

2021 Kentucky Soybean Production Contest



University of Kentucky
College of Agriculture,
Food and Environment
Cooperative Extension Service

Committee Use Only	State Entry #: _____
Official Yield: _____	Oil: _____ Protein: _____

FORM A

Agronomic Data Form*

- Farm Operation _____ Contact Name _____
- Address: (Route/Street/Hwy. No.) _____ E-mail _____
(City, State) _____ Zip Code _____
Telephone: Area Code (_____) _____ County _____
- Division Entered** (check): Division I (Single-Crop) Non-Irrigated
 Division II (Double-Crop) Irrigated
- Quality Contest Entered** (check): Yes No

1. **Planting Information: Planting Date** _____ **Harvest Date** _____

Soybean Brand/Variety _____

Seed Treatment: Yes No
Product (if used) _____

Seed Inoculated: Yes No
Product (if used) _____

Row Width (inches) _____

In-Furrow Treatment: Yes No
Product (if used) _____

Planting Rate _____
(seeds/acre)

Previous Year's Crop (if Division I) _____
Previous Winter Crop (if Division II) _____

2. **Fertility Program:** _____ Pounds Per Acre Applied to Soybean Crop

N _____ P₂O₅ _____ K₂O _____ Manure _____ Other _____

6. **Weed Control:** Herbicides Used
- a. Preemergence Applied _____

- b. Postemergence Applied _____

7. **Insect Control:**
Foliar Insecticide used: Yes No
Product (if used) _____

8. **Disease Control:**
Foliar Fungicide used: Yes No
Product (if used) _____

Soil Preparation and Tillage: Circle if No-Till

	Fall	Spring	No. Times
_____ Disc	_____	_____	_____
_____ Chisel	_____	_____	_____
_____ Plow	_____	_____	_____
_____ Other	_____	_____	_____

Describe other: _____

10. **Other Products Used:** _____

*** Forms A, B, & C Must Be ENTIRELY Completed and Submitted on or before November 15, 2021 to be eligible for awards.**

Educational programs of Kentucky Cooperative Extension serve all people regardless of race, color, age, sex, religion, disability, or national origin. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating. The College of Agriculture, Food and Environment is an Equal Opportunity Organization.

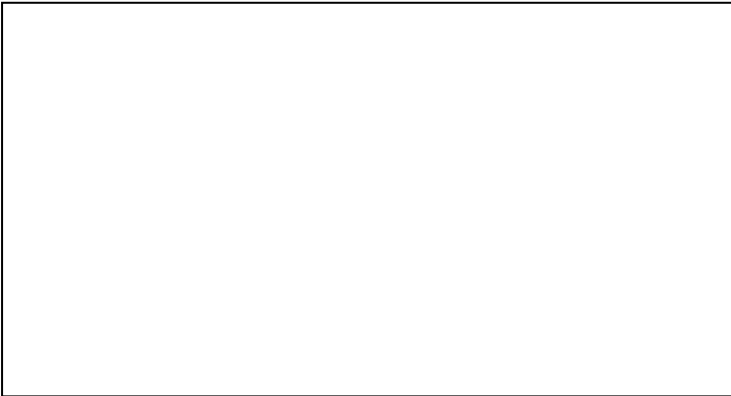


2021 Kentucky Soybean Production Contest

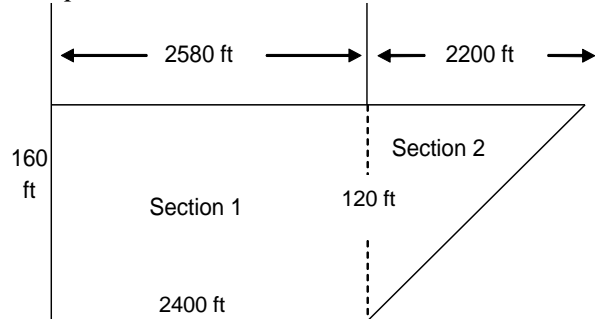
FORM B Soybean Field Diagram

Farm Operation _____ County _____

Draw a Diagram of the Soybean Field & harvested area. Include all measurements of the harvested area.



Example:



For irregularly shaped fields calculate the area of the largest possible rectangle. The remaining area(s) can be calculated as area of triangles.

For decimal point, from numbers 1-4 leave number and for number 5-9, round-up.

