# Indiana Crop & Weather Report

United States Dept of Agriculture

Indiana Agricultural Statistics Service
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Released: September 22, 2003
Vol. 53, No. 38


## CROP REPORT FOR WEEK ENDING SEPTEMBER 21

### AGRICULTURAL SUMMARY

Warm, sunny weather helped push corn and soybean fields toward maturity last week, according to the Indiana Agricultural Statistics Service. Farmers had ideal conditions for field activities. Corn harvest is gaining momentum in many of early maturing fields. Farmers were also harvesting soybeans in some areas of the state. Soybean leaves are rapidly turning color in most fields. Many farmers were making final preparations to equipment and grain bins. Precipitation was minimal in most areas of the state last week.

### FIELD CROPS REPORT

There were 6.7 **days suitable for fieldwork**. Eighty-nine percent of the corn acreage has reached the **dent** stage compared with 91 percent last year and 97 percent for the average. Thirty-eight percent of the corn acreage is **mature** (safe from frost) compared with 50 percent a year ago and 71 percent for the average. By area, 26 percent of the corn acreage is mature in the north, 47 percent in the central region and 47 percent in the south. Five percent of the corn acreage is **harvested** compared with 7 percent last year and 11 percent for the average. **Moisture** content of harvested corn is averaging 24 percent. Corn **condition** is rated 58 percent good to excellent compared with 28 percent last year at this time.

Fifty-seven percent of the soybean acreage is **shedding leaves** compared with 60 percent last year and 78 percent for the average. Twenty-two percent of the soybean acreage is rated as **mature** compared with 23 percent last year and 44 percent for the average. Five percent of the soybean acreage is **harvested** compared with 3 percent last year and 9 percent for the average. Soybean **condition** is rated 56 percent good to excellent compared with 31 percent last year at this time.

Major activities during the week were mowing and baling hay, preparing equipment for harvest, spreading fertilizer and lime, cleaning out grain bins and taking care of livestock.

### LIVESTOCK, PASTURE AND RANGE REPORT

**Pasture condition** is rated 8 percent excellent, 53 percent good, 25 percent fair, 10 percent poor and 4 percent very poor. Four percent of the **winter wheat** acreage is seeded compared with 3 percent last year and 4 percent for the average. Third cutting of **alfalfa** hay is 96 percent complete compared with 93 percent last year and 99 percent for the average. **Tobacco** harvest is 69 percent complete compared with 74 percent last year and 81 percent for the average. Livestock are in mostly good condition.

### CROP PROGRESS TABLE

| Crop | This Week | Last Week | Last Year | 5-Year Avg |
|---|---|---|---|---|
| | Percent | | | |
| Corn In Dent | 89 | 78 | 91 | 97 |
| Corn Mature | 38 | 23 | 50 | 71 |
| Corn Harvested | 5 | 2 | 7 | 11 |
| Soybeans Shedding Lvs | 57 | 33 | 60 | 78 |
| Soybeans Mature | 22 | 6 | 23 | 44 |
| Soybeans Harvested | 5 | NA | 3 | 9 |
| Winter Wheat Planted | 4 | 2 | 3 | 4 |
| Alfalfa Third Cutting | 96 | 88 | 93 | 99 |
| Tobacco Harvested | 69 | 53 | 74 | 81 |

### CROP CONDITION TABLE

| Crop | Very Poor | Poor | Fair | Good | Excel-lent |
|---|---|---|---|---|---|
| | | | Percent | | |
| Corn | 6 | 11 | 25 | 44 | 14 |
| Soybean | 6 | 10 | 28 | 46 | 10 |
| Pasture | 4 | 10 | 25 | 53 | 8 |

