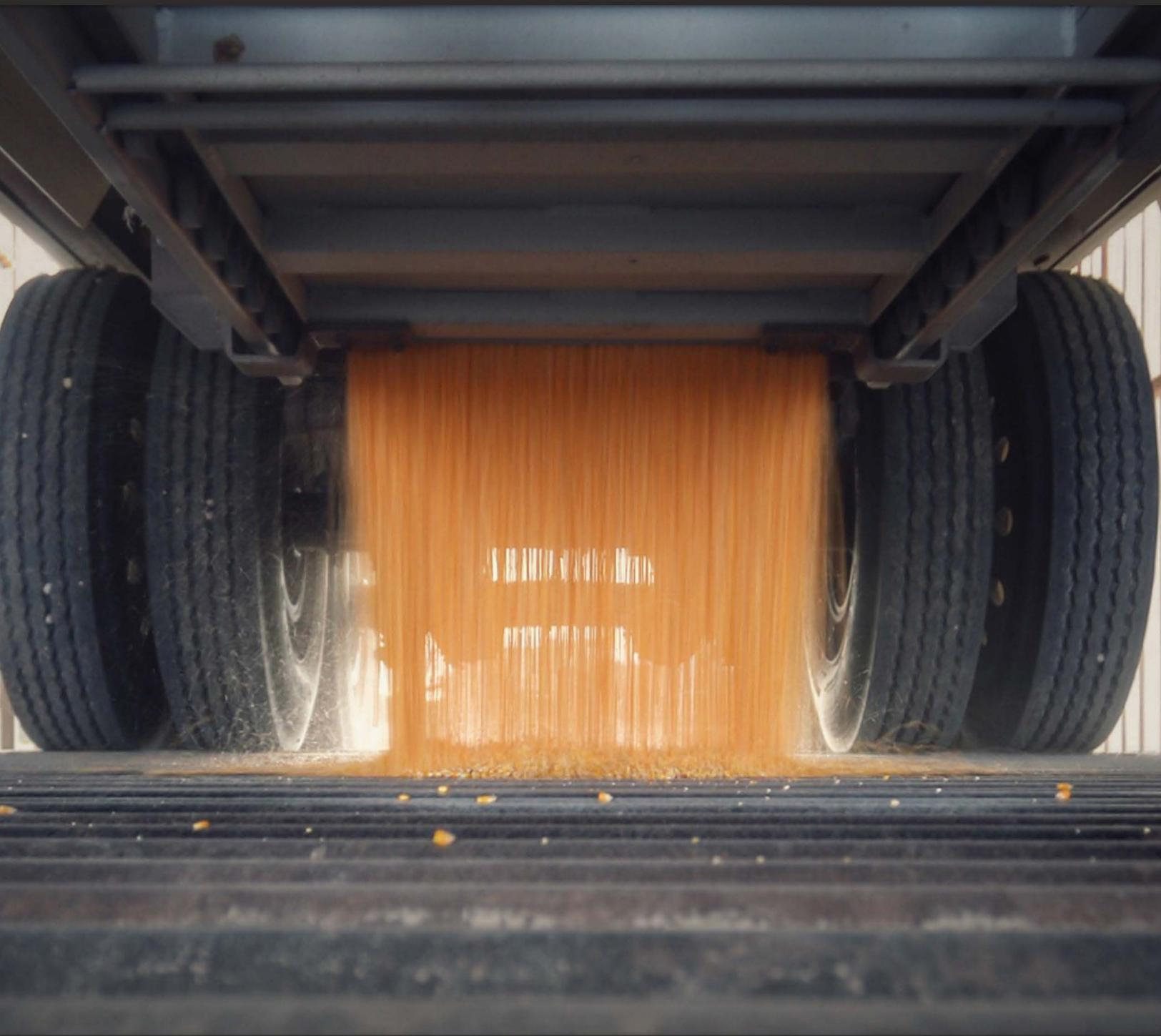


NATIONAL
CORN YIELD
CONTEST

ENTRY & HARVEST RULES



UPDATED MARCH 2020

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Entry Rules

The NCGA National Corn Yield Contest has been organized to encourage the development of new, sustainable and innovative management practices resulting in higher yields and to show the importance of using sound cultural practices in United States corn production. Please read the rules carefully. All rules set forth herein apply to all contest classes alike.

Contest Entrant Qualifications and Rules

- Entrant must be a producer and member (regular, lifetime, honorary lifetime or student) of the National Corn Growers Association and have a current membership paid through April 1 of the following year. The National membership also includes membership in the grower's State association (if applicable).
- Be at least fourteen (14) years of age at the time of entry.
- Only individuals can enter the National Corn Yield Contest. The membership number used to enter the contest must have a corn producer's name listed as well as the member's current email address. A member may enter multiple times and in multiple categories but may only win one national and one state award.