Example: 4.10941 – round to 4.1094
(with 4 decimals) 4.10947 – round to 4.1095

CALCULATION OF YIELD

Area of Rectangles:

_____	Section	_____	Length (ft.)	X	_____	Width (ft.)	=	_____	ft ²
_____	Section	_____	Length (ft.)	X	_____	Width (ft.)	=	_____	ft ²
_____	Section	_____	Length (ft.)	X	_____	Width (ft.)	=	_____	ft ²
		4 decimals			4 decimals			4 decimals	

Area of Triangles:

_____	Section	_____	Height (ft.)	X	_____	Width (ft.)	X 0.5	=	_____	ft ²
_____	Section	_____	Height (ft.)	X	_____	Width (ft.)	X 0.5	=	_____	ft ²
_____	Section	_____	Height (ft.)	X	_____	Width (ft.)	X 0.5	=	_____	ft ²
		4 decimals			4 decimals				4 decimals	

Total Area:

_____ Total ft² ÷ 43,560 ft² = _____ Acres
3 decimals

EXAMPLE

Area of Rectangles:

_____	1 Section	$\frac{2580+2400}{2}$	Length (ft.)	X	$\frac{160+120}{2}$	Width (ft.)	=	348,600	ft ²
		4 decimals			4 decimals			4 decimals	

Area of Triangles:

_____	2 Section	$\frac{120}{4}$	Height (ft.)	X	$\frac{2200}{4}$	Width (ft.)	X 0.5	=	132,000	ft ²
		4 decimals			4 decimals				4 decimals	

Total Area:

_____ 480,600 Total ft² ÷ 43,560 ft² = _____ 11.033 Acres
3 decimals

2021 Kentucky Soybean Production Contest FORM C

Harvest Report –Yield Certification

Farm Operation _____ County _____ Quality Entry Number _____

Calculation of YIELD at 13% grain moisture:

Calculate Bushels of Soybeans at 13% Grain Moisture

lbs. soybeans = $\frac{\text{60}}{\text{60}}$ = _____ bushels
(4 decimals)

Calculate Grain Moisture Correction Factor (CF)

CF = $\frac{(100 - \text{actual grain moisture})}{(100-13)}$ = $\frac{100 - 87}{87}$ = _____
(4 decimals)

_____ bushels x CF _____ = _____ bu (4 decimals) = _____ bu/A
(4 decimals) (4 decimals) A (3 decimals) (2 decimals)

EXAMPLE

(Calculate Grain Moisture Correction Factor (CF))

CF = $\frac{(100 - \text{actual grain moisture})}{(100-13)}$ = $\frac{100 - 13.3}{87}$ = $\frac{0.9966}{(4 \text{ decimals})}$

Calculate Bushels per of Soybeans at 13% Grain Moisture

lbs. soybeans = $\frac{49,595}{60}$ = $\frac{826.5833}{(4 \text{ decimals})}$ bushels

$\frac{826.5833}{(4 \text{ decimals})}$ bushels x CF $\frac{0.9966}{(4 \text{ decimals})}$ = $\frac{823.7730}{11.033}$ bu (4 decimals) = $\frac{74.66}{(2 \text{ decimals})}$ bu/A
A (3 decimals)

**ATTACH WEIGH
TICKET HERE**

CERTIFICATION: I certify that the data submitted on this form is accurate and in accordance with the 2021 Kentucky Soybean Production Contest rules.

Signed _____ Date _____
Chairman, County Soybean Contest Committee

Signed _____ Date _____
Person who supervised harvest procedure

Signed _____ Date _____
Second supervisor for full-season entries >100 bu/A or double-crop entries >80 bu/A

Send Completed Forms to:
**Dr. Carrie Knott
UKREC
P.O. Box 469
348 University Drive
Princeton, KY 42445**

Harvest Re-Check Report

Entries equal to or greater than **100 bu/A** for Division I (full-season crop) or **80 bu/A** for Division II (double-crop) entries must have a re-check **if only one supervisor is present**. The re-check must be at least **2 acres** in the same field as the initial entry. Re-check must be measured, harvested, weighed, moisture tested and calculated for yield as outlined above. An average of the initial entry and the re-check will constitute the official contest yield. Re-checks are NOT necessary if two supervisors are present and independently verify the entry.

