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OTTAWA COUNTY FAIR

4-H RULES AND REGULATIONS

Each superintendent will be in full charge of their department.

No claims for injury to any person or property shall be asserted nor suit instituted or maintained against the Ottawa County Fair Board, its officers or their agents, by or on behalf of any person, firm or corporation or their agents, representatives, servants or employees having licenses or privileges to exhibit on the fairgrounds or occupy any space thereon.

If any damage, loss or injury of property shall be approximately caused by reason of neglect or willful act of any person, firm, corporation, their agents or representatives, servants or employees having license privileges to exhibit on said fairgrounds or occupy any space thereon, the Ottawa County Fair Board shall not, in any manner, be responsible therefore, and in case it be subjected to any expense or liability all persons causing same or liable therefore, shall indemnify the Ottawa County Fair Board at Minneapolis, Kansas.

The management reserves the right to remove from the grounds any exhibit, animal, concession or show that may be falsely entered or may have any sign, banner or advertising matter of any kind which may be deemed unsuitable or objectionable by them without assigning a reason therefore, and if necessary, return any money already paid for space or stalls which shall exonerate them from any claim whatsoever on the part of the exhibitor or purchaser.

Each exhibitor must confine themselves to the space assigned. Failure to do so will subject them to failure to forfeiture of their privilege.

All livestock must be in place at 11:00 a.m. opening day of the fair. Refer to the schedule for check-in times and placement of exhibits.

No feed or hay shall be sold on the fairgrounds without permission from the management.

The Ottawa County Fair Board reserves the right to finally determine the correct application of any rules herein published and further to amend or add any special rule for the conduct of said fair that may be deemed necessary and expedient.

Any person may compete in any classes with exception of classes specially provided for 4-H club members or FFA members.

Any livestock exhibit entered as a 4-H or FFA exhibit cannot be entered in open class. 4-H and FFA members, can however, compete in open class with exhibits not shown as 4-H or FFA projects.

Exhibitors who abuse an animal will be barred from showing and will forfeit any premium, ribbon, or prize won. The word abuse includes: beating, slapping, using an electric prod, or forcing an animal into a solid object in an attempt to make the animal brace more firmly. Animal ownership is established through the tagging process (includes a signed declaration form) unless otherwise stated (i.e., horse ownership is established by the horse ID).

All 4-H/FFA livestock must remain in place until Friday at 12:01a.m. No exceptions. Refer to the schedule for dismissal times of exhibits.

All other exhibits, open, 4-H and FFA must remain in place until 8:00 a.m. Saturday. Failure to comply will result in an exhibitor forfeiting premium monies.

All livestock must be in its stall or pen between 5:00 p.m. and 9:00 p.m. each day.

Warning

Under Kansas law, there is no liability for an injury to or the death of a participant in domestic animal activities resulting from the inherent risks of domestic animal activities, pursuant to Sections 1 through 4 of KSA 60-208. You are assuming the risk of participating in this domestic animal activity.

K-State Research and Extension is committed to providing equal opportunity for participation in all programs, services and activities. Program information may be available in languages other than English. Reasonable accommodations for persons with disabilities, including alternative means for communication (e.g., Braille, large print, audio tape, and American Sign Language) may be requested by contacting the event contact (**Cade Rensink**) two weeks prior to the start of the event (**July 5**) at (**785-309-5850 and crensink@ksu.edu**). Requests received after this date will be honored when it is feasible to do so. Language access services, such as interpretation or translation of vital information will be provided free of charge to limited English proficient individuals upon request. K-State Research and Extension is an equal opportunity provider and employer.

2023 REQUIREMENTS FOR KANSAS COUNTY FAIRS LIVESTOCK

GENERAL REQUIREMENTS

All animals are subject to examination by the exhibition staff or their representatives, and shall be free of clinical signs of infectious or contagious disease. Animals determined by exhibition staff to have not met listed requirement will not be permitted to exhibit. All livestock originating outside of Kansas must meet Kansas import requirements and must have a valid Certificate of Veterinary Inspection.

- All animals are subject to examination by the exhibition staff or their representatives and shall be free of clinical signs of infectious or contagious disease.
- Animals determined by exhibition staff to have not met listed requirements will not be permitted to exhibit.
- **Certificate Of Veterinary Inspection (Health Certificate)**
 - **Kansas Origin Livestock** – Certificate of Veterinary Inspection is not required by Kansas Department of Agriculture – Division of Animal Health (KDA-DAH), but can be required at the discretion of each exhibition event.
 - **Livestock Originating From Other States** – All livestock originating outside of Kansas must meet Kansas import requirements and must have a valid Certificate of Veterinary Inspection.

CATTLE (Beef and Dairy)

All cattle must meet the General Requirements.

- Cattle determined by exhibition staff to have lesions of ringworm, warts or infested with mange will not be permitted to exhibit.
- **Cattle Originating From Other States**
 - All cattle must have official ID, and ID must be individually listed on the accompanying CVI.

SWINE

All swine must meet the General Requirements.

- **Swine Originating From Other States** must also meet one of the following:
 - All swine must have official ID, and ID must be individually listed on the accompanying CVI.
 - All swine must obtain an import permit number prior to movement into Kansas.

SHEEP

In addition to the General Requirements, all sheep must be:

- Identified with a registered tattoo or an official USDA premises ID tag (Scrapie tag.)
- Free of any signs of sore mouth.
- Free of clinical signs of active fungal (ringworm) infection, including club lamb fungus.
- **Sheep Originating From Other States**
 - All sheep must have official ID, and ID must be individually listed on the accompanying CVI.

GOATS

In addition to the General Requirements, all goats must be:

- Identified with a registered tattoo or an official USDA premises ID tag (Scrapie tag.) Goats identified with registration tattoos must have legible tattoos and must have registration papers for these animals available for inspection.
- Free of any signs of sore mouth.
- Free of clinical signs of active fungal (ringworm) infection.
- **Goats Originating From Other States**
 - All goats must have official ID, and ID must be individually listed on the accompanying CVI.

HORSES

Horses shall meet the general requirements.

No health certificate is required. Owners are encouraged to have a vaccination for West Nile Virus. It is recommended that horse shall have been tested negative for equine infectious anemia (EIA) within 12 months prior to exhibition (Coggins Test).

Foals six months of age and younger, accompanying their EIA-negative dams, are exempt from EIA test requirements.

POULTRY

All poultry must meet the general requirements.

Kansas Origin Poultry -

- Kansas continues its designation as a Pullorum-Typhoid (P-T) Clean state.
- All poultry (except waterfowl) are required to show proof of being P-T clean by one of the following:
 - Originate from a certified U.S. Pullorum-Typhoid clean flock
 - Test negative at check-in of the county fair when the county has been designated by KDA-DAH for surveillance. Routine surveillance testing will be performed for each county fair a minimum of once every 5 years.
- **Poultry Originating From Other States** – All poultry entering Kansas, except waterfowl, must show proof that they are pullorum – typhoid clean by one of the following methods:
 - All poultry (except waterfowl) are required to show proof of being P-T clean by one of the following:
 - Originate from a certified U.S. Pullorum-Typhoid clean flock
 - Test negative on a P-T test within 90 days of exhibition
 - Additionally, out-of-state poultry must have a "Permit to Ship Poultry or Hatching Eggs" issued by the KDAH within the previous year or a permit number issued by the KDAH office within the previous 15 days.

4-H AND FFA DEPARTMENT

1. EXHIBITORS:

Exhibits must be made or produced by Central Kansas District 4-H members whom participate in a 4-H Club, which resides or is chartered within the county boundaries of Ottawa County may exhibit projects in which they are enrolled. Online 4-H Enrollment must be completed by May 1 of the current year. Extension 4-H youth development programs are open to all youth who are residents of Kansas between the ages of 7 and 18 based on the individual's 4-H age (4-H age is based on the individual's age before January 1 of the current year). Youth enrolled as 4-H Cloverbuds (5-6 years of age but not yet 7 years of age before January 1 of the current year) will only be able to participate in the 4-H Cloverbuds Division.

Exhibitors are limited to one entry per class, except where stated differently.
Exhibitors must be enrolled in the project in which the exhibit is being shown.
Entries will be placed in purple, blue, red, and white ribbon groups.

All students currently enrolled in agricultural education and a bona fide Kansas FFA member or those secondary agricultural education students who intend to become FFA members are eligible to participate in the livestock shows. Secondary agricultural education includes grades 9-12. FFA members who have graduated from high school and paid their membership dues for the current year are eligible to exhibit if they are not yet 19 years of age before January of the current year. Only those secondary agricultural education students who belong to an Ottawa County FFA Chapter are able to exhibit.

2. WHAT MAY BE EXHIBITED: All exhibits must be the handiwork of the exhibitor where mechanical or hand skill is required; the planter where agricultural exhibits are entered: the owner and feeder where livestock is entered; and must be the result of the current year's work, October 1 of last year to the current date.

FFA and 4-H members may not overlap showing in the same species. For example, an individual cannot show a steer under the FFA umbrella and a breeding heifer under the 4-H umbrella. However, an individual may show a beef animal under the FFA umbrella and a sheep under the 4-H umbrella.

All market animals must be tagged in the current 4-H year.

Non-registered breeding animals that were shown the previous year are required to have a CKD or Kansas 4-H tag and do not need to be retagged for the current year.

If a 4-H member is not enrolled in the project they have prepared an exhibit for, the 4-H member may bring the exhibit to the fair for the educational opportunity of conference judging. This will include:

- Conference judging with the judge by signing up by the deadline established in the specific division
- No ribbon premium will be awarded, only the ribbon
- The exhibit will be displayed, if and only if, room is available in the division area in the 4-H building. The displaying will take place after all exhibits in the division have been judged.
- The exhibit will not be eligible for any awards (i.e., champion, reserve champion, or other special awards).
- The exhibit will not be eligible to be sold in the silent or live auction.

3. GUIDELINES FOR USING COPYRIGHTED/TRADEMARKS:

Educational Exhibits - Care should be taken to select durable materials that will withstand fair conditions. Exhibitors should learn the guidelines and exercise caution when using copyrighted materials whenever possible by originating their own work. Exhibitors should use with caution a copyrighted and/or trademarked product or service (a brand name, label, or product). A copyright and trademark are legal methods used by writers, artists, corporations and others to protect their original work. Protected items may range from books to music, logos to computer graphics. Copyrighted and/or trademarked materials used in displays, demonstrations, posters or other activities will be disqualified if 4-H exhibitor does not request permission to use the copyrighted and/or trademarked materials and will not be displayed or receive ribbons.

The use and inclusion of specific brand names for educational purposes does not imply endorsement or refusal by the Department of Extension 4-H Youth Programs, Kansas State Research and Extension, Central Kansas District, the County Fair Association, or the State of Kansas.

4. PRE-ENTRIES:

All 4-H exhibits must be pre-entered online by 11:59 p.m., Monday, June 26. Late pre-entries will receive ½ premium. Premium money will be paid out to club treasurer on Wednesday, August 3.

Refer to the schedule for check-in times and placement of exhibits. Entries will be accepted between 8-11 a.m. (4-H/FFA/Open livestock entries) 8:00 a.m. - 12:00 p.m. noon (4-H and FFA entries static / building exhibits) Tuesday the week of the fair. Entries arriving late will not be accepted. Emergencies that might cause a late arrival will be considered on a case by case basis by the superintendent of the division. Special requests or considerations regarding non-livestock 4-H fair entries must be made to the 4-H Grievance Committee prior to the fair (see #7 below). Building exhibits will be released at 8:00 a.m. Saturday. Dismiss 4-H Building Exhibits by Club (All 4-H Building projects except those for the silent and live auctions).

5. STATE FAIR ENTRIES: State Fair age is 9 years old before January 1 of current year. Pre-entries for the Kansas State Fair are due by 5 p.m. Thursday after the fair.

6. AUCTIONS AND LIVESTOCK SALE RULES:

PREMIUM AUCTION

All bona fide 4-H or FFA members may list one 4-H or FFA project OR one market animal for sale. **Intent to sell items (livestock, project, and silent auction items) must be entered online no later than 11 a.m. the Friday of fair at <https://www.centrankansas.k-state.edu/4-h/county-fairs/ottawa/> Projects/animals not listed are not eligible to be sold.** The sale of any project/animal is final and it is ineligible to be exhibited at any future 4-H show, including the Kansas State Fair and Kansas Junior Livestock Show. Exceptions: non-livestock exhibits (photographs, non-perishable foods, etc.) may be reproduced for the Kansas State Fair. **For food safety purposes, perishable food entries cannot be sold in the live or silent auctions.** A fee of \$4.00 per animal or project sold will be charged. This includes the silent auction. 4-H member must be present to sell in the premium or silent auctions.

Any animal identified as a 4-H/FFA project, then sold, privately or in any premium sale or auction, may NOT be shown at any 4-H show in Kansas by the seller or purchaser following such transaction.

If a 4-H/FFA member sells in another county 4-H/FFA premium sale, they can show another 4-H/FFA tagged animal but not sell in the Ottawa County Fair Livestock Premium Auction.

4-H AND FFA LIVESTOCK

Every effort will be made to obtain full market price or better for the livestock and there will be no by-bidding. This is a premium sale of Market Beef Cattle, Market Hogs, Market Goats, and Market Lambs only. No livestock will be sold that is not entered and shown in a 4-H or FFA class. A white ribbon animal is not eligible to be sold.

Livestock must meet these minimum weights to be sold:

Swine: 230 lbs.	Sheep: 90 lbs.
Beef: 1,000 lbs.	Goats: 40 lbs.

No livestock will be released until Saturday at 12:01 a.m. No exceptions. Exhibits must be cared for until removed from the fairgrounds.

4-H PROJECTS

A project must be a grand champion or reserve grand champion to be sold in the live premium auction.

4-H SILENT AUCTION

A project must receive a purple ribbon to be eligible to be sold. Intent to sell item must be entered online no later than 11 a.m. the Friday of fair at <https://www.centrankansas.k-state.edu/4-h/county-fairs/ottawa/> Projects not listed are not eligible to be sold. No animals will be eligible for the Silent Auction. Preview of items will begin at 5 p.m. Silent Auction begins at 6 p.m. and ends 30 minutes after the premium auction.

7. **4-H GRIEVANCE COMMITTEE:** We have a committee for 4-H to take grievances throughout the year. This same committee will take grievances from the county fair. Disputes should first be brought to the attention of the appropriate 4-H division superintendent and Extension staff. After receiving a decision from the department superintendent or staff member, any further dispute must be made in writing (within 2-3 hours of the decision by 4-H division superintendent or staff member), using the form available online. A hard copy can also be obtained from the 4-H division superintendent or Extension staff. To receive a ruling from the grievance committee, the dispute form must be accompanied by a \$50 fee (cash, personal check, or money order made payable to "4-H Council"). The fee will be forfeited if enough information is not provided to the grievance committee to be able to make an informed decision. The grievance committee will review the complaint and will get back with the individual named on the complaint form as soon as possible via email.

No trophy will be given to a red or white ribbon winner. A minimum of five must be enrolled in a project before a trophy or similar award will be given.

WARNING

Under Kansas law, there is no liability for an injury to or the death of participants in domestic animal activities resulting from the inherent risk of domestic animal activities, pursuant to sections 1 through 4 of KSA 60-208. You are assuming the risk of participating in this domestic animal activity.

4-H AND FFA LIVESTOCK

4-H Members must be enrolled in the project in which they show by May 1 of the current year, and be a member of the Central Kansas District 4-H program and a member of a 4-H Club which resides or is chartered within the county boundaries of Ottawa County. FFA members must currently be enrolled in agriculture education or have graduated from high school in current year. FFA members must attend a school in Ottawa County. All classes based on a youth's age which is before January 1 of current year. All classes based on an animal's age will be based on age at the day of the show unless otherwise stated.

All 4-H and FFA exhibits must have been nominated during the respective species nominating or tag-in date and be pre-entered online by 11:59 p.m., June 26. Late pre-entries will receive ½ premium. If there is no pre-entry for the exhibitor, no premiums will be paid to that individual. Premium money will be paid to club treasurers on August 8.

All livestock must be shown by the exhibitor except in case of illness, injury or when the exhibitor has two exhibits, in which case another 4-H or FFA member may show the animal.

Refer to the schedule for check-in times and placement of exhibits. **Entries will be accepted and weighed on Tuesday as follows:** from 8:00 a.m. to 11:00 a.m. Entries arriving after 11:00 a.m. will not be accepted. Rabbits and poultry will be entered from 11:00 a.m. to noon. Emergencies that might cause a late arrival will be considered on a case by case basis by the superintendent of the division. No reweigh on market livestock. Livestock will be released 12:01am on Saturday. Refer to the schedule for dismissal times of exhibits. Entries will be placed in blue, red and white ribbon groups.

All registered breeding animals must have registration or transfer papers in the sole name(s) of the exhibitor and dated prior to June 15 of the current year. (Animals registered in a farm name or whose papers include the name of adults are not eligible to show). Breeding animals may be co-owned and co-registered by two or more 4-H or FFA members of the same family. Grade and crossbred breeding animals may be entered, but must be in member's possession by May 1. All market animals must be withdrawn from medicated feeds according to FDA regulations. Any exhibitor who is inhumanely abusing an animal or who is found to have used externally or internally illegal drugs on show animals will be barred from showing and must forfeit any premium, ribbon or prize won.

All livestock must be in its stall or pen between 5 p.m. and 9 p.m. each day.

Each livestock exhibitor must have a signed livestock exhibitor code of practice and beef exhibitor agreement completed online with the pre-fair entries (part of the pre-fair entry). Exhibitors not abiding by this rule will not be allowed to weigh-in or exhibit animals. By exhibiting in the Ottawa County Fair, exhibitor consents to allow their animal(s) to be exhibited in the Round Robin Show.

Only first and second place blues in each class are eligible to compete for Champion and Reserve Champion.

WARNING

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ANIMAL EXHIBITOR CODE OF PRACTICE

I believe that my participation in the Ottawa County Fair should demonstrate my own ability, knowledge and skills as feeder and fitter of animals. I will not use abusive or questionable techniques in the feeding, fitting and showing of my animals. I will not resort to fraudulent, illegal or deceptive practices when feeding and fitting them for show. I will do my own work and only accept help from my immediate family or other 4-H Members, project leaders or superintendent's I will read and understand the rules of the Ottawa County Fair. I will ask that my parents not break the rules or make exceptions on my behalf.

DIVISION 1 - 4-H/FFA BEEF CATTLE

Superintendent(s) – Spencer and Laci Schrader

Assistant Superintendent(s) – Hadley Hamel

PREMIUMS: \$5.00, \$4.00, \$3.00

- SPECIAL RULES -

1. Read GENERAL RULES.
2. Market beef classes will be divided by weight in accordance with the best interest of the show.
3. All market animals weighing less than 1,000 lbs. will not compete for champion market animal.
4. Registration or transfer papers must be in youth's name by June 15, this year. No farm name or adult name may be on registration or transfer papers.
5. **No animal can be shown that has horns or scurs longer than an inch.**
6. All exhibitors must have a current Youth for the Quality Care of Animals certification (YQCA).
7. **Must be enrolled in beef project to exhibit.**
8. The beef show is a no fit show. No fit is defined as using no adhesive, glue, paint, or powdered products.
9. **9 p.m. to 9 a.m. Mandatory Tie Out for all cattle stalled in the Beef Barn.**

-MARKET ANIMALS-

CLASSES

- 04 Market Steer
- 05 Market Heifer
- 06 Club group of 3 market beef, must represent 3 different owners from same club or chapter (1 group per club or chapter)

-RATE OF GAIN-

- 07 Rate of Gain – Market steers or market heifers from nomination weigh-in until fair weigh-in

- BREEDING BEEF -

Beef Breeding Heifer Classes (each breed will be judged separately). Beef breeding females must be registered and identified within their respective breed's standard and according to Ottawa County Fair rules. Beef Breeding Heifers are not eligible for the Premium Auction.

CLASSES

- 08 Senior or Winter heifer calves - calved between September 1 and December 31 of previous year.
- 09 Summer yearling heifer calves - calved between May 1 and August 31 of previous year.
- 10 Junior and Spring yearling heifers - calved between January 1 and April 30 of previous year.
- 11 Senior or Winter Yearling Heifers - calved between September 1 and December 31, 2021.
- 12 Aged Cow / Cow-Calf Pair – Aged cow shown with calf by side.

- BEEF SHOWMANSHIP -

CLASSES

- 16 Senior (14 and older)
- 17 Junior (7-13)

DIVISION 2 - 4-H BUCKET CALF

Superintendent(s) – Nathan Hyde and Ashley Johnson

Assistant Superintendent(s) – Nolan Hyde, Emery Lambdin, and Kyson Johnson

PREMIUMS: \$5.00, \$4.00, \$3.00

1. Read GENERAL RULES.
2. 4-H Members 7-12 years old may exhibit one animal. Project designed for education.
5. 4-H Bucket Calf generic project sheet required (can be found at <http://www.ksre.ksu.edu/bookstore/pubs/P1082.pdf>). Participants are asked to also include on a separate sheet of paper the shot records for their bucket calf. Turn books into superintendent at entry.
6. Steer or heifer calves may be exhibited.
7. Calves must be born between January 1 and May 1 of the current year.
8. Bucket Calf cannot be shown in any other 4-H Class during the fair.
9. Bucket Calf must have an ear tag in place (which can be generic and not a 4-H tag).
11. Evaluation based on the conference judging and visual appearance according to the following scorecard emphasizing what the 4-H Members have learned.
12. **No animal can be shown that has horns or scurs longer than an inch.**
13. Male bucket calves must be castrated.
14. **Must be enrolled in bucket calf project to exhibit.**

4-H Bucket Calf Scorecard

	Novice	Advanced
Conference Judging		
1. General knowledge about own calf.	50	50
Showmanship		
1. General Appearance: health, cleanliness, grooming	25	25
2. Calf leads and is presented well	25	25
TOTAL	100	100

CLASSES

- 01 Bucket calf - exhibitor 7-8 years old.
- 02 Bucket calf - exhibitor 9-10 years old.
- 03 Bucket calf - exhibitor 11-12 years old.

DIVISION 3 - 4-H/FFA DAIRY CATTLE

Superintendent(s) –

Assistant Superintendent(s) -

PREMIUMS: \$5.00, \$4.00, \$3.00

- SPECIAL RULES -

1. Read GENERAL RULES.
2. **Must be enrolled in dairy cattle project to exhibit.**
3. Lactating cows shown in class 4 are allowed to leave fairgrounds after they are judged.

CLASSES

- | | |
|----|--|
| 08 | Heifer calf born after Aug. 31 of previous year. |
| 09 | Jr. yearling heifer - 12 to 18 months of age. |
| 10 | Sr. yearling heifer - 18 to 24 months of age. |
| 11 | Aged cow older than two years of age. |

- DAIRY SHOWMANSHIP -

CLASSES

- | | |
|----|-----------------------|
| 15 | Senior (14 and older) |
| 16 | Junior (7-13) |

DIVISION 4 - 4-H/FFA DAIRY GOATS

Superintendent(s) – Bridgette Crosson

Assistant Superintendent(s) – Aiden Anderson and Charlie Klein

PREMIUMS: \$5.00, \$4.00, \$3.00

1. Read GENERAL RULES.
2. Entries will be placed in classes by age on the day of the show.
3. No health certificates required. Animals must be healthy and free of abscesses. All goats subject to inspection by the superintendent.
4. Exhibitors are requested to be neatly and appropriately attired (preferably in white) when showing their animals in the ring.
5. **Only does are allowed to show.**
6. Classes will be divided into Purebred and Grade; breeds will show together.
7. Additional classes may be formed based upon number of animals in a breed and upon the discretion of the superintendent and judge.
8. All goats must be identified with a registered tattoo or an official USDA scrapie premise ID tag.
9. **Must be enrolled in dairy goat project to exhibit.**

- BREEDING -

CLASSES

Breeds Classes

Junior 0-24 months of age (not previously freshened)

- 01 Doe Up to 4 months of age
- 02 Doe 4 up to 8 months of age
- 03 Doe 8 up to 24 months of age

Senior - Any Age in Milk or previously freshened

- 04 Doe up to 24 months of age
- 05 Doe 2 years and under 3 years
- 06 Doe 3 years and older

Grade Classes

Junior 0-24 months of age (not previously freshened)

- 07 Doe Up to 4 months of age
- 08 Doe 4 up to 8 months of age
- 09 Doe 8 up to 24 months of age

Senior - Any Age in Milk or previously freshened

- 10 Doe up to 24 months of age
- 11 Doe 2 years and under 3 years
- 12 Doe 3 years and older

- SHOWMANSHIP -

- 14 Senior (14 and older)
- 15 Junior (7-13)

DIVISION 5 - 4-H/FFA HORSES

Superintendent(s) – Cole and D.D. Malmberg

Assistant Superintendent(s) – Callan Rensink

PREMIUMS: \$3.00, \$2.00, \$1.00.