NCGA's bylaws state that a member must be in the name of an individual corn producer (e.g., owner, manager or operator). An individual's membership may list a farm or business entity associated with their surname, but no membership can be held in an entity name. Multiple partners in a farming entity may enter separately if they each have an individual membership in their own name, actively participate in the operation of the farm, and no individual may have more than one membership number.

State corn checkoff programs fund research, promotion and educational efforts to enhance corn production and demand. The corn checkoff facilitates growth of existing markets and creates new uses by directing marketing, research and commercialization programs. Grower participation in the corn checkoff helps increase the demand for corn, ensuring a strong and profitable future for corn farmers. Refund requests undermine efforts to increase production efficiency, reduce market demand, and ultimately undermine farm profitability.

- A member who requests a refund from their state checkoff between the dates August 1 of the previous year through July 31 of the current contest year is subject to disqualification per the request of the member's state corn association.

If requested, the entrant agrees to provide records to NCGA of his or her methods of handling and preparing the land; cultivation and weed control methods; insecticides, fungicides, herbicides, fertilizers and rates of same that are used; the brand and variety of seed, seed rating; date of planting, type and brand of corn planter, row width and date of harvesting; and if an irrigator, the time of irrigation, amount of each application and whether a sprinkler or flow-on system.

National officers, directors, action team or committee members as well as employees of the National Corn Growers Association, may not compete in the contest.

Class Descriptions

CONTEST CLASSES (Cannot be changed at time of harvest)

- Select one class only per entry and list only one hybrid per field per entry.
- Select the correct class on the Entry and retain completed confirmation copy for your records.
- All entries must be submitted two (2) weeks prior to harvesting your NCYC plot (if you harvest before the entry deadline of August 15, 2020).
- Contact NCGA (ncyc@ncga.com) if a correction needs to be made on your entry. A member cannot edit their completed entry after a confirmation has been generated.

A: Conventional Non-Irrigated

B: Conventional Non-Irrigated*

C: No-Till Non-Irrigated

D: No-Till Non-Irrigated*

E: Strip-Till, includes Minimum-Till, Mulch-Till, Ridge-Till Non-Irrigated

F: Strip-Till, includes Minimum-Till, Mulch-Till, Ridge-Till Class Non-Irrigated*

G: No-Till Irrigated

H: Strip-Till, includes Minimum-Till, Mulch-Till, Ridge-Till Irrigated

I: Conventional Irrigated

***Plot located in Illinois, Indiana, Iowa, Minnesota, Missouri, Ohio or Wisconsin.**

Conventional Tillage uses cultivation as the major means of seedbed preparation and weed control. Typically includes a sequence of soil tillage, such as ploughing and harrowing, to produce a fine seedbed leaving no crop residue on the field from the previous crop.

No-Till is defined as no mechanical tillage, from the prior year's harvest through the harvest of this year's contest, where the residue cover is left undisturbed with no mechanical tillage.

Strip-Till, Minimum-Till, Mulch-Till, Ridge-Till

- **Strip-Till:** One-third of the row width or less is disturbed and may involve any combination of soil and residue disturbance. Planting or drilling is accomplished in a narrow seedbed or slot created by coulters, row cleaners disk openers, in-row chisels, or rototillers. Weed control is accomplished with herbicides.
- **Minimum-Till:** Less intense than conventional tillage, to include tillage sequence designed to minimize or reduce loss of soil and water. Minimum tillage typically leaves a 30% or greater cover of crop residue on the surface after planting. Examples of minimum tillage include shallow tillage passes with field cultivators or disks set to a low aggressive setting. Soil mixing is a minimum. Minimum tillage does not use moldboard plowing or heavy disking. In the Southern U.S., residue decomposition may occur at a rate such that 30% of the residue is not present at planting.
- **Mulch-Till:** One hundred percent of the soil surface is disturbed by tillage whereby crop residues are mixed with the soil and a certain amount of residues remain on the soil surface.
- **Ridge-Till:** Less than one-third of the row width is disturbed at any point of time from prior year's harvest Contest Field

If a shank is used on a no-till field and no soil is disturbed the class would be no-till. The grower will need to determine, based on the amount of soil disturbed, if the tillage is categorized as strip-till or one of the other classes.

All Non-Irrigated classes will use no artificial means of irrigating (i.e. diverting rainwater from ditches or streams).

Contest entry must be *at least 10 continuous acres of one hybrid number*. No intercropping acreage may be included in a contest entry. Entry field may be larger than 10 acres. Contestant may select the best 10 acres in a corn field of the entered hybrid. The entry can be located anywhere in the continental United States. The land entered in the contest must be owned or leased by the entrant. If leased, the lessor's name is required to be disclosed on the Harvest Entry.

