



## Crop Progress and Condition Program April 2019



The Crop Progress and Condition survey provides frequent and timely updates of farmer activities such as planting and harvesting, progress of crops through various phenological stages of development, and crop condition ratings throughout the growing season.

Each state maintains a list of reporters, largely extension agents and Farm Service Agency staff, who report progress and condition of selected crops in their area for the current week. Nearly every county in every state has at least one reporter. Reports returned each week account for more than 75 percent of the acreage for major commodities.

### Days Suitable for Fieldwork

A “suitable” day is one where weather and field conditions allowed producers to work in fields a major portion of the day.

### Topsoil and Subsoil Moisture

The following rating categories (and definitions) are used:

- **Very Short:** Soil moisture supplies are significantly less than what is required for normal plant development. Growth has been stopped or nearly so and plants are showing visible signs of moisture stress. Under these conditions, plants will quickly suffer irreparable damage.
- **Short:** Soil dry. Seed germination and/or normal crop growth and development would be curtailed.
- **Adequate:** Soil moist. Seed germination and/or crop growth and development would be normal or unhindered.
- **Surplus:** Soil wet. Fields may be muddy and will generally be unable to absorb additional moisture. Young developing crops may be yellowing from excess moisture.

### Crop Condition Ratings

Condition ratings are published during the growing season. The first week that condition estimates are published is the week after emergence reaches 45-50%. Observations can be accurately made about condition after the majority of the crop has emerged.

The last week that condition ratings are published is the week that harvest reaches 45-50% harvested. Once half of the crop has been harvested, condition ratings would be based on the minority of the crop and would no longer be representative of the total crop.

The following rating categories (and definitions) are used:

- **Very Poor:** Extreme degree of loss to yield potential, complete or near crop failure. Pastures provide very little or no feed considering the time of year. Supplemental feeding is required to maintain livestock condition.
- **Poor:** Heavy degree of loss of yield potential which can be caused by excess soil moisture, drought, disease, etc. Pastures are providing only marginal feed for the current time of year. Some supplemental feeding is required to maintain livestock condition.
- **Fair:** Less than normal crop condition. Yield loss is a possibility but the extent is unknown. Pastures are providing generally adequate feed but still less than normal for the time of year.

- **Good:** Yield prospects are normal or above normal. Moisture levels are adequate with only light disease and insect damage. Pastures are providing adequate feed supplies for the current time of year.
- **Excellent:** Yield prospects are above normal and crops are experiencing little or no stress. Pastures are supplying feed in excess of what is normally expected at the current time of year.

### Crop Progress Percents

Progress percents relate to acres and should indicate the progress of field activities or crop development. Generally, an acre should be considered in or beyond a phenological stage when 50 percent or more of the plants in that acre are in or beyond that stage.

- **Planted:** A crop is considered planted when the seeds are placed in the ground. For transplanted crops, the planting period refers to the time of setting the plants in the field.
- **Harvested:** A crop is considered harvested when the crop is cut, threshed, or otherwise gathered from the field.

### Phenological Stages - Corn

- **Emerged:** As soon as the plants are visible.
- **Silking:** The emergence of silk-like strands from the end of ears. Occurs approximately 10 days after the tassel first begins to emerge from the sheath, or 2-4 days after the tassel is emerged.
- **Dough:** Normally half of the kernels are showing dent with some thick or dough-like substance in all kernels.
- **Dent:** Occurs when all kernels are fully dented and the ear is firm and solid. There is no milk present in most kernels.
- **Mature:** Plant is considered safe from frost. Corn is about ready to harvest with shucks opening and there is no green foliage present.

### Phenological Stages - Soybeans

- **Emerged:** As soon as the plants are visible.
- **Blooming:** A plant should be considered blooming as soon as one bloom appears.
- **Setting Pods:** Pods are developing on the lower nodes with some blooming still occurring on the upper nodes.
- **Dropping Leaves:** Leaves near the bottom of the plant are yellow and dropping, while leaves at the very top may still be green. Leaves are 30-50 percent yellow.

### Phenological Stages - Cotton

- **Squaring:** A plant should be considered as squaring after the appearance of a small triangular leaf-like structure on the growing tip of the main stem and/or branches.
- **Setting Bolls:** A plant should be considered as setting bolls as soon as one bloom or boll is visible.
- **Bolls Opening:** A plant should be considered in this stage as soon as white fibers are visible on at least one boll.

### Phenological Stages - Sorghum

- **Headed:** The head is present, visible, and fully emerged.
- **Coloring:** The head is turning color from green to reddish brown or white. Leaves are also turning yellow or brown.
- **Mature:** Grains readily part from the head and are tough and not easily crushed by the thumbnail.

### Phenological Stages - Peanuts

- **Pegging:** After pollination, when the plant's petals begin to wither and fall, a stalk called the peg forms and begins to grow toward the ground.

