

2021 SOYBEAN PRODUCTION YIELD CONTESTS FOR NORTH CAROLINA (Rules and Regulations)

PURPOSE. The purpose of the N. C. Soybean Production Contests are to recognize those producers who produce high yields, to gather data on the practices used by these outstanding producers and to disseminate that information to producers across the state.

ELIGIBILITY. Any grower (owner-operator, tenant, or tenant-landlord team) who produces three or more acres of soybeans in North Carolina is eligible to enter the contest. The contest area must be located entirely in North Carolina and be a minimum of three contiguous acres. A grower may make more than one entry but will be eligible for only one award in each contest. Growers who wish to evaluate an entire field are encouraged to do so. There are no restrictions on cultural or management practices used.

CONTEST REQUIREMENTS. A minimum of three contiguous acres will be evaluated, with the field measurement and yield determination under the supervision of a County Soybean Contest Committee member. All required documentation must be received by **December 10, 2021** (see deadlines). Summaries of yields will be made available online at: soybeans.ces.ncsu.edu.

FIELD MEASUREMENTS. The field or portion of a field entered must be one contiguous area with a minimum size of 3.0 acres, and composed of a three- or four-sided figure, with all sides being straight lines. All measurements must be made with a measuring tape or wheel and recorded to the nearest foot. For maximum accuracy, a single diagonal measured from one corner of the plot to the opposite corner would be helpful and is to the advantage of the entering County Agent and grower but is not required.

If measuring the diagonal of a 4-sided figure is impractical, the diagonal can be calculated by measuring 3 sides of a triangle (100 ft minimum) measured in one of the corners of the 4-sided figure.

In measuring, plot width should be measured from the first harvested row on the left to the first unharvested row on the right (this process accounts for the ½ row width on either side of the harvested area which must be included in the final calculation of yield). Measurements are to be made by a County Extension Agent, or a member of the County Soybean Contest Committee.

YIELD DETERMINATION. At least one member, or a designated representative, of the County Soybean Contest Committee must be present at harvest and weighing of the yield. At the discretion of the County Soybean Contest Committee, the supervising member or representative may supervise the harvest, accompany the load of soybeans from the measured contest area to the scales area (e.g., the line waiting to unload at the elevator), and accept the verification of the person operating the scales that the weight ticket submitted to that member or representative (or to another member of the County Soybean Contest Committee) is the accurate weight of the load of soybeans that the supervising member or representative accompanied to the scales area, and that nothing has been done in the supervising member's or the representative's absence to alter the weight of that load of soybeans.

Yields will be calculated on the basis of No. 1 soybeans and will consist of the weight of harvested soybeans (from a certified public scale), corrected to 13.0% moisture and 1% foreign matter, and converted to bushels per acre. Percent moisture (to the nearest tenth of a percent [e.g. 13.5%]) and foreign matter (to the nearest percent [e.g. 1%]) will be determined by a local elevator operator or NCDA&CS. To have moisture and foreign matter determined by NCDA&CS, send a one-and-a-half quart (or larger) sample via UPS to Nick Lassiter, 2W. Edenton Street, Raleigh, NC 27601. The sample should be sealed in a plastic bag to prevent moisture changes during shipment (don't trust a zip-lock closure to stay closed) and should be clearly marked "Soybean Contest" to minimize the chances of the sample getting lost for a while.

Foreign matter contents of "<1%" will be considered to be 1%. A value of "0%" will be accepted if the elevator operator (or NCDA&CS) determines the samples to be closer to 0% than 1% foreign matter. Moisture contents to the nearest percent will not be accepted.

IDENTIFICATION OF PRACTICES. Each entry is to be accompanied by a completely filled out "Summary of Production Practices" form, which will be used to gather valuable data for grower education.

DEADLINES. Completed entries must be received by the State Soybean Contest Committee on or before December 10, 2021. A completed entry will consist of a Certification of Yield and a Plot Diagram completely filled out, along with the appropriate scale tickets (or copy) showing moisture and foreign matter percentages, and a completed Summary of Production Practices Used form. The Certification form, plot diagrams, and scale tickets can be scanned and submitted via email with the rest of the application package. Submissions will be accepted (and are preferred) electronically by Rachel Vann at rachel_vann@ncsu.edu or via U.S. mail to Rachel Vann at NC State Department of Crop and Soil Science, Campus Box 7620, 101 Derieux Street, Raleigh, NC 27695. Electronic submissions are preferred.

COUNTY COMMITTEE. The County Soybean Agent may wish to form a committee to help him/her conduct a county contest or coordinate and supervise harvest operations. The County Soybean Agent will be responsible for all information submitted on an application to the North Carolina Soybean Yield Contest. Only properly and fully completed entries will be recognized.

STATE COMMITTEE. The State Soybean Contest Committee consists of the following:

N. C. State Soybean Specialist, Chairman, Dr. Rachel Vann
N. C. Soybean Producers Association, Dr. Katherine Drake Stowe
N. C. Crop Improvement Association or N. C. Foundation Seed Producers, Dr. Bill Foote
N. C. Department of Agriculture, Dr. Sandy Stewart
Natural Resource Conservation Service, Joshua Spencer

The State Contest Committee has the authority to arbitrate any point of contention that might develop in the administration of this program, and their decision will be final.

Any irregularities in regard to the requirements of the program as outlined above will be just cause for disqualification.

SPONORS. The contest is conducted by Cooperative Extension personal at NC State University. Prizes are made available by the NC Soybean Producers Association.

