

2021 FFA - Agriculture Education & Agriculture Mechanics Handbook

Agriculture Education - Agriculture Mechanics Division - 2021

ENTRY DEADLINE IS AUGUST 15

SUPERINTENDENT: Guy Shoulders, Topeka, KS (785) 296-3956

TEACHER COMMITTEE: Kent Blakeslee, Michael Stull, Bobby Woldschmidt, Dean Brown

FFA OFFICE: Phone - Sept. 8 - 20 (620) 669-3881 or (620) 669-3621

TO ENTER: Use the entry form provided by the [Kansas FFA Advisor](#) or Ag Ed Moodle website

KANSAS STATE FAIR OFFERS.....\$3,850.00

Pre-Fair

Aug. 15: County Collective Exhibits entries must be submitted on official entry forms to the Kansas FFA Advisor.

Aug. 15: Youth Agricultural Mechanics entries and the Agriscience division entries must be submitted to the Kansas FFA Advisor. Official entry forms may be obtained from the Kansas FFA Advisor and the Ag Ed Moodle website. Send entries to: gshoulders@ksde.org.

Friday, September 10

Receiving Agricultural Mechanics, Agriscience, Crops, Horticulture and County Collective Exhibits. Crop and Horticulture exhibits must be checked in by 6:00 pm.

Saturday, September 11

All entries in Agricultural Mechanics must be on exhibit by 7:00 am

All entries in Agricultural Education Showcase Building must be in by 7:00 am

8:30 am - Judging of Agricultural Mechanics, Agriscience, and County Collective Exhibits

5:30 pm - Announcement of results of Agricultural Mechanics displays following the judging of the exhibits

Sunday, September 19

6:00 pm - Agricultural Mechanics exhibits released for loading

6:00 pm - Agriscience, Plant Science, Horticulture and County Collective exhibits released

Any items leaving before the written release times on the last Sunday of the fair will forfeit all premiums awarded

RELEASE TIMES:

FFA release – If exhibitor lives 150 or more miles from KSF, they can walk out their exhibit at 5 pm - no vehicle traffic on grounds before 6 pm. All other exhibits are released at 6 pm.

4-H Crops Release – If exhibitor lives 150 or more miles from KSF, they can walk out their exhibit at 5 pm - no vehicle traffic on grounds before 6 pm. All other exhibits are released at 6 pm.

CHOICE AWARD FOR INNOVATION

1st Place - \$ 300.00 2nd Place - \$200.00

Sponsored by: KUHN KRAUSE INCORPORATED

Kuhn Krause Incorporated will vote for the most popular FFA Construction Project and/or the FFA Tractor Repair Project. Hutchinson, KS based Kuhn Krause Inc. is nationally known for their innovation and technology, and is a leader in the Agricultural marketplace. This is a wonderful opportunity for the FFA participants to follow this high industry standard.

Student write-up criteria - All six questions must be addressed for consideration.

1. Define the problem or situation that the design is trying to address. Why did you select this project?
2. How is this design different than other available solutions today?
3. Does the design recognize any new trends or technologies?
4. What aspects of the design lend themselves to easy manufacturing or mass production?
5. Is the complexity of the design appropriate for the intended situation or usage? Explain.
6. How would the design be different if you had more time or money to spend on the project?

For the Judges:

1. Does the project demonstrate a new way of solving a problem or addressing a situation?
2. Would you or other people that you know buy this product if available for sale?
3. Is the solution visually appealing or aesthetically pleasing?
4. Why did you select this project as the most innovative, in 20 words or less?

FFA AGRICULTURAL MECHANICS PROJECTS DIVISIONS

Sponsored by: KANSAS STATE FAIR

- 100AA - Extra-large Machinery and Equipment (more than \$3,000 construction cost justified in Bill of Materials)
- 100A - Large Machinery and Equipment (\$2,000.00 to \$2,999.00 construction cost justified in Bill of Materials)
- 100B - Intermediate Machinery and Equipment (\$1,000.00 to \$1,999.00 construction cost justified in Bill of Materials)
- 100C - Small Machinery and Equipment (\$150.00 to \$999.00 Construction cost justified in Bill of Materials)
- 100D - Micro project class (under \$149.00)
- 100E - Metal Art/Recycled Materials - Projects may be made from recycled materials or designed as an art form
- 200 - Team Placing Chapter exhibits in Class 200 must come from Class 100
- 300 - Tractor Repair
- 400 - Machinery Repair (Projects that have been rebuilt should remain as the original piece of equipment)
- 900 - Welding Skills - A small project designated by the KSF FFA Ag Mechanics Superintendent will be built in accordance to the blueprint plans. Judging will be based on adherence to the plan, following the design parameters, welding and finishing skills, and overall appearance. 2019 - Not Available
- 950 - Chapter Challenge: 2020 - Fire Pits - One entry per chapter, can be group project, design and size is up to the chapter. Judged on creativity, quality, and usability.