1. Read GENERAL RULES. Entries will be taken from 10 a.m. to 11 a.m. on Tuesday.
2. Follow general rules and Kansas 4-H Horse Show handbook.
3. Horse ID required, June 1.
4. Please see the information about qualifying for the Kansas State Fair Horse Show located here:
<https://www.kansas4-h.org/projects/animal-science/horse/HorseChangesPublic9.8.22.pdf>
5. Weanlings are shown at owner's risk. No stallions shown.
6. Adults are barred from the show ring while animals are being judged, except judge and other officials. Violation of this rule may disqualify an exhibitor.
7. If there is a question on the size, the horse will be measured prior to show time and the officials ruling will be final.
8. All races will be divided into three age groups (see classes for details).
9. Rules for the trail classes will be posted.
10. Award winners must receive blue or purple ribbon.
11. Member may only exhibit in one Trail class.
12. Each 4-H family needs at least one horse to be stalled in the horse barn between 5-9 p.m. daily.
13. 1st and 2nd place exhibitors in horse showmanship 7-9 year-olds and 10-13 year-olds will show for 1st and 2nd place Jr. division horse showmanship. Winners will qualify and represent the Horse project in Round Robin.
14. **Must be enrolled in horse project to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Horse Achievement Level Study Guides](#)
- [Horse Show Rule Book](#)

Resources:

- Project Area - [Kansas 4-H Horse project](#)

- SHOWMANSHIP AT HALTER - ALL BREEDS -

- 01 Members 14 years and older
- 02 Members 10-13 years old
- 03 Members 7-9 years old

- HALTER CLASSES -

The universal birthdate of a horse is January 1.

- 04 Ponies (56" & Under)
- 05 Mares, 5 years and older
- 06 Mares, 4 years and under
- 07 Geldings, 5 years and older
- 08 Geldings, 4 years and under

- PERFORMANCE - MORNING-

- 12 English Equitation – 14 years and older
- 13 English Equitation – 7-13 years old
- 14 English Pleasure – 14 years and older
- 15 English Pleasure – 7-13 years old

- 16 Walk-Trot Trail*** – Member may only exhibit in one Trail class
- 19 Trail

- 22 Horsemanship – 14 years and older
- 23 Horsemanship – 10-13 years old
- 24 Horsemanship – 7-9 years old
- 25 Walk-Trot Horsemanship/Equitation – Member cannot enter any other performance class that requires them to lope***
- 26 Walk-Trot Pleasure (English or Western) – Member cannot enter any other performance class that requires them to lope***
- 30 Ranch Horse Pleasure – 14 years and older
- 31 Ranch Horse Pleasure – 10-13 years old
- 32 Ranch Horse Pleasure – 7-9 years old
- 37 Reining – 14 years and older
- 38 Reining – 7-13 years old

-TIMED EVENTS - Evening-

- 39 Team Penning – 14 years and older
- 40 Team Penning – 10-13 years old
- 41 Team Penning – 7-9 years old
- 42 Poles – 7-9 years old
- 43 Poles – 10-13 years old
- 44 Poles – 14 years and older
- 45 Key Hole Race – 14 years and older
- 46 Key Hole Race – 10-13 years old
- 47 Key Hole Race – 7-9 years old
- 48 Barrels – 7-9 years old
- 49 Barrels – 10-13 years old
- 50 Barrels – 14 years and older
- 51 Flags – 7-9 years old
- 52 Flags – 10-13 years old
- 53 Flags – 14 years and older

***Members may only enter one pleasure class per discipline. The same applies to Horsemanship/Equitation. This means that members who participate in any Walk-Trot class are NOT eligible to enter in any other Horsemanship/Equitation/Pleasure class, as well as Reining, as these classes require the rider to lope/canter. A member may enter a non-Walk-Trot Pleasure class AND a Pony Pleasure class.

DIVISION 6 - 4-H/FFA MEAT GOATS

Superintendent(s) – Laci Schrader and Lori Huiett

Assistant Superintendent(s) – Kinsley Crosson

PREMIUMS: \$5.00, \$4.00, \$3.00

1. Read GENERAL RULES.
2. Wether and doe kids will be allowed to show in market classes.
3. Goats are suggested to arrive without horns. However, if horns are left, they should be tipped and rounded. **Animals will not be allowed to check in with sharp horns, horns must be tipped and rounded.** Tipping and removal of horns is not allowed on the fairgrounds and will result in disqualification.
4. SHEARING:
MARKET GOATS - At the time of check-in all goats must be "slick shorn" with an equal amount of hair above the knee and hock (head and belly excluded) prior to check-in time. A maximum of .375" hair length is permitted.

BREEDING DOES – No shearing required. Length of hair is left up to the exhibitor.

There will be no shearing of market or breeding goats on any part of the grounds after arrival. Touch-up with scissors or shears will be allowed. No artificial coloring/use of adhesives is allowed on market goats. No blocking tables are permitted in the barns. **Exhibitors are encouraged to clip at home due to limited space.**
5. Goats may be braced, however, they must be shown with all four feet on the ground. Exhibitors may use a collar, a collar with a short lead, or a halter when showing. Medium (3mm or smaller) pinch collars will be allowed.
6. Goats will be divided into classes by weight after being weighed at entry time.
7. All market animals weighing less than 40 lbs. will not compete for champion market animal.
8. All goats must be identified with an official 4-H and USDA scrapie premise ID tag.
9. All exhibitors must have a current Youth for the Quality Care of Animals certification (YQCA).
10. **Must be enrolled in meat goat project to exhibit.**

- MEAT GOAT SHOWMANSHIP -

CLASSES

- 04 Senior (14 and older)
05 Junior (7-13)

- MARKET MEAT GOATS -

CLASSES

- 06 Market Goats

Rate of Gain

- 07 Rate of Gain – Market goats from nomination weigh-in until fair weigh-in

- BREEDING MEAT GOATS -

Classes will be available for all recognized breeds with registration papers.

All non-registered does will show in commercial breed class, no matter what breed.

CLASSES

- 10 Doe Kids (0-12 months)
11 Yearling Doe (12-24 months)
12 Aged Doe (24-36 months)

DIVISION 7 - 4-H/FFA POULTRY

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) - Clare and May McKain

PREMIUMS: \$1.00, 75¢, 50¢

1. Read GENERAL RULES.

3. Entries will be taken from 11:00 a.m. to noon on Tuesday. Exhibitor may exhibit no more than 3 classes of birds and only 1 entry per class. Exhibitor needs to provide their own cages for turkeys and geese. Fair cages are too small.
4. Blue Ribbon winners will be eligible for the State Fair.
5. All standard breeds will be shown by breed.
6. Poultry must be banded with a numbered band to insure proper identification.
7. Poultry shown must be tested and shown free of pullorum-typhoid diseases. Testing may be done 90 days prior to time of entry but after 90 days the bird needs to be retested. Proof of test results are due at entry time.
8. Entries must be inspected for mites and lice before being placed in cages. **If a bird is brought to the fair with lice, etc. it needs to be treated at that time or taken home. It should not be placed in cages until it is treated.**
9. Please specify class, breed (Rhode Island Red, Belgium Quail, Plymouth Barred Rock, etc.), age (young or old) and sex on entry card.
10. Poultry will be grouped by the APA Class.
11. **No bird can be cooped without checking in with the superintendent and the entry cards are matched with each bird.**
12. Poultry will be judged according to the APA Standard.
13. Exhibitor is expected to feed and water their own birds (Exhibitor is expected to provide adequate water dish for each pen).
14. Water Fowl do not qualify for State Fair.
15. **Must be enrolled in poultry project to exhibit.**

Resources:

- Selecting and Preparing Poultry for Exhibition

Class

- 01 Standard Breeds, Large Fowl-One young bird of either sex.
- 02 Standard Breeds, Large Fowl-One old bird of either sex.
- 03 Standard Breeds, Bantams-One young bird of either sex.
- 04 Standard Breeds, Bantams-One old bird of either sex.
- 05 Production Pullets – Pen of 3 pullets judged on egg production qualities only.
 - a. standard bred b. crossbred c. staincross
- 06 Production Hens – Pen of 3 hens to be judged on egg production qualities only.
 - a. standard bred b. crossbred c. staincross
- 07 Dual purpose pullets; Pen of 3 Such as Rhode Island Reds, New Hampshire, Plymouth Rocks, etc.
- 08 Dual purpose hens; Pen of 3 Such as Rhode Island Reds, New Hampshire, Plymouth Rocks, etc.
- 09 Meat-type chickens; Pen of 3 birds of the same sex judged on meat production qualities only. Age between 5-8 weeks. (county only)
 - a. standard bred b. crossbred c. staincross
- 10 Turkeys, all breeds-One bird of either sex.
- 11 Ducks, all breeds-One bird of either sex.
- 12 Geese, all breeds-One bird of either sex.
- 13 Other Fowl, all breeds (county only)

- POULTRY SHOWMANSHIP -

No premiums paid for showmanship classes.

- 14 Junior Showmanship (7-9 years of age)
- 15 Intermediate Showmanship (10-13 years of age)
- 16 Senior Showmanship (14 years of age and older)

DIVISION 8 - 4-H/FFA RABBITS

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – Callan Rensink and Colton Crosson

PREMIUMS: \$1.00, 75¢, 50¢

1. Read GENERAL RULES.
2. Entries will be taken from 11:00 a.m. to noon on Tuesday.
3. Rabbits must be clean and free from disease.
4. All rabbits shown must have a legible and permanent ear markings in the left ear, including meat pens. It is recommended that tattoos be in place by the pre-entry deadline.

Exhibitor is limited to one entry per class with entries in no more than 3 classes and 1 meat pen. Exhibitor is limited to one entry per fur class.

5. Must be enrolled in rabbit project to exhibit.

6. Due to the presence of Rabbit Hemorrhagic Disease (RHDV2) in neighboring states, rabbits that have traveled to states with cases or other large shows with high risk of exposure are not encouraged to be entered in the fair. If cases become confirmed in Kansas, exhibition staff will determine if a live show needs to be cancelled, or how to move forward.

Scoresheets, Forms, and Contest Study Materials:

- Judging Guidelines come from the [ARBA Standard of Perfection](#).
- [Rabbit Showmanship Scoresheet](#)

Resources:

- [Kansas 4-H Rabbit Project Resources](#)
- [National Rabbit Curriculum and Links](#)

CLASSES

All breeds will be shown and judged separately. All standard breeds will be recognized. No crossbred rabbits are eligible to show

- 01 Pre-Jr. doe - under 3 mo. of age.
- 02 Pre-Jr. buck - under 3 mo. of age.
- 03 Jr. doe - under 6 mo. of age.
- 04 Jr. buck - under 6 mo. of age.
- 05 Doe - 6-8 months of age.
- 06 Buck - 6-8 months of age.
- 07 Sr. doe - 9 mo. of age and over.
- 08 Sr. buck - 9 mo. of age and over.
- 09 Meat pen of 3 rabbits. Minimum weight of 3.5 lbs. and a maximum not to exceed 5.5 lbs. All rabbits must be same breed. Not over 70 days of age
- 10 Normal white fur.
- 11 White Satin fur.
- 12 White Rex fur.
- 13 White Wool.
- 14 Normal colored fur.
- 15 Colored Satin fur.
- 16 Colored Rex fur.
- 17 Colored Wool fur.

Showmanship

- 21 Junior Showmanship (7-9 years of age)
- 22 Intermediate Showmanship (10-13 years of age)
- 23 Senior Showmanship (14 years of age and older)

(No prize money for showmanship classes.)

DIVISION 9 - 4-H/FFA SHEEP

Superintendent(s) – Amber Anderson

Assistant Superintendent(s) – Bella and Ryker Anderson

PREMIUMS: \$5.00, \$4.00, \$3.00

- SPECIAL RULES -

Sheep showing symptoms of infectious disease may be rejected by superintendent.

1. Read GENERAL RULES.
2. Market lambs will be divided by weights for the best interest of the show.
3. All market lambs must be slick shorn with an even length of wool covering from above the hock and knee (head and belly excluded), Wool length cannot exceed .2 inch. Use of artificial coloring, except hooves, is prohibited. Exhibitors are encouraged to clip at home due to limited space and electricity.
4. Ewe lambs shown in market classes are not eligible for breeding classes.
5. All market lambs weighing less than 90 lbs., will not compete for Champion Market Lamb.
6. All market lambs must be wethers or ewes and must be docked.
7. Ram lambs or cryptorchids will not be allowed to show in market classes.
8. Exhibitors are not allowed to lift front legs of the animal off the ground during the examination by the judge.
9. Registration or transfer papers for breeding animals must be in the name of the exhibitor by June 15, this year. Breeding animals may be co-owned by two or more 4-H members in the same family. Registration papers may not include farm name or adult's name.
10. All sheep (wethers, rams and ewes) must be identified with an official 4-H and USDA scrapie premise ID tag.
11. All exhibitors must have a current Youth for the Quality Care of Animals certification (YQCA).
12. **Must be enrolled in sheep project to exhibit.**

- SHEEP SHOWMANSHIP –

CLASSES

- 04 Senior (14 and older)
- 05 Junior (7-13)

- MARKET LAMBS -

Market lambs born after Jan. 1 of current year. May be wethers or ewes. Will be divided into weight subclasses after lambs are weighed.

- 06 Market Lambs
- 07 Rate of Gain - Market lambs from nomination weigh-in until fair weigh-in
- 08 Club group of 3 market lambs, must represent 3 different owners from same club or chapter (1 group per club or chapter).

- BREEDING SHEEP -

Classes will be available for all recognized breeds with registration papers.

All non-registered ewes will show in commercial breed class, no matter what breed.

CLASSES

- 11 Ewe Lamb.....0-12 Months
- 12 Yearling Ewe.....12-24 Months
- 13 Aged Ewe.....24-36 Months
- 14 Flock: 2 ewes and 2 lambs

DIVISION 10 - 4-H/FFA SWINE

Superintendent(s) – Levi and Jessica Ebert

Assistant Superintendent(s) – Colyer Rensink. Ty and Mason Ebert

PREMIUMS: \$5.00, \$4.00, \$3.00

- SPECIAL RULES -

Swine showing symptoms of infectious disease may be rejected by superintendent.

1. Read GENERAL RULES.
2. Market Swine will be divided by weights for the best interest of the show.
3. No bedding will be allowed. Pen wash down is necessary several times a day.
4. Gilts shown as market are not eligible for breeding classes.
5. All market swine weighing less than 230 lbs. will not compete for Champion Market Swine.
6. All exhibitors must have a current Youth for the Quality Care of Animals certification (YQCA) or Pork Quality Assurance certification (PQA).
7. Keep all aisles clear to accommodate foot traffic, strollers, motorized wheelchairs, wheelchairs, etc. (feed buckets, show boxes, hoses, etc.)
8. **Must be enrolled in swine project to exhibit.**

- MARKET SWINE CLASSES -

Market Hog. This class will be divided into weight subclasses at superintendent and show supervision discretion after all hogs are weighed. Market Hogs will not be divided by breed. Hogs must have been farrowed after January 1 of current year. Hogs in class 1 will not be eligible to show for grand or reserve champion or sale in the premium auction.

CLASSES

01 Market Hog

- BREEDING GILTS -

Breeding Gilts will be shown as individual breeds by age. They must be registered with a recognized US swine association and provide registration papers upon entry at the fair with matching ear notches. Classes within breeds will be divided by age at superintendent and show supervision discretion. Breeding Gilts are not eligible for the Premium Auction.

CLASSES

02 Any recognized swine purebred breeding gilts

03 Commercial breeding gilts

- SHOWMANSHIP -

CLASSES

07 Senior (14 and older)

08 Junior (7-13)

DIVISION 11 - 4-H/FFA ROUND ROBIN SHOWMANSHIP

Superintendent(s) – Spencer Schrader

Assistant Superintendent(s) -

1. Read GENERAL RULES.

There will be a showmanship contest in the horse, meat goat, dairy goat, beef cattle, dairy cattle, swine and sheep divisions immediately following or preceding the judging in each of these divisions. All exhibitors are expected to participate. There will be a Jr. Division (7-13 years) and a Sr. Division (14 - and older) in each livestock class. There will be no premiums paid for these classes.

The top two participants in the Sr. Division and the top two participants in the Jr. Division of each class of livestock will compete in the Round Robin on Friday at 9 a.m.

The Champion Round Robin showman will receive possession of the Dewey Memorial Cup for one year.

Participants must use animals owned and groomed by the 4-H or FFA member, parent or 4-H leader.

If someone other than a 4-H or FFA member, parent or 4-H leader does any grooming on an animal at the fair, the exhibitor will not be allowed to enter the Showmanship Contest.

DIVISION 12 - 4-H BANNERS

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: Purple and Blue -\$10.00, Red -\$5.00, White - \$4.00

- SPECIAL RULES -

Read GENERAL RULES. County Fair Only

1. **Due to renovations in 4-H Centennial Hall, this division is no longer offered at the State Fair, since 2015.**

2. Each 4-H Club who decides to enter a banner, will be expected to illustrate or demonstrate 4-H or promote 4-H on the banner. All banners must be in place by noon, Tuesday of fair.

3. Pre-entry is due online by established deadline.

- BANNERS -

1. Each banner should illustrate a phase of 4-H work which is being practiced by youth in 4-H or promote 4-H generally.

2. A short written description of the banner's development and relationship to the fair theme must accompany the banner. The description should be turned in to the superintendent(s) at check-in.

3. The club display should avoid using copyrighted and/or trademarked materials whenever possible by originating own work. Copyrighted and/or trademarked materials used in banners for endorsement or promotion instead of educational purposes will be disqualified and will not be displayed or receive ribbons or premiums.

4. Banners should be made of non-flammable materials that permit the banner to be folded or rolled without damaging the display. Three-dimensional objects may not be attached to the banner.

5. Banners should illustrate a phase of 4-H work that is being practiced by 4- H members or promote 4-H generally.

6. Banners must be hung on a rod strong enough to support the banner. **On each end of the rod, there must be a chain 6-inches long. On the other end of the 6" chain, attach an "S" hook which will permit the banner to be suspended by the chains on the wire in the 4-H Building. Banners mounted any other way will be docked one ribbon placing and will not be displayed.**

7. A label is to be attached to the front lower left-hand corner (as you face it) of the banner giving the name of the club. Letters should be 2" in height.

Scoresheets, Forms, and Contest Study Materials:

- [Banner Scorecard](#)

CLASSES

1 4-H Banner

DIVISION 13 - 4-H BOOTHS

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: Purple and Blue -\$10.00, Red -\$5.00, White - \$4.00

All booths must be in place by noon, Tuesday of the fair. Pre-entry is due ONLINE by established deadline.

Each club may enter one of the two classes.

Each booth must be labeled giving the name of the 4-H club exhibiting.

Maintenance of all booths will be the responsibility of the club. It is important that clubs check booths daily to keep them clean and in good working order.

Project items used in booths may not be entered in any other division of the current year's fair.

Booth area is 6 feet deep and 5 feet wide.

CLASSES

01 4-H Promotion Booth - Should illustrate a phase of 4-H work which is being practiced by 4-H members.

02 Conservation Booth - Booth will exhibit a conservation idea or practice.

There will be no State Fair Booths.

DIVISION 14 - 4-H CAT AND HAND PET SHOW

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. Entries are limited to 2 per class.
3. Ownership of entry: Cats or kittens entered for competition must be cared for and groomed by 4-H project member.
4. Kittens must be 4 months by the show date. Adult cats may be any age over 8 months.
5. All cats and hand pets must be groomed for the show. All cats and hand pets must be bathed and combed; all toe nails must be clipped.
6. No pregnant cat will be allowed to show.
7. All cats must have certificate, including rabies, feline leukemia, and distemper, by licensed veterinarian. If the 4-H member cannot provide this information, the cat will not be allowed to be shown and will need to leave the fairgrounds.
8. Cats & Hand Pets must be present by 12:30 p.m. show day, housed in pet carrier, and will be dismissed following the completion of the show. No cats or hand pets may be left in the 4-H building.
9. Pet owners are responsible for their cat's/hand pet's care.
10. No animal on the Kansas Threatened and Endangered Species list may be shown as a hand pet. A list of those animals may be found at <http://www.kdwpt.state.ks.us/news/Services/Threatened-and-Endangered-Wildlife>. In addition, it is illegal to collect any turtle from the wild, such as the ornate box turtle, to keep as a pet.
11. **Must be enrolled in specific cat or hand pet project to exhibit.**
12. ALL CLASSES ARE COUNTY ONLY.

Scoresheets, Forms, and Contest Study Materials:

- [Cat Scorecard](#)
- [Hand Pet Scorecard](#)

- CAT CLASSES –

CLASSES

04 Cat

- HAND PET CLASSES -

CLASSES

09 Hand Pet

DIVISION 15 - 4-H CLOTHING AND TEXTILES

Superintendent(s) – Melissa Hulse and Megan Larson,

Assistant Superintendent(s) – Lillian Hulse and Isabella Larson

PREMIUMS: \$1.50, \$1.00, 50¢

- SPECIAL RULES -

1. Read GENERAL RULES.
2. All entries will be judged Thursday, 1:00 p.m., at the Minneapolis High School Auditorium Area. **Garments must be entered in the 4-H Building for display on Tuesday, between 8:00 a.m. to 12:00 p.m. On Thursday, exhibitor should pick up entries and take them to the Minneapolis High School Auditorium Area for judging. After judging, Exhibitor will return entries to the 4-H building and ribbons will be placed on the garments.**
3. The exhibitor is encouraged to attach an index card or photo, no larger than a 4"x6" card with the entry form to give the judge any information which the exhibitor thinks would be helpful for the judge to know. *If the article is made of 90% wool, please indicate on the card.* Explain if the exhibit contains any recycled materials.
4. **No more than 4 entries per class.**
5. Bring garments to fair (this includes only the garments and not the accessories).
 - a. Garments must be brought on hanger(s) for display (use skirt hangers for skirts and pants).
 - b. One article per hanger (do not hang a jacket, shirt and pants on one hanger).
 - c. Each garment or article exhibited must be labeled with 3" x 2 ½" cloth label (includes name and club) and attached with safety pin or sewn in.
 - d. Garments should be taken by Exhibitor to the 4-H building on Thursday after judging. Ribbons will be placed on the garments at that time.
6. Educational Exhibit Classes. Share with others what you learned in the clothing construction or clothing buymanship project. Exhibits may be in the form of a poster, notebook, or display. Follow copyright laws as explained in the General Rules as you are preparing your exhibit. Take care to select durable materials that withstand county fair conditions. No card table displays are allowed. If the exhibit is a poster, it must not be larger than 22"x28". If the exhibit is a display, maximum size is not to exceed a standard commercial 3'x4' tri-fold display board. Name and district must be clearly marked on educational exhibits.
7. For Classes 18-21 Recycled Clothing Project - project consists of an item made of at least 50% recycled material (recycled means reusing an existing item in a new way). Could be remaking/redesigning a garment, re-purposing a clothing item for a new use, etc. Must include sewing of some kind. An index card no larger than 4" x 6" MUST accompany entry describing the recycled materials and how they were used in the item.
8. Please indicate on the entry card a description of the clothing article (i.e., dress, pants, top, etc.).
9. At the time of judging each entry must be accompanied by an entry card.
10. All entries are to be a product of the current year's 4-H project work.
11. Pre-Cut kits are acceptable for all clothing classes.
12. All articles/garments must be finished for use.
13. **Must be enrolled in clothing & textiles/clothing construction project to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Clothing and Textile Scorecard](#)
- [Recycled Clothing Scorecard](#)

Resources:

- [Project Page – Clothing & Textiles](#)
- [Sewing Expressions Curriculum](#)
- [STEAM Clothing Curriculum](#)

- CLOTHING AND TEXTILES -

Class

- 3000 An article, garment, or outfit constructed by a 7-8-year-old exhibitor
- 3001 Educational exhibit prepared by a 7-8 exhibitor (construction or buymanship)
- 4000 An article, garment, or outfit constructed by a 9 -11-year-old exhibitor
- 4001 Educational exhibit prepared by a 9 -11 exhibitor (construction or buymanship)
- 4002 An article, garment or outfit constructed by a 12-14 exhibitor
- 4003 Educational exhibit prepared by a 12-14 exhibitor (construction or buymanship)
- 4004 An article, garment or outfit constructed by a 15-18 exhibitor
- 4005 Educational exhibit prepared by a 15 to 18-year-old exhibitor (construction or buymanship)
- 4006 Recycled Clothing Project

DIVISION 16 - 4-H CLOVERBUDS

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

1. Read GENERAL RULES.
2. Must be enrolled as a Cloverbud by May 1 to exhibit. Cloverbuds must be age 5 or 6 by January 1 of the current year to participate in this program.
3. Cloverbuds may exhibit age appropriate activity related items from their 4-H Cloverbud experiences.
4. Cloverbuds may showcase a product, poster or notebook for the display.
5. A Cloverbud may showcase a maximum of **three** items.
6. Cloverbuds will receive participation ribbons only, no premiums, and will not be judged.
7. ALL Cloverbud entries must be entered with the Cloverbud Division Superintendent. (For example, a Cloverbud craft must be entered in the 4-H Cloverbud Division and NOT in the 4-H Visual Arts Division).
8. Cloverbuds are **not** eligible to show livestock in 4-H division. Must show livestock in Open Class divisions (if applicable).
9. ALL CLASSES ARE **COUNTY ONLY**.