The definition of a field site is as follows:

- Supervisors must be able to determine location of each hybrid by a physical division in the field such as a:
 - Skipped non-planted area, not part of contest acres
 - Flag or other marker to determine division
 - Definite planting pattern for each 10-acre plot
 - Making the call by differences in physical appearance of the plant and/or ear only will **not** qualify.

- Harvest Rules must be applicable to each hybrid such as:
 - 10-acre minimum of one hybrid number in each plot
 - All end-rows and an equal number of side-rows for each hybrid must be removed before starting a supervised harvest. A minimum of one header pass must be harvested around the entire field and may not be a part of the selected 10-acre contest plot.

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: planter spacing is 30 inches, then the parallel corn rows may not exceed 36 inches ($30 \times 1.20 = 36$)*. In the 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 through 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.

TWIN-ROW PLANTERS – If a twin-row planter is used to plant your contest field, you will have to do a little math to figure the row spacing. This will be determined by taking the center of the close row spacing to the next close row spacing. *Example: Width between the close rows is 7.5" and the width of the large gap is 22.5". You will then divide the 7.5" by 2 to get 3.75" (half of width between the close rows). Then take $3.75" + 22.5" + 3.75" = 30"$ row spacing.* For the number of rows on the planter you will count two close rows as one row. *Example: Number of boxes or rows on planter is 12. You will count every two rows as one so you will put down that you have a 6-row planter.*

Hybrid Qualifications

Hybrid number:

- Must be currently commercially available for sale.
- Fields with inter-planted rows of a GMO hybrid number and corresponding non-GMO hybrid number do not qualify for entry.
- Fields with inter-planted row of a corn hybrid number and any other crop do not qualify for entry.
- Hybrids with refuge corn intermixed in the bag are acceptable as one incorporated hybrid number.
- The corn can be a hybrid of any color.

Contest Fees

Any individual contestant may enter more than one hybrid number in any class.

- An entry fee of **\$75 per hybrid if entered online *May 1 thru Tuesday, June 30, 2020.***
- After June 30, **\$110 per hybrid when entered online *Wednesday, July 1 thru entry deadline Monday, August 15, 2020.***
- Entry and/or Membership fees auto payment is built into the online entry for all hybrids participating in the 2020 Voucher Program. Payment completion will be verified on the Entry Confirmation.
 - Credit Card payment is available online for immediate payment for hybrids not in the Voucher Program.
 - Personal check payment is also accepted for hybrids not in the Voucher Program. The entry will be finalized only after receipt of the check payment mailed to NCGA, 632 Cepi Dr., Chesterfield, MO 63005.
- State membership dues must also be included in payment if you are not a current member. If your farm is on or near a state line and your hybrid entered is in one state but your mailing address is in another, you must indicate this when completing the Harvest Entry. The award will be given according to the state in which the hybrid is located.
- Seed companies in the 2020 Voucher Program will pay a one-year membership fee and entry fees for the following hybrids entered:

<i>AgriGold</i>	<i>Channel</i>	<i>DEKALB</i>	<i>Dyna-Gro</i>
<i>Enogen*</i>	<i>FS InVISION</i>	<i>Golden Harvest*</i>	<i>LG Seeds**</i>
<i>NK Brand*</i>	<i>Pioneer</i>	<i>Seed Consultants</i>	

*Syngenta will pay membership fee and entry fees for the first 150 entries of Enogen, Golden Harvest or NK Brand hybrids entered in the 2020 contest.

**LG Seeds will pay the first 100 entry fees of any LG Seeds hybrid entered in the 2020 contest.

Submit Entries Online www.ncga.com/ncyc

- An NCGA membership number can only be obtained through NCGA. Please call 636-733-5512 or email ncyc@ncga.com to provide the grower's name, mailing address, phone number and email address to find a grower's NCGA number or to create a new number.
- An entry is created online submitting the member's NCGA membership number & postal code.
- Sales Reps can establish a log in with their email address and personal password then access the grower information with the grower's membership number and postal code. All grower history created in the Rep login will be stored for the Rep using their personal login.

Membership Fees 2020

Membership fee includes membership in the National Corn Growers Association (NCGA) as well as the State association (if applicable). <https://www.ncga.com/membership/membership-benefits> to view NCGA member benefits.

NCGA and State Membership Dues

STATE	1 - Year
Alabama	\$80
Colorado	\$95
Georgia	\$35
Illinois	\$75
Indiana	\$70
Iowa	\$60
Kansas	\$50
Kentucky	\$40
Louisiana	\$50
Maryland	\$50
Michigan	\$60
Minnesota	\$75
Mississippi	\$60
Missouri	\$60
Nebraska	\$80
New York	\$99
North Carolina	\$25
North Dakota	\$35
Ohio	\$100
Oklahoma	\$45
Pennsylvania	\$40
South Carolina	\$100
South Dakota	\$150
Tennessee	\$60
Texas	\$60
Virginia	\$75
Wisconsin	\$60
ALL OTHER STATES	\$40

Include the dues rate for your State of residence if you are not a current member.