### Phenological Stages – Barley, Oats, Rice, Wheat

- **Emerged:** As soon as the plants are visible.
- **Headed:** The head is present, visible, and fully emerged.

## States included in the estimating program.

The states included in the program for each crop are reviewed following each Census of Agriculture and adjusted to ensure the highest coverage of of U.S. acreage while minimizing the number of states.

Barley						
Estimating States and Items						States Removed From Program
States	Percent Planted	Percent Emerged	Percent Headed	Percent Harvested	Condition	
Idaho	P	P	P	P	P	None
Minnesota	P	P	P	P	P	
Montana	P	P	P	P	P	
North Dakota	P	P	P	P	P	
Washington	P	P	P	P	P	

P = Published

Corn									
Estimating States and Items									States Removed From Program
States	Percent Planted	Percent Emerged	Percent Silking	Percent Dough	Percent Dented	Percent Mature	Percent Harvested	Condition	
Colorado	P	P	P	P	P	P	P	P	None
Illinois	P	P	P	P	P	P	P	P	
Indiana	P	P	P	P	P	P	P	P	
Iowa	P	P	P	P	P	P	P	P	
Kansas	P	P	P	P	P	P	P	P	
Kentucky	P	P	P	P	P	P	P	P	
Michigan	P	P	P	P	P	P	P	P	
Minnesota	P	P	P	P	P	P	P	P	
Missouri	P	P	P	P	P	P	P	P	
Nebraska	P	P	P	P	P	P	P	P	
North Carolina	P	P	P	P	P	P	P	P	
North Dakota	P	P	P	P	P	P	P	P	
Ohio	P	P	P	P	P	P	P	P	
Pennsylvania	P	P	P	P	P	P	P	P	
South Dakota	P	P	P	P	P	P	P	P	
Tennessee	P	P	P	P	P	P	P	P	
Texas	P	P	P	P	P	P	P	P	
Wisconsin	P	P	P	P	P	P	P	P	

P = Published

Cotton							
Estimating States and Items							States Removed From Program
States	Percent Planted	Percent Squaring	Percent Setting Bolls	Percent Bolls Opening	Percent Harvested	Condition	
Alabama	P	P	P	P	P	P	None
Arizona	P	P	P	P	P	P	
Arkansas	P	P	P	P	P	P	
California	P	P	P	P	P	P	
Georgia	P	P	P	P	P	P	
Kansas	P	P	P	P	P	P	
Louisiana	P	P	P	P	P	P	
Mississippi	P	P	P	P	P	P	
Missouri	P	P	P	P	P	P	
North Carolina	P	P	P	P	P	P	
Oklahoma	P	P	P	P	P	P	
South Carolina	P	P	P	P	P	P	
Tennessee	P	P	P	P	P	P	
Texas	P	P	P	P	P	P	
Virginia	P	P	P	P	P	P	

P = Published

Oats						
Estimating States and Items						States Removed From Program
States	Percent Planted	Percent Emerged	Percent Headed	Percent Harvested	Condition	
Iowa	P	P	P	P	P	None
Minnesota	P	P	P	P	P	
Nebraska	P	P	P	P	P	
North Dakota	P	P	P	P	P	
Ohio	P	P	P	P	P	
Pennsylvania	P	P	P	P	P	
South Dakota	P	P	P	P	P	
Texas	P	P	P	P	P	
Wisconsin	P	P	P	P	P	

P = Published

Peanuts					
Estimating States and Items					States Removed From Program
States	Percent Planted	Percent Pegging	Percent Harvested	Condition	
Alabama	P	P	P	P	None
Florida	P	P	P	P	
Georgia	P	P	P	P	
North Carolina	P	P	P	P	
Oklahoma	P	P	P	P	
South Carolina	P	P	P	P	
Texas	P	P	P	P	
Virginia	P	P	P	P	

P = Published

Rice						
Estimating States and Items					States Removed From Program	
States	Percent Planted	Percent Emerged	Percent Headed	Percent Harvested		Condition
Arkansas	P	P	P	P	P	None
California	P	P	P	P	P	
Louisiana	P	P	P	P	P	
Mississippi	P	P	P	P	P	
Missouri	P	P	P	P	P	
Texas	P	P	P	P	P	

P = Published

Sorghum							
Estimating States and Items						States Removed From Program	
States	Percent Planted	Percent Headed	Percent Coloring	Percent Mature	Percent Harvested		Condition
Colorado	P	P	P	P	P	P	Arkansas
Kansas	P	P	P	P	P	P	Illinois
Nebraska	P	P	P	P	P	P	Louisiana
Oklahoma	P	P	P	P	P	P	Missouri
South Dakota	P	P	P	P	P	P	New Mexico
Texas	P	P	P	P	P	P	