CLASSES

01 4-H Cloverbuds

DIVISION 18 - 4-H/FFA CROPS

Superintendent(s) – Tim Myers

Assistant Superintendent(s) – Ryan Myers and Colyer Rensink

PREMIUMS: \$1.50, \$1.00, 50¢

- SPECIAL RULES -

1. Read GENERAL RULES.
2. Products exhibited in this division must have been grown by the 4-H/FFA member in the current year, with the exception of soybean seed and edible field bean seed.
3. Exhibits should be as mature as possible.
4. For State Fair, members may enter one exhibit in each category as designated by judge. State Fair age is 9 years old before January 1st of current year.
5. All 4-H/FFA crop exhibits must be checked in between 8:00 a.m. and noon on the Tuesday and remain in place until 8:00 a.m. on Saturday.
6. Every entry must be identified by hybrid or variety name.
7. All classes calling for a gallon sample may have a 2 ½ - 3 inch diameter cylinder placed in a glass gallon container to reduce the amount of grain to about three quarts.
8. **Must be enrolled in field crop project to exhibit.**
9. Crop exhibits are placed in four award groups by the judges. Premiums will be paid on those exhibits receiving a purple, blue, or red ribbon award.
10. If variety is NOT stated where requested OR samples not tied where requested, ribbon placing will drop one placing.

Scoresheets, Forms, and Contest Study Materials:

- [Horticulture/Crops Comment Card](#)
- [4-H & FFA Crops Rules and Wheat Variety Plots](#)

Resources:

- Project Area - [Crops](#)
- [Youth Participant Handbook, Wheat Variety Plot](#)

CLASSES

- CORN -

- 2399 Popcorn (County only)
2400 White. Variety or hybrid must be named. White – Ten Ear Exhibit
2401 Yellow. Variety or hybrid must be named. Yellow – Ten Ear Exhibit
2425 Corn: Exhibit to consist of one-gallon sample. Variety must be named.

- SORGHUM -

- 2402 Hybrid Grain Sorghum. Hybrid must be named. Ten Head Exhibit
2403 Hybrid Forage Sorghum. Exhibit to consist of the entire plant; no roots. Hybrid must be named. 5” bundle, tied.
2404 Other Forage Sorghums. Exhibit to consist of the entire plant; no roots. Variety must be named. 5” bundle, tied.

- WHEAT - 1 GALLON SAMPLE -

- 2405 Soft red winter wheat. Variety or hybrid must be named.
2406 Hard Red Winter Wheat. Variety or hybrid must be named.
2407 Hard White Wheat. Variety or hybrid must be named.

-SUNFLOWERS-

- 2408 Confectionery heads. 3 heads must be submitted.
2409 Confectionery seeds in jar. 3 heads must be submitted.
2410 Oil seed heads. 3 heads must be submitted.
2411 Oil seeds in jar. 3 heads must be submitted.

-OTHER CROPS-

- 2412 Oats: Exhibit to consist of one-gallon sample. Variety must be named.
2413 Barley: Exhibit to consist of one-gallon sample. Variety must be named.
2414 Alfalfa: Exhibit to consist of one-gallon sample. Variety must be named.
2421 Edible field beans: Exhibit to consist of one-gallon sample of seed from most recent harvest.
2422 Edible field beans: Bundle of five plants (with roots intact) from most recent harvest. (Example – Lentils)
2423 Miscellaneous Crops: Exhibit to consist of one gallon sample of seed or 10 heads produced from current project. Variety must be named.
2424 Cotton: Provide 10 open bolls, not 10 plants. Place bolls in a bag that can breathe (not a sealed plastic bag), so mold doesn't develop.

-HAY CROPS-

- 2415 Alfalfa Hay: Exhibit to consist of one flake or slice from a rectangular bale, or a 10-inch section cut from a round bale. The flake or slice should be approximately 6 inches in thickness and tied in two directions. Variety must be named.
2416 Native Grass Hay: Ten-inch flake or slice, 6 inches thick and tied in two directions.
2417 Brome Grass: Exhibit to consist of one-gallon sample of seed.

- 2418 Other Tame Grasses: Exhibit to consist of one-gallon sample of seed.
- 2426 Cool Season Grass Hay (e.g., fescue, etc.): Ten-inch flake or slice, 6 inches thick and tied in two directions. Variety must be named.

-SOYBEANS-

- 2419 Soybeans: Exhibit to consist of one-gallon sample of seed from most recent harvest. Variety must be named.
- 2420 Soybeans: Bundle of five plants from most recent harvest. Variety must be named.

- WHEAT VARIETY PLOT DISPLAYS -

2430 Educational Wheat Display - Booths are to be planned and prepared by members enrolled in the wheat variety plot project. A free standing display must not exceed the overall dimensions of 36” wide x 36” high and 18” deep (measured on the outside). Care should be taken to select durable material that will withstand fair conditions. Display must not require the use of electricity. If booth exceeds overall dimensions, ribbon placing will be dropped one place.

1. Each contestant may enter one display.
2. These displays will have been planned and prepared ONLY by 4-H/FFA members enrolled in the wheat variety plot project.
3. Any display receiving a blue or a purple at the county level is eligible to enter the Kansas State Fair.
4. Members must include the varieties provided in the display, but may include more varieties, if desired.

Basis for awards:

- I. Educational Value 70%
 - Is the main idea of the display specific? Was the title or theme emphasized? Is the idea presented so clearly, so simply, so forcefully, that it will stop the casual observer? Did the display give the observer additional facts in a clear, concise way? For example, varietal differences in wheat, economic gains from adoption of desirable practices, etc.
- II. Quality of Display Material 30%
 - Size, style and neatness of lettering. Proportion of models and lettering balanced. Workmanship, including handouts, if used. Charts, models and lettering used effectively to teach ideas. Colorful, artistic, neat and well balanced.

- WEED CONTROL EXHIBIT

2440 Weed Control Exhibit, Exhibit consists of the four items below.

1. Collect, identify, press, mount and label 15 weeds. Try to include their roots, stems, leaves and flowers. Three of the weeds must be noxious weeds preferably found in your local home county. A standard 9" x 12" scrapbook may be obtained in which to permanently mount your weed specimens. Identify the scrapbook with your name and county on the inside front cover.
2. Prepare a list of weeds mounted, showing common name, scientific name, and where it was found. Place the list in a specially identified section of the scrapbook.
3. Collect and identify weed seeds found in crop seeds. Mount them for display purposes. Place them in a specifically identified section of the scrapbook.
4. Write a story on “How We Control Weeds on Our Farm” if you live on a farm. Other members write “How We Control Weeds at Home”. The story should be about 300 words in length. It must show definite methods used to control weeds. Place the story in a specially identified section of the scrapbook.

Basis for Awards:

- Mounted weed collection: number of mounted specimens, completeness of individual mounts, correctness of identification and information, and neatness. Include record sheet of weeds.
- Records.....50%
- Weed seed collection and exhibit.....30%
- Story: “How We Control Weeds on Our Farm or Home”.....20%

DIVISION 19 - 4-H DOG CARE & TRAINING

Superintendent(s) – Ashley Johnson

Assistant Superintendent(s) – Brayden and Adalynn Johnson

PREMIUMS: \$5.00, \$4.00, \$3.00

1. Read GENERAL RULES.

2. **Check-in will begin at 8:30 a.m., Saturday, July 30 in the Great Plains area (formerly known as Heritage Hall) at the Tony's Event Center.** Agility and Rally will start at 9:00 a.m. with Showmanship and Obedience following.

3. Pre-entries are due ONLINE by established deadline.

4. Proof of up-to-date Rabies, Bordetella, Distemper, Hepatitis, Parvovirus, and Parainfluenza vaccination certificates - if you were not in K-9 Capers training, must be presented at time of check-in. Teams without the immunization record will not be allowed to show. Dogs must be at least 6 months of age at time of show in order to have received all of the required immunizations.

5. No dog in season will be allowed to show.

6. Any abuse of dogs on grounds, or in the ring, will result in disqualification.

7. Any dog fouling in the ring will automatically receive a white ribbon.

8. Baiting dogs is not allowed.

9. No mobile phones and/or other electronic devices are allowed in the ring.

10. Advancement is determined as follows: After receiving two qualifying scores (blue or purple) from two different judges, an Obedience, Agility, or Rally level team must advance to the next level at the start of the next 4-H year.

11. Dogs must be at least 12 months of age before competing in Agility classes.

12. State Fair requires 4-H members to be 9 years old current year, signed vaccination certificate, and qualify by receiving a purple or blue. There is no Pre-Novice show at the State Fair - only Novice and up.

13. All rules and scoring will be used from the Kansas Guidelines of 4-H Dog Show Rule Book (4H1120, January 2021).

14. Rosettes and ribbons will be handed out at the end of each class.

15. **Must be enrolled in the dog project to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Kansas 4-H Dog Show Rule Book 4H1120, January 2021](#)

Resources

- [Kansas 4-H Dog Show Rule Book 4H1120, January 2021](#)

- OBEDIENCE -

CLASSES

- 01 EDUCATIONAL EXHIBIT (County Only) – If a 4-H Member does not have a dog to show (or even if he/she does), he/she can exhibit growth in the dog project. Be present to show display or notebook for conference judging at 9:00 a.m. ring side. The exhibit will be judged during the dog show.
- 02 PRE-NOVICE A -1st yr. member; Heel & Figure 8, Stand for exam, Recall, 1 min. sit stay, 3 min. down stay, ALL ON LEASH.
- 03 PRE-NOVICE B - 1st yr. member with experienced dog, or 1st year dog or dog that did not qualify the previous year, with experienced member, requirements same as Pre-Novice A.
- 04 NOVICE - 4-H Dog Team having qualified from Pre-Novice. Heel and Figure 8 on leash, stand for exam, Heel, Recall, 1 min. Long sit, 3 min. Long down, all OFF leash.
- 05 GRADUATE NOVICE - 4-H Dog Team having a qualifying score from Novice. Heel on leash, stand for exam, heel, Figure 8 - all Off leash, Drop on Recall off leash, 3 min. long sit and 5 min. long down off leash and member out of sight.
- 06 OPEN A 4-H Dog Team having qualified from Graduate Novice. Heel, Figure 8, Drop on Recall, Retrieve on Flat, Broad jump - all off leash, 3 min. Long Sit and 5 min. Long Down off leash and member out of sight.
- 07 OPEN B 4-H Dog Team having qualified from Open A. All off leash - Heel, Figure 8, Drop on Recall, Retrieve on Flat, Retrieve over High Jump, Broad Jump, 3 min. Long Sit and 5 min. Long Down with member out of sight.
- 08 UTILITY A 4-H Dog Team having qualified from Open B. All off leash - Hand Signals Exercise, Article 1, Article 2, both scent discrimination, Directed Retrieve, Directed Jumping, Moving and Standing 2 min. exam.
- 09 UTILITY B 4-H Dog Team having qualified from UTILITY A. All exercises off leash. Hand signals exercise, Article 1 and Article 2 scent discrimination, Directed Retrieve, Directed Jumping, Moving and Standing 3 min. exam.

- AGILITY -

1. 4-H members must have successfully completed an agility class.
2. To participate in off lead must have qualified in on lead previously.

CLASSES

- 10 Agility I on lead (county only)
- 11 Agility I off lead
- 12 Agility II
- 13 Agility III

- SHOWMANSHIP -

Dress code: NO Blue jeans, short skirts or shorts, tank-tops or T-Shirts with lettering will be allowed in Showmanship.

Entries will be judged on fitting of dog; clean ears, tone and condition of coat, teeth, toenails, and eyes. Handler will be judged on alertness, grace, coordination with dog, and reaction of dog to handler with straight and even gait and movement of dog.

CLASSES

- 14 Pre-Junior – 7 years – 8 years
- 15 Junior – 9 years – 11 years
- 16 Intermediate – 12 years – 14 years
- 17 Senior – 15 years and older

- RALLY -

CLASSES

- 18 Rally Level I on lead (county only)
- 19 Rally Level II off lead
- 20 Rally Level III off lead

DIVISION 20 - 4-H/FFA ENERGY MANAGEMENT

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – Clara McKain

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. Only those who have met the requirements of the electric, small engine or wind energy project are eligible to exhibit in this division.
3. **Exhibitor may enter up to three items in this division, but only one article per class.** Label each article giving owner's name, address, district, name of article, and class.
4. Each exhibit must have a scorecard completed and attached securely. This scorecard is available from the Extension Office.
5. Items that have been in use should be cleaned for exhibit.
6. A sheet of operation instructions must be furnished for any exhibit not self-explanatory.
7. Exhibits (Classes 1, 2, and 3) must be operable using only 110 or 120 V AC or battery power. If battery power is required, batteries must be furnished.
8. Any project with a complexity of size or electronics must have (a) instructions for assembly and use and (b) equipment available at the time of judging for actual testing of the exhibit.
9. No hand dipped solder may be used on exhibits.
10. **Must be enrolled in Energy Management project to exhibit.**
11. Exhibits must be entered before noon on the first day of the fair.

Score sheets, Forms, and Contest Study Materials:

- [Electric Scorecards](#)
- [Small Engine Scorecard](#)

Resources:

- Project Area – [Electricity/Electronics](#)
- Project Area – [Renewable Energy \(Power of Wind\)](#)
- Project Area – [Small Engines](#)

- Electrical and Electronics -

Class

- 4600 AC Electric: Electric projects with a 110 or 120 V alternating current (AC) power source. Some project examples are household wiring demonstrations, small appliances extension cords, trouble lights, indoor or outdoor wiring boards, or shop lights. Projects may be a restoration or original construction. The project must be operational and meet minimum safety standards. AC projects must be 110/120 V, no 240 V exhibits are allowed, and must be constructed such that the judges have wiring access to examine the quality and safety of workmanship.
- 4601 DC Electric: Electric projects with a battery or direct current power source. This class includes electric kits or original projects. This class also includes demonstration DC powered project. Examples include: wiring two- or three-way switches, difference between series/parallel lighting circuits or wiring doorbells switches. All DC electric projects must include batteries supplied by 4-H'er. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.
- 4602 Electronic: Electronic projects with a battery or direct current power source. This class includes electronic kits or original projects. Examples include radios, telephones, toy robots, light meters, security systems, etc. May be constructed using printed circuit board, wire wrap, or breadboard techniques. Include instruction/assembly manual if from a kit. Include plans if an original project. Projects must be constructed such that the judges have access to examine the quality of wiring workmanship.
- 4603 Educational Displays and Exhibits: The purpose of the educational display and exhibit is to educate the viewer about a specific area of the 4-H electrical or electronics project. The display or exhibit should illustrate one basic idea. This class includes any educational displays, exhibits or science fair type projects which DO NOT have a power source, i.e. exhibits, posters or displays of wire types, conduit types, electrical safety, tool or motor parts identification or electrical terminology. Educational displays and exhibits must be legible from a distance of four feet, using a maximum tri-fold size of 3' x 4'.

- Small Engines -

CLASSES

All exhibits should involve engines smaller than 20 horsepower for classes 4610-4612. Engine should contain no fuel in tank or carburetor. Displays are limited to 4' wide and 4' deep - both upright and floor displays.

- 4610 Display: Exhibit a display, selecting one of the following options: 1) a display identifying different engine or lawn and garden equipment parts or a display showing the function of the various engine or lawn and garden equipment parts; OR 2) a display identifying and explaining the function(s) of different special tools needed for small engine work; OR 3) a display illustrating and providing the results of any one of experiments that are included in the project books. No complete engines, lawn tractors, tillers, chainsaws are permitted for display. Maximum tri-fold size is 3' x 4'.
- 4611 Maintenance: Exhibit a display that illustrates either: 1) Routine maintenance procedures OR 2) Diagnosing and troubleshooting specific problems in an engine. No complete engines, lawn tractors, tillers, chainsaws, etc. are permitted for display, using a maximum tri-fold size of 3' x 4'.
- 4612 Operation: Exhibit an operable small engine (no more than 20 HP) overhauled or rebuilt by the member. Include maintenance schedule for the engine and a brief description of steps taken by the member overhauling or rebuilding the engine. Maximum tri-fold size is 3' x 4'. Engine should contain no fuel in tank or carburetor. Alternative ENERGY (A form of energy derived from a natural source, such as

the sun, geothermal, wind, tides or waves). All exhibits in this division are limited in size to standard, tri-fold, display boards (36" X 48") and items may not extend beyond 12" from the back board. All displays must be self-standing.

- 4620 Educational Display: Create an exhibit that addresses a focused topic related to power generated from a renewable energy source. The purpose of the exhibit is to inform and create awareness.
- 4621 Experiment: Display an experiment addressing a problem or question related to power generated from a renewable energy source. Include hypothesis, background research, variables, a control, data, findings, conclusions and recommendations for future study.

DIVISION 21 - 4-H/FFA ENTOMOLOGY

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – Will McKain

PREMIUMS: \$1.50, \$1.00, 50¢

SPECIAL RULES -

1. Read GENERAL RULES.
2. A 4-H member enrolled in the Entomology Project may exhibit in the ENTOMOLOGY COLLECTION, ENTOMOLOGY NOTEBOOK and/or EDUCATIONAL DISPLAY categories. Within each category, there are classes in Beginning, Intermediate or Advanced phases in which they enroll. An Introductory Entomology Collection Class exhibit is encouraged for county fairs (first year members only), but these may not be exhibited at the State fair. See class descriptions within categories for requirements.
3. Resources for exhibiting can be found on the Kansas 4-H Entomology project page.
4. All entries should be submitted in an 18 x 24 x 3.5 inch wooden display box with a clear plastic top (such as Plexiglas). Boxes can be handmade or purchased as long as they are of the correct size and do not have a glass top. [Box instructions and plans.](#)
5. 4-H Members may choose to use one of the two taxonomies:
 - a) As printed in "Insects in Kansas" book or
 - b) As printed on the "Insects in Kansas Book: 2016 Revised Taxonomy", which follows www.bugguide.net.
6. Each exhibitor is required to identify each box with two identification labels bearing exhibitor's name, county or district, the collection class 4-H Member is enrolled in and statement of taxonomy used: one label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Arrange specimens in the box so it can be displayed lengthwise.
7. The number of orders, specimens (and families where required) must be included on both of the exhibitor's box identification labels. Only one adult insect per species can be used in the Collection Boxes and Notebook Classes, unless labeled as male or female and correctly identified. Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box. Specimens are to be arranged by Order in the box, then family where required.
8. For the Kansas State Fair, a completed 4-H Entomology Photo Release Form must be attached to the Entry Card for all exhibits.
9. Two labels should be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label should include date/locality. Full county name and state abbreviation should be on the second label. Collector's name (or host) on the date/locality label is optional.

The specimens should be collected by the exhibitor and should focus on Kansas insects. Insects may be collected from one county into bordering states and labels accordingly. Please refer to "[Entomology Collection Exhibit Resource](#)" for full details on out-of-state insects in collections.
10. Only specimens of the class Insecta should be included.
11. Purchased insects are not to be exhibited in collections, but they may be used in educational displays.
12. Specimens of soft bodied insects such as aphids, lice, termites, etc. should be exhibited in alcohol filled vials; however, the use of alcohol filled vials should be limited to only those specimens that lose their shape when pinned, since the vials pose a significant hazard to the rest of the collection if they become loose in transit.
13. Conference judging is between judge and 4-H Member only.
14. Only one entry per class.
15. **Must be enrolled in entomology project to exhibit.**
16. Any major violation of rules will result in the exhibit being dropped one ribbon placing. Examples would include, but are not limited to: incorrect display box size, missing paperwork, feet on display boxes, no special project in notebooks, etc.

Scoresheets, Forms, and Contest Study Materials:

- [Collections Scorecard](#)
- [Notebook Scorecard](#)
- [Educational Exhibits Scorecard](#)
- [KSF Entomology Exhibit Photo Release Form](#)

Resources:

- [Teaming with Insects Curriculum](#)
- [Entomology Collection Exhibit Resource](#)
- [Entomology Collection Notebook Guidelines](#)
- [BugGuide.net](#)
- [Insects in Kansas](#)
- Project Area - [Entomology](#)

COLLECTION CLASSES

- 4899 Introductory Entomology Collection—A minimum of 6 orders, including 15 to 30 insects grouped according to order. These collections are to be exhibited in small cardboard or plastic boxes (1 or 2 boxes with a total display area of no more than 130 square inches. Insect names are necessary on individual specimens and date/locality labels are required. Boxes can be homemade by placing a layer of polystyrene foam in the bottom of a shoebox, school box, or storage container. For the exhibit, the boxes should be covered with a piece of plastic wrap or acrylic glass taped across the top of the box. ***This collection is county only.***
- 4900 Beginning I Entomology Collection: Display in one standard box a minimum of 50 and maximum of 125 species representing at least 7 orders. Follow the guidelines listed for Collections. Members can exhibit in this class a maximum of 3 years or until they receive a purple ribbon at the Kansas State Fair, whichever comes first and then they are moved up a division.
- 4901 Beginning II Entomology Collection: Display in one standard box a minimum of 75 and maximum of 150 species representing at least 9 orders. Follow the general guidelines listed for Collections. Members can exhibit in this class a maximum of 3 years or until they receive a purple ribbon at the Kansas State Fair, whichever comes first and then they are moved up a division.
- 4903 Intermediate Entomology Collection: Display a minimum of 100 and a maximum of 300 species representing at least 10 orders. Two standard boxes can be used. Follow the general guidelines listed for Collections. In addition, family identification is required for all insects in any two of the following six orders: (only two will be counted for judging)
- “Insects in Kansas” book - Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera. or
 - “Insects in Kansas Book: 2016 Revised Taxonomy,” which follows www.bugguide.net - Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera
- On a piece of paper, list what you did to improve your collection during the current year. Members can exhibit in this class a maximum of 3 years. A 4-H member will move up if they receive a purple ribbon at the Kansas State Fair.
- 4905 Advanced Entomology Collection: Display a minimum of 150 and a maximum of 450 species representing at least 12 orders. Three standard boxes can be used. Follow the general guidelines listed for Collections. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. On a piece of paper list what you did to improve your collection during the current year. Examples: what insects did you add or replace; what orders and/or families you added; what Leadership you provided to this project; and/or what insects you have studied. Attach paper to the back of one of the display boxes. Members may continue to exhibit in this class at the Kansas State Fair for an unrestricted number of years as long as they remain eligible for 4-H membership.

NOTEBOOK CLASSES

General Guidelines

1. Individual entries are to be placed for display in a three-ring notebook for competition.
2. A completed 4-H Entomology Photo Release Form must be attached to the Entry Card for all exhibits.
3. 4-H members who have been previously enrolled in or are currently enrolled in the other phases of the Entomology project need to start with the Beginning Phase of Entomology Notebooks, not the introductory phase.
4. Each exhibitor is required to identify the notebook by placing a Title Page in the front of the notebook bearing the exhibitors name, county or district and class 4-H member is enrolled in and statement of taxonomy used:
 - Option A: “Insects in Kansas” book, or
 - Option B: “Insects in Kansas Book: 2016 Revised Taxonomy,” which follows www.bugguide.net.The number of orders, specimens and families (required in Intermediate and Advanced classes) must also be included on the Title Page.
5. Specimen pages should be grouped according to order and should include one page per species. If more than one insect is in the photo, an arrow to indicate identified insect should be used.
6. Date, common name, full county name and state abbreviation should be included for each species. Collector’s name on the specimen page is optional.
7. Specimen pages should have two different views of the insect if possible. If pictures are taken on different dates/localities, include information for both.
8. A statement describing the habitat where found/host plant may be included and is encouraged and will be worth a bonus 10 points total, not per page. For Intermediate and Advanced notebooks, this is strongly encouraged.
9. A divider page is to be placed in front of each order of insects with the order name printed on the tab for the page as well on the front of the divider page.
10. For the Intermediate and Advanced classes, insects are also to be grouped by family behind each order divider.
11. If the exhibitor has been in the same class for more than one year, a separate sheet of paper needs to be added stating how many years the exhibitor has been in this class of the project and what the exhibitor did this year to improve their notebook. Place the paper just behind the Title Page in the front of the notebook.
12. A special project must be completed each year and included in the notebook. See project guideline materials for specifications.
13. Any major violation of rules will result in the exhibit being dropped one ribbon placing. Examples would include, but are not limited to: incorrect display box size, missing paperwork, feet on display boxes, no special project in notebooks, etc.