NOTE: Dues vary according to state programs (see list)

Supervisor Selection for the Online Entry

Contest online entry must contain Supervisor information prior to completing the entry. All current approved Supervisors are stored in the database and can be located using the search bar within each entry. Once selected your Supervisor's information on file will populate to your online entry. To request a new Supervisor not currently available in the database, please contact NCGA at 636-733-5512 for approvals. Complete Supervisor information must contain their full name, business, job title, address, telephone number and email address.

A supervisor cannot be related to the contestant, be a seed corn representative, chemical dealer or be an employee, employer, manager or consultant of the contestant or of the farming operation entering. See the Supervisor chart in the Harvest info for Supervisor qualifications and duties (Pages 9 & 10).

Questions Asked on the Online Contest Entry

- Choose the correct state where the contest field is located (not the state of residence)
- Select irrigated or non-irrigated. Irrigated fields that do not utilize artificial irrigation in a growing season due to rainfall must still be classified as irrigated.
- Select tillage type: Conventional, No-Till, or Strip-Till which includes Ridge-Till, Minimum-Till, and Mulch-Tillage
- The online entry program will automatically assign the entry class based on tillage, irrigation and plot location.
- Estimated percent of crop residue on the field surface after planting for class entries other than conventional.
- Hybrid Brand and Number
- Name of Sales Rep
- Sales Rep I.D. # for Pioneer entries and MTSA # for DEKALB entries
- Date planted
- Planting rate (seeds per acre)
- Row spacing (inches)
- Number of rows on planter (4, 6, 8, 12, etc.)
- Planter make & model
- Previous year's crop
- Is your farm participating in a sustainability program
 - Are cover crops used on any part of your operation Yes/No
 - Are you actively reducing tillage practices Yes/No
 - Do you have an active integrated pest management plan Yes/No
 - Are you an integrated crop and livestock operation utilizing manure Yes/No
- Chemical seed treatment
- Was a soil test taken on contest field. If yes, what year
- List Herbicides, Insecticides and Fungicides – how much, how applied & when applied
- List at least one Supervisor on the entry. Current, approved Supervisors can be located using the

Summary of Entering the National Corn Yield Contest

- Complete the NCYC Entry in its entirety online www.ncga.com/ncyc and retain a confirmation copy for your records.
- Entry and contest fees must be **completed online** by 4:30 pm Central Time no later than **Saturday, August 15, 2020**.
- Contest entry must be submitted two (2) weeks prior to harvesting your NCYC plot (if you harvest before the entry deadline of August 15, 2020). Southern state growers please hold on to your harvest information to submit when the harvest entry becomes available August 16, 2020.
- If paying with a check for your entry fee and membership dues, mailed check must accompany a copy of your Entry Confirmation. Entry will not be considered complete until payment is received.
- Make your personal check payable to the National Corn Growers Association.
- Mail check with Entry Confirmation to:
National Corn Growers Association
632 Cepi Drive
Chesterfield, MO 63005
- No refund of Entry Fees or Membership Dues will be issued after an entry is completed in the contest database.
- Harvest entry should be submitted within fourteen (14) days after harvest. See exception above where Southern grower's may need to retain their harvest information until the program opens August 16, 2020.
- Any questions, please contact NCGA: (636) 733-5512 Monday – Friday 8:00 a.m. – 4:30 p.m. Central Time or email ncyc@ncga.com.

Harvest Rules

Harvest Entry

The contest entry must be harvested in accordance with the harvest procedures set forth by NCGA.

Harvest Entries are required to be completed and submitted online: www.ncga.com/ncyc

- Enter the harvest results within two weeks after the final supervised yield check per individual entry is taken, or no later than **Monday, November 30, 2020**, whichever is the earlier date.
- Contest entry must have been submitted two (2) weeks prior to harvesting your NCYC plot (if harvested before the entry deadline of August 15, 2020). Southern state growers harvesting prior to the harvest entry period opening must retain their harvest information to enter their plot results when the harvest form becomes available August 16, 2020.
- The hybrid brand, number and trait package listed on the entry automatically transfers to the harvest entry. A change to the hybrid number can only be made by NCGA Administration. Hybrid brand cannot be changed (i.e. Entering a DEKALB hybrid on the Entry and changing to a Pioneer hybrid on the Harvest is not allowed).
- NCGA reserves the right to contact harvest supervisors to validate compliance with contest rules. NCGA also reserves the right, with advance notification, to observe any harvest.