Map of Re-Check

Include entire field and proximity to initial yield plot.

Area:

_____ Length (ft.) X _____ Width (ft.) = _____ ft²
 _____ Length (ft.) X _____ Width (ft.) = _____ ft²
 _____ Length (ft.) X _____ Width (ft.) x 0.5 = _____ ft²
4 decimals 4 decimals 4 decimals

_____ Total ft² ÷ 43,560 ft² = _____ Acres
3 decimals

RE-CHECK CERTIFICATION:

I certify that the data submitted on this form is accurate and in accordance with the 2021 Ky Soybean Production Contest rules.

Signed _____ Date _____
Chairman, County Soybean Contest Committee

Signed _____ Date _____
Person who supervised harvest procedure

Yield:
 $\frac{\text{60}}{\text{60}}$ = _____ x $\frac{(100 - \text{87})}{87}$ = _____ bu ÷ _____ A
(4 decimals) (4 decimals)
 = _____ bu/A

**ATTACH RE-CHECK
WEIGH TICKET**

**2021 Kentucky Soybean Production Contest
FORM D**

Soybean Quality Contest

This form must be completed and submitted with the soybean quality samples.

**Send samples to the KSA office via UPS/Fed-Ex or drop off in person at
1000 US Hwy 62 West, Princeton, KY 42445**

Samples must be received ON OR BEFORE November 15, 2021.

COUNTY: _____ (Place county name above) _____ (Supervisor name)

List below: The Entry name and a county identification code for each sample submitted.

Operation (from Yield contest form A & B)	Identification Code** (County + number)	(Do not fill in – State Committee Use Only)	
		% Oil	% Protein
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____

**** Important:** Each sample submitted must contain a county identification code (consisting of the county name plus a number). This is particularly important for multiple samples submitted from a county (or operation) to ensure correct identification. Example: multiple samples from Union County would be coded as: Union-1, Union-2, Union-3, etc.

- 1) **For each sample make sure the County ID code written on Form D is also written (permanent magic marker) on the corresponding plastic sample bag for that entry.**
- 2) **Include a copy of Form D** (That was sent to the KSA office) when you submit your completed Yield Contest entry forms (Forms A, B & C).
- 3) **Also write the County ID code on Form C** (Harvest Report-Certification of Yield form) for those yield contest entries that also entered the Soybean Quality Contest.

Educational programs of Kentucky Cooperative Extension serve all people regardless of race, color, age, sex, religion, disability, or national origin. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating. The College of Agriculture, Food and Environment is an Equal Opportunity Organization.



2021 Kentucky Soybean Production Contest

CONTEST CATEGORIES, RULES and AWARDS

OBJECTIVES:

The Kentucky Soybean Production Contest was organized to: (1) recognize producers who achieve high soybean yields and superior quality soybeans (oil and protein), (2) document production practices used in the contest, and (3) promote the use of sound cultural practices to increase soybean profitability.

SPONSORS:

The contest is sponsored by the University of Kentucky Cooperative Extension Service, the Kentucky Soybean Association with support from the Kentucky Soybean Promotion Board, and participating Agribusinesses related to soybean production.

CONTEST CATEGORIES:

The soybean production contest is divided into two contest categories:

- 1) **Soybean Yield Contest**
- 2) **Soybean Quality Contest** (oil and protein)

SOYBEAN YIELD CONTEST

ELIGIBILITY:

Anyone (owner-operator, tenant, or tenant-landlord) who produces ten (10) acres or more of soybeans in Kentucky is eligible to enter. More than one entry can be submitted by the same Operation, **if the entries are from different fields**. Operations with more than one entry will be eligible for only one award for each category. There are four categories:

- Single-Crop - Non-Irrigated
- Single-Crop - Irrigated
- Double-Crop - Non-Irrigated
- Double-Crop - Irrigated.

There are no restrictions on management practices. To be eligible for cash awards, **ALL** yield entries **MUST** submit a quality entry.

FIELD REQUIREMENTS:

A contest field must be at least ten (10) continuous acres. **A minimum of three (3) acres** must be harvested from this area. Field measurement and yield determination must be made under the supervision of a county committee representative (See Field Measurement and Yield Determination rules and remarks).