CLASSES

- 4907a Pre-Introductory Entomology Notebook: Display in one 3-ring notebook a collection of photos with a minimum of 5 and maximum of 15 insect species representing at least three different orders. Species pages should be grouped according to order. (Notebooks should contain 5 to 6 photos.) 4-H members in their second year of this division need to list on a sheet of paper how many years you have been in this division of the project and what you did this year to improve your project. Place this paper just behind the Title Page in the front of your notebook. ***This notebook is county only.***
- 4907 Introductory Entomology Notebook: Display a minimum of 10 and a maximum of 30 insect species representing at least 6 different orders. Follow the general guidelines listed for Notebooks, including the Special project. A 4-H member must be of minimum age to compete at the Kansas State Fair. A 4-H member may exhibit in this class for a maximum of two years.

- 4908 Beginning Entomology Notebook: Display a minimum of 20 and a maximum of 60 insect species representing at least 7 different orders. Follow the general guidelines listed for all Notebooks, including the Special project. Members can exhibit in this class for a maximum of 3 years or until they receive a purple ribbon at the Kansas State Fair.
- 4909 Intermediate Entomology Notebook: Display a minimum of 60 and a maximum of 100 species representing at least 9 orders. Follow the general guidelines listed for Notebooks, including the Special project. In addition, family identification is required for all insects in any two of the following orders: (only two will be counted for judging)
- “Insects in Kansas” book - Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera, or
 - “Insects in Kansas Book: 2016 Revised Taxonomy” which follows www.bugguide.net - Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera
- Members can exhibit in this class a maximum of 3 years. A 4-H'er may move up if they receive a purple ribbon.
- 4910 Advanced Entomology Notebook: Display a minimum of 100 and a maximum of 200 species representing at least 12 orders. Follow the general rules listed for Notebooks, including the Special project. Follow the general guidelines listed for Notebooks. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. Members may continue to exhibit in this class for an unrestricted number of years as long as they remain eligible for 4-H membership.

EDUCATIONAL DISPLAY CLASSES

General Guidelines

1. Share with others what you learned in this project. Exhibit any activity or learning experience related to the field of entomology or the Teaming with Insects curriculum that does not fit into Entomology Collection or notebook classes above.
2. Follow copyright laws as explained in the General Rules.
3. The exhibit may be, but isn't limited to, original works, digital presentations (must provide printed hardcopy for exhibit purposes for duration of state fair), programs, websites, games, apps, display box, notebook, display or poster which you have made.
4. If the exhibit is a wooden display box, it must be 18 X 24 X 3.5 inches with a clear plastic top (such as plexiglass) and displayed horizontally. If the exhibit is a poster, it must not be larger than 22" X 28". If the exhibit is a display, maximum size is not to exceed a standard commercial 3' X 4' tri-fold display board.
5. Name and county/ district must clearly be marked on educational exhibits.
6. A completed 4-H Entomology Photo Release Form must be attached to the Entry Card for all exhibits.
7. Any major violation of rules will result in the exhibit being dropped one ribbon placing. Examples would include, but are not limited to: incorrect display box size, missing paperwork, feet on display boxes, no special project in notebooks, etc.

Monarch Butterfly Educational Display Rules

Monarch Butterflies were officially put on the Endangered Species List on July 21, 2022. Having the scientific name *Danatus plexippus*, this migratory butterfly is well known for its spectacular annual journey of up to 3,000 miles across the Americas. It is now threatened with extinction due to habitat loss and climate change. 4-H members can play a critical role in helping to bring habitat back for the Monarch Butterfly. They can help educate the public on ways to establish food sanctuaries for this butterfly species and help bring them back from the threat of extinction.

1. Exhibits should teach the public about the Monarch Butterfly and/or ways to protect and conserve it. The information could show nectar sources for adult butterflies and food sources for caterpillars, Monarch tagging activities, collection of native milkweed and then packaging it to give to others to plant, a group working together to plant a Monarch friendly garden, etc.
2. 4-H Members may create a poster, notebook, standard size tri-fold, diorama, slide show, or other visual display that shows information on Monarch Butterflies.
3. If a slide show is created, it should be presented on a zip drive along with a printed copy of the presentation.

CLASSES

- 4902a Introductory Educational Exhibits: Class for individuals that are exhibiting in the Introductory Collection or Pre-Introductory and Introductory Notebook Classes. If only exhibiting in this category, then ages 7-8. This class is County only.
- 4902 Beginning Educational Exhibit: Class for individuals that are exhibiting in the Beginning I and II Collection or Beginning Notebook Classes. If only exhibiting in this category, then ages 9-12.
- 4904 Intermediate Educational Exhibit: Class for individuals that are exhibiting in the Intermediate Collection or Intermediate Notebook Classes. If only exhibiting in this category, then ages 11-14.
- 4906 Advanced Educational Exhibit: Class for individuals that are exhibiting in the Advanced Collection or Advanced Notebook Classes. If only exhibiting in this category, then ages 13 or older.
- 4920 Beginning Monarch Butterfly Educational Display Class: for 4-H members enrolled in Beginning I or II Entomology
- 4930 Intermediate Monarch Butterfly Educational Display Class: for 4-H members enrolled in Intermediate Entomology
- 4940 Advanced Monarch Butterfly Educational Display Class: for 4-H members enrolled in Advanced Entomology

EDUCATIONAL POSTER CLASSES

General Guidelines

1. **Educational posters are a county only class.**
2. Educational posters should not be any larger than 22" x 28".
3. Each poster should be labeled with the 4-H Members name and club on the back of the poster. In addition, the entry tag will need to be attached to the back of the poster, lower right-hand corner.
4. The educational poster will be judged on the following criteria:
 - Is the main idea specific?
 - Is the idea presented clearly and simply?
 - Is the poster legible from a distance?
 - Notable knowledge gained/shared?

5. The purpose of the poster is to educate the viewer about a specific area of the 4-H entomology project. The poster should illustrate this idea, be legible from a distance of four feet, and should reflect work performed during the current 4-H year.

CLASSES

- 4911 **PRE-INTRODUCTORY EDUCATIONAL POSTER**-A 4-H Member may enroll in this class if enrolled in Pre-Introductory/Introductory Collection/Notebook classes or if age 7-8. Follow the general rules listed for the Educational posters. ***This poster is county only.***
- 4912 **BEGINNING EDUCATIONAL POSTER**-A 4-H Member may enroll in this class if enrolled in Beginning I/II Collection/Notebook classes or if age 9-12. Follow the general rules listed for the Educational posters. ***This poster is county only.***
- 4913 **INTERMEDIATE EDUCATIONAL POSTER**-A 4-H Member may enroll in this class if enrolled in Intermediate Collection/Notebook classes or if age 11-14. Follow the general rules listed for the Educational posters. ***This poster is county only.***
- 4914 **ADVANCED EDUCATIONAL POSTER**-A 4-H Member may enroll in this class if enrolled in introductory stage of Entomology. Follow the general rules listed for the Educational posters. ***This poster is county only.***

DIVISION 22 - 4-H FASHION REVUE

Superintendent(s) – Molly Biggs

Assistant Superintendent(s) – Jaci and Kendyn Biggs

- SPECIAL RULES -

1. Read GENERAL RULES.
2. One entry per class.
3. 4-H Members must be enrolled in: Clothing and Textiles to exhibit in classes 1, 3, 5, and 7; Buymanship for classes 2, 4, and 6.
4. A **color photo is required for all age level participants for each class entered.** This can be on regular paper vs. photo paper. Intermediates and senior division participants will need to insert their photo in the cost per wear form where indicated.
5. The intermediate and senior division participants are required to have the cost per wear form completed for judging. The link for this form can be found under Scoresheets, Forms, and Contest Study Materials below or by clicking [here](#) (page 1 is cost per wear and page 2 is the scorecard evaluation). A photo is required on the cost per wear form. Be sure to download and save the document before filling it out.
6. **Entries will be judged on Thursday, 1:30 p.m. at the Minneapolis High School Auditorium Area. Garments must be entered in the 4-H Building for display on Tuesday, between 8:00 a.m. to 12:00 p.m. On Thursday, Exhibitor should pick up entries and take them to the Minneapolis High School Auditorium Area for judging. After judging, Exhibitor will return entries to the 4-H building and ribbons will be placed on the garments.**
7. Public Revue will be Friday, 6:00 p.m. at the fairgrounds. Line up on the south side of covered arena at 5:45 p.m.
8. A 4-H member can model a constructed, purchased and/or recycled garment for judging, (total of 3) but only one will be modeled at the public revue.
9. **Constructed Garments** – Majority of the outfit must be constructed and modeled by the 4-H member who made the garment / outfit. No additional models allowed (i.e. friends, animals, etc.). Everything which is commonly considered an outer garment must be constructed (vest, jacket, dress, skirt, pants, coat, etc.). A sweater, blouse or shirt worn underneath another constructed garment can be purchased or made.
10. Purchased garment revue: the majority of the outfit must be purchased by the 4-H member or if constructed by someone else, the 4-H member will have selected the pattern and fabric.
11. Garments should be taken by Exhibitor to the 4-H building after judging.
12. No premiums will be paid for Constructed Fashion Revue.
13. No one other than the 4-H member enrolled in the project will model a garment (i.e., people, pets, etc.).
14. **Must be enrolled in specific clothing project to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Cost Per Wear Form \(page 1\) & Fashion Revue Scorecard \(page 2\)](#)

Resources

- [Shopping in Style](#)
- [Clothing Challenge: Thrifty Threads: Kansas 4-H Project Challenge](#)

CLASSES

- | | |
|----|---|
| 01 | (7-9 year olds) Constructed Garment/Outfit |
| 02 | (7-9 year olds) Purchased Garment/Outfit |
| 03 | (10-13 year olds) Constructed Garment/Outfit |
| 04 | (10-13 year olds) Purchased Garment/Outfit |
| 05 | (14 years old and older) Constructed Garment/Outfit |
| 06 | (14 years old and older) Purchased Garment/Outfit |
| 07 | Recycled Garment/Decorated |

DIVISION 23 - 4-H FIBER ARTS

Superintendent(s) – Melanie McDuffee and Chandra Koster

Assistant Superintendent(s) – Elizabeth Hyde, Lillian Hulse, Emrie McDuffee and Colbie Koster

Premiums: \$1.50, \$1.00, 50¢

- SPECIAL RULES -

1. Read GENERAL RULES.
2. **All entries will be judged Thursday at 1:00 p.m. at the Minneapolis High School Auditorium Area. Entries must be taken to the 4-H building on Tuesday, between 8:00 a.m. – 12:00 p.m. for display. Exhibitor will take entries to the Minneapolis High School Auditorium Area on judging day (Thursday), and return to the 4-H building after judging. Ribbons will be placed on entries after judging is completed.**
3. **A member may enter three exhibits in each class. All articles/garments must be finished for use.**
4. Articles which are normally worn as a pair must be shown together (booties, socks, etc.). Fasten articles securely with yarn for fair display. **Do not use straight pins!**
5. An index card, no larger than 4"x6" **must** be attached to provide information on what part of exhibit was made, processes used or other information that would be helpful for the judge. For all items please indicate if item was made from a kit. Please indicate:
 - Fiber content for crochet and knitting items and specifically if they are made of at least 90% wool
 - If item was quilted by the 4-H Member or by someone else, specifically who did the quilting and binding
6. **Must be enrolled in specific Fiber Art project to exhibit.** When the exhibit is a sewn garment that also includes one or more Fiber Art techniques (i.e. knitting, crochet, needle arts, or patchwork and quilting), the determination of what division (Clothing or Fiber Arts) and class in which to enter will be left with the 4-H participant.
7. Knitted article or garment may be hand or machine knitted.
8. Needle arts includes embroidery, cross-stitching, needlepoint, candle wicking, crewel, etc.
9. Patchwork and Quilted articles or garments—it is acceptable practice for exhibitor to create the patchwork or quilted article and have someone else quilt it.
10. Rug making includes braiding, latch hook, tying, floor cloth, etc.
11. Spinning, Skein—minimum 10 yards in length.
12. Ethnic Arts, fiber technique that is associated with a specific country or culture. Attach information on a card no larger than 4"x6" on history of ethnic art with short description of use.
13. All exhibits, which need to be hung, must have appropriate sawtooth hanger, rod, wire or mechanism attached.
14. All exhibits must be displayed at the fair in order to receive premium.
15. Sew or safety pin ID cloth label on the corner of flat articles (backside): for garments, attach ID label.
16. For classes 16-18, item(s) may be displayed as a ball or carded.
17. Fiber Arts Educational Notebook – Share with others what you learned in this project about a particular Fiber Art. Exhibits should be in the form of a notebook or binder. The notebook should include a narrative section describing the fiber art. It should include a clear description of the project, technique, budget, supplies, goals, accomplishments, successes, failures, and future plans. It may include samples of techniques, how-tos, photographs of completed projects, or other ways of educating others about fiber arts. Note: a collection of brochures, web pages, patterns, record book forms, etc. does not constitute an educational notebook. Follow copy right laws as explained in the General Rules as you are preparing your exhibit. Name, club, district name and fiber art covered must be clearly marked in the notebook.
18. Fiber Arts is defined as any method of creating a unique design with fiber, fabric or yarn. This may include: making fabric (such as weaving, crochet, knitting, needlepoint); or when existing fabric is changed into something quite different (such as quilting or embroidery or ethnic art). Ethnic Fiber Arts should use a fiber, yarn or fabric to create the design exhibit. Non-textile (examples include wood reed, straw, grass, etc.) baskets/pieces should be entered in the Visual Arts Division.
19. Special consideration will be given to articles which are of original design. Such articles should have a note attached explaining the original design.
20. There are no age-specific classes in Fiber Arts.

Scoresheets, Forms, and Contest Study Materials:

- [Crochet Judging Sheet](#)
- [Ethnic Arts Judging Sheet](#)
- [Knitting Judging Sheet](#)
- [Macramé Judging Sheet](#)
- [Needle Arts Judging Sheet](#)
- [Quilt Judging Sheet](#)
- [Rug Making Judging Sheet](#)
- [Spinning Judging Sheet](#)
- [Weaving Judging Sheet](#)
- [All Fiber Arts Judging Sheets](#)
- [Fiber Arts Educational Notebook Scorecard](#)

Resources

Project Area – [Fiber Arts](#)

Crochet (FA101)

- [Crochet Member's Manual](#)

Knitting (FA102)

- [Beginning to Knit](#)
- [Knitting Member's Manual](#)

Needle Arts (FA103)

- Needle Arts Member's Manual

Patchwork & Quilting (FA104)

- Patchwork & Quilting Member's Manual
- Quilt Quest (NE 4H 1300) Order from: Nebraska State 4-H Department, Phone: 402-472-9016 or FAX: 402-472-9024

Rug Making (FA105)

- Rug Making Member's Manual

Spinning (FA106)

- Spinning Member's Manual

Weaving (FA107)

- Weaving Member's Manual

Ethnic Arts (FA108)

- Ethnic Arts Member's Manual

Macramé (FA109)

- Macramé Member's Manual

CLASSES

- 4111 Crochet, an article including felted items. (See #5 in Rules)
- 4112 Knitting, an article made either by hand or by knitting machine including felted items. (See #5 in Rules above)
- 4113 Needle Arts, an article created by hand using any of the following techniques:
- Embroidery and cross-stitch
 - Needlepoint
 - Candle wicking
 - Crewel
 - Lacework
 - Appliqué
- 4114 Patchwork or Quilted article: it is acceptable practices for the exhibitor to create the patchwork or quilted article and have someone else quilt it. (See #5 in Rules)
- 4115 Rug Making: acceptable techniques include braiding, latch hook, tying, floor cloth, etc. The finished product should be an item that would be an item used in the home.
- 4116 Spinning, a skein - minimum 10 yards in length.
- 4117 Weaving, a woven article. Members should attach information about the type of loom or process used. (See #5 above) Woven wood reed basket, should be exhibited in Visual Arts.
- 4118 Ethnic Arts, an article: This is defined as a Fiber Art/Textile technique that is associated with a specific country or culture. It is a practical skill that was developed to provide basic family needs such as apparel, home furnishings or decorations. It is also defined as a method that has been maintained throughout history and passed on to others, often by observation and by example, such as batik, Swedish huck towel weaving, mud cloth, bobbin weaving, tatting, felted items that are not knitted or crocheted, etc. Members should attach information on the history of the ethnic fiber art, where it was used, by whom, how it was used, short description of the technique, etc. (See #5 in Rules)
- 4119 Macramé, an article.
- 4120 Fiber Arts Educational Notebook.

DIVISION 24 - 4-H FOODS & NUTRITION

Superintendent(s) – Becky and Abby Myers, and Michelle Wisbey

Assistant Superintendent(s) – Landon and Troy Wisbey, Kaylee Anderson, Jaci and Kendyn Biggs

Premiums: \$1.50, \$1.00, 50¢

All 4-H food will be judged Monday prior to the fair at the Courthouse Meeting Room.

Foods judging schedule:

8:30 a.m. Pleasant Valley

9:10 a.m. Solomon Valley

9:50 a.m. Woodsdale

10:30 a.m. Livewires

- SPECIAL RULES -

1. Read GENERAL RULES.
2. **Two entries per class.**
3. Each exhibit must be labeled with entry cards indicating the food product name, 4-H member's name and District, and class number. A label should also be placed on the bottom of the plate or cardboard. Label templates are available [here](#), or make your own.
4. Only one person can accompany the 4-H member during the conference judging time with the judge.
5. **Alcohol (ex. wine, beer, and hard liquor) is not allowed as an ingredient in food entries. Entries with alcohol will be disqualified and not be judged.**
6. All baked goods must be left whole and uncut. Small items, such as cookies and rolls, should be the same shape and from the same recipe. Exhibit 3 cookies, 3 muffins, 3 bread sticks, 1 loaf of bread, 3 brownies, 3 bar cookies, etc.
7. Any baked product that can be removed from the pan should be placed on a plate, covered cardboard, or disposable container of appropriate size for the exhibit. **PLACE BAKED PRODUCTS IN FOOD GRADE PLASTIC BAG OR IN DISPOSABLE CONTAINER of appropriate size for the exhibit.** Only the exhibit is judged. The container is not judged.
8. All un-frosted cakes should be exhibited in an upright position with crust showing. The exception is for those cakes made with special designs such as Bundt cakes. They should have top crust side down.
9. For State Fair, a member may exhibit only one non-perishable food product and one educational display. Members exhibit under the age category they fall under. Recipes are required for all food product exhibits. A gift package counts as a non-perishable exhibit.
10. An Educational Exhibit can be a poster (not larger than 22" x 28"), notebook or other display (not bigger than a standard 3' x 4' tri-fold display) showing and describing something learned, a project activity done, a food-nutrition community service program, etc. Should relate to things done in the project in which the member is enrolled.
11. Each club is responsible for their own covering and decorations for club's display area.
12. Any exhibit that is perishable must be kept in an ice chest or kept hot until it is judged. It must be entered in a "perishable" class and will only be tasted at the judge's discretion. It will not be sold at the Bake Sale, is not eligible for State Fair.
13. For food safety purposes, any food with custard and dairy based fillings and frostings (ex. cream cheese), raw eggs, flavored oils, "canned" bread or cakes-in-a-jar, cut fresh fruit, or any food requiring refrigeration (ex. bacon) or unbaked exhibit with raw flour (ex. No bake cookies) will not be accepted at the County Fair in the nonperishable classes or at the State Fair. Refer to K-State Research and Extension publication 4-H488, Judge's Guide for Food and Nutrition Exhibits for information to help you make informed, safe food exhibit decisions. **For food safety purposes, perishable food entries cannot be sold in the live or silent auctions.**
14. The "County Only" and perishable classes are not eligible for State Fair. For food safety purposes, all perishable foods are not eligible to be sold in the premium (live) or silent auctions. There will be an overall food art champion. It will not be eligible for State Fair or the premium and silent auction.
15. Under-baked entries will be lowered one or more ribbon placings.
16. **Must be enrolled in the foods project to exhibit.**
17. For food safety purposes, any entries with frostings and fillings (including glazes), must calculate the amount of sugar in the frosting/filling recipe only. Calculation must be attached to the entry, or the placing will be lowered one ribbon when judged. Frosting and fillings need to contain more than 65% sugar for safety. Examples on how to calculate this percentage are included in the publication located at: <https://bookstore.ksre.ksu.edu/pubs/MF3544.pdf>

Scoresheets, Forms, and Contest Study Materials:

- [Foods Exhibit Evaluation Form](#)
- [Food Gift Basket Evaluation Form](#)
- [Foods Educational Exhibit Evaluation Form](#)

Resources

- Project Area – [Foods and Nutrition](#)
- [Foods Label](#)
- [It's More than Keeping Your Fingers Out of the Cookie Dough!](#)
- [When are Baked Goods Done?](#)
- [Foods & Nutrition Project Spark Sheet](#)
- [4-H Cooking Curriculum](#)
- [What's on Your Plate Food Science Curriculum](#)
- [Judge's Guide for Foods and Nutrition Exhibits](#)

- Food Safety of Frosting and Fillings

STATE FAIR ELIGIBLE CLASSES:

CLASSES

- 4300 For age 9 -11, non-perishable food product.
 4301 Educational exhibit prepared by 9, 10 or 11 year old.
 4302 For age 12-14, non-perishable food product.
 4303 Educational exhibit prepared by 12, 13 or 14 year old.
 4304 For age 15-18, non-perishable food product
 4305 Educational exhibit prepared by 15-18 year old.
 4306 Food Gift Package. No alcoholic beverages will be accepted. A food gift package must contain at least 3 different food items (prepared for human consumption), made by the 4-H member, in a suitable container no larger than 18"x18"x18". Prepared food items must have recipes attached with the entry. Additional homemade food items beyond the 3 minimum or purchased items may also be included in the gift basket. On the back of the entry card, answer these questions: a) what is the intended use; b) what food safety precautions were taken during and after preparation. This entry will count as a non-perishable food product, not as an educational exhibit. Home canned foods must follow Food Preservation rules. Canning jars should not be used for baking per manufacturer's instructions. They could break during baking.

COUNTY-ONLY CLASSES-NOT ELIGIBLE FOR STATE FAIR

- 4307 For age 7-8, **perishable** food product.
 4308 For age 7-8, **non-perishable** food product.
 4309 For age 7-8, **non-perishable** food product.
 4310 For age 7-8, **Food Gift Package**. (See description above)
 4311 Educational exhibit prepared by 7 or 8 year old. (See #10 above)
 4312 For age 9-11, **perishable** food product.
 4313 For age 12-14, **perishable** food product.
 4314 For age 15 and older, **perishable** food product.
 4315 Favorite food prepared during project. If it's perishable, keep it food-safe (hot or cold) before judging.
 4316 Decorated food item (i.e., decorated cake, decorated cupcakes, etc.).
 4317 Any food prepared in the microwave.
 4318 Favorite food prepared during project. If perishable must be kept safe - hot or cold before judging.
 4319 Any baked product.
 4320 Food art - entry will include food displayed in an artistic setting - such as food forming a face, flower, bug, scene, person, etc. Entry will be judged on creativity, freshness of food and neatness.

DIVISION 25 - 4-H FOOD PRESERVATION

Superintendent(s) – Becky and Abby Myers and Michelle Wisbey

Assistant Superintendent(s) – Landon and Troy Wisbey, Kaylee Anderson, Jaci and Kendyn Biggs

PREMIUMS: \$1.50, \$1.00, 50¢

- SPECIAL RULES -

Judging will be held on the Monday before the fair begins at the Courthouse.

1. Read GENERAL RULES.

2. **Members must be enrolled in the Food Preservation Project.**

3. Exhibits must have been preserved since the member's previous year's county fair, and not been exhibited at the previous State Fair.

4. Recipes and processing methods from the sources below are recommended. Recipes must be from current, tested resources listed below AND MUST BE ADJUSTED FOR ALTITUDE based on your processing location, or it will be disqualified. Processing methods that will be disqualified include: open kettle-canning, oven canning, sun canning and using electric multi-cookers. Untested recipes will be disqualified for food safety reasons. Tested recipe sources include:

- K-State Research and Extension Food Preservation publications
- Other University Extension Food Preservation publications
- USDA Complete Guide to Home Canning, @2015
- So Easy to Preserve, 6th edition, The University of Georgia Cooperative Extension Service
- Ball® Blue Book Guide to Preserving, Edition 37
- Ball® Complete Book of Home Preserving, @2015 and @2020
- Canning mixes (i.e. Mrs. Wage's, Ball®)
- Pectin manufacturers (i.e. SureJell, Ball®)
- [KSRE Rapid Response Center Preservation Recipes](#)
- [National Center for Home Food Preservation](#)
- [Ball® and Kerr](#)

5. **Members may enter up to seven entries in this division, with one entry per class. However, if a 4-H member has two different recipes of an item that qualifies for the same class, that class may have up to two entries.** For example, if one entry is spaghetti sauce and one entry is tomato salsa, both could be entered in class 4354.

