

# 2019 Corn Production Contest

## Form A - Harvest Entry

### 2019 Kentucky Extension Corn Production Contest Harvest Report Form

Reported Yield

Any Kentucky producer may enter the contest. This is a separate contest from the NCGA corn contest. A copy of the NCGA entry form along with agronomic practices is a suitable replacement for Form A. Please, send that copy to the address on this form to be eligible for the Kentucky Extension Corn Production Contest. Thank you.

Kentucky Extension Corn Production Contest Deadline: **Postmarked November 16, 2019.**  
We will adjust this date if the weather delays harvest.

1 KyCGA/NCGA Membership Number: \_\_\_\_\_ (not required)  
Name and/or Farm Name \_\_\_\_\_

2 Address \_\_\_\_\_ Work Telephone \_\_\_\_\_

3 City \_\_\_\_\_, KY Zip \_\_\_\_\_ Mobile Telephone \_\_\_\_\_

4 County of Contest Field \_\_\_\_\_ email \_\_\_\_\_

5 Division Entered  Division I (Tillage)  Division III (White Corn)  
 Division II (No-Till)  Division IV (Irrigated)

6 Acres in Field \_\_\_\_\_ Brand & Hybrid Planted \_\_\_\_\_

7 Row Width \_\_\_\_\_ inches ÷ 12 = \_\_\_\_\_ feet

8 Row length per pass: (nearest whole foot)

Pass	# of Rows Harvested one Pass		Row Length (whole foot)			Total Row Length	
<i>Example</i>	<i>8</i>	<i>x</i>	<i>500</i>	<i>ft</i>	<i>=</i>	<i>4,000</i>	<i>ft</i>
1		x	_____	ft	=	_____	ft
2		x	_____	ft	=	_____	ft
3		x	_____	ft	=	_____	ft
4		x	_____	ft	=	_____	ft
5		x	_____	ft	=	_____	ft
6		x	_____	ft	=	_____	ft
7		x	_____	ft	=	_____	ft
8		x	_____	ft	=	_____	ft
Total length of all rows							_____ ft

Row Width, inches	Row Width, feet	Total Feet of Row Needed to Equal 1.2500 acres
15	1.2500	43,560
20	1.6667	32,669
30	2.5000	21,780
36	3.0000	18,150

Conversion Chart	
Inches =	4 decimals
1" =	.0833
2" =	.1667
3" =	.2500
4" =	.3333
5" =	.4167
6" =	.5000
7" =	.5833
8" =	.6667
9" =	.7500
10" =	.8333
11" =	.9167

9 
$$\frac{\text{Total Length of all Rows (ft)}}{\text{Average Row Width (ft)}} \times \frac{43,560}{\text{(Sq. ft in one acre)}} = \text{Acres harvested (4 decimals)}$$

Key Phone numbers: (859) 338-5500 or (859) 257-3203

## Form A - Harvest Entry, continued

10 Total bushels of corn harvested

<b>Load A</b>	gross _____ minus tare _____ = _____ pounds of corn
	actual corn moisture percent _____ (2 decimals only), average of 3 readings
	pounds of corn _____ X adjusted moisture (100% - % actual moisture) _____
	÷ 47.32 (pounds of dry corn/bushel) = _____ Bushels harvested (Load A)

<b>Load B</b>	gross _____ minus tare _____ = _____ pounds of corn
	actual corn moisture percent _____ (2 decimals only), average of 3 readings
	pounds of corn _____ X adjusted moisture (100% - % actual moisture) _____
	÷ 47.32 (pounds of dry corn/bushel) = _____ Bushels harvested (Load B)

11 Test Weight of Corn \_\_\_\_\_  
(1 decimal)

13	+	=		<b>Reported Yield</b>
total bushels harvested (from Line 10, total loads A + B)		acres harvested (from Line 9)	bushels per acre adjusted to 15.5% (2 decimals)	

14 Date harvested \_\_\_\_\_

We, the undersigned, supervised the harvesting, weighing, moisture testing and reporting as prescribed in the rules and regulations of the 2016 Kentucky Extension Corn Production Contest. To the best of our knowledge, these figures are accurate. We do not have financial or direct business ties to a company that sells agribusiness supplies or services to this operation.