Again, it is the responsibility of the entrant to verify that both their entry and harvest entries are properly completed and submitted to the NCGA office by the designated deadlines. Review and retain copy of both your entry and harvest confirmations for your records.

Review of Field Requirements

Designate 10-acres or more of one entered hybrid of unharvested corn. The contest area may be any shape but must be in one continuous block of corn. Continuous: Space between planter passes. See Entry Rules for details.

- Entrants and Supervisors are responsible for giving accurate row lengths for odd shape plots.
- All end rows/turning rows and the equal number of outermost rows on each side may not be a part of the selected 10-acre contest plot. A minimum of one header pass must be harvested around the entire field and may not be a part of the selected 10-acre contest plot.
- A total of 1.2500 or more acres must be harvested as shelled corn with a multiple row harvester from the contest plot.
- Designated 10-acre minimum plot size is recommended in the event a recheck of an additional 1.2500 minimum harvest is required of the entered hybrid.
- The entrant agrees to harvest the contest field as shelled corn with a multiple row harvester.

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 1.2500 or more acres have been harvested. It is acceptable if the 1.2500 acre minimum can be harvested in one continuous pass.

EXAMPLE:

Four-row harvester:

Harvest four rows – skip twelve – harvest four – skip twelve – repeat as needed.

Six-row harvester:

Harvest six rows – skip eighteen – harvest six – skip eighteen – repeat as needed.

Eight-row harvester:

Harvest eight rows – skip twenty-four – harvest eight – skip twenty-four – repeat as needed.

Twelve-row harvester:

Harvest twelve rows – skip thirty-six – harvest twelve – skip thirty-six – repeat as needed.

Supervisor Selection for the Harvest Entry

Supervisor approved on your Entry Confirmation may complete the initial check. Additionally, an approved Supervisor other than the one listed on your Entry may supervise your harvest. If your Supervisor is not currently listed in the online database, contact NCGA at (636) 733-5512 during week day business hours of 8:00 a.m. – 4:30 p.m. Central time for approvals. New Supervisor information may also be emailed to ncyc@ncga.com to include the Supervisor's name, address, business, job title, contact numbers and email address.

NCGA will approve only supervisors meeting the following qualifications:

- FFA Advisors
- Vocational Agricultural Instructor
- County Extension Agent or Assistant
- (NRCS) Natural Resources Conservation Service Employees
- (FSA) Farm Service Agency CED/Loan Manager/Officer
- (SWCD) Soil & Water Conservation District
- Farm Credit Services Officer
- Bank Ag Loan Officer
- Private Crop Consultant or Agronomist
- College of Agriculture Instructor
- American Society of FarmManagers Accredited Farm Manager
- Crop Insurance Agents/Adjustors
- Anyone who is retired from one of these positions

Current NCGA Stewardship Action Team members, Membership and Consumer Engagement Action Team and NCGA Corn Board members can serve as supervisors. Approved state corn association staff can also serve as supervisors.

Supervisors cannot be the following:

- Anyone that has a financial or direct business tie to a company that sells agribusiness supplies (Seed or Chemical reps, Farm Equipment salesmen, etc.)
- An employee or relative of the contest entrant
- The contest entrant
- Growers serving on state association boards or teams

What Supervisors are responsible for:

- Must be present during harvesting and weighing to determine the gross, tare and moisture
- Field measurements
- Completing all computations and verifying participation with signature on each document.
- Important: Supervisor must sign all weigh tickets as well as the document containing the harvest calculations (number of rows harvested with the length of each pass)
- Supervisor must contact NCGA to report all initial yield results exceeding 325.0000 bu./acre and again to report the recheck yield result of the reported plot.
- The supervisor(s) must have the entrant run his combine and the transfer auger empty to make certain no corn has been left in it by mistake. All wagons or trucks must be checked to make certain they are empty.

If a recheck is performed but was not required, according to the rules based upon the number of supervisors present and the yield outcome, the initial check will stand.

The entrant is ultimately responsible for submitting the information electronically, although, with permissions, the Supervisor or Sales Representative can complete the online Entry and Harvests. It is highly recommended that all parties retain copy of all completed confirmations for accurate verification.

	Yields 324.9999 or Less	Yields 325.0000 or Higher
Initial Check	One or two NCGA approved supervisors complete the initial harvest.	One or two NCGA approved supervisors complete the initial harvest.
Recheck	No recheck required.	Recheck is required with two NCGA approved supervisors. Supervisors must consist of one supervisor from initial check and one new NCGA approved supervisor OR Two new NCGA approved supervisors.
		All yields 325.0000 bushels or higher must contact the NCGA office to report yields before and after recheck at ncyc@ncga.com 636-733-5512 Monday – Friday 8:00 – 4:30 Failure to contact NCGA with 1st and recheck yields will result in disqualification. Harvests on nights and/or weekends can be emailed or by leaving a recorded phone message

NCGA Approved Supervisors: Supervisors who have been approved on the entry form, listed in the NCYC database or have been approved by an NCGA employee via phone call or email.