6. Alcohol is not allowed as an ingredient in food entries. Entries with alcohol will be disqualified and not be judged.

7. Each exhibit must have the complete recipe and instructions attached with the entry card, or it will be disqualified. Recipe must include exhibitor name, recipe source, date of publication, and altitude where food was processed. If accessing a tested recipe from approved sources online, also list the website you found the recipe and the date you accessed it. If using Mrs. Wage's or Ball mixes, indicate the date the mix was purchased.

8. Exhibits must be processed in clean, clear standard **canning jars with matching brand** (ex. use Ball lids on Ball jars, or Kerr lids on Kerr jars, etc.) two-piece lids. Do not use colored jars, fancy padded lids, fabric over wraps, or cozies, as they interfere with the judging process. **4-H members are to use only CLEAR jars for their 4-H food preservation exhibits. The 4-H member will be docked one ribbon placing if colored jars are used.** No fancy packs unless recipe states to do so (ex: Pickled asparagus). Jars must be sealed when entered. Jelly must be in half pint or pint jar. All other products must be in pint or quart jars. For food safety reasons, the size of jars used must not be larger than the jar size stated in the recipe (ex: Salsa is canned in pint jars only, no quarts). **Note:** There are 12-ounce, 24-ounce, and 28-ounce canning jars available which may be used. Use with pint jar process recommendations for 12-ounce jars. Use quart jar process recommendations for 24 ounce and 28 ounce jars.

9. Each jar exhibited must be labeled. The label must not cover the brand name of the jar. This label must give:

Name _____
Class No. _____
Product _____
Altitude Where Processed _____
Canning Method _____ (water bath, weighted gauge or dial gauge pressure method)
Processing Time _____
Pressure (psi) _____
Date processed including month and year _____
County/District _____

Label templates may be found at: <http://www.centrankansas.k-state.edu/4-h>

You may need to make a label using an adhesive mailing label. Templates to make adhesive labels can be found at: https://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/docs/foods-and-nutrition/Foods_Label.pdf

10. Rings should be placed on jars, but they should be easy to remove.

11. Classes 4350-4355 will require one jar for each class.

12. Attach the entry card around the top of the jar by using a rubber band through the punched hole.

13. For State Fair, a member may enter up to 2 exhibits in this division, but only one entry per class. [See State Fair Rules.](#)

14. If dried food product is not in a canning jar, it will be lowered one ribbon rating. Suggested amount: 1/3 – ½ cup, or three or four pieces per exhibit. All meat jerky must be heated to an internal temperature of 160 degrees F before or after drying. This is not the drying temperature! Dried products must include the recipe, preparation steps and heating instructions. Jerky not heated to an internal temperature of 160 degrees F will be disqualified and not be judged. Heating information can be found in "Dry meat Safely at Home."

Scoresheets, Forms, and Contest Study Materials:

- [Judging Dried Fruits & Leather](#)
- [Judging Fruits](#)
- [Judging Herbs](#)
- [Judging Pickles](#)

- [Judging Preserves](#)
- [Judging Dried Meat Jerky](#)
- [Judging Meat and Poultry](#)
- [Judging Tomatoes and Tomato Products](#)
- [Judging Dried Vegetables](#)
- [Judging Vegetables](#)

Resources:

- [Project Area – Foods and Nutrition](#)
- [Food Preservation Labels Small 1 x 2.58-Updated 2018](#)
- [Food Preservation Labels Small 1 x 2.58-Updated 2018 pdf](#)
- [Food Preservation Labels Large 2 x 4-Updated 2018](#)
- [Food Preservation Labels Large 2 x 4-Updated 2018 pdf](#)
- [Just Because It Seals Doesn't Mean it's Safe!](#)
- [Food Preservation Judging Criteria](#)
- [Food Safety Recommendations for Food Preservation Exhibits](#)
- [What's Your Elevation?](#)
- [How-to Guide to Pressure Canning](#)
- [How-to Guide to Water Bath Canning and Steam Canning](#)
- [10 Tips for Safe Home-Canned Food](#)
- [Sassy Safe Salsa at Home](#)
- [Boiling Water Canning Project Manual](#)
- [Freezing Project Manual](#)
- [Drying Project Manual](#)
- [Dry Meat Safely at Home](#)

CLASSES

- 4350 Sweet Spreads (Fruit and/or Vegetables), Syrups; One jar
- 4351 Fruits, Juices, Fruit mixtures (Salsa, Pie Filling, etc.); One jar
- 4352 Low Acid Vegetables (green beans, corn, etc. or vegetable mixtures.); One jar
- 4353 Pickles (Fruit or Vegetable), Fermented Foods, Relishes and Chutney; One jar
- 4354 Tomato/Tomato Products, Tomato Juice and Tomato Salsas; (Salsa in pints only, no quarts); One jar
- 4355 Canned Meats; One jar
- 4356 Dried Foods: One small jar

DIVISION 26 - 4-H FORESTRY

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

1. Read GENERAL RULES.

2. Each member may enter up to two exhibits in 4-H Forestry but only one entry per class. Participants can exhibit in a collection phase and one other class, 5104-5109, or they may exhibit in any two non-collection classes, 5104-5109.

3. All leaf exhibits are to be mounted on 8 1/2"x11" heavy stock paper and placed in loose leaf binders (Magnetic or adhesive filler sheets for photographic prints or sheet protectors are recommended.). Twigs and fruit collections may be exhibited in whatever manner you choose, (maximum tri fold size is 3' x 4'). Resources for exhibiting are located on the [Kansas 4-H forestry project webpage](#).

4. Name, club, age and year in project should be on front cover or in a prominent location.

5. Leaves should be identified with an appropriate label located near the leaf on the same page. These labels should include (1) The proper common name as listed in the 4H334, "List of Native Kansas Forest Trees" 2) Location (city and/or county) where collected; and (3) date (day, month, year) or (month, day, year) collected.

6. Divide specimens into the following 2 section: Native Kansas Trees and Non-native Trees (<https://www.bookstore.ksre.ksu.edu/pubs/4H334.pdf>)

7. New specimens are those specimens collected during the current 4-H year and cannot be duplicate tree species of previously displayed specimens.

8. Group specimens according to the years collected (ex. "old-previous years" and "new").

9. Variations of varieties do not count as different species or specimens.

10. When replacing previously displayed samples, due to degradation, improper mounting or incorrect identification, the specimen label must also be updated. Replacements do not count as new specimens. Replacements should be displayed in the "old previous" section of the display.

11. If you retrieve information for your forestry exhibit, you must include a reference citation to the source.

12. In all leaf collections, exhibit one complete leaf where possible. If leaf is too large, exhibit as much as possible. Sketch in reduced scale the entire leaf and illustrate where the exhibited portion is from. Note: A "leaflet" is incorrect when displayed as the complete leaf for the tree.

13. All work must show originality. Leaf collections and displays should not closely resemble work done by others in the same club.

14. State Fair: Senior Forester enrolled in Self-Determined can exhibit in Self-Determined Forestry at State Fair.

15. **Must be enrolled in forestry project to exhibit.**

16. **Judging will begin Tuesday at 1:00 p.m.**

Resources:

- Project Area – [Forestry](#)
- Tree Identification: "[List of Native Kansas Forest Trees](#)"

CLASSES

Knowing Trees as Individuals (Leaf Collections)

5100 Forestry Collection: (Choose either A or B) Only those exhibiting at the state fair for the first year may enter this class.

A. Exhibit a minimum of 10 different leaves from native Kansas trees collected within the year. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.

B. Exhibit a minimum of 5 native Kansas trees showing leaf, twig and fruit from each species collected.

5101 Forestry Collection: (Choose either A or B) This class is open to those exhibiting either for the first or second time at the state fair.

A. Exhibit a minimum of 20 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.

B. Exhibit a minimum of 10 native Kansas trees showing leaf, twig and fruit from each species collected. This exhibit must include 5 new leaf, twig and fruit specimens.

5102 Forestry Collection: (Choose either A or B) This class is open to those exhibiting either for the third or fourth time at the state fair.

A. Exhibit a minimum of 30 different leaves (including 10 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.

B. Exhibit a minimum of 15 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 5 new leaf, twig and fruit specimens.

5103 Forestry Collection: (Choose either A or B) This class is open to those exhibiting the fifth time or more at the state fair.

A. Exhibit a minimum of 40 different leaves (including 20 new specimens) from native Kansas trees. Exhibit can include non-native leaves in addition to the required number of leaf specimens collected from native Kansas trees.

B. Exhibit a minimum of 20 native Kansas trees showing leaf, twig, and fruit from each species collected. This exhibit must include 10 new leaf, twig and fruit specimens.

How A Tree Grows

5104 Notebook: Entry may include a project notebook with 10 or more seeds collected with pictures showing a germination study or a mounting of a thin section of wood cut from the end of a log or top of stump labeled with information such as kind of wood and age of tree when cut or exhibits an illustration of how a tree grows.

Tree Appreciation

5105 Notebook: Entry may include research or reporting project notebook with no more than 10 pages based on the exhibitor's selected tree. Exhibit must be a different species of tree each year. This notebook may include sketches, drawings, pictures, a story, or any other things which will help tell about the tree you have selected.

Growing and Protecting Trees

5106 Display/Notebook: Entry requires a display, or project notebook, telling about project and pictures before, during, & after planting seedlings, a container tree, or a balled and burlapped tree. Maximum tri-fold size is 3' x 4'.

Tree Culture

5107 Display/Notebook: Entry requires a display, or project notebook, showing your project work and includes pictures of before, during and

after wood lot improvement. Maximum tri-fold size is 3' x 4'.

How Forests Serve Us

5108 Entry may include collected wood samples (all or partial) and essay. Wood sample display to be mounted on poster board or any stiff material no larger than a 3' x 4' tri-fold. Essay should be displayed in a covered binder.

Educational/Creative Exhibit

5109 Entry must be directly related to tree identification or Forestry. Type of exhibit is open (notebook, poster, collection box, etc.) given a maximum tri-fold size of 3' x 4'. Care should be taken to use durable materials that will withstand State Fair conditions. This is a good class to exhibit an unusual collection.

DIVISION 27 - 4-H GEOLOGY & LAPIDARY

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – May and Will McKain

PREMIUMS: \$1.50, \$1.00, 50¢

- SPECIAL INSTRUCTIONS -

1. Read GENERAL RULES.
2. Exhibit boxes must be 18"x24"x3 1/2" with required Plexiglas cover. Boxes with glass covers WILL NOT be accepted. All specimens are to be arranged across the narrow (18") dimensions of the exhibit box making the exhibit 18" across the top and 24" deep. If box has sliding Plexiglas cover, it must be removable from the top. Screws, locks or other devices that would prevent judges from removing glass cover should not be used. For Lapidary classes 5300-5304 only, the dimensions of the box should be appropriate for the display, but **should not exceed 18"x24"x3 1/2"**.
3. Each exhibitor is required to identify each display box by placing an identification label bearing name, county/district, and number of specimens in the upper left-hand corner of the Plexiglas cover (inside), and by attaching a label with the same information to the lower right corner of the box (outside). The inside label is to also indicate the class number.
4. Exhibitor may enter in both geology and lapidary classes. Exhibitor may show in only one of the first four geology classes (5200, 5201, 5202 or 5203). Exhibitor may also show in geology class 5204 (special exhibit), 5205 Mineralogy, 5206 Fossils, and in one lapidary class.
5. Geology Specimens should be labeled with the number of the specimens, date collected, specimen name or description, and locality (county) where collected.
6. For the geology classes 5200, 5201, 5202 and 5203, specimens should be mounted in the box by proper groups: rocks, minerals, fossils. Fossils must be identified to the Phylum, Class and Genus level. Genus name is to begin with a capital letter. Species name is all lower case. Genus and species names must either be italicized or underlined, not both. The words "phylum, class, genus" on labels are to be spelled out, not abbreviated. More than one specimen of the same kind of rock or mineral or species of a fossil may be exhibited if this duplication represents different geological formations. Specimen label must show this distinction (Fort Hays limestone, not just limestone; calcite from the Greenhorn Formation, not just calcite; Phylum: Brachiopoda Class: Articulata Genus: Composita from the Morrill Limestone Member, not just Phylum: Brachiopoda Class: Articulata Genus: Composita).
7. For geology classes 5200, 5201, 5202, 5203, 5305, and 5206 all specimens must be collected by the participant (not purchased) from locations in Kansas, with the exception of Tri-State Mining Area specimens collected from these three adjacent counties: Ottawa County, OK; Newton and Jasper Counties, MO. Other out of state specimens will not count in the minimum number for the class, nor will they be considered in the judging.
8. Conference judging is between judge and 4-H Member only.
9. **Must be enrolled in the geology project to exhibit in the geology or lapidary classes.**
10. Judging will begin Tuesday at 1:00 p.m.

Scoresheets, Forms, and Contest Study Materials

- [Geology Scoresheet](#)
- [Lapidary Scoresheet](#)

Resources:

- Project Area - [Geology](#)

CLASSES

- 5200 Geology. Display at least 15 rocks, minerals, and fossils collected during the current 4-H year. Exhibitor is limited to one exhibit box. Only those who are 4-H age 7 or 8, or those who would potentially be exhibiting at State Fair for the first time may enter this class.
- 5201 Geology. Display at least 30 different rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibitor is limited to one exhibit box. This class is open to those who would potentially be exhibiting either their first or second time at State Fair.
- 5202 Geology. Display at least 45 rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibit limited to two boxes. This class is open to those who would potentially be exhibiting either the third or fourth time at the State Fair. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.
- 5203 Geology. Display at least 60 rocks, minerals, or fossils, at least 5 of each. **Fifteen must be collected during the current 4-H year.** Exhibit limited to two boxes. This class is open to those who would potentially be exhibiting their fifth time or more at the State Fair. Identify the rocks as igneous, metamorphic or sedimentary. These rock types must be spelled out on labels or have a legible key.
- 5204 Geology Educational Exhibit: Exhibit relating to everyday living; or to a mineral test, a rock formation, geological history, species of a fossil, forms of one mineral, a variation of one kind of rock, archaeological artifacts, or Indian artifacts. Digital formats are accepted. Please make arrangements for the judge to view your exhibit and have a hard copy for display. Exhibit limited to 4 feet of table space. **Care should be taken to use durable materials that will withstand fair conditions.** Exhibitor may show in the class regardless of number of times he or she has exhibited at State Fair or whether exhibitor has entries in classes 5200, 5201, 5202 or 5203. Exhibitor may also exhibit in lapidary class.
- 5205 Mineralogy. Display a minimum of 15 mineral specimens collected in Kansas, at least 5 of which have been collected during the current 4-H year. The minerals are to be grouped by mineral class (i.e.: Carbonates, Oxides, Silicates) and at least 3 classes must be represented. The member must use one standard display box (see #2). The specimens must be labeled with the number of the specimen, date collected, name of specimen, county where collected and chemical composition (ie: CaCO₃ for calcite) if known.
- 5206 Fossils. Display a minimum of 15 fossil specimens collected by the participant in Kansas, at least 5 of which have been collected during the current 4-H year. The fossils are to be grouped by Phylum and Class, and at least 3 phyla must be represented (Brachiopoda, Chordata, Mollusca, etc.) The member must use one standard display box (see #2). The specimens must be labeled with the number of the specimen; date collected; county where collected; formation, member, or source; phylum, class, and genus or part; and geologic age (Cretaceous, Permian, Pennsylvanian, etc.) See #6 for additional fossil labeling expectations.

LAPIDARY CLASSES

The lapidary will be judged on the following criteria:

Workmanship and Content	60 points
Presentation and Showmanship	30 points
Accuracy of Information	10 points

All lapidary specimens should be labeled with the following information:

- Specimen name
- Place of origin (country, state, or county; county required for Kansas specimens)
- Purchased or self-collected
- Date lapidary treatment began
- Date lapidary treatment completed (Treatment completed after the State Fair is considered a new year specimen).

- 5300 Lapidary. Display at least 5 varieties of polished (tumbled) specimens and 5 varieties of unpolished specimens that have not yet received lapidary treatment. These do not have to be an example of “before and after,” nor do they have to be self-collected. Locales must be identified. Only those potentially exhibiting lapidary at the State Fair for the first time may exhibit in this class.
- 5301 Lapidary. Display before-and-after examples of at least 3 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. There is no requirement that the 4-H'er collect any of these. Locales must be identified. Lapidary work should be done during the current 4-H year.
- 5302 Lapidary. Display before-and-after examples of at least 6 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. At least two varieties should be collected from the native site by the 4-H'er, at least one of which comes from Kansas. Locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.
- 5303 Lapidary. Display before-and-after examples of at least 9 varieties of specimens, at least 2 tumble-polished and 2 unpolished of each. At least three varieties should be collected from the native site by the 4-H'er, at least two of which comes from Kansas. Locales must be identified. Lapidary work on at least three varieties should be done during the current 4-H year.
- 5304 Lapidary. Exhibit at least 6 specimens that have not previously been exhibited, which have received lapidary treatment. Lapidary treatment may consist of polishing, and end, face, or flat lapping. Specimens must represent at least 3 different varieties and include at least three cabochons of any size or shape, only one of which may be free-formed. A cabochon is a style of cutting in which the top of the stone forms a domed or curved convex surface. Three of the specimens must be mounted into jewelry findings.

Special lapidary exhibits should be entered in class 5304. Please note that each member is limited to one entry in this class.

DIVISION 28 - 4-H HOME ENVIRONMENT

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: \$2.00, \$1.50, \$1.00

1. Read GENERAL RULES.
2. Each article must be labeled as to owner and class.
3. Only one entry per class.
4. A summary including plans, explanation of how the items was made or refinished, and how it fits into the color and design of the room. Summary could also include project inspiration, challenges, who helped you, and any other information that could be helpful to the judge. Summary should be in a plastic protective sleeve and attached to exhibit.
5. Projects with missing or insufficient summary will be lowered one ribbon placing (i.e. a blue ribbon exhibit will receive a red ribbon).
6. Exhibits should be of high quality (as compared to quick, simple crafts), suitable for use in the home several months throughout the year. Holiday-specific items are discouraged.
7. **Must be enrolled in home environment project to exhibit.**
8. Judging will take place 1 p.m., Tuesday of fair. Exhibitors are encouraged to be present for judging.

Scoresheets, Forms, and Contest Study Materials:

- [Home Environment Educational Exhibit Scorecard](#)
- [Home Environment Home Living Exhibit Scorecard](#)
- [Home Environment Project Notebook Score Sheet](#)

Resources:

- Project Area - [Home Environment](#)

- SINGLE EXHIBIT -

An article made by the 4-H Member for the home; include explanation of how it was made, cost, pictures, plans, patterns, etc. Single exhibits can be part of a group exhibit, but each single exhibit must have an entry card.

CLASSES

- 4400 Single Exhibit. An article (furniture, fixtures, interior or exterior, etc.) made or refinished by the 4-H member for the home. Must include attached summary.
- 4401 Design Board. Boards must be on foam core or a standard tri-fold display. Include: color scheme, wall treatment, floor treatment, samples, etc. and/or floor plan for a room. Must include attached summary.
- 4402 Notebook. Notebooks may include floor plans, swatches, colors, stories, photographs, and project records which detail what was accomplished this year with a given indication of long-term plans. Notebooks should also include project inspiration, challenges, who helped you, and any other information that could be helpful to the judge. Additional summary is not required for Notebook exhibits.

DIVISION 29 - 4-H/FFA HORTICULTURE

Superintendent(s) – Tim Myers

Assistant Superintendent(s) – Ryan Myers, Colyer Rensink

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. All horticultural exhibits must be grown by the exhibitor.
3. Members may exhibit a total of 8 vegetable, fruit and/or herb classes. **Members may enter multiple entries in an individual class, provided each entry is a different type of produce.** Ex. Class 2502 – Medium Vegetable; member may enter tomatoes, peppers and cucumbers under the same class number.
4. Members may exhibit in a total of 8 floral classes. **Members may enter multiple entries in an individual class, provided each entry is a different type of produce.** Ex. Class 5600 – Annual Garden Flower; member may enter dahlia, impatiens, marigold, etc. under the same class number.
5. Secure entry form to plate or container with string or tape. Use a sturdy plate, bowl or container that will support the weight of the produce.
6. **Must be enrolled in horticulture project to exhibit.**
7. For Kansas State Fair:
 - Members may exhibit a total of 4 produce items, according to the number qualified at the county fair, each a different type of produce. Members may enter multiple entries in an individual class, provided each is a different type of produce (vegetable, fruit and/or herb).
 - Members may exhibit a total of 4 floral exhibits, according to the number qualified at the county fair. Members may enter multiple entries in a single class, provided each flower specimen is of a different species.
 - Members earning a purple ribbon at their county fair on an out-of-season vegetable/fruit/herb may substitute another vegetable/fruit/herb in its place at the state fair.
 - All entries must be freestanding, easily moved, and not require any special equipment to display. Hanging entries are not accepted.

Scoresheets:

- [Horticulture/Crops Comment Card](#)
- [Cut Flower Specimen Comment Card](#)
- [Floral Arrangement Comment Card](#)
- [Horticulture Notebook Comment Card](#)

Resources

- Project Area - [Horticulture](#)
- [Exhibiting Fruits and Vegetables Publication](#)
- [Preparing Cut Flowers for Exhibit](#)

CLASSES

- 2500 Garden Display: Each exhibitor in this class will be limited to four square feet of space. The Garden Display must be exhibited in a tray, basket or container that can be easily moved by the fair staff. Exhibit consists of five different types of fresh vegetables or fruits. Canned products and shelled vegetables are not acceptable. Only one variety of each type of vegetable or fruit may be exhibited. The numbers of the five types of vegetables or fruits to be exhibited are as follows:
- **Large Vegetables (One Each):** Cabbage, Cantaloupe, Eggplant, Large Pumpkin, Squash, Watermelon
 - **Medium Vegetables (Five Each):** Beets, Carrots, Cucumbers, Decorative Gourds, Potatoes, Miniature Pumpkins, Okra, Onions, Peppers, Radishes, Sweet Potatoes, Tomatoes, or other similar sized vegetable
 - **Small Vegetables (Twelve Each):** Green snap beans, wax beans, English peas, or other similar sized vegetables
 - **Small fruits (One half pint box):** Strawberries, blackberries, raspberries, or other similar sized fruits.
 - **Tree fruits (5 each):** Apples, pears, peaches, or similar sized fruits.
 - **Grapes (2 bunches)**
- 2501 Small vegetable specimen plate (12) Ex: green snap beans, yellow wax beans, other small vegetables.
- 2502 Medium vegetable specimen plate (5) Ex: cucumbers, cherry tomatoes, tomatoes, beets, white onions, yellow onions, red onions, bell peppers, other peppers, okra, parsnips, radishes, turnips, sweet potatoes, red potatoes, white or Russet potatoes, carrots, miniature pumpkin, decorative gourds, or other medium vegetables.
- 2503 Large vegetable specimen plate (1) Ex: watermelon, summer squash, winter squash, large type pumpkin, eggplant, cabbage, cantaloupe, other large vegetable.
- 2504 Fresh Culinary herbs (6) ex: parsley, basil, dill, etc. Six stems (or a comparable quantity) of one variety of fresh herbs must be exhibited in a disposable container of water. Dried herbs are not accepted.
- 2505 Small fruits (one half pint box) Ex. Strawberries, blackberries, raspberries, or other similar sized fruits. (if other, please include name of fruit on entry).
- 2506 Tree fruits (plate of 5) Ex. apples, pears, peaches, or similar sized fruits.
- 2507 Grapes (plate of 2 bunches).
- 5600 Annual Garden Flower, cut specimen, single stem.
- 5601 Perennial Garden Flower, cut specimen, single stem.
- 5602 Fresh Flower Arrangement. Flower materials must be grown and/or collected by exhibitor, not purchased.
- 5603 Dried flower Arrangement, no fabric or plastic material allowed.
- 5604 Horticulture Notebook. Entry shall consist of a notebook or three ring binder of written narrative describing a horticulture project such as a

landscape design, landscape installation, lawn renovation, water garden, flower garden, vegetable garden, lawn mowing service, landscape maintenance business, farmer's market business, or other horticultural project. 4-Hers are encouraged to include photographs, illustrations and/or landscape drawings that help explain work done by the member. Photos taken from the same location before, during and after the completion of the project are particularly helpful. Exhibitor may enter one horticulture notebook.

Horticulture notebook scoring is based on the following criteria:

- Organization and General Appearance (neat, includes title page and table of contents, original, creative, etc.) 20%,
- Narrative (including goals, successes, failures, etc.) 40%,
- General Content (subject matter, photos, maps, knowledge gained, etc.) 40%

HOUSE PLANTS (County Only; not Kansas State Fair eligible)

Entries in classes 5605 and 5606 must be exhibited by 4-H members enrolled in plant science. Plants must be in pots or hanging baskets (plastic, ceramic, or other material) with or without blooms that would commonly be found in or around the home.