FIELD MEASUREMENTS:

The field or portion of a field entered (a minimum of three acres or 130,680 square feet) **must be one continuous area** and **preferably with four straight sides** (*irregular shapes cause problems with yield determination*) unless the entire field is included in the harvested area. In measuring, plot width will 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 of one-half the average row width beyond the outside harvested row on each side). The measurements will be made by an approved supervisor. All measurements must be with a steel or fiberglass tape or measuring wheel **and recorded in feet**. Record each



2021 Kentucky Soybean Production Contest

measurement on the field map diagram on Form B. **If a whole field** is harvested and entered in the contest (and due to the irregular shapes and dimensions of whole fields), the acreage determination for the whole field will be accepted from the County FSA Office as determined from official USDA aerial photographs. A letter from the County FSA Office verifying the whole field acreage must accompany the entry.

YIELD DETERMINATION:

1. At least one member of the County Soybean Contest Committee **must be present** to supervise measuring, harvesting and weighing of the yield for each entry. If a 100 bushel Division I or 80 bushel Division II entry is suspected, it is encouraged that **TWO supervisors be present**. If only one supervisor is present a re-check will be required.
2. Before the soybean contest area is harvested, the person supervising the harvest must ensure the entrant has emptied the combine so no soybeans have been left in it and that the wagons and/or trucks in which the contest yield will be weighed are empty.
3. Harvested soybeans must be weighed on a certified scale. A **weigh ticket must be attached** to the completed entry form and signed by the person doing the weighing. A representative sample must be taken immediately for determining moisture content.
4. Yields will be calculated on the basis of No. 1 soybeans and will consist of the weight of harvested soybeans, corrected to 13% moisture, and converted to bushels per acre. Percent moisture should be determined by a local elevator operator or take an average of 3 moisture samples. Foreign matter does not need to be determined.

YIELD CONTEST DEADLINE:

Completed entries (Forms A, B C, and a valid weigh ticket) must be received by the State Soybean Contest Committee **on or before November 15, 2021**. Make copies of each entry for your own records.

SUPERVISORS:

The County Soybean Contest Committee will be under the direction of the County Agent for Agriculture who can approve all supervisors. Supervisors should be representatives of agricultural agencies. This committee should select a chairman for the purpose of certifying Form C (usually the County Agriculture Agent).

The County Committee will determine: (1) that the acreage planted meets the minimum requirements, (2) the yield entry has been produced within the specifications of the contest rules, (3) the weights are made on certified scales, (4) a representative sample is drawn for moisture, (5) all field measurements and yield computations are accurate, and (6) the final results of all applicants are certified and sent to the Chairman of the State Committee.

Counties are responsible for encouraging soybean growers to enter the state contest.

STATE COMMITTEE:

The State Soybean Contest Committee will consist of the following:

- Two Grain Crops Extension Specialists, University of Kentucky
- Executive Director of Kentucky Soybean Association
- One County Agricultural Extension Agent

2021 Kentucky Soybean Production Contest

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. They may make any changes in awards for the contest deemed necessary as dictated by funds. Any irregularities in regard to the requirements of the program as outlined will be just cause for disqualification.

YIELD CONTEST AWARDS:

Awards are sponsored by the Kentucky Soybean Association, Kentucky Soybean Promotion Board and participating soybean agribusinesses. (Kentucky Soybean Promotion Board and Kentucky Soybean Association board members may enter the Soybean Production Contest but are **NOT** eligible for any cash award.) Winners will be announced and awards presented at the 2022 annual Kentucky Commodity Conference. **Cash awards** may be adjusted due to available funding and **will be presented only to those winners who attend the Awards Banquet**. The Kentucky Soybean Promotion Board will provide lodging (one room; the night of the banquet) for award winners to attend the Awards Banquet and the Kentucky Soybean Association will furnish each winning operation a 1-year membership.

A. STATE YIELD AWARDS:

1. **State Champion:** Highest Yield Per Acre in State regardless of Division
A **traveling trophy** has been donated by the Kentucky Soybean Association for the State Champion. Each year the winner's name will be engraved on it and will be displayed for one year in that winner's County Extension office.
2. **Division I: Single-Crop Soybeans**
Non-Irrigated
Champion Plaque and \$1,000 cash award.
Second Place Plaque and \$500 cash award.
Irrigated
Champion Plaque and \$1,000 cash award.
Second Place Plaque and \$500 cash award.
3. **Division II: Double-Crop Soybeans**
Non-Irrigated
Champion Plaque and \$1,000 cash award.
Second Place Plaque and \$500 cash award.
Irrigated
Champion Plaque and \$1,000 cash award.
Second Place Plaque and \$500 cash award.