NCGA reserves the right to contact harvest supervisors to validate compliance with contest rules. NCGA ALSO RESERVES THE RIGHT, WITH ADVANCE NOTIFICATION, TO OBSERVE ANY HARVEST.

Initial Check

A minimum of one header pass around the entire field must be harvested before starting an initial check. The entrant selects the rows for the first pass; however, supervisor(s) need to agree that an acceptable number of rows remain to establish a harvest pattern as described on page 9. If the field is contoured or terraced, the area left unharvested must be in each contour or terrace interval, adjacent and equal to the area originally harvested. The entrant must harvest at least 1.2500 acres in order to complete the initial check. The unharvested corn will be used for the recheck if required by the guidelines from page 10.

Recheck

A recheck of 1.2500 acres or more using the same harvest pattern in the rows next to the completed initial check is required if yield exceeds 325.0000 bushels per acre. Both the initial check and the recheck must be submitted online. **The yield resulting from a required recheck will be considered the official yield if the initial check was harvested according to the requirements.**

Mandatory - Supervisor must contact NCGA to report all initial yield results exceeding 325.0000 bushels per acre and again to report the recheck yield result of the reported plot: 636-733-5512. After business hours and/or weekends a message may be posted listing the grower's name, supervisor's name calling in, and yield results. This information may also be emailed directly to ncyc@ncga.com at time of harvest of the first check as well as after the recheck. Failure to notify NCGA of yields greater than 325.0000bu/acre will result in disqualification.

Measuring

Preferred measurement tools are a tape or chain. Measuring wheels are acceptable for measurements but cannot be operated from a motorized vehicle. Verify wheel calibration for accurate measuring. (If not measured and recorded properly, it may result in changes in your official yield). A laser may also be used to measure only if the rows are straight and the field is flat. Laser has to be able to hit point to point. If the field has any kind of curve or slope to it, a laser cannot be used to measure. Checking laser calibration accuracy is recommended. Each measurement must be recorded on the form submitted to NCGA. Proper tape and chain measurements are taken with the measurement tool pulled tight but not off the ground surface. **** GPS is not allowed to be used to measure row lengths. Entrants deviating from this rule may be disqualified from the contest.**

Row Length: If the rows are all the same length, measure the length of one row and record same length for each of the rows harvested. If the rows are not all the same length, measure down the center of each set harvested and record the length for each of the rows in the set. (On pivot irrigation do not subtract wheel space).

Row Width: Record the row width based on spacing of the planter row units, such as 15", 20", 30", 36", 38", etc. This should be the same as originally listed on your entry. NOTE: space between parallel outside planter row units must be reasonably close (not to exceed 120%) to the space between planter row units.

In the interest of Best Management Practices, grass waterways may be a part of the contest plot if the uniform planter row spacing is evident in the selected harvest acres. The length of the grass waterway will be included in the harvested row length if corn rows are planted in the waterway. If corn rows are not planted in the waterway, the actual length of each row shall not be included in the total row length.

Calculating Acres Harvested

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

EXAMPLE: Four-row harvester, 20 rows harvested, each row 1,210 feet long. Row width 2.5 feet.

$1,210 \times 20 = 24,200 \times 2.5$ divided by 43,560 = 1.3889 acres.

Total feet of row needed to equal 1.2500 acres

<u>Row Width</u>	<u>Feet Needed</u>	<u>Row Width</u>	<u>Feet Needed</u>
15" (1.2500')	43,560	30" (2.5000')	21,780
18" (1.5000')	36,300	32" (2.6667')	20,418
20" (1.6667')	32,669	36" (3.0000')	18,150
22" (1.8333')	29,700	38" (3.1667')	17,195
24" (2.0000')	27,225	40" (3.3333')	16,335

Weighing

ALL WEIGH WAGONS ARE PROHIBITED.

It is recommended to weigh the corn as soon as possible after harvesting. The supervisor(s) must accompany the harvest to the state certified scale. On-farm scale may be used and it must be state certified. Weigh ticket printout must detail the yield data, the name of the company where the weighing was done, and the name of the person doing the weighing. Please confirm that the electronic weigh ticket(s) being online attached to the harvest entry are legible and relative to the plot being entered. If NCGA receives a weigh ticket that is not legible, we will contact the grower for the original copy. Supervisors must sign the document containing computations for calculating acres harvested as well as the weigh ticket(s) verifying they were present at time of weighing.