\_\_\_\_\_  
**Name (signature)**

\_\_\_\_\_  
**Name (signature)**

\_\_\_\_\_  
**Name (written)**

\_\_\_\_\_  
**Name (written)**

\_\_\_\_\_  
**Title**

\_\_\_\_\_  
**Title**

\_\_\_\_\_  
**Address**

\_\_\_\_\_  
**Address**

\_\_\_\_\_  
**Telephone**

\_\_\_\_\_  
**Telephone**

Send your completed form to: Chad Lee, Ph.D.

**Please Staple Weigh Tickets Here**

Kentucky Extension Corn Contest  
423 Plant Science Bldg., 1405 Veterans Drive  
Lexington, Kentucky 40546-0312

## Form B - Agronomic Data Form

This form must be completed and forwarded with the harvest report form. If you are submitting a copy of the NCGA yield form to the Kentucky Contest, then submit this Form B with that entry.

Reported Yield

**1 Name and/or Farm Name** \_\_\_\_\_

**2 Planting Information**

Planting Date \_\_\_\_\_ Previous Crop \_\_\_\_\_

Harvest Date \_\_\_\_\_

Planting Rate \_\_\_\_\_ Seeds/acre Harvest Population \_\_\_\_\_ Plants/acre

Corn Brand \_\_\_\_\_ Corn Hybrid \_\_\_\_\_

Hybrid Traits (RR2, HXX, VT3, etc) \_\_\_\_\_ Soil Type (Huntington, Pembroke, etc.) \_\_\_\_\_

**3 Soil Fertility** Last Soil Test (year) \_\_\_\_\_ Soil pH \_\_\_\_\_

Ag Lime \_\_\_\_\_ tons/acre applied Fall \_\_\_\_\_ or Spring \_\_\_\_\_ of \_\_\_\_\_

**Fertilizer, lb/acre applied since last crop:**

Nitrogen (N) \_\_\_\_\_ Phosphorus (P<sub>2</sub>O<sub>5</sub>) \_\_\_\_\_ Potassium (K<sub>2</sub>O) \_\_\_\_\_

Zinc (Zn) \_\_\_\_\_ Sulfur (S) \_\_\_\_\_ Boron (B) \_\_\_\_\_

Other \_\_\_\_\_ (kinds & amounts) Manure \_\_\_\_\_ (kinds & amounts)

When was N fertilizer applied?  Fall  Spring Pre-Plant  At Planting  Side-dress

Was starter used?  Yes  No Starter Type \_\_\_\_\_

How was N applied? \_\_\_\_\_ Surface # times applied \_\_\_\_\_

\_\_\_\_\_ Incorporated # times applied \_\_\_\_\_

\_\_\_\_\_ Through Irrigation # times applied \_\_\_\_\_

**4 Pest Management** (if none used, please mark "none")

Seed Treatment(s) 1) \_\_\_\_\_ 2) \_\_\_\_\_

Herbicide(s)	Fungicide(s)	Insecticide(s)

**5 Tillage Practices**

Timing	Tillage Equipment Used	No. of Times
Fall		
Spring		
In-Season		

**For No-Till:**

a) No-Till Planter Set-up: (i.e. row cleaners, etc.) \_\_\_\_\_

b) Any Deep Tillage in a No-Till Field?  
 No  Yes  If yes, what tool did you use? \_\_\_\_\_

c) How many years has this field been in no-till? \_\_\_\_\_

**6 Planting and Harvesting Equipment**

Planter Make/Model \_\_\_\_\_

Harvester Make/Model \_\_\_\_\_

**7 Cover Crops Planted** in Last 3 Years \_\_\_\_\_

Timing of Cover Crop Removal (before / after planting) \_\_\_\_\_

## Contest Eligibility, Classes and Awards

The Kentucky Extension Corn Production Contest awards producers who use sound cultural practices to increase profitability of corn production in Kentucky. **Please read the rules carefully.** The Kentucky Cooperative Extension Service, the Kentucky Corn Growers Association, and cooperating seed companies and other agribusinesses sponsor the contest.