B. AREA YIELD AWARDS: State award winners will not receive area awards.

The Operation with the highest yield per acre (regardless of Division and not a state award winner) in each of the four (4) areas listed below will receive a plaque and a \$100 cash award. Cash awards may be adjusted due to available funds.

- Area 1 – Purchase and Pennyrile Areas
- Area 2 – Green River Area
- Area 3 – Mammoth Cave Area
- Area 4 – Rest of State

2021 Kentucky Soybean Production Contest

C. YIELD CERTIFICATES:

1. Each participant with a yield of 70, 80 or 90 bushels per acre or more will receive a special certificate for high yield achievement.
2. Participation Certificates are given to entries that yield less than 70 bushels per acre.

D. SUPERVISOR INCENTIVE AWARDS (Soybean Yield Contest):

Awards will be presented to Supervisors to recognize their achievements and to encourage submission of entries in the State Soybean Yield Contest. Awards will be determined annually based on funding availability provided by KSPB. (Supervisors that serve on the Kentucky Soybean Association may submit entries to the Soybean Production Contest but are **NOT** eligible for cash awards.)

- 1) **Supervisor of State Champion:** **\$250 cash award**
- 2) **Supervisor Award:** **Plaque and \$250 cash award**
The Supervisor who submits the highest average yield for the top 3 entries.
- 3) **Supervisors with most entries:** **\$500 cash award**
In the event of a tie, the award will be divided equally among supervisors.
- 4) **Supervisors with 3 or more entries:** **\$100 cash award**
Supervisors with 3 or more entries and **did not receive** any other award. If more than 10 supervisors meet this criteria, the award money will be prorated to not exceed more than an overall total of \$1,000.

KENTUCKY 120 BUSHEL CLUB

The "Kentucky 120 Bushel Club" will provide incentive for Kentucky soybean producers to document 120 bushel per acre soybean yields in the state. The first Kentucky Soybean Production Contest entry that documents a 120 bu/A yield (or higher) will receive a **\$2,500 cash award** and two jackets embroidered with "KY 120 Bushel Club".

If more than one entry documents the first 120 bu/A soybean yield (or higher) the Operation with the highest yield will receive the cash award.

Every Operation that submits one or more entries with 120 bu/A (or higher) will receive a maximum of two embroidered "KY 120 Bushel Club" jackets.

KENTUCKY DOUBLE-CROP 100 BUSHEL CLUB

The "Kentucky Double-Crop 100 Bushel Club" will provide incentive for Kentucky double-crop soybean producers to document 100 bushel per acre soybean yields in the state. The first Kentucky Soybean Production Contest double-crop entry to document a 100 bu/A yield

2021 Kentucky Soybean Production Contest

(or higher) will receive a **\$2,500 cash award** and two jackets embroidered with “KY Double-Crop 100 Bushel Club”.

If more than one entry documents a 100 bu/A double-crop soybean yield (or higher) the Operation with the highest yield will receive the cash award.

Every Operation that submits one or more double-crop entries, with 100 bu/A (or higher) will receive a maximum of two embroidered “KY Double-Crop 100 Bushel Club” jackets.

KENTUCKY 100 BUSHEL CLUB

The “Kentucky 100 Bushel Club” will continue to provide incentive for Kentucky soybean producers to document 100 bushel per acre soybean yields in the state.

Every Operation that submits one or more entries with at least 100 bu/A (but less than 120 bu/A) will receive a maximum of two embroidered “KY 100 Bushel Club” jackets.

KENTUCKY DOUBLE-CROP 80 BUSHEL CLUB

The “Kentucky 80 Bushel Club” will continue to provide incentive for Kentucky soybean producers to document 80 bushel per acre double-crop soybean yields in the state.

Every Operation that submits one or more double-crop entries with at least 80 bu/A (but less than 100 bu/A) will receive a maximum of two embroidered “KY Double-Crop 80 Bushel Club” jackets.

SOYBEAN QUALITY CONTEST

ELIGIBILITY:

Beginning in 2021, the entries are **REQUIRED to enter** the Soybean Quality Contest to receive a cash award for the Yield Contest.