CLASSES

- 5605 Potted Plants
- 5606 Hanging Baskets

DIVISION 30 - 4-H NOTEBOOKS

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: \$1.50, \$1.00, 50¢

- SPECIAL RULES -

1. Read GENERAL RULES.
2. Entries should be in place by noon, Tuesday. Judging will be held Tuesday afternoon.
3. Class #2 premiums will be awarded to club Class.
4. If submitting a notebook with multiple years, only the current year will be judged. Please make sure the years are adequately marked.
5. The officer completing the notebook should include a personal note about themselves and their experiences in completing the officer notebook.
6. ALL CLASSES ARE COUNTY ONLY.

Scoresheets:

- Project Notebook and Club Project Notebook Comment Card
- Secretary Notebook Comment Card
- Treasurer Notebook Comment Card
- Reporter Notebook Comment Card
- Historian Notebook Comment Card
- Other Notebook Comment Card

CLASSES

- 01 Project Notebook (can be any project (that the 4-H member is enrolled in) that does not already have a notebook)-Individual entry (not 4-H Record Book)
- 02 Club Project Notebook (health, safety, community service, etc., unless division has class)-Club entry
- 03 Secretary Notebook (Individual entry)
- 04 Treasurer Notebook (Individual entry) - Bank Statements should only be used when conferencing with the judge. Do not leave the bank statements in the notebook due to the sensitive information included on the statements.
- 05 Reporter Notebook (Individual entry)
- 06 Historian Notebook (Individual entry)
- 07 Other Officer Notebook that does not already have a class (Individual entry)

DIVISION 31 - 4-H OTHER PROJECTS

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. 4-H exhibitors (individuals or groups) should avoid using copyrighted and/or trademarked materials whenever possible by originating own work.
Copyrighted and/or trademarked materials used in display or posters for endorsement or promotion instead of educational purposes will be disqualified and will not be displayed or receive ribbons or premium.
3. Entries limited to 2 per class.
4. Make-up of entry will depend entirely on member's own imagination and interpretation
5. Notebooks should be entered in Division 30 – Notebooks.
6. Welding items should be entered in Division 35 – STEM – Ag Mechanics. These items will be judged with FFA Ag Mechanics.
7. ALL CLASSES ARE **COUNTY ONLY**.
8. **Must be enrolled in specific project(s) listed below to exhibit.**
9. Entries should be in place by noon, Tuesday. Judging will be held Tuesday afternoon.
10. Exhibits considered too fragile or too valuable to be on display throughout the fair may be brought for judging and taken home immediately.

Scoresheets:

- Display Comment Card

CLASSES

- | | |
|----|--|
| 03 | Citizenship |
| 04 | Health & Wellness (includes recreation and bicycle) |
| 05 | Family Studies |
| 06 | Leadership |
| 07 | Reading |
| 08 | Self-determined |
| 09 | Communications |
| 10 | Environmental Science |
| 11 | Other Project (can be any project that the 4-H member is enrolled in which does not already have an educational exhibit class) |

DIVISION 33 - 4-H PHOTOGRAPHY

Superintendent(s) – Jennie Nichols, Melanie Hyde, Stacy Klein

Assistant Superintendent(s) – Liam Nichols, Conner Peck, Reese Wolf, Elizabeth Hyde

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.

2. **Each exhibitor limited to 6 entries between classes 4800-4806 and 4809-4811. But, if an exhibitor entered in class 4812 (theme class) and/or 4813 (photo taken with sUAS), they may have 8 photographs total. For Classes 4807 and 4808, only one portfolio a year can be entered.**

Judging will be Tuesday, 1:00 p.m., in Scout Hall. Clubs will be assigned times to be judged.

Photography Judging:

1:00 p.m. Livewires

1:25 p.m. Woodsdale

2:00 p.m. Solomon Valley

2:25 p.m. Pleasant Valley

3. Class 4812 is a special theme contest. This year's theme is "It's A Mad, Mad, Mad, Mad, Mad World". Participants are limited to ONE entry for Class 4812. This is a state fair eligible class, meaning photographs should be prepared using the State Fair guidelines used for classes 4800-4805.

4. Black and white prints and color photographic prints may be exhibited.

5. Photography entered must be the result of the current year's project work by the 4-H member. Photo images must be taken by the 4-H member (exhibitor).

6. Remove white border from the photo print before mounting. All photos in classes must be no larger than 8"x10" or smaller than 7"x9" after trimming.

7. Photos are to be mounted across the narrow (11") dimension of 11"x12.5" sheet of white or cream studio mount. (mounting boards are available at the Extension Office). Photos mounted on foam core or poster board will not be displayed. Improperly mounted photos, oversize or undersize photos, or photos with the white borders not removed or lettering (including dates) on the photo will be lowered one ribbon placing. **Note: mat board dimension.**

8. The top edge of the print must be 1-inch below the top edge of the mount (board is always oriented narrow side up). The sides of the print must be equal distance from the two sides of the mount.

9. A full coverage permanent mount (spray adhesive recommended or heat mount) must be made. Remove white border from enlargement before mounting. (Mounting boards may be purchased at the Extension Office.). Each photo is handled several times (up to 25 times at the Kansas State Fair) throughout the judging, sorting, and display process.

10. No lettering, including dates, is permitted on the front of the mount or on the photo. No under-lays or borders are to be used. No contact prints on front of mount. To protect exhibits from dust and moisture, a plastic sleeve will need to be on each photography exhibit **AFTER** being judged. **You may purchase mount boards and bags for \$1.10 per set at the Extension Office. Bags will be picked up at the judging time at the fairgrounds.**

11. Entry information must be completed and attached to the back of the mount as illustrated on letter provided at the Extension Office (directions are available [here](#)). Members must write the following on the back of the photo mat board:

Central Kansas District

_____ County

Name (first and last)

Class number

12. If eligible for the Kansas State Fair: Black and white prints and color photographic prints may be exhibited. Prints must be exhibited in the same format in which they were exhibited at the local fair (ex: If a print was exhibited as a color print at the local fair it must be exhibited as a color print at the state fair. The same applies for black and white prints).

13. Photographs taken with a digital camera and having no more adjustments than exposure, color intensity or correction, one click filter effects, red eye removal, cropping, dodging and burning should be entered in the standard color or black and white classes. **HDR photos are to be entered in the standard photo class.**

14. The black & white class is for black and white prints only. Monochromatic prints, including sepia prints are considered color photos and must be entered in the appropriate color photo class.

15. Appropriate photo subject matter: Photographic subject matter is expected to follow 4-H standards. For a sense of prohibited subject matter, review the Kansas 4-H member Code of Conduct; in general, if it is not allowable at a 4-H event, it is not allowable in a 4-H photograph at the County or State Fair.

16. **Photos with live subject(s) on a railroad right of way or taken from railroad right of way property will not be displayed in Kansas 4-H Photography and will be disqualified without being judged.**

17. Copyright protections must be observed.

18. Decisions to display and/or penalties will be made by the Photography Division Superintendent(s) and the Extension Agent.

19. **Must be enrolled in photography project to exhibit.**

20. My favorite 4-H Photography Display: This new class is only for those photography project members with 10 or more years of experience. This class is a non-judged mounted display consisting of four favorite photos from the member's photography career in 4-H. All photos and a fifth biography/description with details of why they are regarded as most significant will be mounted on white or cream studio matte board. Photos and biography/description will be displayed on one row of the photography racks. This class is an extra way to showcase the development and accomplishments of the 4-H member's photography career. Members can still enter two other classes, if they are enrolled 8 or more years in the photography project.

- This is a "display only" class.
- Eligible members must have enrolled in photography for ten (10) or more years.
- Requirements are:

- Choose a total of four (4) of your favorite photos from any of the years enrolled in photography. If used previously in competitive exhibits, remove all data slips and stickers. If the photo is an unmounted print, mount it using standard 4-H requirements and mat board.
- Develop a short biography piece including:
 - Tell how/when an interest in photography began.
 - Explain why each of the four photos is a favorite.
 - Share the skills learned because of photography. Think beyond camera skills and include leadership, community service, etc.
 - Tell of any mentors/leaders worked with.
 - Share workshops or camps pertaining to photography you attended.
 - Explain (if relevant) any plans to use photography skills beyond 4-H/High School.
 - Include a small (2 x 3) photo of yourself at the start of the biography.
 - Print the biography document and mount it on a standard mat board.
- Place Name and Extension Unit on the back of each of the 5 mat boards in the upper right-hand corner.
- This exhibit does not have to qualify at the county/district level to exhibit at the Kansas State Fair.
- There is no data slip required.
- A member who qualifies to exhibit in this class is still allowed to enter two prints and a portfolio for judging if qualifications for those classes are met.

Scoresheets:

- Photography Comment Sheet (if not conference judging)

Resources

- Project Area - [Photography](#)
- [Photography Mount Instructions](#)

CLASSES

- 4800 Color photos taken by a 4-H member with 3 years or less in the project.
- 4801 Color photos taken by a 4-H member with 4–7 years in the project.
- 4802 Color photos taken by a 4-H member with 8 or more years in the project
- 4803 Black and white photos-taken by a 4-H member with 3 years or less in the project. (Black and white prints only).
- 4804 Black and white photos – taken by a 4-H member with 4-7 years in the project. (Black and white prints only).
- 4805 Black and white photos-taken by a 4-H member with 8 or more years in the project (Black and white prints only).
- 4806 My Favorite Photography (This is a “display only” class. See Rule #20 for details.)
- 4812 Theme Photo Class (see rule #3 for details)
- 4813 Photo taken with UAS (must be enrolled in STEM – Unmanned Aerial Systems AND photography)

Portfolio Classes

4807 Growth Portfolio

1. Member is eligible for this class beginning the third year of enrollment in the 4-H photography project.
2. Exhibit will consist of one photo for each year of enrollment. Each photo must have been created in a different year and must be labeled with the year taken/project enrollment year. A maximum of 5 photos may be included if the member has 5 or more years of enrollment. Photos are not required to be in a consecutive order. For example, a nine-year-old with three years enrollment is eligible to enter a growth portfolio. The portfolio in this example should have one photo from the seven-year-old’s year, one photo from the eight-year-old’s year, and one photo from the nine-year-old’s year. The growth portfolio class may start at any time in the member’s photography career. For an older member, the growth portfolio would represent any five years in the project, for example, years 1, 3, 5, 7, and 9 for a member having project enrollment totaling 9 years.
3. Photos must be 8” x 10” and may be color or black and white and must be unmounted.
4. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed.
5. Skill set used to create the photo must be given and explained. Main goal for each year should be listed.
6. Beginning with photo 2, member description of GROWTH in project skill must be included on information sheet.
7. Exhibit will consist of photos arranged in chronological order of enrollment, information sheet on each photo, and all information listed in #6 and #7. A portfolio book will be required to exhibit.

4808 Career Portfolio

1. Member must have been enrolled in Photography for 5 (five) or more years OR member must be age 15 -19 and been enrolled in photography for at least two (2) years.
2. Exhibit will consist of ten (10) 8 x 10 photos showing skill development in one of the following photography areas: Portraiture, Special Effects (not done with computer), Landscape, Photojournalism, Black and White, Nature/Wildlife or Graphic Design (computer skills with photos). Photos may have been created over multiple project years.
3. Photos may be color except if Black and White option is chosen and must be unmounted.
4. An information sheet must accompany each photo giving brand and model of camera used to create the photo. The settings for focal length, aperture, mode and shutter speed must also be listed.
5. A one-page summary should accompany the portfolio listing the goal for pursuing this area of photography and what skills were learned while doing so. Mentors should be acknowledged. Career exploration can also be described.
6. Exhibit will be presented in a notebook designed for portfolio review with pages for required information from #4 and #5.

County Only Classes - Photographs of standard size, displayed as an individual or group on an 11"x12.5" mount board. County only class entries are not eligible for state fair or champion awards.

- 4809 Photo with special effects – Special effects are done using in-camera and/or printing techniques. The original photo is mounted on one board, there may not be any additional photos. Examples include: zooming the lens during exposure, illusions, kaleidoscope, double exposure, etc. In addition, neon and solarization are considered special effects. (County Only)
- 4810 Sequence of 3 to 6 photos not enlarged or larger than 4"x6" mounted on 11"x12.5" mount board. Photos are to be taken in sequence to tell a story. (County Only)
- 4811 Photo album: Color and/or black and white photos with captions mounted in photo album. Judging criteria will include photo technical quality, composition, technique, mounting neatness, clarity of caption, etc. (County Only)

DIVISION 34 - 4-H SHOOTING SPORTS

Superintendent(s) – Michelle Wisbey

Assistant Superintendent(s) – Landon and Troy Wisbey

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. A member may make up to 3 entries in this division with one entry per class per discipline (i.e., Rifle, Shotgun and/or archery).
3. Exhibits in this division are open to educational displays or promotional posters. Follow copyright laws as explained in the General Rules as you are preparing your exhibit. Take care to select durable materials to withstand Fair conditions.
4. The educational display must be the standard tri-fold board ONLY, must not exceed standard tri-fold, 3' wide x 4' tall; 3'x4'; no additional table space available for promotional brochures or display items; content not to exceed display board borders. Failure to follow size limitations will penalize entry one ribbon color.
5. Promotional Posters: must be flat and no larger than 22"x30"; content not to exceed display board borders; Failure to follow size limitations will penalize entry one ribbon color. Posters will be displayed on wall or divider.
6. Notebooks – no larger than 8 ½ x 11.
7. THE EXHIBIT SIZE RULE WILL BE STRICTLY ENFORCED! Exhibits exceeding the size guidelines will be penalized one ribbon color.
8. **EXHIBITORS MUST COMPLY WITH STATE AND FEDERAL LAWS AND KANSAS STATE FAIR MANAGEMENT POLICIES.**
No "live" ammunition containing propellant or explosive powders may be used in any display! An inert substitution must be used in lieu of powder and "live ammunition. The substitution must be clearly described on the back of the poster, display, or in a notebook. Please remember that neither the Tri-Rivers Fair, Ottawa County Fair, nor the Central Kansas Extension District, nor the department of 4-H Youth Development, Kansas State University Research and Extension are liable for the loss or damage of any personal property included as part of your display.
9. Name, district, age and year in project should be in a prominent location on the front of the poster, display, or notebook.
10. Exhibits will not be accepted if they are related to reloads.
11. Educational Displays will be judged on the following points:

Stopping Power.....	15
Interest, Holding Power	15
4-H Project application	15
Mechanical Power.....	.5
Personal Growth.....	.25
Educational Value.....	.25
TOTAL	100

12. Posters will be judged on the following points:

Stopping Power.....	30
Interest, Holding Power	30
4-H Project Application	25
Mechanical Power.....	15
TOTAL	100

13. **Must be enrolled in specific shooting sports project(s) to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Educational Display Score Sheet](#)
- [Promotional Poster Score Sheet](#)
- [Notebook Score Sheet](#)

Resources

- Project Area - [Shooting Sports project](#)

CLASSES

- 6200 Educational Display. Must be directly related to the 4-H Shooting Sports Project (standard tri-fold boards only, no larger than 3'x4').
- 6201 Promotional Poster. Must promote 4-H Shooting Sports.
- 6202 Notebook. Contents pertain to some phase, results, story or information about 4-H Shooting Sports.

4-H SHOOTING SPORTS SUMMER COUNTY FAIR SHOOT RULES

1. To shoot in this match, participants must have completed all safety training, be enrolled in the discipline and have attended at least 50% of the practices for that discipline.
2. The shoot rules will follow state standards.
3. All participants must meet the age requirement for the discipline: Juniors 9-13 years of age; Seniors 14-19 years old. Age is based on 4-H age.
4. **Must be enrolled in specific shooting sports project(s) to compete.**

CLASSES – COUNTY FAIR ONLY

BB Gun

- 04 Junior
05 Senior

Shotgun

- 06 Junior

07 Senior

Archery

08 Junior

09 Senior

DIVISION 35 - 4-H STEM - AG MECHANICS

Superintendent(s) –

Assistant Superintendent(s) -

PREMIUMS: \$1.50, \$1.00, 50¢

Description: The Ag Mechanics exhibit area is a new STEM project for 2021. The project is starting with an emphasis on welding and smithing, it will expand as the project area grows. This project allows youth to explore areas of ag mechanics and metallurgy from repairing or repurposing items to the fabrication of new items. The intent is for this program start with foundational areas, some of which youth may already have, and allow them to continue to build on this knowledge becoming more experienced.

Guidelines:

1. Read GENERAL RULES.
2. Each exhibitor may enter one exhibit per class. Exhibits must have been constructed or repaired during the current 4-H year.
3. Wheeled exhibits must utilize a breaking mechanism which prevents the exhibit from freely rolling while on display.
4. For trailer exhibits the tongue of the trailer should have a locking mechanism (e.g. padlock) to prevent the trailer from being moved by unauthorized individuals while being displayed. A key for the locking mechanism should be left with the superintendent and labeled with the exhibitor's name, county, and phone number.
5. Each exhibit must be free-standing or sufficiently supported by an exhibitor supplied support system that is moveable and is part of the total demission's and weight of the exhibit as described previously. Exhibit boards should have a portable and moveable base. No exhibits may be staked to the ground for display.
6. Each exhibit must be free-standing or sufficiently supported by an exhibitor supplied support system that is moveable and is part of the total demission's and weight of the exhibit as described previously. Exhibit display boards should have a portable and moveable base and examples should be firmly affixed to the board to ensure all parts of the display stay together. No exhibits may be staked to the ground for display.
7. Top heavy items should be braced or placed in a stand sufficient to prevent it from toppling over while on display.
8. Exhibits may not be bound, affixed, attached to the buildings.
9. Painting or spot painting is not allowed on projects after arrival on fairgrounds. If wet paint is detected by judges or superintendents one ribbon placing will be deducted.
10. Repair projects having adequate original finish need not be repainted.
11. Cutting surfaces, such as blades or knives, are to have a protective covering over them to prevent injury. The covering should be easily removed and reinstalled for judging. Foam "pool noodles" and multiple layers of cardboard are acceptable.
12. Display cases for small exhibits, such as knives, are acceptable, and must be easily opened so the item can be removed and examined as part of judging.
13. Exhibits that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession, or creation, physical and/or electrical that is intended to be used to inflict damage and/or harm to individuals, animal life, and/or property.
14. If the exhibit is powered by flammable liquids (gas, propane, kerosene, etc.) the fuel tank and lines should be drained and allowed to dry, to avoid spills and potential fires.
15. Electric powered (battery, corded, solar, or alternative energy) should have a primary shutoff or disconnect switch.
16. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges' discretion, will receive a deduction in ribbon placement or a participation ribbon.
17. The exhibitor's name(s) and county or district must be tagged or labeled in a prominent location on the display.
18. Each exhibit, except for display boards, must include an Ag Mechanics information packet. Entry of just a packet without an accompanying exhibit is not a sufficient exhibit.
19. Each exhibitor is required to complete the "4-H STEM Ag Mechanics Exhibit Information Form" for each exhibit, except for display boards, which is available at www.STEM4KS.com. This form must be attached to the outside of a 10" x 13" manila envelope. Do not tie the envelope to the exhibit. **All revisions of all forms previously released for the STEM division dated prior to current year are void for use and new forms must be obtained and used that are dated by the State 4-H Office for the current year.**
20. Each exhibit information packet should include the following items:
 - a. Bill of materials for the project with associated costs, scrap items used may be listed as having a \$0.00 cost
 - b. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state
 - c. If appropriate schematics or working drawings relating to the creation or repair
 - d. If appropriate operating instructions
21. Additionally exhibitors may create an optional video (not required) about their project showing its operation and the work they have done. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on a USB drive.
22. **4-H members must be currently enrolled in the specific 4-H STEM program to exhibit in this division.**
23. Please describe your exhibit including dimensions in the online pre-entry form. Floor space will be provided for large exhibits. Please be sure to give accurate dimensions in your pre-entry to ensure we will have secured a space for the exhibit. If your exhibit can be displayed outside, please note that in your pre-entry.

Scoresheets, Forms, and Contest Study Materials:

- <http://www.STEM4KS.com>

Resources

- Project Area – [STEM Ag Mechanics](#)

Classes

Introductory – Level 1 (about 1 - 3 years' experience)

This level is designed for youth with little to no exposure in the project area so that they can gain an understanding of basic principles and methods in the given area.

- 5550 Welding Display Board. A 3' x 3' display board with different pieces of metal attached illustrating different types of welds, each weld being labeled.
- 5551 Level 1 Welding Ag Repair. Repair of ag equipment with welding.
- 5552 Level 1 Welding Ag Fabrication. Creation of new ag equipment with welding.
- 5553 Level 1 Welding General Repair. Repair of non-ag equipment with welding.
- 5554 Level 1 Welding General Fabrication. Creation of non-ag equipment with welding.
- 5555 Level 1 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.
- 5556 Level 1 Brazing Repair.
- 5557 Level 1 Brazing Fabrication.
- 5558 Smithing Display Board. A 3' x 3' display board with different pieces of forged metal attached illustrating different forms, each form being labeled.
- 5559 Level 1 Smithing. A design forged with at least **one** formed element (twists or spirals for example).

Experienced – Level 2 (about 4 - 6 years' experience)

This level is designed for youth some experience in the project area allowing them to expand on common principles and methods in the given area.

- 5560 Level 2 Welding Ag Repair. Repair of ag equipment with welding.
- 5561 Level 2 Welding Ag Fabrication. Creation of new ag equipment with welding.
- 5562 Level 2 Welding General Repair. Repair of non-ag equipment with welding.
- 5563 Level 2 Welding General Fabrication. Creation of non-ag equipment with welding.
- 5564 Level 2 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.
- 5565 Level 2 Brazing Repair.
- 5566 Level 2 Brazing Fabrication.
- 5567 Level 2 Smithing. A design forged with at least **two** different formed elements (twists and spirals for example).

Advanced – Level 3 (about 7 - 9 years' experience)

This level is designed for youth with vast experience in the project area allowing them to master common principles and methods and expand on advanced techniques in the given area.

- 5570 Level 3 Welding Ag Repair. Repair of ag equipment with welding.
- 5571 Level 3 Welding Ag Fabrication. Creation of new ag equipment with welding.
- 5572 Level 3 Welding General Repair. Repair of non-ag equipment with welding.
- 5573 Level 3 Welding General Fabrication. Creation of non-ag equipment with welding.
- 5574 Level 3 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.
- 5575 Level 3 Brazing Repair.
- 5576 Level 3 Brazing Fabrication.
- 5577 Level 3 Smithing. A design forged with at least **three** different formed elements (twists, spirals and bulbs for example).

Master – Level 4 (10 or more years' experience)

This level is designed for youth substantial experience in the project area allowing them to master advanced techniques in the given area.

- 5580 Level 4 Welding Ag Repair. Repair of ag equipment with welding.
- 5581 Level 4 Welding Ag Fabrication. Creation of new ag equipment with welding.
- 5582 Level 4 Welding General Repair. Repair of non-ag equipment with welding.
- 5583 Level 4 Welding General Fabrication. Creation of non-ag equipment with welding.
- 5584 Level 4 Welding Artistic Fabrication. Creation of artistic or interpretive pieces with welding.
- 5585 Level 4 Brazing Repair.
- 5586 Level 4 Brazing Fabrication.
- 5587 Level 4 Smithing. A design forged with at least **four** different elements (twists, spirals and bulbs for example).

County Fair Only Class

- 5588 Welding item that doesn't fit another class in this division

DIVISION 36 - 4-H STEM - ARCHITECTURAL BLOCK CONSTRUCTION

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – May McKain

PREMIUMS: \$1.50, \$1.00, 50¢

The STEM ABC exhibit area focuses on using architectural blocks (“Legos”) to construct dioramas. This project allows youth to explore architectural design in a three-dimensional space. The intent for this program is to allow youth to explore the construction and gain knowledge through interaction with a common toy. This division is not intended for youth wishing to exhibit constructed kits. Kits and non-diorama displays should not be displayed in this division.