### Kentucky Contest and the NCGA Contest

The Kentucky Extension Corn Production Contest and the NCGA Corn Contest are two separate contests. Rules for the two contests differ, including contest divisions, eligibility and supervisor requirements. The Kentucky Extension Contest will accept a copy of an NCGA Harvest Report form. However, that copy must be mailed to the proper Kentucky address by the posted deadline to be eligible for the Kentucky Extension Corn Production Contest. Also, Form B, (Agronomic Data) or a copy of the agronomic data on the NCGA entry, must be submitted with the copy of the NCGA Harvest Report form.

### Contest Classes

**A. Division I: Tillage, Non-irrigated:** Corn hybrid grown in Kentucky without irrigation in a Conventional Tillage or Minimum Tillage system. Conventional Tillage and Minimum Tillage fields include soil disturbance from mechanical tillage anytime between the prior year's harvest through the harvest of this year's contest. Examples of mechanical tillage are fall disking, fall surface tillage, fall deep ripping, moldboard plow, chisel plow, disks, harrows, TurboTill, etc.

**B. Division II: No-Tillage, Non-irrigated:** Corn hybrid grown in Kentucky without irrigation in a No-Tillage system. No-Tillage qualifications are as follows: **1)** The soil residue is left undisturbed, no mechanical tillage, from the prior year's harvest through the harvest of this year's contest; **2)** Planting units may use row cleaners but less than one-third of the row width is disturbed at planting; and **3)** Weed control is accomplished with herbicides. (Note: these qualifications are similar to the NCGA No-Till/Strip-Till qualifications.)

**C. Division III: White Corn, Non-irrigated:** Corn hybrid grown in Kentucky designated as having a white kernel and grown without irrigation.

**D. Division IV: Irrigated Corn:** Corn hybrid grown in Kentucky with Irrigation regardless of tillage type and kernel color.

### Contestant Eligibility

Any producer (owner-operator, tenant, or tenant-landlord) who produces at least ten (10) continuous acres of corn in Kentucky may enter. A producer may make more than one entry per division if the entries are **different hybrids from different fields**. However, a producer with more than one entry will be eligible for only one award in Divisions I, II, III and IV. Members of the same family may enter separate entries, but these entries must be from separate fields. Producers may make entries as a single farming operation rather than a single person. A contestant can submit more than one entry, but each contestant will be eligible for only one (1) state award.

### Field Eligibility

A contest field in the state of Kentucky must be ten (10) or more continuous acres of a **single** hybrid. Only one entry per field is eligible for the Kentucky Extension Corn Production Contest. A total of 1.2500 or more acres must be harvested as shelled corn with a multiple row harvester from the contest plot. The land must be owned or leased by the contestant. More details about the field are in the Harvesting Rules.

### County Committee and Supervisor

The Kentucky Extension Corn Production Contest County Committee will be under the direction of the County Extension Agent for Agriculture and other members as appointed. Other county supervisors should be representatives of agricultural agencies and farmers. These individuals are responsible for all computations and field measurements and should be present during harvesting, weighing and moisture testing. Counties are encouraged to sponsor individual county contests and be responsible for encouraging corn growers to enter the state contest.

A supervisor cannot be related to the contestant, be a seed corn representative, chemical dealer or be an employee, employer, or consultant of the contestant or of his/her farm.

## State Committee

The Kentucky Extension Corn Production Contest State Committee shall consist of: 1) Two Grain Crops Extension Faculty, University of Kentucky, 2) One Corn Company Representative and 3) One County Agriculture Extension Agent.