P = Published

Soybeans								States Removed From Program
Estimating States and Items								
States	Percent Planted	Percent Emerged	Percent Blooming	Percent Setting Pods	Percent Dropping Leaves	Percent Harvested	Condition	
Arkansas	P	P	P	P	P	P	P	None
Illinois	P	P	P	P	P	P	P	
Indiana	P	P	P	P	P	P	P	
Iowa	P	P	P	P	P	P	P	
Kansas	P	P	P	P	P	P	P	
Kentucky	P	P	P	P	P	P	P	
Louisiana	P	P	P	P	P	P	P	
Michigan	P	P	P	P	P	P	P	
Minnesota	P	P	P	P	P	P	P	
Mississippi	P	P	P	P	P	P	P	
Missouri	P	P	P	P	P	P	P	
Nebraska	P	P	P	P	P	P	P	
North Carolina	P	P	P	P	P	P	P	
North Dakota	P	P	P	P	P	P	P	
Ohio	P	P	P	P	P	P	P	
South Dakota	P	P	P	P	P	P	P	
Tennessee	P	P	P	P	P	P	P	
Wisconsin	P	P	P	P	P	P	P	

P = Published

Sugarbeets				States Removed From Program
Estimating States and Items				
States	Percent Planted	Percent Harvested	Condition	
Idaho	P	P	P	None
Michigan	P	P	P	
Minnesota	P	P	P	
North Dakota	P	P	P	

P = Published

Sunflowers				States Removed From Program
Estimating States and Items				
States	Percent Planted	Percent Harvested	Condition	
Colorado	P	P	P	None
Kansas	P	P	P	
North Dakota	P	P	P	
South Dakota	P	P	P	

P = Published

Spring Wheat						
Estimating States and Items						States Removed From Program
States	Percent Planted	Percent Emerged	Percent Headed	Percent Harvested	Condition	
Idaho	P	P	P	P	P	None
Minnesota	P	P	P	P	P	
Montana	P	P	P	P	P	
North Dakota	P	P	P	P	P	
South Dakota	P	P	P	P	P	
Washington	P	P	P	P	P	

P = Published

Winter Wheat						
Estimating States and Items						States Removed From Program
States	Percent Planted	Percent Emerged	Percent Headed	Percent Harvested	Condition	
Arkansas	P	P	P	P	P	None
California	P	P	P	P	P	
Colorado	P	P	P	P	P	
Idaho	P	P	P	P	P	
Illinois	P	P	P	P	P	
Indiana	P	P	P	P	P	
Kansas	P	P	P	P	P	
Michigan	P	P	P	P	P	
Missouri	P	P	P	P	P	
Montana	P	P	P	P	P	
Nebraska	P	P	P	P	P	
North Carolina	P	P	P	P	P	
Ohio	P	P	P	P	P	
Oklahoma	P	P	P	P	P	
Oregon	P	P	P	P	P	
South Dakota	P	P	P	P	P	
Texas	P	P	P	P	P	
Washington	P	P	P	P	P	

P = Published



Pasture & Range, Topsoil, Subsoil, Days Suitable					
Estimating States and Items					Removed From Program
State	Pasture & Range Condition	Topsoil Moisture	Subsoil Moisture	Days Suitable For Fieldwork	
Alabama	P	P	P	P	None
Arizona	P	P	P	P	
Arkansas	P	P	P	P	
California	P	P	P	P	
Colorado	P	P	P	P	
Connecticut	P	P	P	P	
Delaware	P	P	P	P	
Florida	P	P	P	P	
Georgia	P	P	P	P	
Idaho	P	P	P	P	
Illinois	P	P	P	P	
Indiana	P	P	P	P	
Iowa	P	P	P	P	
Kansas	P	P	P	P	
Kentucky	P	P	P	P	
Louisiana	P	P	P	P	
Maine	P	P	P	P	
Maryland	P	P	P	P	
Massachusetts	P	P	P	P	
Michigan	P	P	P	P	
Minnesota	P	P	P	P	
Mississippi	P	P	P	P	
Missouri	P	P	P	P	
Montana	P	P	P	P	
Nebraska	P	P	P	P	
Nevada	P	P	P	P	
New Hampshire	P	P	P	P	
New Jersey	P	P	P	P	
New Mexico	P	P	P	P	
New York	P	P	P	P	
North Carolina	P	P	P	P	
North Dakota	P	P	P	P	
Ohio	P	P	P	P	
Oklahoma	P	P	P	P	
Oregon	P	P	P	P	
Pennsylvania	P	P	P	P	
Rhode Island	P	P	P	P	
South Carolina	P	P	P	P	
South Dakota	P	P	P	P	
Tennessee	P	P	P	P	
Texas	P	P	P	P	
Utah	P	P	P	P	
Vermont	P	P	P	P	
Virginia	P	P	P	P	
Washington	P	P	P	P	
West Virginia	P	P	P	P	
Wisconsin	P	P	P	P	
Wyoming	P	P	P	P	

P = Published