RULES and GUIDELINES

Entry Rules

1. E-mail official entry forms to Kansas FFA Advisor. Entries are due August 15. August 15 is also the final date to order tickets and parking permits. (this is done directly through Kansas State Fair or your local extension office if before Aug. 1).
2. Displays will be limited to Kansas high schools with an approved agricultural education program.
3. All entries must be made by the Agricultural Education program instructor of the home school of the student making the entry.
4. All students currently enrolled in a local Agricultural Education program and a Kansas FFA member, or have graduated in the current year, are eligible to exhibit. The project cannot have previously been exhibited at the Kansas State Fair.
5. All entries must have been constructed, repaired and exhibited within the past two years in the high school Agricultural Education program or under the direct supervision of the Agricultural Education program instructor of the students' home school, by an agricultural education student and a bona fide Kansas FFA member. The majority of the project work must have taken place in the Agricultural Education program / facility where the student is enrolled.
6. Chapters not entered in Class 200 prior to judging of projects will forfeit prize money for Class 200.
7. **Entries arriving after 7:00 am Saturday, September 11, will be judged but will not receive mileage, premium, or ribbon.**

Display Rules

1. The exhibitor will furnish a display board with a moveable base for each project exhibited (only one sign for project). The maximum size of display for class 100 projects is 2 x 3 feet. For classes 300 and 400, the display board may be 4' x 4' to allow for more pictures. If a display board is not present for each project exhibited, that project will not be judged. Display boards will include: a project description; bill of materials, including all purchased items; list of skills and safety practices / features performed; the number of hours worked on project, only the total value is needed, the return per hour is optional. The display board should be covered with plastic and / or individual sheets laminated. Pictures are encouraged and limited to display board.
2. "For Sale" signs are not permitted on individual projects but the bill of material may contain a statement that the project is for sale. (On front side only).
3. A chapter sign is required for class 100 and 200. **Chapter and exhibitor signs displayed are to be portable, but able to be anchored to prevent blowing over in wind.**
4. Working drawings in class 100 are not allowed on display boards and points will be deducted during judging.
5. If one project is entered consisting of multiple components, and one component(s) is not essential to the operation of the other components, then it will be considered and entered as a separate project(s).
6. Painting or spot painting is not allowed on projects once they are on display in the FFA Ag Mechanics designated area.

Class Guidelines

1. Class 100 consists of individual projects constructed by a student and / or students. There is no limit as to the number of projects a chapter may enter.
2. Chapter exhibits in Class 200 will come from the top four project scores from Class 100 as determined by the judges. Only one project from 100D may be used to complete a Class 200 exhibit.
3. Class 300, Repair Projects, will be farm tractors and garden tractors.
4. Once judging begins, no tractors may be started or worked on in the tractor display area. Tractors may be started and run at the judges' discretion.
5. Class 400, Repair Projects, may be: field tillage, planting, harvesting, or chemical application equipment, trailer repair / rebuild, livestock and / or crops handling equipment.
6. Repair projects having adequate original finish need not be repainted for State Fair exhibition.
7. The student responsible for the repair project in Class 300 and 400 will be present to appear before the judges communicate, in sequence, the repairs made to the equipment. A time for this presentation will be assigned when the project is unloaded at the fairgrounds and posted in the FFA building. The FFA jacket will not be worn during the presentation and judges will ask questions following the presentation.

General Guidelines

1. A three member teacher committee selected by the exhibitors will review and make recommendations for future changes, determine eligibility, and care for other matters relating to this division. The senior committee member is chairman and will relinquish these duties at the close of the Kansas State Fair on Sunday, September 13.
2. If the judges and teacher committee determine projects to be ineligible, the chapter and the student will forfeit all mileage and awards that current year. In addition, the chapter and the instructor will be ineligible to exhibit for two years and will be on probation for the following three years.