The State Corn Contest Committee shall have the authority to arbitrate any point of contention that might develop in the administration of the program and State Corn Contest Committee decision will be final. Any irregularities in regards to the requirements of the program as outlined will be just cause for disqualification.

## Contest Awards

Winners will be announced and awards given at the 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 Corn Growers Association will provide lodging for one (1) room for one (1) night for each producer winner who attends the Awards Banquet.

## State Awards

Each contestant is eligible for only one (1) state award.

### Divisions I, II, and III (Non-Irrigated Tillage, No-Tillage and White Corn)

Yields from Divisions I, II and III will be combined to identify the three highest yields per acre. Awards will be for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> places and will include a trophy or plaque and possibly a monetary award. The State Champion will be engraved on Highest Non-Irrigated Corn Yield traveling trophy, sponsored by the Kentucky Corn Growers Association in honor of Jack Crowner that is to be displayed in the champion's county extension office for one year.

### Division III (Non-Irrigated White Corn)

First place award, 2<sup>nd</sup> place award (if at least 10 entries were submitted) and 3<sup>rd</sup> place (if at least 15 entries were submitted). The state awards will include a trophy or plaque and possible a monetary award. The White Corn Champion name will be engraved on a traveling trophy, sponsored by DuPont Pioneer, that is to be displayed at the champion's county extension office for one year.

### Division IV (Irrigated)

First place award, 2<sup>nd</sup> place award (if at least 10 entries were submitted) and 3<sup>rd</sup> place (if at least 15 entries were submitted). The state awards will include a trophy or plaque and possible a monetary award. The Irrigated Corn Champion will be engraved on a traveling trophy, sponsored by Whayne Agri-Business that is to be displayed in the champion's county extension office for one year.

## District Awards

State award winners will not receive district awards. Entrants for Division I and II are divided into the six districts listed below. The contestants in Divisions I and II with the highest yield per acre but not a state award winner in each District will receive an appropriate award. Those districts are as follows:

District	Area	District	Area(s)
1	Purchase	4	Mammoth Cave and Lincoln Trail
2	Pennyrile	5	Louisville, Northern Kentucky, Fort Harrod, Bluegrass, and Licking River
3	Green River	6	Lake Cumberland, Wilderness Trail, Quicksand, Northeast Kentucky

*(Changes may be made at the discretion of the State Committee).*

## Certificates

1. 275 Bushel Club - A certificate for membership in the 275 Bushel Club will be presented to producers with yields of 275 bushels or more.
2. Certificate for Participation Recognition will be available for all completed entries that are not state or district winners.

## Agent Awards

The Extension Agent for Agriculture and Natural Resources who has the highest average yield for the **top three** applications in EACH non-irrigated division will receive a plaque as recognition for superior accomplishments in the Kentucky Extension Corn Production Contest. If there are enough entries in the irrigated division, then a similar award will be given in this division.

## Harvest Rules

### Harvest Area

The Kentucky field harvest area must be five (5) or more acres of which **no part has been harvested prior to the contest**. Total field size must be ten (10) or more continuous acres of a single hybrid. The harvest area may be any shape, but must be in a continuous block. A minimum of 1.25 acres (rounding up is not allowed) must be harvested as shelled corn with a multiple row harvester from the contest area. End rows, turning rows and an equal number of outermost rows on each side of the field may not be part of the contest plot.

Until the initial check is calculated, the contestant must leave **unharvested** the corn remaining from the original required harvest pattern, plus one set of skipped rows on each side. The unharvested corn will be used for the recheck if the yield is 325 bushels per acre or more.