YIELD CONTEST AWARDS

State Awards:

State Champion (Highest Yield in State, regardless of irrigation practices)
Highest Yield/A..... \$1000 + Plaque

**State Champion not eligible for Division or Regional Awards*

Division 1: Irrigated Soybeans

1st Place Highest Yield.....\$500 + Plaque
2nd Place Highest Yield.....\$200 + Plaque

Division 2: Nonirrigated Soybeans

1st Place Highest Yield.....\$500 + Plaque
2nd Place Highest Yield.....\$200 + Plaque

**Division winners are not eligible for Regional awards*

Regional Yield Awards: The producer with the highest yield per acre (regardless of irrigation practices and that has not won another award) in each of the 5 areas listed below will receive a plaque and a \$100 award.

1. Tidewater: Currituck, Camden, Pasquotank, Perquimans, Gates, Chowan, Washington, Tyrrell, Dare, Hyde, Beaufort, Pamlico and Carteret counties.
2. N. Coastal Plain: Halifax, Northampton, Hertford, Bertie, Martin, Edgecombe, Nash, Wilson, Johnston, Wayne, Greene, Pitt, Lenoir, Jones and Craven counties.
3. S. Coastal Plain: Onslow, Duplin, Pender, New Hanover, Brunswick, Columbus, Bladen, Sampson, Harnett, Cumberland, Robeson, Scotland, Hoke, Lee, Moore and Richmond counties.
4. N. Piedmont: Warren, Franklin, Wake, Chatham, Randolph, Davie, Davidson, Yadkin, Wilkes, Watauga and all counties north of these.
5. S. Piedmont: Anson, Montgomery, Stanley, Rowan, Iredell, Alexander, Caldwell, Avery and all counties south or west of these.

CERTIFICATION OF YIELD

Applicant _____ County _____

Address _____

Calculation of **CERTIFIED YIELD** (Calculated on basis of No. 1 soybeans).

$$\text{bu/A} = \frac{\text{lbs. soybeans} \times (100 - \% \text{ moisture}) \times (100 - \% \text{ foreign matter})}{516,780 \times \text{acres}}$$

Example	Applicant's Figures
19,838 Pounds of soybeans	lbs
13.3% Moisture (to 1 decimal)	%
1% Foreign Matter	%
5.134 Acres (to 3 decimals)	A
YIELD	bu/A

EXAMPLE:
$$\frac{19,838 \times (100 - 13.3) \times (100 - 1)}{516,780 \times 5.134} = 64.18 = 64.2 \text{ bu/A}$$

CERTIFICATION

I certify that I have read the rules and regulations for the 2021 Soybean Production Yield Contests for North Carolina, and believe all information presented on this entry to be true and in accordance with the above rules and regulations.

Date: _____ Signed: _____
(Extension Agent)

Completed entries must be received on or before **December 10, 2021**. Submissions will be accepted electronically by Rachel Vann at rachel_vann@ncsu.edu or via U.S. mail to Rachel Vann at NC State Department of Crop and Soil Science, Campus Box 7620, 101 Derieux Street, Raleigh, NC 27695. Electronic submissions are preferred.

PLOT DIAGRAM

A diagram of the soybean field from which this yield was determined and the harvested plot dimensions are to be shown below (measurements to be to nearest foot).

Applicant _____ County _____

SUMMARY OF PRODUCTION PRACTICES USED

Estimate to the best of your ability any blanks you don't have accurate records for, and disclose where production information has been estimated.

Soils: If the field has been mapped, estimate the percentage of the harvest area represented by each soil mapping unit (mineral-organic and sandy loam are not mapping units; Norfolk loamy sand with 0-2% slope, and Cape Fear loam are). If that field isn't mapped yet, please see if someone from your local NRCS office can help determine what it would be mapped as.

Tillage: If more than one implement is pulled through the field at the same time, please list them together on the same line, or somehow indicate that they were not separate trips. If a planter or drill is pulled with one or more tillage implements, please list the planter (drill) under tillage, indicating which tillage implement it was coupled with.

Planting Information

Variety planted _____

Maturity Group (i.e. 4.6) _____

Seed saved _____ or purchased _____ at \$ _____ per 140,000 seeds (one unit)

Doublecropped Y or N

Seed Inoculant Y or N Product _____

Seed Fungicide Y or N Product _____

Seed Insecticide Y or N Product _____

Seed Nematicide Y or N Product _____

Other Seed Treatment Y or N Product _____

Planting rate (lbs/A) _____ AND population/acre _____ Plants/ft achieved _____

Planting date _____ Row width _____ Harvest date _____

Weed Control

Burndown Herbicide Used Y or N Product _____ Rate _____

Pre-emerge Herbicide Used Y or N Product _____ Rate _____

POST-1 Herbicide Used Y or N Product _____ Rate _____

POST-2 Herbicide Used Y or N Product _____ Rate _____

POST-3 Herbicide Used Y or N Product _____ Rate _____

POST-4 Herbicide Used Y or N Product _____ Rate _____

Rope-wick applications (numbers of times and estimated cost) _____

spot-spray (numbers of times and estimated cost) _____

Hand-weeding (numbers of times and estimated cost) _____

Other Pesticides Used (insecticides and fungicides):

PESTICIDE	PRODUCT	RATE	SOYBEAN GROWTH STAGE APPLIED

Irrigated? _____ Type equipment _____