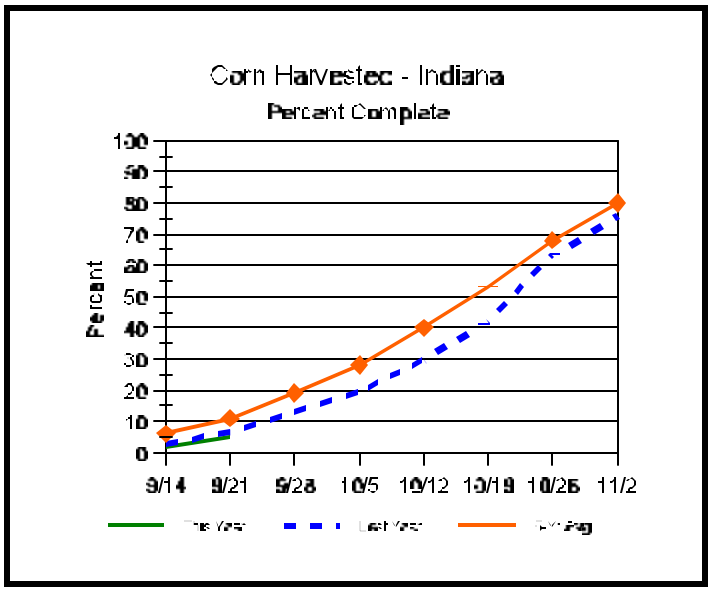
### SOIL MOISTURE & DAYS SUITABLE FOR FIELDWORK TABLE

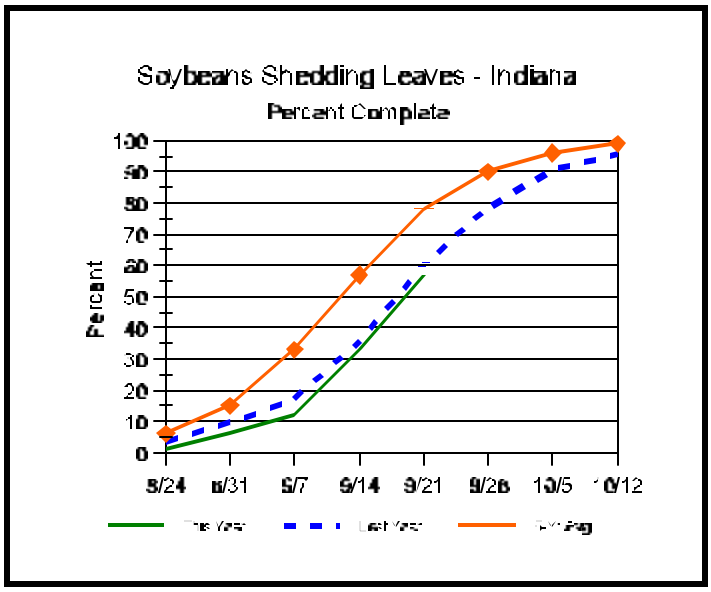
| | This Week | Last Week | Last Year |
|---|---|---|---|
| | | Percent | |
| **Topsoil** | | | |
| Very Short | 2 | 2 | 27 |
| Short | 15 | 9 | 37 |
| Adequate | 78 | 79 | 35 |
| Surplus | 5 | 10 | 1 |
| **Subsoil** | | | |
| Very Short | 4 | 3 | 38 |
| Short | 14 | 11 | 42 |
| Adequate | 76 | 76 | 20 |
| Surplus | 6 | 10 | 0 |
| **Days Suitable** | 6.7 | 6.2 | 5.2 |


### CONTACT INFORMATION

--Greg Preston, State Statistician
--Bud Bever, Agricultural Statistician
E-Mail Address: nass-in@nass.usda.gov
http://www.nass.usda.gov/in/index.htm

# Crop Progress




## Other Agricultural Comments And News

### Variety Selection and Seeding Rate for Soft Red Winter Wheat

- Plant high quality seed of several varieties.
- Adjust seeding rate according to seed size.
- Optimum plant population is around 30-35 plants/square foot.
- Plant timely and observe Hessian fly-free date.

When choosing among the many public and private wheat varieties that are available, select those varieties that have the combination of traits that best fit your production system. In addition to yield, certain traits dealing with disease resistance, winter hardiness, and earliness may also be important. It is likely that not any one single variety will contain all the traits that you consider important. Therefore, plant several varieties to help spread the risk associated with the various diseases and environmental stresses of your area. Information on southern Indiana variety trials can be obtained from the Warrick County Web site <http://www.ces.purdue.edu/warrick/ag>. Click on the **Crop Production Plots** link to get variety trial results. There is also a link to variety trails in other states at the **State Plots** link on that page. In addition, information is available from the Performance of Public and Private Small Grains Bulletin available on the WEB at <http://www.agry.purdue.edu/ext/variety.htm>. Then click on **2003 PDF** under **Small Grains**.

Seed might also be saved from the previous season if it is high quality and not contaminated with seed borne diseases like smut. Seed should be professionally cleaned to remove light, shriveled, low quality kernels. A seed treatment can also be applied. Good quality seed should have at least 85 to 95% germination.

The seeding rate for soft red winter wheat should be adjusted for seed size. Seed size can vary from less than 12,000 seeds per pound to more than 16,000 seeds per pound. Accordingly seeding rates can also vary from as little as 90 lb./acre for very small seeded varieties to as much as 165 lb./acre for large seeded varieties (see table). Optimum plant population is around 1.3 to 1.5 million plants/acre. The higher rates should be used for late-planted wheat (i.e., more than 3 weeks after the Hessian fly free date).