Moisture Testing

No hand-held moisture testers are allowed. An entry will be disqualified if a hand-held moisture tester is used. A State certified testing device for corn at a grain handling facility may be used or a tabletop tester located on the farm or at a grain handling facility may be used. Supervisor(s) must be present during the representative sample of corn through the weighing and moisture testing process so they can then sign the weigh tickets to verify the gross, tare and moisture. The supervisor(s) must sign off on the printed moisture reading or the hand-written moisture readings if a printout is not available.

Calculating Yield

(All calculations must be carried to four decimal places): 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, you take the total pounds of corn harvested, times the difference of 100% minus the percent moisture in the corn, and divide by 47.32 (pounds of dry corn in a bushel of 15.5% corn).

EXAMPLE: 16,580 pounds of corn at 21.25% moisture.

$16,580 \times .7875$ (100% minus 21.25%) divided by 47.32 = 275.9246 bushels of corn at 15.5% moisture
275.9246 divided by 1.3889 = 198.6641 bushels per acre

Questions Asked on NCYC Harvest Entry

- Verify that the state listed is where the contest field is located
- Verify that the class selected matches the field
- Verify the Hybrid Brand and Number
- Harvest Population (plants per acre)?
- Plot Acreage: Owned or Leased and if leased from whom?
- Fertilizer (Actual lbs./acres applied since last crop) – Nitrogen (N), Phosphorus (P₂O₅) and/ or Potash (K₂O)?
- Trace Elements & Manure?
- When was nitrogen fertilizer applied: Fall, Spring Pre-Plant, At Planting, Side Dress & Pre-Tassel?
- Was Starter Fertilizer used?
- How was nitrogen fertilizer applied? Surface, Incorporated, Through Irrigation & how many times?
- Was the field irrigated?
- Irrigation Method – Furrow (Flood), Drip, Sprinkler or Underground Tile?
- Approximately how many inches of irrigated water applied per acre in inches?
- Harvester Make and Model?
- Field Location: County?
- Total acres in contest field?
- Verify the hybrid name and number
- Harvest date.
- Was a laser used to measure the rows?
- If yes, were the rows straight and did the field have any slope?
- Verify that the row spacing is correct
- Provide measurements for the acreage harvested (i.e. number of passes as well as length of each pass)
- Verify minimum 1.2500 acres was harvested. If not a minimum 1.2500 acres harvested, the entry cannot be completed
- Provide gross and tare weights and moisture average to determine total bushels harvested
- Upload with Supervisor signature approval an image verification of the row measurements
- Upload with Supervisor signature approval an image of the weigh ticket
- Choose Supervisor(s) present at harvest. Searchable online database within the entry contains all current, approved Supervisors. Supervisor listed on the entry may be different than the Supervisor present at harvest.
- Confirm if a recheck is needed. If yes, see page 11 for recheck requirements. When a recheck is required, the yield of the initial check stands as the final yield.

Harvest Recap

Weigh ticket(s), and harvest calculations with moisture reading must be signed by each official supervisor per guidelines on page 12. Review your uploaded attachments. Any entry containing unsigned documents will not be approved or included in the 2020 rankings.

Harvest entries should be submitted no later than fourteen (14) days after the final supervised yield check per individual entry is taken or **Monday, November 30, 2020**, whichever is the earlier date.

The online harvest entry opens **Sunday, August 16** and will close **Monday, November 30, 2020 at 4:30 pm Central Time**. Harvest entries will not be accepted after **November 30th**. There are no exceptions due to time needed to compute results and notify winners for recognition at the 2021 Commodity Classic.

Contest results will be released on **Monday, December 14, 2020**. Yield results obtained from plots that are entered into the National Corn Yield Contest are the property of NCGA and not to be released, including social media posting, prior to NCGA publishing the winners at www.ncga.com/ncyc.

Decisions of NCGA's Contest Committee in all matters are final. The NCYC Committee reserves the right to disqualify any entry without a refund for violation of these stated rules and non-approved industry promotional activities. Again, if you have any questions, please call: (636) 733-5512 *Monday – Friday 8:00 a.m. – 4:30 p.m. Central time or email ncyc@ncga.com*

Contest Awards

Each membership is eligible to win only one national and one state trophy in the contest. If an entrant enters two or more hybrids and all place as a winner or runner-up, a trophy will be awarded only for the highest-ranking hybrid. Trophies will be awarded to first, second and third place national winners, and first, second and third place state winners in each of the contest classes. The individual's name listed on the membership will be recognized, not the business name. Trophies will be mailed to the winners after Commodity Classic 2021.