The uniform width of the planter spacing defines the continuous acres of a single hybrid. The spacing of parallel corn rows may not be more than 120% of the planter row spacing and still qualify as “continuous”. Example: a planter spacing is 30 inches then the parallel corn rows may not exceed 36 inches ( $30 \times 1.20 = 36$ ). In interest of best management practices, grass waterways and drainage ditches may be a part of the contest plot if at some point in the 10 acres the uniform planter row spacing is evident. The width of the grass waterway will be included in the harvested row length if corn rows are planted to cross the waterway. If the rows are planted alongside the waterway or drainage ditch and row lengths vary, the actual length of each row must be included in the total row length.

### Reporting Yields

After the required 1.25 acres or more have been harvested, and if the yield is 325.00 bushels or more per acre, the yield must be reported immediately by telephone to the State Corn Committee Office, Chad Lee at 859-338-5500 or 859-257-3203. You may leave a message.

### Supervising Harvest

One (1) supervisor must oversee all computations and field measurements and must be present for the harvesting, measuring, weighing, moisture-testing and reporting to the State Corn Committee as required. A supervisor cannot be related to the contestant, be a seed corn representative, chemical dealer or be an employee, employer, or consultant of the contestant or of his/her farm. The supervisor can have an assistant help him/her with the supervision. The assistant must follow the same guidelines as the supervisor. The entrant is responsible for mailing the completed form to: Chad Lee, Kentucky Extension Corn Contest, 423 Plant Science Bldg. Lexington, KY 40546-0312.

### Verifying Over 325 Bushels per Acre Yield.

For Kentucky ONLY entries (NCGA Corn Contest rules are different).

One (1) supervisor is needed to verify all yield checks below 325.00 bu/acre for the Kentucky contest. If the farmer suspects that the yield will be above 325.00 bu/acre, then two (2) supervisors can witness one yield check and that yield check can be valid for the contest.

If only one supervisor is present and the yield is over 325.00 bu/acre, then two (2) supervisors are needed for a recheck. The recheck will be the official yield for the contest. The first supervisor may serve as one of the supervisors of the recheck. The second supervisor must meet the requirements of the Kentucky Corn Committee. Only one (1) recheck will be made. The recheck must be taken from the same field area and in the same fashion as the initial check. The field cannot be harvested until the official check is signed by both supervisors. The official check must be submitted to the contest. Please note: the above guidelines are for Kentucky ONLY entries. The NCGA has a different set of requirements. If NCGA guidelines are followed for supervisors, yield checks and re-checks, they will be considered valid for the Kentucky Extension Corn Contest.

Kentucky State Corn Contest Check and Recheck Guidelines for Kentucky-only entries. These are different than the NCGA guidelines. If you follow the NCGA guidelines, the Kentucky Contest will accept that entry. If you follow the Kentucky Contest Guidelines listed here, the NCGA Contest will NOT accept the entry.		
	Yields 324.99 bu/A or less	Yields 325.00 bu/A or higher
<b>Initial Check</b>	One or two qualified supervisors completes the initial check.	Two qualified supervisors completes the initial check.
<b>Recheck</b>	Not required for Kentucky Contest	Recheck required if only one supervisor completed the initial check. No recheck required if two supervisors completed the initial check.
		<u>All yields 325.00 bushels or more</u> must be reported immediately by telephone to the State Corn Committee Office, Chad Lee at 859-338-5500 or 859-257-3203.

**KENTUCKY-ONLY ... KENTUCKY-ONLY ... KENTUCKY-ONLY**

### Harvesting

The supervisors must have the entrant run his/her combine empty to make certain no corn has been left in it by mistake. All wagons and/or trucks must be checked to make certain they are empty. A set of rows shall be harvested, then three times that number skipped, another set harvested and three times that number skipped and so on until the required 1.25 or more acres have been harvested.

*Examples:*

- Four row harvester            Harvest 4 rows, skip 12 rows, harvest 4, skip 12, and so on.
- Six row harvester            Harvest 6 rows, skip 18 rows, harvest 6, skip 18, and so on.
- Eight row harvester        Harvest 8 rows, skip 24 rows, harvest 8 rows, skip 24, and so on.
- Twelve row harvester       Harvest 12 rows, skip 36 rows, harvest 12, skip 36, and so on.