Seed should be sown 3/4 to 1 1/2 inches deep. This becomes especially important in no-till situations with heavy residue.It is important to get the seed through the residue and into the soil to assure good seed to soil contact and subsequent uniform germination and emergence. Wheat will be more winter hardy and less susceptible to winter heaving if well established

(Continued on Page 4)

# Weather Information Table

## Week ending Sunday September 21, 2003

| Station | Past Week Weather Summary Data | | | | | | | Accumulation April 1, 2003 thru September 21, 2003 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Air Temperature | | | | Precip. | | Avg 4 in Soil Temp | Precipitation | | | GDD Base 50°F | |
| | Hi | Lo | Avg | DFN | Total | Days | | Total | DFN | Days | Total | DFN |
| **Northwest (1)** | | | | | | | | | | | | |
| Chalmers_5W | 85 | 41 | 64 | -2 | 0.03 | 1 | 67 | 35.62 | +14.31 | 63 | 2777 | -140 |
| Valparaiso_AP_I | 82 | 43 | 63 | -2 | 0.07 | 1 | | 23.05 | +0.19 | 64 | 2596 | -68 |
| Wanatah | 83 | 37 | 62 | -2 | 0.16 | 2 | 71 | 24.09 | +1.94 | 68 | 2420 | -126 |
| Wheatfield | 84 | 40 | 63 | +0 | 0.00 | 0 | | 32.75 | +11.23 | 60 | 2653 | +50 |
| Winamac | 82 | 41 | 63 | -1 | 0.05 | 1 | 66 | 27.18 | +5.68 | 65 | 2615 | -66 |
| **North Central(2)** | | | | | | | | | | | | |
| Plymouth | 82 | 42 | 63 | -3 | 0.45 | 1 | | 23.86 | +2.01 | 64 | 2518 | -300 |
| South_Bend | 81 | 44 | 64 | +0 | 0.43 | 1 | | 20.26 | -0.96 | 61 | 2654 | +9 |
| Young_America | 83 | 41 | 64 | -2 | 0.00 | 0 | | 29.83 | +9.08 | 61 | 2765 | -5 |
| **Northeast (3)** | | | | | | | | | | | | |
| Columbia_City | 80 | 40 | 61 | -2 | 0.34 | 1 | 67 | 26.56 | +5.72 | 73 | 2548 | +25 |
| Fort_Wayne | 80 | 42 | 62 | -3 | 0.82 | 2 | | 28.83 | +9.65 | 60 | 2612 | -157 |
| **West Central (4)** | | | | | | | | | | | | |
| Greencastle | 80 | 37 | 61 | -6 | 0.00 | 0 | | 30.99 | +6.86 | 63 | 2638 | -482 |
| Perrysville | 86 | 39 | 63 | -3 | 0.00 | 0 | 69 | 25.45 | +2.70 | 57 | 2941 | +37 |
| Spencer_Ag | 81 | 42 | 63 | -2 | 0.11 | 1 | | 28.65 | +4.28 | 77 | 2942 | +10 |
| Terre_Haute_AFB | 81 | 39 | 62 | -5 | 0.01 | 1 | | 22.80 | -0.01 | 55 | 3077 | -20 |
| W_Lafayette_6NW | 83 | 40 | 63 | -2 | 0.01 | 1 | 71 | 27.27 | +5.98 | 68 | 2833 | +78 |
| **Central (5)** | | | | | | | | | | | | |
| Eagle_Creek_AP | 80 | 45 | 64 | -2 | 0.00 | 0 | | 27.56 | +6.20 | 59 | 2998 | -73 |
| Greenfield | 80 | 43 | 63 | -3 | 0.39 | 1 | | 28.83 | +5.47 | 69 | 2820 | -133 |
| Indianapolis_AP | 81 | 45 | 65 | -2 | 0.03 | 1 | | 31.23 | +9.87 | 62 | 3072 | +1 |
| Indianapolis_SE | 80 | 41 | 64 | -4 | 0.09 | 1 | | 27.34 | +5.51 | 61 | 2855 | -208 |
| Tipton_Ag | 82 | 39 | 63 | -2 | 0.10 | 1 | 71 | 31.69 | +10.08 | 63 | 2605 | -67 |
| **East Central (6)** | | | | | | | | | | | | |
| Farmland | 81 | 40 | 62 | -3 | 0.55 | 2 | 64 | 28.66 | +7.61 | 60 | 2697 | +86 |
| New_Castle | 79 | 40 | 61 | -4 | 0.10 | 1 | | 27.20 | +4.83 | 57 | 2351 | -324 |
| **Southwest (7)** | | | | | | | | | | | | |
| Evansville | 85 | 44 | 65 | -4 | 0.00 | 0 | | 22.15 | +0.64 | 61 | 3478 | -80 |
| Freelandville | 80 | 46 | 65 | -3 | 0.00 | 0 | | 27.18 | +4.77 | 57 | 3199 | +0 |
| Shoals | 82 | 44 | 64 | -3 | 0.06 | 2 | | 26.03 | +1.78 | 61 | 3156 | +53 |
| Stendal | 83 | 46 | 66 | -2 | 0.00 | 0 | | 25.03 | +0.89 | 52 | 3338 | -18 |
| Vincennes_5NE | 84 | 44 | 65 | -3 | 0.00 | 0 | 71 | 27.28 | +4.87 | 78 | 3268 | +69 |
| **South Central(8)** | | | | | | | | | | | | |
| Leavenworth | 79 | 44 | 63 | -4 | 0.13 | 1 | | 26.20 | +1.62 | 82 | 3195 | +113 |
| Oolitic | 82 | 41 | 63 | -3 | 0.00 | 0 | 69 | 27.67 | +4.44 | 68 | 3003 | +38 |
| Tell_City | 84 | 46 | 67 | -3 | 0.08 | 1 | | 26.05 | +1.34 | 55 | 3637 | +204 |
| **Southeast (9)** | | | | | | | | | | | | |
| Brookville | 83 | 44 | 64 | -1 | 0.31 | 1 | | 25.00 | +2.44 | 64 | 3035 | +218 |
| Milan_5NE | 80 | 44 | 64 | -2 | 0.22 | 1 | | 31.75 | +9.19 | 95 | 2927 | +110 |
| Scottsburg | 79 | 42 | 63 | -5 | 1.82 | 1 | | 27.25 | +4.16 | 72 | 3018 | -169 |