Approved Promotional Activities for Industry:

- Pay **entrants** NCGA National and Affiliate State annual dues
- Pay **entrants** NCYC entry fee(s)
- Provide **entrants** with company products, in accordance with label rates, sufficient to cover the minimum contest plot of ten acres
- Provide **national winners** cash or other awards totaling a maximum \$10,000. Lesser amounts may be awarded to **second and third place national winners**. Lesser amounts may be provided to **state winners**.
- Provide Commodity Classic travel expenses, lodging, meals, and registration to all **27 national winners and all first-place state winners**. May include immediate family members, operation partners or other individuals with a stake in the NCYC plot.
- Provide **national and state winners** with company products, in accordance with label rates, sufficient to plant up to the minimum contest plot of ten acres.

Any promotional activity not approved above requires written approval by the NCYC Committee before promoting to the nation's corn growers. The NCYC Committee reserves the right to disqualify any entry without a refund for violation of these stated rules and non-approved industry promotion activities.

Supervisor Checklist

Visual Pre-Harvest

- YES NO Does the planting practice match the Entry class?
- YES NO End rows/turning rows pre-harvested?
- YES NO Harvester and auger were run to make certain no corn was mistakenly present?
- YES NO Is all transportation equipment empty?

Visual Harvest

- YES NO Harvester was always in view?
- YES NO Transportation equipment always in view?
- YES NO Transfer of grain started and completed with supervisor present?
- YES NO If row length(s) measure by wheel, was the calibration checked?
- YES NO A minimum of 1.25 acres harvested?

Visual Post-Harvest

- YES NO Transporting of equipment was always in view when being moved to the scales?
- YES NO Viewed samples being taken for moisture and calculation completed?
- YES NO Is the scale a state certified testing device?
- YES NO Observed all unloading, weighing and dumping?
- YES NO Were harvest rules provided by the entrant?
- YES NO Has the certified weigh station provided a printout listing the gross, tare and moisture for the supervisor to sign.

IMPORTANT: Supervisor must sign BOTH the weigh ticket and yield calculations worksheet

NO WEIGH WAGONS ALLOWED

Yield Calculation Formula

1) Total length of all rows harvested _____ X row width _____
÷ 43,560 (square feet in one acre) = _____ acres harvested (Minimum
1.25 acres)

2) **Load A:** Gross _____ minus tare _____ = _____ pounds of corn
Actual corn moisture percent _____ (2 decimal places only)
Pounds of corn _____ X adjusted moisture (100% - %) moisture) _____
÷ 47.32 (pounds of completely dry corn/bushel) = _____ bushels harvested.

Load B: Gross _____ minus tare _____ = _____ pounds of corn
Actual corn moisture percent _____ (2 decimal places only)
Pounds of corn _____ X adjusted moisture (100% - %) moisture) _____
÷ 47.32 (pounds of completely dry corn/bushel) = _____ bushels harvested.

3) _____ bushels harvested ÷ _____ acres harvested = _____ bushels per acre

SUPERVISOR YIELD WORKSHEET

This printable worksheet contains a signature line and can be taken with you to the field to be later uploaded and attached to your online harvest entry. Calculations recorded on any document are also acceptable provided they are approved with Supervisor signature(s).

Submit final yield information via NCGA's ONLINE harvest entry at www.ncga.com/ncyc

Grower Name: _____ Date: _____ Hybrid: _____

Row width: (based on spacing of the planter row units, this should be the same as listed on entry.)

Row spacing between planter row units = _____ inches ÷ 12 = _____ feet of row width

*Row length in feet: Record each pass through the field separately. **Record all calculations to four decimal places.**

*Ref: Harvest Rules, pg. 11, Measuring

1.2500 harvested in one continuous pass: _____ X _____ ft = _____ ft
of rows harvested with length one header pass Row length Total row

Multiple passes to harvest 1.2500 minimum: 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 1.2500 or more acres have been harvested.

Example of multiple passes: Six-row harvester: Harvest six rows – skip eighteen – harvest six – skip eighteen – repeat as needed.

_____ X _____ ft = _____ ft
of rows harvested with one header pass Row length Total row length

_____ X _____ ft = _____ ft
of rows harvested with one header pass Row length Total row length

_____ X _____ ft = _____ ft
of rows harvested with one header pass Row length Total row length

_____ X _____ ft = _____ ft
of rows harvested with one header pass Row length Total row length

_____ X _____ ft = _____ ft
of rows harvested with one header pass Row length Total row length

Total length of all rows = _____ ft
(also use in line 28 below)

** Total length of all rows harvested _____ X row width _____ ÷
 43,560 (From line 27 Total) (From line 26) Square feet in an acre)

(square feet in one acre) = _____ acres harvested. (Minimum of 1.25 acres)

**Ref: harvest Rules, pg. 12 Calculating Acres harvested

 SUPERVISOR SIGNATURE REQUIRED, Initial check

 RECHECK 2nd SUPERVISOR SIGNATURE REQUIRED