Guidelines:

1. Read GENERAL RULES.
2. Each exhibitor may enter one exhibit. Exhibits must have been constructed during the current 4-H year.
3. Counties are limited to FOUR exhibits to the state fair to insure sufficient space for all exhibitors.
4. Total exhibit dimensions may not exceed 2 feet high, by 2 feet wide, by 2 feet deep. The minimum exhibit dimensions must be at least 6 inches wide and deep.
5. All exhibits should be placed in a sturdy see through enclosure with a top, bottom, and 4 sides. A clear tub turned upside down with the exhibit placed on the lid would be an acceptable enclosure. It may be desirable to place a cutting board or other hard surface between the lid and the base plate of the exhibit to make it sturdy. This is to keep exhibit components from being “scattered to parts unknown” at the fair. The outer dimensions of the enclosure do not count towards the total exhibit dimensions but should not be excessive.
6. All components used in construction should be dust free, clean, free of chips, scuffs, or cracks.
7. The primary building component should be interlocking blocks, commonly referred to by the brand name of Lego®.
8. Gaps or cracks should not be visible between assembled blocks unless they fit with the story, for example: an earthquake.
9. Other components can be integrated into dioramas to illustrate architectural aspects that may be difficult to convey with traditional interlocking blocks, for example marbles for small round objects.
10. The use of existing “store bought” sets for major architectural elements of the display is not allowed, use of figurines from sets is allowed as using individual bricks to create something different than the architectural component of the set it came from. “Store bought” sets should be considered an arts and crafts entry. The intent of this is to ensure fairness among exhibitors and encourage maximum creativity instead of just following a set of plans.
Dioramas should be suitably complex and have multiple elements, for example: a camp site that has a log cabin, a tree fort, and a car.
11. All dioramas should have a story, which is part of the information pack, that describes what is happening in the diorama; this can be as simple (the nursery rhyme “Jack and Jill” for example) or complex as needed to explain to someone looking at the exhibit what is happening.
12. Vehicles that are intended to stay in a single place should be affixed to base plates with sticky tack, hot glue, or other method
13. Mechanical enhancements or motion elements that add motion to the diorama are acceptable and encouraged. For example, marry-go-rounds, doors, elevators, gears, marbles going down a channel, flapping wings, animatronics, etc. If included judges should be able to use them and instructions should be provided for operation either in the story or on a separate page.
14. Artistic designs, for example: recreating paintings like the “Mona Lisa” or “Starry Night” and sculptures like “David,” are not permitted as exhibits and one ribbon placing should be deducted. These exhibits should be displayed in Visual Arts.
15. The exhibitor’s name(s) and county or district must be tagged or labeled in a prominent location on the display, additionally the display case should have the exhibitor’s information attached to it as well, as the top part of the case may be separated from the display
16. Each exhibit must include an Architectural Block Construction information packet. Entry of just a packet without an accompanying exhibit is not a sufficient exhibit.
17. Each exhibitor is required to complete the “4-H STEM Architectural Block Construction Exhibit Information Form” which is available through your local K-State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit. All revisions of forms previously released for the STEM division dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year.
18. Each exhibit information packet should include the following items:
 - a. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state, these help in determining where a part might go in case something comes loose.
 - b. If appropriate operating instructions for mechanical portions of the diorama.
19. For KSF Only: Exhibitors are required to create a video about their project discussing their construction experiences and the architectural elements of the diorama (tell the story of what is happening in their exhibit). This allows judges to get a better understanding of the exhibit and allows youth the opportunity to fully explain their exhibit. The video should be no longer than 8 minutes and should be placed on a USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the state fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the Kansas State Fair.
20. **4-H members must be currently enrolled in the specific 4-H STEM program to exhibit in this division.**

Scoresheets, Forms, and Contest Study Materials:

- <https://STEM4KS.com/>

Resources:

- Project Area – [STEM Architectural Block Construction](#)

CLASSES

5710 Intermediate (ages 9-13). Interlocking brick diorama built from scratch.

5711 Senior (ages 14 and up). Advanced interlocking brick diorama built from scratch.

County Fair Only Class

5714 Junior (ages 7-8). Interlocking brick diorama built from scratch.

DIVISION 37 - 4-H STEM - ASTRONOMY

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – May McKain

PREMIUMS: \$1.50, \$1.00, 50¢

Guidelines:

1. Read GENERAL RULES.
2. Each exhibitor may enter one exhibit per class. **Exhibits must have been completed during the current year.**
3. Telescopes entered into this division may be a kit or original design. Pre-finished telescopes which require no construction or painting are not acceptable exhibits.
4. Telescopes should not be more than six feet in length. They must be placed on a stationary stand that does not allow the telescope to roll and/or fall over. The stand cannot extend past two feet in length or width.
5. Each telescope exhibit must include a “4-H Astronomy Exhibit Information Form,” which is available through your local K-State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit. All revisions of forms previously released for the STEM division dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year. You must also include construction plans (or a photocopy) for the telescope and place it inside the manila envelope. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
6. Two photographs showing telescope construction and operation are required. Photographs should be mounted on one side of an 8 ½” x 11” page. A brief caption should accompany each photograph. Place photos in the 10”x13” manila envelope.
7. The telescope must be properly assembled and painted with a smooth and uniform finish. Decals, if used, should be attached smooth and tight.
8. Telescopes designed by the exhibitor must be original, not a modification of an existing kit.
9. Exhibitor’s name, county or district; age, and year(s) in project, must be tagged or labeled in a prominent location on the telescope.
10. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit at the judges discretion, will receive a participation ribbon.
11. For KSF Only, exhibitors may create an optional video (not required) about their project showing its operation and the work they have done. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on a USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the state fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the Kansas State Fair.
12. **4-H members must be currently enrolled in the specific 4-H STEM program to exhibit in this division.**

Scoresheets, Forms, and Contest Study Materials:

- [Kansas 4-H Astronomy Exhibit Form](#)
- [Kansas 4-H Astronomy Scoresheet](#)
- <https://stem4ks.com/>

Resources:

- Project Area – [STEM Astronomy](#)

CLASSES

5500 Telescope made from kit.

5501 Telescope made from original design.

DIVISION 38 - 4-H STEM – COMPUTERS

Superintendent(s) –

Assistant Superintendent(s) –

PREMIUMS: \$1.50, \$1.00, 50¢

Guidelines:

1. Read GENERAL RULES.
2. Each exhibitor may enter one exhibit per class. Exhibits must have been completed during the current 4-H year.
3. Any item which IS NOT a notebook, display board, or poster displayed in this class is considered a “computer system” exhibit and MUST follow the rules set forth below.
4. 4-H members must be currently enrolled in the 4-H STEM – Computers project to exhibit in this division.
5. Each exhibitor may enter one exhibit per class. Exhibits must have been completed during the current 4-H year and have been selected at the county level for entry at the State Fair level. Counties or district should select only top blue or purple ribbon computer exhibits which meet State Fair guidelines.
6. Computer exhibits may be checked out for use in a Kansas State Fair 4-H demonstration or 4-H illustrated talk with prior permission. For permission, check with the superintendent(s). The exhibit must be returned to display immediately after the demonstration/illustrated talk or the exhibit will be disqualified.
7. Exhibitor’s name, county or district, 4-H age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
8. See the last section for full details about exhibiting posters, display boards and notebooks.
9. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit, at the judges’ discretion, will receive a participation ribbon.
10. All exhibits must be:
 - a. Self-contained on a USB drive (thumb drive, flash drive, jump drive, or other any other name for a small USB storage device; the rules will use “USB drive”). This means that a judge can plug in the USB drive into a computer and run the exhibit as described below.
 - b. OR System -On-A-Chip (SOC) (such as Raspberry Pi) or a Micro-Controller (such as an Arduino or Ozobot) AND is a compact (less than 8”X 8”X 8”) system, which can be programmed AND requires minimal assembly to operate (e.g. connecting power, display, and keyboard/mouse cables). Referred to as a “chip system” through the rest of the rules.
11. Physical computers such as tablets, smart phones, laptops, or personal computers (PCs) will not be accepted as an exhibit.
12. “Chip system” may use/include GPIO bread boards or HATs (Hardware Attached on Top) the size of which is not included in the size of the chip system however the total size of the chip system and GPIO devices may not exceed 24”X24”X24” including any protective enclosures.
13. Any attached GPIO devices are not judged for electrical construction or quality as this division is focused on the operational aspects of the system that have automated articulated structures (arms, wheels, grippers, etc.) which the exhibitor constructed, some of these systems can also be classified as a STEM Robot, and the exhibitor must decide which division to exhibit in as the exhibit may not be entered in both divisions.
14. For chip system, all electric components of the system must be adequately covered or concealed with a protective enclosure. Paper is NOT considered an adequate enclosure or covering for the electrical components.
15. All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year. Use of old forms should result in the loss of one ribbon placing for exhibits.
16. For all computer system entries, the following items are required as part of an exhibit packet:
 - a. A manila envelope with the Computer Exhibit Form, which is available through your local K-State Research and Extension office or at www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit.
 - b. A USB drive labeled with the 4-Hers name, county/district, and club; in a way that does not prevent it from being plugged into a computer.
 - c. For exhibits that are entered on USB drives, at least one (1) graphic (picture, screen shot/capture, slide, etc.) of the project must be printed out on an 8.5” X 11” sheet of paper, **placed in a plastic sheet protector**, to allow for proper display and recognition at the Kansas State Fair. Additionally, this graphic should be included on the USB drive and given the name “display graphic.” This is what will be displayed during the fair, all other materials will be sent back to the county/district office. On the back side of the graphic the 4-Her’s name, county/district, and club should be listed.
 - d. Instructions to run any part of the exhibit on the USB drive.
(There should be at least three (3) items in your manila envelope: USB drive, graphic and instructions).
17. Each exhibit must be accompanied by a “4-H Engineer’s Journal.” The engineer’s journal should be typed. It can either be included electronically on the USB drive (preferred) or printed and placed in the manila envelope.
 - a. The “4-H Engineer’s Journal” should start with a dated entry describing what the 4-H member is trying to accomplish/build.
 - b. The “4-H Engineer’s Journal” should conclude with a dated entry describing what the 4-H member achieved in creating. (The start and end many times will be different. The judges are interested in the journey).
 - c. Additional entries in the “4-H Engineer’s Journal” should be made as progress occur describing successes and failures; as well as the steps done and any sources of information including links used.
 - d. Pictures can also be included in the “4-H Engineer’s Journal” but should not be more than 50% of the entries.
 - e. The “4-H Engineer’s Journal” should contain at least one graphic.
 - f. The “4-H Engineer’s Journal” must be at least 3 pages in length.
 - g. An example of a “4-H Engineer’s Journal” can be found at www.STEM4KS.com.
 - h. The “4-H Engineer’s Journal” will comprise 50% of the overall exhibit score. Failure to include a “4-H Engineer’s Journal” will result in the exhibit being disqualified.
18. If the exhibit is a program, application, app, web site, or requires any coding, the source code must be included on the USB drive. Failure to include a copy of the “source code” may result in up to one ribbon place deduction.
19. Diagrams or decision trees showing the logical flow of the system must be included on the USB drive for all exhibits.
20. Since there is no conference judging at the Kansas State Fair, a set of instructions must be provided to run the computer system /application. These instructions should be printed off and included in the exhibit package and a copy should be included on the USB drive.

- a. FOR COUNTY FAIRS it is recommended that 4-Hers bring a computer that will run their project to the fair for judging as judges typically do not bring computers with them. Operating instructions are still required.
 - b. Instructions should be written as though you were helping a less techy person, (like a grandparent) use the USB drive with a computer similar to what is described in rule 9 below. An example of instructions can be found at www.STEM4KS.com.
21. Each exhibit **MUST** include a video of the youth following their instructions for operation. For presentations, such as PowerPoint, this should include delivering the presentation. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on the USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the state fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the Kansas State Fair.
- a. FOR COUNTY FAIRS with consultation judging, it is recommended that the video elements be waived in favor of talking with the exhibitor.
22. Each exhibit must accomplish a specific automated task using a computer, a chip system, URL, or virtual machine (VM).
23. Kansas State Fair Judge(s) in the computer system division will have a physical computer with the following minimum configuration to test exhibits with and view files:
- a. Microsoft Windows® 10 or Windows® 11
 - b. Microsoft Office® 365 (Excel, Power Point, & Word)
 - c. Microsoft Visual Studio®
 - d. Microsoft Edge Browser®
 - e. Mozilla Firefox® Browser
 - f. Google Chrome® Browser
 - g. Adobe Acrobat Reader®
 - h. Apache OpenOffice®
 - i. VMware Player Windows 64bit
 - j. Scratch Desktop editor (offline version)
24. The STEM judges will have internet access at the Kansas State Fair. Internet based content may be included in exhibits. Exhibitors should take great care and only go on-line with their guardian's permission. User names and passwords should not be included in exhibits. If they are required to view the content, a temporary user account and password should be created for judging at the Kansas State Fair, once judging is complete the user name and password should be disabled on the account. If a separate user account is not possible, the content should be included as part of the video. **YOU SHOULD NOT SHARE YOUR USER NAME OR PASSWORD WITH OTHERS.**
25. Kansas 4-H STEM has made available Linux Virtual Machines (VMs) that can be downloaded and used to create projects on such as web servers, networking, and many other projects. For more information on how these VMs can be leveraged or to download them visit www.STEM4KS.com. 4-Hers are not required to use the VMs in their projects. They are optional.
26. All licensing should be adhered to for any software used in the exhibit. Failure to do so will result in a reduction of one ribbon placing and may not be considered for best of show.
27. The creation of viruses, malware, malicious applications or code, defamatory language or graphics, bullying, or any material that is "mean," "dangerous," or harmful according to the judge's opinion will result in the exhibit being disqualified.
28. Pictures or still graphics created are not eligible for entry as a project in this division and should be entered in the appropriate photography division.
29. Judging will be based on a score sheet which can be found at www.STEM4KS.com. There are four (4) areas each exhibit will be judged on. They are:
- a. 4-H Engineers Journal (what I learned to make it work), 50% overall score
 - b. Instructions (how I help others make it work), 25% overall score
 - c. Functionality (does it work), 12% overall score
 - d. Diagrams (and code if applicable) (how I think it works), 13% overall score
- 30. 4-H members must be currently enrolled in the specific 4-H STEM project to exhibit in this division.**

Scoresheets, Forms, and Contest Study Materials:

- [Kansas 4-H Computer Systems Exhibit Form](#)
- [Kansas 4-H Computer Systems Scoresheet](#)
- <https://stem4ks.com/>

Resources:

- Project Area – [STEM Computer Systems](#)

Computer System Division

- 5590 Computer program, application, app, script, or coded system that is new and unique (not merely a file run in a program, such as a 'word document' or a picture drawn in 'Microsoft Paint').
- 5591 Computer presentation (power point, web page/site, animated graphics such as gifs, etc.)
- 5592 Single computer system (web server, database server, etc.) represented as a virtual machine.
- 5593 Networked system consisting of two or more virtual machines.
- 5594 Chip system - a small (8"X8"X8") programmed physical device that accomplishes a specific task.

DIVISION 39 - 4-H STEM - ROBOTICS

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – May McKain

PREMIUMS: \$1.50, \$1.00, 50¢

Guidelines:

1. Read GENERAL RULES.
2. Each exhibitor may enter one robot per class. Exhibit must have been constructed/completed during the current 4-H year.
3. Each robot must be free-standing, without the need for additional supports in order to be moved or exhibited. **Each exhibit must include a robot, information packets are not a sufficient exhibit.**
4. Robots must have automated articulated structures (arms, wheels, grippers, etc.). Game consoles that display on a screen are not considered robots and should either be entered in computer systems division or energy management project. Robots requiring no assembly, just programming, such as Ozobots, are considered computer systems projects as the skill is focused on the programming not on the construction of the robot.
5. Robot dimensions should not exceed 2 feet high, by 2 feet wide, by 2 feet deep. Weight may not exceed 15 pounds. If displayed in a case (not required or encouraged for the state fair, but strongly encouraged for county fair) the outside case dimensions may not be more than 26 inches in height, width, or depth.
6. Materials including but not limited to obstacles, spare batteries, and mats for testing the robot may be placed in a separate container, which is not included in the robots dimensions, that container may not be larger than 576 cubic inches as measured along the outside of the container. (Examples: 4”X4”X36” or 4”X8”X18” or 6”X6”X16) The container, if used, and/or any large objects (such as mats or obstacles) should be labeled with the exhibitor’s name(s) and county or district.
7. All electric components of the robot must be adequately covered or concealed with a protective enclosure. Paper is **NOT** considered an adequate enclosure or covering for electrical components.
8. Robots may be powered by an electrical, battery, water, or solar source only. Junk drawer robots may be powered by a non-traditional power source. Robots powered by fossil fuels/flammable liquids will be disqualified. Robots that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession or creation, physical and/or electrical that could be used to inflict damage and/or harm to individuals, animal life, and/or property.
9. Remote controlled robots are allowed under certain conditions provided that the robot is not drivable. Robotic arms (hydraulic or electric) are allowed. A remote is allowed provided more than a single action happens when a single button is pressed on the remote, for example “a motor spins for 3 seconds, at which point an actuator is triggered, then the motor spins for 3 more seconds.” Remote controlled cars, boats, planes and/or action figures, etc. are not allowed.
10. Each robot must be in working condition. The judges will operate each robot to evaluate its workmanship and its ability to complete its intended task. In the event the robot uses a phone, tablet, or similar device for programming AND control of the robot a video will be used to evaluate the working condition of the robot.
11. Each exhibitor is required to complete the “4-H STEM Robotics Exhibit Information Form” which is available at www.STEM4KS.com. This form must be attached to the outside of a 10”x13” manila envelope. **All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms must be obtained and used that are dated by the State 4-H Office for the current year. Use of old forms should result in the loss of one ribbon placing for exhibits.**
12. The exhibit must include written instructions for operation (the instructions should be written as if they were to tell a grandparent or elderly person how to operate the robot), construction plans, and one to three pages of project photographs. In addition, a 5 minute video presentation placed on a CD, DVD, USB drive, or similar removable storage device, if applicable. For robots that can be programmed, robot programming information must be included. This information should be placed inside the 10”x13” manila envelope mentioned above. Robot programming information can be, but not limited to, source code, block diagrams, screen captures of the coding window, and other images that show the programming logic used. The exhibitor may enter their electronic project listed under the energy management program if the exhibitor so chooses. For KSF Only, no exhibitor will be allowed to set up their robot in person.
13. In the event that the robot uses a device like a phone, iPad, or tablet for programming AND operation, DO NOT include the device (phone, tablet, etc.). The device’s safety cannot be insured. Instead record a video demonstrating the instructions included for your robot. It should show, setting up the robot, starting the robot, the robot executing its task, and powering off the robot, just like the instructions are written.
14. Each exhibit MUST include a video of the youth following their instructions for operation. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on the CD, DVD, USB drive, or similar.
15. Creativity, workmanship, and functionality will be strong criteria in judging the “Robot designed by Exhibitor” classes. All robots should have a purpose or intended function, examples include, but are not limited to: following a line, sweeping the floor, solving a rubix cube, sorting colors, or climbing stairs.
16. Exhibitor’s name(s) and district must be tagged or labeled in a prominent location on the robot such as on the bottom of the robot, exhibit cards are not an acceptable form of labeling.
17. There are no county or district boundaries that must be adhered to in order to form a Kansas 4-H STEM Robotics team. However, as mentioned in #19, each team member must be currently enrolled in the Kansas 4-H STEM project.
18. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s exhibit at the judges discretion, will receive a participation ribbon.
19. **Must be enrolled in specific 4-H STEM project to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Kansas 4-H STEM Robotics Exhibit Form](#)
- [Kansas 4-H STEM Robotics Scoresheet](#)
- <https://stem4ks.com>

Resources:

- Project Area – [STEM Robotics](#)

CLASSES

DIVISION A – Junior – Ages 7 to 8 years

- 5504 Robot made from a commercial (purchased) kit. (No programming just assembly)
- 5505 Robot designed and constructed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- 5506 Programmable robot made from a commercial (purchased) kit.
- 5507 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote controlled device
- 5508 Junk Drawer Robotics

Intermediate Division (Ages 9 – 13 years)

- 5509 Robot made from a commercial (purchased) kit (no programming, just assembly).
- 5510 Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- 5511 Programmable robot made from a commercial (purchased) kit.
- 5546 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote-controlled device.
- 5544 Junk Drawer Robotics.

Senior Division (Age 14 years and older)

- 5313 Robot made from a commercial (purchased) kit (no programming just assembly).
- 5514 Robot designed by exhibitor. The robot must not be a mere modification of an existing robot kit or plan.
- 5515 Programmable robot made from a commercial (purchased) kit.
- 5547 Robot designed and constructed by exhibitor or from a commercial kit, that is operated by a remote-controlled device.
- 5545 Junk Drawer Robotics.

Division D – Team Robotics Project

- 5517 Robot designed and constructed by two or more 4-H STEM project members. The robot must not be a mere modification of an existing robot kit or plan. The robot may be a programmable type that is made from a commercial (purchased) kit. This division is designed to encourage teamwork and cooperation among fellow 4-HSTEM members. As with many high-tech projects today, no one person designs and builds a robot alone. It takes the brainstorming, planning, problem solving, and cooperation of an entire team to complete a given robotics project.

DIVISION 40 - 4-H STEM - ROCKETRY

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – May McKain

PREMIUMS: \$1.50, \$1.00, 50¢

Read GENERAL RULES.

The Kansas 4-H STEM Rocketry program is designed to allow 4-H members to explore aerospace through rockets of various sizes. Kansas 4-H has adopted the National Association of Rocketry's rules, regulations, and safety guidelines.

1. **Must be enrolled in specific 4-H STEM project to exhibit.**

General exhibit Information for ALL rocketry categories:

1. All revisions of all forms previously released for the STEM division either undated or dated prior to current year are void for use and new forms to be obtained and used that are dated by the State 4-H Office for the current year. Use the old forms will result in the loss of one ribbon placing for exhibits.
2. Relevant documents may be obtained from County Extension Offices or from www.STEM4KS.com
3. NAR refers to the National Association of Rocketry and its governing board.
4. Tripoli refers to the Tripoli Rocketry Association and governing board.
5. All NAR documents, with the exception of the "pink book," referenced herein can be found at <http://www.nar.org>.
6. If a fire burn ban is in effect for Ottawa Saline County, participants are not required to launch their rocket(s). All requirements for the launching of the rockets for the county and state fairs and the documenting of the launching are suspended for the duration of the ban.
7. For KSF Only, exhibitors may create an optional video (not required) about their project and the work they have done. The video should be no longer than 8 minutes and should be placed on a USB drive. These videos may also be considered for inclusion in a running video loop in the STEM area at the state fair after review by judges, superintendent(s), and extension staff. Adult guardians must complete the video release included with the exhibit form. If the release is not completed the video will not be included in the video loop on display in the STEM area at the Kansas State Fair.

Exhibit Definitions for ALL rocketry categories

1. As defined by the National Association of Rocketry (NAR), a scale model is "any model rocket that is a true scale model of an existing or historical guided missile, rocket vehicle, or space vehicle." The intent of scale modeling is, according to the NAR, "to produce an accurate, flying replica of a real rocket vehicle that exhibits maximum craftsmanship in construction, finish, and flight performance." (NAR "Pink Book" 50.1 4-1)
2. Adult supervision is defined as being under the direct supervision of someone 18 years of age or older.
3. For the purposes of Kansas 4-H STEM a mid-powered rocket is defined as a rocket that uses an 'E', 'F', 'G', or equivalent engine for launch. In addition, rockets also qualify for mid-power if they meet any of the following criteria:
 - a. Is 2 inches or greater in diameter (not including fins) and taller than 3 feet (36 inches including fins) and do not use an engine(s) exceeding 160.01 Newton seconds of total impulse (an 'H' engine equivalent or above).
 - b. The total impulse of all engines used in the rocket is greater than 20.01 Newton-seconds and less than 160.01 Newton-seconds.
4. For the purposes of Kansas 4-H STEM-a high-powered rocket is defined as a rocket that meets any of the following criteria:
 - a. Weighs more than 3.3125 pounds (53 ounces or 1500 grams) at the time of launch;
 - b. Uses a 'H' engine or larger to launch
 - c. The total impulse of all engines used in the rocket is greater than 160.01 Newton-seconds of thrust.
 - d. Includes any airframes parts of ductile, metal, though, the use of ductile metal is strongly discouraged.
 - e. Models powered by rocket motors not classified as model rocket motors per NFPA 1122, e.g.:
 - i. Average thrust in excess of 80.01 Newtons
 - ii. Contains in excess of 125 grams of propellant and are limited to only H and I motors.
 - iii. Uses a hybrid motor or a motor designed to emit sparks
5. High power certification is defined as having successfully completed a certification program for high-powered rocketry through the NAR or Tripoli and maintaining that certification. This applies to all membership levels in the NAR and Tripoli. Specifically, the "Formal Participation Procedure" for the "Junior HPR Level 1 Participation Program" as outlined by the NAR and the "Tripoli Mentoring Program (TMP) as outlined by Tripoli.
6. NAR rules for launching and construction of all rockets are assumed to be used by all 4-H STEM exhibitors and will be considered during judging.
7. For the purposes of Kansas 4-H STEM, NO rocket may be launched using engines totaling more than an 'I' impulse engine or 640 Newton-seconds of total thrust.

C. Exhibit Rules for ALL rocketry categories

These rules apply to how rockets are to be displayed at the fair and what those displays should and should not contain. These rules apply to all rockets displayed in the STEM division.