COLLECTING PROCEDURE:

- 1) The sample for soybean quality (% oil and % protein) must be taken from the soybeans that were harvested for the Soybean Yield Contest.
- 2) **A one pound sample is needed for testing.** Collecting a volume of at least three 8 oz. cups (24 oz. total volume) should ensure that enough soybeans have been collected for the needed one pound sample.

SOYBEAN QUALITY SAMPLE IDENTIFICATION:

- 1) Soybean quality samples need to be properly identified by Operation name when collected to avoid misidentification, particularly if multi-samples are collected from a county.
- 2) **See Form D** (attached) for explanation of using identification codes when samples are submitted for testing.

2021 Kentucky Soybean Production Contest

SUBMITTING SOYBEAN QUALITY SAMPLES:

- 1) Soybean quality samples are to be submitted in **heavier (freezer type) zip-lock plastic bags** (~ one quart size should be more than sufficient).
- 2) A **one pound sample** from the soybeans collected for each entry is required.
- 3) **Filling the zip-lock plastic bag with 3 cups of soybeans is equivalent to ~ one pound.**
- 4) Make sure the zip-lock plastic bag (when filled) is securely sealed.
- 5) If the soybean quality sample collected has a high initial moisture content, it may be best to air dry the sample before enclosing it in the zip-lock plastic bag.
- 6) For each sample, write (**with permanent magic marker**) the county identification code on the zip-lock plastic quality sample bag that corresponds to the ID code for that entry from Form C.

INFORMATION CONCERNING FORM D:

- 1) Form D **must be filled out** by each county and **included** with the soybean quality samples when they are sent to the KSA office.
- 2) Make two additional copies of completed Form D before it is sent to the KSA office.
 - Keep a copy for your own records.
 - **Include a copy of Form D** when you submit your completed Yield Contest entry forms (Forms A, B & C) to the State Contest Committee.

WHERE TO SEND SOYBEAN QUALITY SAMPLES:

Send the soybean quality samples to the KSA office. All samples received by the deadline date will then be shipped to the University of Minnesota to be tested for % oil and % protein content. The cost for testing each sample will be paid by the Kentucky Soybean Promotion Board.

Send soybean quality samples (including Form D)
Via **UPS/FedEx** to:

Kentucky Soybean Association
1000 US Highway 62 West
Princeton, KY 42445

SOYBEAN QUALITY CONTEST DEADLINE:

Soybean quality samples (including Form D) must be at the KSA office no later than **November 15, 2021**. Soybean quality samples received after that date will not be accepted or submitted for quality testing.

SOYBEAN QUALITY TEST RESULTS:

- 1) The soybean quality test results (% oil and % protein) when completed by the University of Minnesota will be sent to the KSA office. Because of time constraints, **the KSA office will send the soybean quality data directly to the State Soybean Contest Committee** (c/o Carrie Knott) for summarization and finalization of awards.

SOYBEAN QUALITY CONTEST AWARDS:

The awards are sponsored by the Kentucky Soybean Association, Kentucky Soybean Promotion Board and participating soybean agribusinesses. (Kentucky Soybean Promotion Board and Kentucky Soybean Association board members may enter the Soybean Quality Contest but are **NOT** eligible for any cash award.) Winners will be announced and awards presented at the 2022 annual Kentucky Commodity Conference. The Kentucky Soybean Promotion Board will provide lodging (one room the night of the Awards Banquet) for winners attending the Awards Banquet and the Kentucky Soybean Association will furnish

2021 Kentucky Soybean Production Contest

each winning Operation a 1-year membership. Monetary awards are provided by the Kentucky Soybean Promotion Board.

Four soybean quality awards will be presented: 1) The two highest % oil content in the state; 2) The two highest % protein content in the state. In the event of a tie, yield (total pounds of oil or protein per acre) will be used as the tie-breaker for each soybean quality award. Operations with more than one quality entry will be eligible for only one award for % oil and one award for % protein.

STATE SOYBEAN QUALITY AWARDS:

1. Highest % Oil Content:

- a. First Place in State Plaque and \$500 cash award.
- b. Second Place in State Plaque and \$250 cash award.

2. Highest % Protein Content:

- a. First Place in State Plaque and \$500 cash award.
- b. Second Place in State Plaque and \$250 cash award.