3. At the judges' discretion an adjustment column may be added to the scorecard for the purpose of arranging the order of the top 12 projects in Class 100, with maximum of ten points for project.
4. Appropriate blue, red or white ribbons will be awarded for class 100, 300, 400 and 900. The top three places for class 100 and 200 will receive individual awards.
5. In addition to the cash prizes, a sum of \$1,670 will be prorated among the exhibitors or the exhibiting chapters on the basis of the number of projects exhibited and the mileage from their school to the state fair grounds. Mileage will be based on a maximum of six projects (from classes 100, 300, and 400 only) per school. Class 100D (micro projects) will not receive mileage payments. Prorated mileage will be ascertained by the following example: 138 miles (official miles from Chapter to Hutchinson) times 3 (Number of Chapter entries) = 396; $\$1,670 / 7324$ (Total miles times number of projects from all chapters) = .22801 Per mile; $396 \times .22801 = \$90.29$ Amount Paid to Chapter.
6. Advisors exhibiting are invited to meet with the judges of the exhibits at 8:00 am, Saturday, September 11, to review procedures prior to the placing of the exhibits. A committee and advisors meeting will follow at 9:00 am. A follow-up meeting will be held on Sunday, September 19, beginning at 4:00 pm. The teachers will select a teacher committee member for the next year.
7. Results will be posted on the FFA building office wall at the completion of judging and scoring of projects.

		<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>	<u>5th</u>	<u>6th</u>	<u>7th</u>	<u>8th</u>	<u>9th</u>	<u>10th</u>
FF100A	Agricultural Mechanics -Large Machinery & Equipment	75.00	70.00	65.00	60.00	55.00	50.00	45.00	40.00	35.00	30.00
FF100AA	Agricultural Mechanics - Extra-large Machinery & Equipment	75.00	70.00	65.00	60.00	55.00	50.00	45.00	40.00	35.00	30.00
FF100B	Agricultural Mechanics - Intermediate Machinery & Equipment	75.00	70.00	65.00	60.00	55.00	50.00	45.00	40.00	35.00	30.00
FF100C	Agricultural Mechanics - Small Machinery & Equipment	75.00	70.00	65.00	60.00	55.00	50.00	45.00	40.00	35.00	30.00
FF100D	Agricultural Mechanics - Micro Project Class	50.00	45.00	40.00	35.00	30.00	25.00	20.00	15.00	10.00	
FF100E	Agricultural Mechanics - Metal Art/Recycled Materials	50.00	45.00	40.00	35.00	30.00	25.00	20.00	15.00	10.00	
FF200	Agricultural Mechanics - Team Placing Chapter Exhibits	150.00	125.00	100.00	85.00	75.00					
FF300	Agricultural Mechanics - Tractor Repair	75.00	70.00	65.00	60.00	55.00	50.00	45.00	40.00	35.00	30.00
FF400	Agricultural Mechanics - Machinery Repair	75.00	70.00	65.00	60.00						
FF900	Picnic Table										
FF950	Chapter Challenge - Fire Pits	35.00	25.00	20.00	10.00						

COUNTY COLLECTIVE EXHIBIT

KANSAS SHOWCASE BUILDING

JUDGING: Saturday, September 11, 8:30 am

OFFERED BY THE KANSAS STATE FAIR.....\$4,390.00

1. Competition will be open to any FFA Chapter in the State of Kansas. More than one chapter may exhibit from the same county.
2. Entries for the County Collective exhibits will close August 15. Later entries may be accepted if the number received by August 15 is not sufficient to fill all spaces. The entry will state the name of the Chapter making the exhibit and also the name of the person who will be in charge of the exhibit.
3. All exhibits must be in by 6:00 pm and in place by 9:00 pm, Friday, September 10.
4. Items will release on the last Sunday, September 19, as follows: If exhibitor lives 150 or more miles away, they can walk out their exhibit at 5:00 pm - no vehicle traffic on grounds before 6:00 pm. All other exhibits are released at 6:00 pm.
5. Exhibits are limited to one collective exhibit to each chapter.
6. Each exhibit must be prepared, entered and displayed by a resident of the county it represents.
7. Samples used in exhibits shall not be procured from the grounds of any county or state institution. Samples must be grown or produced in each respective county during the current year

