2017 SOYBEAN PRODUCTION AND MOST EFFICIENT YIELD CONTESTS FOR NORTH CAROLINA

(Rules and Regulations)

PURPOSES. The purposes of the N. C. Soybean Production and Most Efficient Yield (MEY) Contests are to recognize those producers who produce high yields or produce their yields efficiently, to gather data on the practices utilized by these outstanding producers, and emphasize those practices associated with efficient and profitable soybean production.

ELIGIBILITY. Any grower (owner-operator, tenant, or tenant-landlord team) who produces three (3) or more acres of soybeans in North Carolina is eligible to enter the contest. The contest area must be located entirely in North Carolina; there are no restrictions on the residence of the grower submitting the entry. 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 (3) acres will be evaluated, with the field measurement and yield determination under the supervision of a County Soybean Contest Committee member. Completed entries are to be in the mail to the State Soybean Contest Committee on or before December 25. Summaries of yields and production costs will be made available to each participant, each County Extension Soybean Agent, and anyone else desiring these summaries.

FIELD MEASUREMENTS. The field or portion of a field entered must be one contiguous area, and composed of one or more three- or four-sided figures, with all sides being straight lines. All sides must be measured to the nearest inch, tenth of a foot, or link, and at least 2 adjacent sides must be a minimum of 100 feet in length. GPS-measured acreage will not be accepted.

The area of a 4-sided figure will be calculated as the maximum area that can fit into a space surrounded by the four sides measured. The area of a 4-sided figure with a diagonal also measured will be calculated as the combined area of the two resulting triangles. If measuring the diagonal of a 4-sided figure is impractical, the diagonal can be calculated from the measurements of the 4 sides, plus all 3 sides of a triangle measured in one of the corners of the 4 sided figure. Each of the 3 sides of the triangle must be a minimum of 100 feet long

In measuring, plot width should be measured from the first harvested row on the left to the first unharvested row on the right (to assure the inclusion of the equivalent on one-half the average row width beyond the outside harvested row on each side). The length of each measured row will include half the distance between the first plant harvested and the last plant not harvested. 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, 2 W. 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 awhile.

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 Used" form, which will be used to calculate cost of production on the yield entered. The same cost per input specified will be used for each entry, except for purchased seed, hired scouting charge and insurance, for which actual cost supplied by the participant will be used.

DEADLINES. Completed entries must be in the mail to the State Soybean Contest Committee on or before December 25. 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.

COUNTY COMMITTEE. The County Soybean Contest Committee will consist of the county Extension Soybean Agent as chairman, the County Extension Director (if he does not have soybean responsibility) and at least two (2) other members appointed by the Committee Chairman, one of which must be a farmer. Other county committeemen could be representatives of agricultural agencies or businessmen in the county.

Duties of the County Soybean Contest Committee will be to determine that the acreage harvested meets the minimum requirements, the yield was produced within the boundaries of the acreage certified, the weights were made on certified public scales, and that the final results of all applicants are certified and sent to the chairman of the State Contest Committee.

The County Soybean Contest Committee may approve a deviation from the “one contiguous area” rule (except for fields which yield 100 Bu/A or more) if they decide the deviation was due to the field configuration and not a deviation created to improve the measured yield. The approval should be noted on the Plot Diagram.

STATE COMMITTEE. The State Soybean Contest Committee will be made up of representatives from the following agencies:

N. C. Agr. Ext. Service (Soybean Specialist), Chairman
N. C. Soybean Producers Association
N. C. Department of Agriculture
Farm Service Agency
Natural Resource Conservation Service
N. C. Crop Improvement Association or N. C. Foundation Seed Producers

The State Contest Committee shall have 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:

1. **Highest Yield Per Acre** - A trip to the 2018 Commodity Classic annual meeting in Anaheim, CA (accompanied by his County Extension Agent) and a plaque.

2. **Second Highest Yield Per Acre** - Plaque (also $50 cash if in the same area as yield winner).

3. **Third Highest Yield Per Acre** - Plaque (also $50 cash if in the same area as yield winner or runner-up).

Area Awards: The highest yield per acre in each of the five (5) areas listed below will receive a plaque and a $50 cash award if not also recognized as one of the three highest yields in the state.

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.

Certificates:

1. Each participant with a yield of 60 bushels per acre or more will receive a certificate of membership in the N. C. Sixty Bushel Soybean Club. Participants with a yield of 70 bushels per acre or more will receive a certificate of membership in the N. C. Seventy Bushel Soybean Club. One grower may receive more than one such certificate in one year, if the yields were produced in different fields or with different varieties, and both entries otherwise meet all the criteria for a valid entry.

2. Certificates of Merit will be available to County Soybean Contest Committees to recognize their winner and other participants as they deem appropriate.

MOST EFFICIENT YIELD (MEY) CONTEST AWARDS

State Award: Lowest Total Production Cost per Bushel - A trip to the 2018 Commodity Classic annual meeting in Anaheim, CA, and a plaque.

Area Award: The lowest total production cost per bushel in each of the five (5) areas listed above will receive a plaque if not also recognized as the lowest production cost in the state.

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

CERTIFICATION

I certify that I have read the rules and regulations for the 2017 Soybean Production Contest 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)

1 copy required. *Mail with copy of scale ticket and summary of practices on or before December 25, 2017 to E. James Dunphy, Crop Science Extension Specialist (Soybeans), Box 7620, North Carolina State University, Raleigh, N.C. 27695-7620.*

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 inch or link).

Applicant _____ County _____

SUMMARY OF PRODUCTION PRACTICES USED FORM

Assume all tillage, herbicide and fertilizer applied since harvest of the previous crop, or within 30 days of planting soybeans, is for the soybeans. Previous crop could be a winter cover crop. Estimate as well as you can any blanks you don't have accurate records for (better your and your grower's estimate than mine). Except for cost of purchased seed, insurance and scouting, standardized costs will be applied to the inputs and rates listed.

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 probably be mapped as. If you can't get it done locally, please let me know as soon as possible and I'll see if we can't figure out a way to get it done.

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.

SUMMARY OF PRODUCTION PRACTICES USED

Name _____ County _____

Address _____

Region: _____ Bu/A: _____

Soil types in plot area:

SOIL MAPPING UNIT	% OF PLOT AREA

Previous crop _____ Previous crop harvest date _____

Tillage (include cultivation, rotary hoe):

IMPLEMENT	TIMES OVER	IMPLEMENT	TIMES OVER

Soil pH _____ Lime Applied: _____ T/A on (mo/yr) _____

Fertilizer Applied: (include manure)	Rate/A	Band or Broadcast	lbs/A				
			N	$P_2 0_5$	$K_2 0$	X	X_2
Type manure:							
X_1 =	X_2 =	Totals:					

Total Number of Applications: Broadcast_____ Band _____

Variety planted _____ Doublecropped? _____

Seed saved _____ or purchased _____ at $ _____ per _____ lbs.

Planting rate (lbs/A) _____ Plants/ft achieved _____

Planting date _____ Row width _____ Harvest date: _____

Chemicals used (include seed treatments; list tank mixes on the same line):

NAME	RATE/A	NAME	RATE/A

Number of applications: herbicide _____ insecticide _____ other _____

Rope-wick applications _____ spot-spray _____

Irrigated? _____ Type equipment _____

Times used _____ Inches of water applied _____

Scouting charge/A _____ Insurance cost/A _____

Other costs:

DESCRIPTION	COST/A

Other Equipment Charges:

IMPLEMENT	TIMES OVER	IMPLEMENT	TIMES OVER