DFN = Departure From Normal (Using 1961-90 Normals Period).
GDD = Growing Degree Days.
Precipitation (Rainfall or melted snow/ice) in inches.
Precipitation Days = Days with precip of .01 inch or more.
Air Temperatures in Degrees Fahrenheit.



The above weather information is provided by AWIS, Inc.
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by proper seeding in a timely manner. Adequate nitrogen and phosphate fertilizer is also important for seedling establishment in the fall. Apply approximately 20 to 25 lb.N/acre and phosphate fertilizer according to soil test. Potash is important for later growth and development and should also be applied according to soil test.

Wheat should be sown in a timely manner, but not before the Hessian fly-free date. The optimum planting window for wheat is the two-week period following the Hessian fly-free date. The fly-free date ranges from September 22 across the northern tier of Indiana counties to October 9 in the southwestern corner of the state. In addition to dodging the Hessian fly, planting in this window reduces the risk of several diseases. For example, wheat that is planted early is more susceptible to take-all and may also be exposed to high aphid populations that can transmit Barley Yellow Dwarf virus. Early planted wheat could also succumb to winter kill if it gets too much fall growth prior to dormancy. Late planted wheat (more than 3 weeks after the fly-free date) is often predisposed to winter die back and increased susceptibility to heaving.

Charles Mansfield and Ellsworth Christmas, Department of Agronomy, Purdue University.

**Seeding Rates for Winter Wheat Based on Seed Size ***

| Number of seeds/lb. | Seed Size | Desired Population 1.1 [a] 25 [b] | 1.3 [a] 30 [b] | 1.5 [a] 35 [b] |
|---|---|---|---|---|
| | | lb. seed/acre | | |
| 10,000 | large | 120 | 145 | 165 |
| 12,000 | large | 100 | 120 | 140 |
| 14,000 | medium | 85 | 100 | 120 |
| 16,000 | small | 75 | 90 | 105 |

* Seeding rates adjusted to 90% field emergence.
[a] million plants / acre
[b] plants/square foot

**The INDIANA CROP WEATHER REPORT (USPS 675-770), (ISSN 0442-817X) is issued weekly April through November by the Indiana Agricultural Statistics Service, 1435 Win Hentschel Blvd, Suite B105, West Lafayette IN 47906-4145. Second Class postage paid at Lafayette IN. For information on subscribing, send request to above address. POSTMASTER: Send address change to the Indiana Agricultural Statistics Service, 1435 Win Hentschel Blvd, Suite B105, West Lafayette IN 47906-4145.**