SPECIAL RULES GOVERNING COUNTY COLLECTIVE EXHIBIT

1. County collective agricultural exhibits are designed to be educational and to show the agricultural possibilities of the Chapter making the exhibit and to present the products of the entire county. Therefore, the samples comprising the exhibit shall have been gathered from at least ten different farms and no farm shall furnish or exceed 25 percent of the samples of the exhibit.
2. Photographs, diagrams, models, and figures may be used to illustrate the importance of livestock to the county.
3. All exhibits must be placed within the limits of the space provided. The booths will not be altered. The exhibitor is permitted to place sheets of plywood or wall board on the back wall of the exhibit space, but the use of crepe paper is not permitted. The booths must be kept in condition satisfactory to the superintendent until the exhibits are officially released.
4. Each exhibit will be allotted space in the FFA Showcase Building (not to exceed 69 1/2" wide, 8' deep but may extend past the height of 7' 9 3/4"high). The sheaf grain and grasses is to be displayed upon the wall in decorative form; the threshed grain, seeds, fruits, vegetables, etc. to be shown on the table.
5. Sheaf grain to be bound in bundles not less than two and one half inches (2 1/2") in diameter at the middle band. Threshed grain and seeds to be shown in quantities of one gallon each, unless otherwise noted. Each article must be labeled with name of the variety. Only one exhibit of a variety will be judged. No extra credit will be given for more exhibits than those required in the score card.

A total of \$4,390.00 will be awarded for county collective exhibits scoring 600 or more points. This money will be prorated to those Chapters scoring over 600 points in proration to the number of points secured over 600. Prorated prize money will be ascertained and awarded by the following example: \$4,390.00 divided by 4800 points equals 91.5 cents per point above 600 earned by each chapter. Ribbons for each County Collective Exhibit, Rosette for Grand Champion, Ribbon for Reserve Champion - 8th place.

FF700 - FFA-County Collective Exhibits

1.	
General Appearance	200
Display relates to the fair theme	50
Number of Farms Represented	50
Small Grain – Wheat, Oats, Barley, Sunflower or other crops (Maximum of 12 samples scored at 20 pts each)	240
Wheat: One gallon samples: Credit for up to 3 varieties	
Wheat: Two and one-half inch bundles: Credit for up to 3 varieties	
Oats: One gallon samples: Credit for up to 3 varieties	
Oats: Two and one-half inch bundles: Credit for up to 3 varieties	
Barley: One gallon samples: Credit for up to 3 varieties	
Sunflower: One gallon of seed: Credit for up to 3 varieties	
Sunflower: One head: Credit for up to 3 varieties	
In counties where oats are/or barley is not produced, a total of six (3 additional) varieties of wheat or other crops or products such as honey, cotton, etc., may be used for credit. For other crops or products see open classes for minimum exhibit; or check with superintendent for approval.	
Corn and/or sorghum: Credit for 10 varieties	200
Corn: 5 ears of each variety	
Sorghum: 5 heads of each variety	
Legumes: 2 kinds of varieties, 2 ½” bundle and one gallon of seed of each variety: 60 each	120
Grasses: Cultivated and/or native, 5 specimen of each variety: 20 each	100
Potatoes: Irish potatoes: 2 varieties, 5 specimens for each exhibit: 20 each	40
Fruits and Vegetables: Total 10 exhibits: 15 each	150
-Vegetables: 6-7 exhibits, 5 specimens for each exhibit	
-- Large Vegetables: one specimen per exhibit (e.g. watermelon)	
--Fruits: 3-4 exhibits, 5 specimens for each exhibit, not more than one exhibit from a variety	
Photography, diagrams, models and figures used to illustrate the importance of livestock in the county	50
TOTAL	1,200

AGRISCIENCE

KANSAS SHOWCASE BUILDING

JUDGING: Saturday, September 11, 8:30 am

OFFERED BY THE KANSAS STATE FAIR..... \$340.00

The objective of the Agriscience Division is to provide recognition for FFA Members in Kansas who are pursuing an academically challenging course in a local Agricultural Education Program. The focus of the exhibit will be on the application of scientific principles and emerging technology in an agricultural enterprise.

1. The project cannot have been previously exhibited at the Kansas State Fair or National FFA Convention.
2. The Agriscience exhibit is open to any Kansas FFA member.
3. Space will be provided for vertical exhibits for each exhibitor.
4. Exhibitor will attractively arrange display highlighting title, pictures, charts and / or graphs, notebook, results and summary.
5. The National FFA Agriscience Fair scorecard will be used to rank the exhibitors.
6. Students are to be present during the judging of their exhibit. A schedule will be provided the day of judging.