**Remember: This is very risky. Growers need to be aware that severe injury to soybeans may occur. A safer option would be to plant sorghum.**

--Dan Childs, Weed Science, Purdue University

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