

Form A, Harvest Entry

2011 Kentucky Extension Corn Production Contest
Harvest Report Form – Updated Division Definitions

Reported Yield

(A copy of the NCGA entry form is a suitable replacement for Form A. That copy must be sent the address on this form to be eligible for the Kentucky Extension Corn Production Contest.)

Kentucky Extension Corn Production Contest Deadline: **Postmarked December 1, 2011**

1 Name and/or Farm Name _____ Work Telephone _____

2 Address _____ Mobile Telephone _____

3 City _____, KY Zip _____ Other Telephone _____

4 County _____ email _____

5 Division Entered _____ Division I (Conventional/Minimum Till) _____ Division III (White Corn)
Updated Definitions _____ Division II (No-Till) **Updated Definition** _____ 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	
Example	8	x	500	ft	=	4,000	ft
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

10 Total bushels of corn harvested

gross _____ minus tare _____ = _____ pounds of corn

actual corn moisture percent _____ (2 decimals only), average of 3 readings

Load A

pounds of corn _____ X adjusted moisture (100% - % actual moisture) _____

÷ 47.32 (pounds of dry corn/bushel) = _____ Bushels harvested
(Load A)

gross _____ minus tare _____ = _____ pounds of corn

actual corn moisture percent _____ (2 decimals only), average of 3 readings

Load B

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

÷

=

Reported Yield

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 2011 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)

Title

Title

Address

Address

Telephone

Telephone

Send your completed form to:

Chad Lee
Department of Plant & Soil Sciences
423 Plant Science Bldg., 1405 Veterans Drive
Lexington, Kentucky 40546-0312

Please staple weigh tickets here

Form B, Agronomic Data Form*

2011 Kentucky Extension Corn Production Contest

Reported Yield

1 **Name and/or Farm Name** _____

2 **Planting Information** Previous Crop _____

Planting Date _____ 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	N	P ₂ O ₅	K ₂ O	Other	
Preplant	_____ lbs/a	_____ lbs/a	_____ lbs/a	_____	_____ lbs/a
Starter	_____ lbs/a	_____ lbs/a	_____ lbs/a	_____	_____ lbs/a
Sidedress	_____ lbs/a	_____ lbs/a	_____ lbs/a	_____	_____ lbs/a
Other	_____ lbs/a	_____ lbs/a	_____ lbs/a	_____	_____ lbs/a

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

Seed Treatment 1) _____ 2) _____

Herbicide(s)	Rate/Acre	Insecticide(s) / Fungicides(s)	Rate/Acre
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

5 **Soil Preparation**

A) Check tillage category (note: conventional tillage and minimum tillage are both in the 'tilled category')

1) Conventional Till 2) Minimum Till 3) No-till

B) For conventional and minimum tillage, list the operations performed and equipment used. (Be sure to include ripping or other deep tillage operations, if used.)

Timing	Tillage Equipment Used	No. of Times

C) For No-Till:

1) describe no-till planter set-up, coultter type, row cleaner, seed firmer, row closers, etc.

2) Did you rip or do other deep tillage on this field last fall or this spring?
 No Yes If yes, what tool did you use? _____

3) How many years has this field been in no-till? _____

6 **Planting and Harvesting Equipment**

Planter Make/Model _____

Harvester Make/Model _____

*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.

2011 Kentucky Extension Corn Production Contest

ELIGIBILITY, CLASSES AND AWARDS

The Kentucky Extension Corn Production Contest was organized to award producers who use sound cultural practices to increase profitability of corn production in Kentucky. **Please read the rules carefully.**

SPONSORS

The contest is sponsored by the Kentucky Cooperative Extension Service, the Kentucky Corn Growers Association, and cooperating seed companies and other agribusinesses.

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 slightly, including contest divisions, eligibility and supervisors. 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.

1. CONTEST CLASSES (UPDATED DEFINITIONS FOR 2011)

A. Division I: Conventional and Minimum Tillage, Non-irrigated: Corn hybrid grown 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, etc.

B. Division II: No-Tillage, Non-irrigated: Corn hybrid grown 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 designated as having a white kernel and grown without irrigation.