### Measuring

Measurements **may be** with a steel or fiberglass tape, or measuring wheel and each measurement recorded on the form to be submitted to the state committee. The measuring wheel cannot be operated from a motorized vehicle. A laser may also be used if the rows are straight and the field is flat. If the field has any kind of curve or slope to it, a laser cannot be used to measure. Checking wheel calibration accuracy and laser calibration accuracy is recommended. Proper tape and chain measurements are taken with the chain or tape pulled tight but not off the soil surface.

**Row Length.** Measure between the two center rows of each set harvested and record the length for each of the rows in the set to the last whole foot. For example, if 8 rows were harvested in a set, measure between rows 4 and 5. If a waterway cuts through the contest area, then each row must be measured individually. Center pivot tracks should not be subtracted from row lengths.

**Row Width in feet** - (based on spacing of the planter row units, such as 20", 30", 36" etc. = 1.67', 2.5', 3', etc.).

Row Width (inches)	Row Width (feet)	Total Feet of Row Needed to Equal 1.2500 acres
15	1.2500	43,560
20	1.6667	32,669
30	2.5000	21,780
36	3.0000	18,150

### Calculating Acres Harvested

The total row length times the average row width divided by 43,560 (square feet in one acre) equals acres harvested.

Example: twelve-row harvester:

## 2019 Kentucky Extension Corn Contest

If 24 rows were harvested and each row is 910 feet long and the row width is 2.5 feet, then  $910 \text{ ft} \times 24 \text{ rows} = 21,840 \text{ ft} \times 2.5 \text{ ft}$  divided by  $43,560 = 1.2534$  acres.

### Weighing

All corn must be weighed on a state-inspected scale. The supervisor must weigh or oversee the weighing of the corn. A weigh ticket **must** be attached to the harvest report form. It must have the name of the company where the weighing was done and the name of the person doing the weighing written on it. Original weigh tickets are required, unless the entry is also an NCGA yield contest entry. Original weigh tickets must be submitted to NCGA for NCGA entries. Copies of NCGA entries are accepted for Kentucky Extension Yield Contest entries.

### Moisture Testing

The grain moisture can be tested with a certified moisture tester and must be supervised. Or, *three samples* can be tested with a non-certified tester (including portable testers) that has been calibrated. The average of the three readings is the official moisture for the contest. The supervisor(s) must be present for moisture testing.

### Calculating Yield

First, find the number of bushels of corn harvested, corrected to 15.5% moisture, then divide by the acres harvested to get bushels per acre.

To calculate bushels harvested, corrected to 15.5% moisture, take the total pounds of corn harvested, times the difference of 100% and the percent moisture in the corn, and divide by 47.32 (pounds of dry corn in one bushel of 15.5% corn).

Example: 19,000 pounds of corn at 21.35% moisture.

$100\% - 21.35\% = 78.65\% = 0.7865$

$(19,000 \times 0.7865) / 47.32 = 315.7967$  bushels of corn at 15.5% moisture

$315.7967 \div 1.2534 \text{ acres} = 251.95$  bushels per acre

### Signed Entries

Each supervisor who monitored the yield check must sign the harvest report form.

### Completed Entries

The 2019 Harvest Report Form (Form A) and the Summary of Agronomic Data Form (Form B) should be completed and forwarded to the State Corn Contest Committee no later than **November 15, 2019**, by the county agricultural agent or other designated person.

**Note:** Entries in the NCGA Corn Contest may be copied mailed to the Kentucky Extension Corn Contest. However, **please fill out Form B (Summary of Agronomic Data)** or provide a copy of the agronomic data submitted to NCGA and enclose it with a copy of the NCGA entry. The copy of the NCGA and Form B must be mailed to the State Corn Contest Committee to be eligible for the Kentucky Extension Corn Production Contest. The contestant is responsible for mailing the forms to the Kentucky Extension Corn Contest.