D. Division IV: Irrigated Corn: Corn hybrid grown 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 ten (10) or more continuous acres of a **single** hybrid. From that, the contestant shall select a plot of five (5) or more acres, of which no part has been harvested. Only one entry per field is eligible for the Kentucky Extension Corn Production Contest. A minimum of 1.25 acres will be harvested from this area as outlined in the harvesting rules. The land must be owned or leased by the contestant.

Continuous acres of one hybrid number is defined by the uniform width of the planter row spacing. 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.

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 county corn growers to enter the state contest.

2011 KENTUCKY EXTENSION CORN 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 Specialists, 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:

The awards are sponsored by the Kentucky Corn Growers Association and cooperating corn and chemical companies under the supervision of the Kentucky Cooperative Extension Service. The Kentucky Corn Growers Association will provide funds for lodging at the Kentucky Commodity Classic for those winners who wish to spend the night. Any **cash awards** will be presented only to those who **attend the awards banquet**.

STATE AWARDS:

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

DIVISIONS I, II, AND III (NON-IRRIGATED, CONVENTIONAL TILL, NO-TILL AND WHITE CORN)

Divisions I, II and III will be combined to determine the three highest yields per acre. Awards will be for 1st, 2nd and 3rd places and will include a trophy or plaque and possibly a monetary award. If the highest yield in Division I, II or III does not receive one of the above state awards, a trophy will be presented to that Division winner. Awards for the division will be similar to Division IV guidelines. (For example, the three highest yields come from Divisions I and II. In this case a Division III winner will be recognized. If at least 10 entries are submitted for Division III, 1st and 2nd place for Division III will be awarded.)

DIVISION IV (IRRIGATED)

First place award, 2nd place award (if at least 10 entries were submitted) and 3rd place (if at least 20 entries were submitted). The state awards will include a trophy or plaque and possibly a monetary award.

TRAVELING TROPHY:

The name of the Highest Overall State Winner in non-irrigated divisions will be engraved on a traveling trophy. This trophy will be displayed for one year in the county extension office of the Highest Overall State Winner. Farm Service Network "Jack Crowner" on behalf of the Kentucky Corn Growers Association donated this trophy.

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. 250 Bushel Club - A certificate for membership in the 250 Bushel Club will be presented to producers with yields of 250 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.

2011 Kentucky Extension Corn Production Contest

HARVEST RULES

1. **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 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 300 bushels per acre or more.

2. **Reporting Yields.** After the required 1.25 acres or more have been harvested, and if the yield is 275 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.

3. **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. (See NCGA rules for additional requirements of NCGA supervisors.) The supervisor can have an assistant help him/her with the supervision. The assistant must follow the same guidelines as the supervisor.

4. **Verifying Over 300 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 300 bu/acre for the Kentucky contest. If the farmer suspects that the yield will be above 300 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 300 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. Please refer to the NCGA Corn Contest rules for more details.

5. **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.

6. **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. At this time, GPS is not allowed for measurement of contest area. If NCGA allows GPS tools, then the Kentucky Extension Corn Contest will allow it also.

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, place the wheel or tape between rows 4 and 5 to measure the length of all rows in the set.) If a waterway cuts through the contest area, then each row must be measured individually.

2011 KENTUCKY EXTENSION CORN CONTEST

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

7. **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:

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.

8. **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.

9. **Moisture Testing.** An experienced person must make a moisture determination of a representative sample of the corn. The sample should be run through the meter **three times** and the average of the three runs should be reported as the moisture.

10. **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: 19000 pounds of corn at 21.35% moisture.

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

$$(19000 \times .7865) / 47.32 = 315.7967 \text{ bushels of corn at 15.5\% moisture}$$

$$315.7967 \div 1.3923 \text{ acres} = 226.82 \text{ bushels per acre}$$

11. **Signed Entries.** The harvest report form must be signed by the supervisor on the initial check, and both supervisors for the recheck.

12. **Completed Entries.** The 2011 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 **December 2, 2011**, by the county agricultural agent or other designated person.

Note: Entries in the NCGA Corn Contest may be copied and entered automatically in the state contest. However, **please fill out Form B (Summary of Agronomic Data)** 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.