1. 4-H members must be currently enrolled in the 4-H STEM-Rocketry program to exhibit in this division.
2. Entries must have been selected at the county level for entry at the State Fair. Counties/Districts should select top blue or purple ribbon rocketry exhibits which meet Kansas State Fair guidelines.
3. Each exhibitor may enter up to two rocket exhibits that have been constructed during the current year. If two rockets are entered, one rocket must be a "model rocket kit" or the second may be entered into any other applicable class. An exhibitor may not enter two rockets in the same class.
4. The report that accompanies the rocket must be limited to the 4-H STEM Rocket Exhibit Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the rocket stand or rocket. The information form should be signed by the exhibitor. This may be downloaded from www.STEM4KS.com. Any rocket exhibit not including this completed envelope will receive an automatic participation ribbon.

5. Plans (or a photocopy) must be placed inside the envelope:
 - a. This includes original design rockets.
 - b. If a rocket kit has been modified structurally (Which must provide all necessary details to construct an original design rocket.), notations need to be given indicating the changes made, either by notations on the Rocket Exhibit Information Form or by placing notes in the plans. Such modifications require the rocket to be swing tested and documented to show a stable flight.
6. One or more photographs of the rocket during construction and at the launch site are required:
 - a. Photographs showing the rocket at the moment of ignition are preferred.
 - b. Photographs must be mounted on one side of 8 ½" x 11" page(s).
 - c. There must be at least 1 page of photos and no more than 5 pages of photos.
 - d. Include at least one photo showing rocket construction, preferably with the exhibitor included.
 - e. Do not include photos of members catching their rockets as they return to earth. This is an unsafe practice, and we do not recommend or condone this practice.
 - f. Pictures at the launch site are not required in the event of a burn ban.
7. To exhibit in this division:
 - a. The rocket must have been flown unless a burn ban is in effect.
 - b. Support rods must not extend past the tip of the highest nosecone on the model.
 - c. Support rods must remain in the upright position, 90 degrees to the display base, do not angle. If support rods are not perpendicular to the base, the judge should deduct two ribbon placings.
 - d. No model may be submitted on a launch pad
8. Launches should not be conducted in winds above 20 mph and will constitute a disqualification of rocket exhibit.
9. All rockets must have a safe method of recovery, e.g., parachute, streamer or tumble recovery. Any rocket without a recovery system will be disqualified.
10. The altitude achieved by the rocket is to be determined using a method other than estimation. Examples of accepted methods include altimeter, computer software, range finders, etc. If additional space is needed to show calculations of how the altitude was achieved one additional page may be added to the rocketry information pack.
11. Flight damage is to be documented by the participant on either the construction plans, an additional sheet of paper titled "flight damage" or the 4-H STEM Rocket Exhibit Information Form.
12. The judging of flight damage is to be secondary to all other aspects of the model and only then may it even be considered. However, under no circumstance may flight damage be grounds for disqualification.
13. Engines and igniters, under any circumstance, ARE NOT permitted with the exhibit and constitute an **immediate** disqualification.
14. If an engine becomes stuck, jammed, wedged, or in any other way permanently affixed in or to a rocket and cannot be removed from the rocket, the rocket will be subject to immediate disqualification. This is because it is not possible to make a full and immediate assessment of the safety of the rocket when it is being judged and safety is paramount.
15. Engines may not be used as display stands hollowed out or otherwise. Engines used as a display stand will cause the exhibit to be subject to immediate disqualification.
16. Rocket engines should not be used to join multi-stage rockets together.
 - a. Multi-stage rockets can be displayed without having the stages connected together. In that case the final stage (the one with the nose cone) should be placed on the display stand, and other stages with a loop of string to the display stand.
 - b. The different stages must be included to complete the rocketry exhibit, incomplete exhibits will be deducted at least one ribbon placing.
 - c. Use of any engines to join the stages together will be subject to immediate disqualification.
17. Multi-stage rockets can be flown using just the final stage and be considered fully flown.
18. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's rocket, at the judges' discretion, will receive a participation ribbon. All information necessary will be given to the NAR and/or TRIPOLI for investigation and possible revocation of membership.

D. Construction Rules for ALL Rockets

These rules apply to how rockets are to be displayed at the fair and what those displays should and should not contain. These rules apply to all rockets displayed in the STEM division.

1. Rockets are to be properly assembled according to the assembly instructions.
2. Beginner kits with prefabricated fin assemblies and pre-finished rockets requiring no painting are not acceptable and will be disqualified.
3. Plastic snap together fins and prefabricated fin assemblies that **do not** require fin alignment are not acceptable and will be disqualified.
 - a. This rule does not apply to plastic fins that must be manually aligned and do not utilize a fin alignment mechanism, including, but not limited to fin alignment rings or spacing blocks.
 - b. This rule does not apply to fiberglass, Kevlar, extruded foam, composite, or wood fins; especially when used for "through-the-wall" fin attachment techniques that are common in larger rockets.
 - c. In addition, plastic parts for decorative and mechanical purposes (i.e. decorative nozzles and moving landing struts) are not considered fins and can consist of plastic. Decorative nozzles, etc. need to be securely fastened and not pose a safety hazard.
 - d. Fin assemblies that are printed using a 3D printer are excluded from this rule. Though detailed instructions on the creation of the fin assemblies must be provided and an additional page of photos may be included to show the creation/printing of fin assemblies
4. Angles of fins must fall within a plus or minus 2 degree variation using an approved fin alignment guide (such as KSSTAC10). An official fin guide is available from www.STEM4KS.com
5. Fins should be rounded or streamlined according to instructions. If the other edges are rounded to reduce drag on all exposed sides, there should be no ribbon deduction, unless instructions indicate to leave flat, or instructions say to round and rounding was not done.
6. Fins and body tubes are to be sealed with sanding sealer and/or primer to eliminate the appearance of body grooves and wood grain.
7. Fins and launch lugs are to be filleted to reduce drag and properly secure them to the model.
8. Engine mounts are to be securely attached to the body tube.
9. Any seams on plastic parts are to be sanded smooth.
10. Body tubes/airframes/engine mounts can be made from suitable materials, including, but not limited to: reinforced paper, cardboard,

phenolic resin, specialized polymer resins, fiberglass, Kevlar, or other suitable structural materials. However, foam may not be used for external body or other external rocket parts.

11. The nose cone is to fit snugly but still allow for easy removal.
12. Exhibits must be uniformly painted and smoothly finished or finished as per rocket instructions, and have decals applied smoothly.
13. Non-standard surfacing (such as textured paint) may be used if directed by the instructions, this includes scratch-built rockets.
14. Models may not be judged based on their paint scheme (colors and placement on the rocket), with the exception of rockets that fit the definition of a 'scale model.' All other rockets do not have to follow the suggested paint scheme, allowing the 4-H'er to display maximum creativity in the finishing of their rocket. Under no circumstances is the weight given to the paint scheme to be sufficient enough, by itself, to move a non-scale model from one ribbon placing to another.
15. "Scale models" may be judged based on their paint scheme. The judge may deduct up to one ribbon placing for not following the paint scheme.
16. Scale Model Rockets are to be finished and completed with a majority (greater than 70%) of decals.
17. If a modification is made to the rocket, for example, adding a fin, a swing test must be conducted on the rocket, and the documentation provided. Failure to test and document flight stability following modifications will result in two ribbon placing deductions.

E. Model Rocketry Specific Guidelines (Ages 9 and older)

Model rockets are generally small-to-medium sized rockets that can be purchased at hobby stores that an individual(s) builds from parts similar to those found in model rocket kits.

1. Rockets classified as high or mid powered may not be entered in this category.
2. Each rocket must be able to stand freely by itself or be supported by a solid base, not to exceed 4-1/4" (four and one quarter inch) thick and 8" square. The exhibitor's name, county or district, and age must be labeled on the base. Rod materials should be sturdy, and not made of flimsy materials, such as coat hangers.
3. If the model rocket is greater than 4 feet tall it can be displayed without a base or displayed parallel to the ground with up to 3 notched blocks not to exceed 4" in height width and depth. The exhibitor's name, county or district, and age must be labeled on the base(s).
4. All exhibitors must comply with the NAR Model Rocket Safety Code that is in effect as of October 1st of the current 4-H year. However, in the event that there is a modification in this code, the STEM Action Team may review and implement the modified code.

F. Original Design Specific Rocket Guidelines (Ages 11 and older)

To allow for youth to develop their own rockets (model, mid, and high powered) in a safe manner that displays maximum craftsmanship.

1. Original design rockets cannot be a modification of a pre-existing kit and must be of original design.
2. Original design rockets must be designed by the exhibitor(s).
3. Original design rockets must include detailed instructions, so that someone could construct the original designed rocket just like a kit purchased at a store. Instructions can be as many pages as needed to convey full and complete construction techniques.
4. Original design rocket instructions should not include copies of instructions in part or in whole from existing kits.
5. For a rocket entered in the original design classes, describe in the summary how the rocket was tested for stability prior to flying. Swing testing of the rocket is required. Other tests and calculations are encouraged. Exhibitors must include documentation of the swing test. Failure to swing test a rocket will result in a deduction of TWO ribbon placings.
6. A minimum of one additional page must be added to the rocketry information pack detailing the test(s) performed to insure stability. 4-H'er's are strongly encouraged to provide as much detail as possible. Failure to provide adequate written documentation will result in a disqualification.

Scoresheets, Forms, and Contest Study Materials:

- [Rocket Fin Guide – Up to 8 Fins](#)
- [Rocket Fin Guide – 3 Wings](#)
- [Rocket Fin Guide – 5 Wings](#)
- <https://STEM4KS.com/>

Resources:

- Project Area – [STEM Rocketry](#)

CLASSES

Division AA- Exhibitors 7 through 8 years old (county only)

5519a Rocket made from kit, without pre-assembled fin units. Include plans.

5519b Rocket made from "beginners kit." Include plans. Rockets in this class may have pre-assembled fin units. (This class is for first and second year 4-H members to explore the rocketry project).

5519c Scale Model Rocket made from kit, include plans.

Division A (Ages 9 – 13 years)

5520 Rocket made from kit. Include plans.

5537 Scale Model Rocket. Made from kit, includes plans.

Division B (Ages 11 – 13 years) 9 and 10-year-olds may not enter this class.

5521 Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans.

5538 Scale Model Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans and stability testing.

Division C (Ages 14 years and older)

5525 Rocket made from kit. Include plans.

- 5526 Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans.
- 5527 Rocket designed by exhibitor: that uses alternative skins; not merely a modification of an existing kit. Include original plans.
- 5539 Scale Model Rocket made from kit. Include plans.
- 5540 Scale Model Rocket designed by exhibitor: not merely a modification of an existing kit. Include original plans and stability testing.

Division D (Ages 11 years and older)

This class is designed to encourage teamwork among individuals and clubs to work on a rocket from the initial design to the finished product.

- 5530 Rocket designed by 2 or more exhibitors: not merely a modification of an existing kit. Include original plans.

Mid-power Rocketry (2x'D' to 'G' Engines) Guidelines:

Purpose: To allow for improved safety and judging of rockets that meet the requirements of 4-H mid-power rockets.

1. Exhibitors must be at least 14 years of age by January 1 of the current year.
2. The rules for ALL categories apply.
3. In addition to the information packet completed for all rockets, a high/mid power information form is to be completed and placed inside of the information packet. This may be downloaded from <http://www.kansas4-H.org/>. Click on KSF Packet link.
4. Exhibitors in this division must hold memberships in either NAR or Tripoli organizations.
5. The NAR Model Rocket Safety code applies to the construction and launching of all rockets displayed in this division. As such all exhibitors must comply with the NAR Model Rocket Safety Code that is in effect as of October 1st of the current year. However, in the event that there is a modification in this code the STEM Action Team may review and implement the modified code.
6. All rockets in this division are to be launched under adult supervision by the 4-H member who constructed the rocket.
7. High power rockets as defined above ('H' or 'I' engines) may not be launched in this division.
8. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High-Power Information Form. In the case where the launch was a public event a substitute to a copy of the waiver is the Range Safety Officers (RSO's) contact information.
9. Mid- Power rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 4-1/4" (four and one-quarter inch) thick and 8" square. The exhibitor's name, county or district, and age must be labeled on the base.

Division E (Ages 14 years and older)

- 5536 Mid-power rocket made from kit or original design.

High Power Rocketry ('H' or 'I' engines) Guidelines

To allow for improved safety and judging of rockets that meet the requirements of 4-H high power rockets.

1. Exhibitors must be at least 14 years of age by January 1 of the current year.
2. The rules for ALL categories apply.
3. In addition to the information packet completed for all rockets, a high-power information form is to be completed and placed inside of the information packet. This may be downloaded from www.STEM4KS.com.
4. Exhibitors in this division must hold memberships in either NAR or Tripoli organizations.
5. The NAR High Power Rocket Safety Code applies to the construction and launching of all rockets displayed in this division. As such all exhibitors must comply with the NAR High Power Rocket Safety Code that is in effect as of October 1st of the current 4-H year. However, in the event that there is a modification in this code the STEM Action Team may review and implement the modified code.
6. All rockets in this division are to be launched under adult supervision by the 4-H member who constructed the rocket.
7. For rockets launched using an engine(s) that have 160.1 ('H' engine or equivalent amount of smaller engines) Newton's-seconds or larger, adult supervision must be provided by an individual having at least a level 1 high power certification. The 4-H member should also hold or be attempting to attain their level 1 high power certification, and should include supporting documentation of such (a copy of Level 1 card is sufficient).
8. If according to Federal Aviation Regulations Part 101, a waiver is required to fly the rocket, a copy of that waiver is to be attached to the High-Power Information Form. In the case where the launch was a public event a substitute to a copy of the waiver is the Range Safety Officers (RSO's) contact information.
9. High Power Rockets may be displayed without a supporting stand. If a supporting stand is used, it is not to exceed 4-1/4" (four and one-quarter inch) thick and 8" square. The exhibitor's name, county or district, and age must be labeled on the base.

Division F (Ages 14 years and older)

- 5535 High power rocket made from kit or original design.

Recommended County Fair rules for Rocketry

This is a reduced set of rules for use at county fairs. The use of these rules is optional and left to the discretion of the county fairs. These are more simplistic rules that cover the most common scenarios that are likely to appear at county fairs. Youth who are eligible for the Kansas State Fair should read the Kansas State Fair rules for this division as the State Fair rules expect more from youth and set a higher bar as it is a state-wide event exhibiting the best from across the State of Kansas.

1. 4-H members must be currently enrolled in the 4-H Rocketry program to exhibit in this division.
2. All rockets displayed in this division must be constructed during the current 4-H year
3. If a rocket qualified for the Kansas State Fair, exhibitors should read the State Fair rules for the Rocketry division as they may be different from those at the county fair.
4. Each exhibitor may enter up to two rocket exhibits that have been constructed during the current year. If two rockets are entered, one rocket must be a "model rocket kit", the second may be entered into any other applicable class. An exhibitor may not enter two rockets in the same class.
5. 4-Hers are to complete and sign the rocketry information form, available from www.STEM4KS.com or your local extension office and attach it to a 10" x 13" "manila" envelope. The envelope should contain:
 - a. Instructions on how to construct the rocket

- b. Up to 5 pages of pictures from both construction and launch
 - c. Documentation of any flight damage that occurred
 - d. Any modifications made to the rocket
 - e. An additional page for altitude calculations if the space on the form is not enough.
 - f. Additionally, for original design rockets, also known as “scratch built” rockets:
 - g. 5 additional pages of photos are allowed
 - h. Documentation of how the rocket was tested for stability
6. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor’s rocket, at the judges’ discretion, will receive a participation ribbon.
 7. Rockets are to be displayed upright on a display stand with a sturdy rod that does not extend past the top of the rocket or stand unassisted, unless the rocket is taller than 4 feet in which case no display stand is required and the rocket may be displayed on its side, rockets are not to be displayed on launch pads to save space and prevent someone from being poked in the eye.
 8. Rockets ARE NOT to be displayed with used or unused rocket engines either in the rocket or as part of the stand, if rocket engines are included in the exhibit the judge may disqualify the exhibit.
 9. Rockets should be flown unless there is an active burn ban in the county or conditions are too dangerous to safely launch the rocket. Just flying the last stage (the part with the nose cone) of a multi-stage rocket is acceptable.
 10. Rockets, except those in the JR division, are not to be “beginner kits” or use prefabricated fin assemblies or pre-finished rockets requiring no painting, these are not acceptable outside the JR division, and should be disqualified
 11. Angles of fins must fall within a plus or minus 2-degree variation using an approved fin alignment guide (such as KSSTAC10). An official fin guide is available from www.STEM4KS.com.
 12. Fins and body tubes, except those in the introductory division, are to be filled and sealed with sanding sealer and/or primer or other suitable filler to eliminate the appearance of body grooves and wood grain.
 13. Fins and launch lugs are to be filleted to reduce drag and properly secure them to the model.
 14. Engine mounts are to be securely attached to the body tube.
 15. Any seams on plastic parts are to be sanded smooth.
 16. The recovery system (typically a parachute or streamer) should be attached according to the instructions
 17. The nose cone is to fit snugly but still allow for easy removal.
 18. Exhibits must be uniformly painted and smoothly finished or finished as per rocket instructions (for example, no painting required), and decals, if used, are applied smoothly.
 19. Models may not be judged based on their paint scheme (colors and placement on the rocket), except for rockets that fit the definition of a ‘scale model*’ and are entered in the scale model class. All other rockets do not have to follow the suggested paint scheme, allowing the 4-H’er to display maximum creativity in the finishing of their rocket. Under no circumstances is the weight given to the paint scheme to be sufficient enough, by itself, to move the non-scale model from one ribbon placing to another.
 20. “Scale models*” entered in the scale model class may be judged based on their paint scheme. The judge may deduct up to one ribbon placing for not following the paint scheme.
 21. “Scale Models*” displayed in the scale model class are to be finished* and completed with a majority (greater than 70%) of decals. For all other rockets the use of decals is optional.
 22. Original design rockets cannot be a modification of a pre-existing kit and must be of original design.
 23. Original design rockets must be designed by the exhibitor(s).
 24. Exhibitor(s) must be 11 years of age (4-H age) or older to enter an original design rocket.
 25. Original design rockets must include detailed instructions, so that someone could construct the original designed rocket just like a kit purchased at a store. Instructions can be as many pages as needed to convey full and complete construction techniques.
 26. For a rocket entered in the original design classes, describe in the summary how the rocket was tested for stability prior to flying. Swing testing of the rocket is required. Other tests and calculations are encouraged. Exhibitors must include documentation of the swing test. Failure to swing test a rocket will result in a deduction of TWO ribbon placings.
 27. A minimum of one additional page must be added to the rocketry information pack detailing the test(s) performed to insure stability. 4-H’ers are strongly encouraged to provide as much detail as possible. Failure to provide adequate written documentation will result in a disqualification.
 28. Rockets that use more than one ‘D’ engine or equivalent are considered mid or high-power rockets in 4-H.
 29. Mid and High-Power exhibitors must be at least 14 years of age by January 1 of the current year.
 30. In addition to the information packet completed for all rockets, a high-power information form is to be completed and placed inside of the information packet. This may be downloaded from www.STEM4KS.com
 31. Exhibitors in the mid and high-power divisions must hold memberships in either NAR or Tripoli organizations.
 32. The NAR High Power Rocket Safety Code applies to the construction and launching of all rockets displayed in this division. As such all mid and high-power rocketry exhibitors must comply with the NAR High Power Rocket Safety Code that is in effect as of October 1st of the current 4-H year.
 33. All rockets in the mid and high-power divisions are to be launched under adult supervision by the 4-H member who constructed the rocket.
 34. For rockets launched using an engine(s) that have 160.1 (‘H’ engine or equivalent amount of smaller engines) Newton’s-seconds or larger, adult supervision must be provided by an individual having at least a level 1 high power certification. The 4-H member should also hold or be attempting to attain their level 1 high power certification if launching on this large of an engine.

As defined by the National Association of Rocketry (NAR), a scale model is “any model rocket that is a true scale model of an existing or historical guided missile, rocket vehicle, or space vehicle.” The intent of scale modeling is, according to the NAR, “to produce an accurate, flying replica of a real rocket vehicle that exhibits maximum craftsmanship in construction, finish, and flight performance.” (NAR “Pink Book” 50.1 4-1)

DIVISION 41 - 4-H STEM – UNMANNED AERIAL SYSTEMS

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – May McKain

PREMIUMS: \$1.50, \$1.00, 50¢

Purpose: The 4-H unmanned aerial systems or UAS project explores the world from above the trees and discovers new frontiers with UASs. UASs are commonly known as Unmanned Aerial Vehicles (UAVs) or drones. Members explore the uses and applications of unmanned aerial systems including how UASs link to other projects such as geology, robotics, electronics, crop science and many more.

1. Read GENERAL RULES.
2. **Must be enrolled in specific 4-H STEM project to exhibit.**
3. Each exhibitor may enter one exhibit per class. Exhibit must have been completed during the current 4-H year and have been selected at the county level for entry at the State Fair level.
4. The information that accompanies the UAS must be limited to the 4-H STEM Exhibit Information Form which is affixed to a 10" x 13" envelope. This envelope should NOT be attached to the UAS. This may be downloaded from www.STEM4KS.com. Any UAS exhibit not including this completed envelope will receive an automatic participation ribbon. **All revisions of forms previously released for the STEM division dated prior to current year are void for use and new forms must be obtained and used that are dated by the Kansas State 4-H Office for the current year.**
5. Each exhibit MUST include a video of the youth operating their UAS. This allows judges to get a better understanding of the exhibit and allows the youth the opportunity to fully demonstrate their exhibit. The video should be no longer than 8 minutes and should be placed on the CD, DVD, USB drive, or similar.
6. Exhibitor's name, county or district, age, and years(s) in project must be tagged or labeled in a prominent location on the exhibit, educational display, notebook, and/or poster.
7. Unmanned Aerial Systems that include or depict weaponry of any kind will be disqualified.
8. If modifications are made to the exhibit a page should be attached noting those modifications.
9. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges' description, will receive a participation ribbon.

Scoresheets, Forms, and Contest Study Materials:

- <https://STEM4KS.com/>

Resources:

- Project Area – [STEM UAS](#)

CLASSES

Junior, 7-8 years old

- 5700a Unmanned Aerial System designed and constructed by exhibitor that is operated by a remote controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.
- 5700b Practical application of an Unmanned Aerial System constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

Intermediate Division (Ages 9 – 13 years)

- 5701 Unmanned Aerial System designed and constructed by exhibitor that is operated by a remote-controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.
- 5702 Practical application of an Unmanned Aerial System constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

Senior Division (Ages 14 and older)

- 5706 Unmanned Aerial System designed and constructed by exhibitor that is operated by a remote-controlled device. The UAS must not be a mere modification of an existing kit or plan. You may not exhibit a UAS that is purchased off the shelf in this class.
- 5707 Practical application of an Unmanned Aerial System constructed from a commercial (purchased) kit. This includes the UAS, plus one or more of the following: video, notebook, poster, display board, etc. This class is separate from educational exhibits. A tangible use would be mapping Russian olive trees, eroded soils, and bindweed in fields, etc. There are also many other non-agricultural UAS uses that would be appropriate for this class.

DIVISION 42 - 4-H STEM – EDUCATIONAL EXHIBITS – POSTERS, NOTEBOOKS, AND DISPLAY BOARDS

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: \$1.50, \$1.00, 50¢

Purpose: To allow 4-H members to explore STEM outside the bounds of traditional projects for rockets, robotics, astronomy, computers and unmanned aerial systems. All posters, notebooks and display boards are listed in this section and have been removed from the individual sections to save space.

Guidelines:

1. Read GENERAL RULES
2. Each exhibitor may enter one exhibit per class.
3. For notebooks, display boards, and posters, no additional exhibit information is required; no manila envelope is needed for these exhibits.
4. Exhibits are to have a **clear link to the STEM areas** of astronomy, computers, rocketry, robotics, or unmanned aerial systems, educational exhibits outside of these STEM areas should be displayed in the other program areas. Just because an educational exhibit relates to the broad concept of STEM does not qualify it to be displayed in the STEM Educational Exhibit area. Exhibits that do not clearly show a clear and direct relationship to the STEM project areas of Ag-Mechanics, ABC, Astronomy, Computers, Robotics, Rocketry, or UAS as previously defined will be disqualified.
5. Exhibits in posters, notebooks and display boards must contain substantial supporting educational materials.
6. Educational display boards, posters and notebooks should be creative and showcase details about the knowledge learned in the project during the current 4-H year. Value is placed on youth who can demonstrate how their skills have increased while completing the project. Each exhibit will be judged on uniqueness, creativity, neatness, accuracy of material, knowledge gained, and content. An exhibit judging score sheet will be available at www.STEM4KS.com. For example, a rocket that may have crashed and/or is highly damaged may be made into an educational display or poster that tells a great story with many lessons learned.
7. Follow copyright laws, citing all sources of information in a standard notation. Sources of information must be cited on the front of your exhibit, including all posters and educational display boards.
8. Educational displays are not to exceed a standard commercial 3'x 4' tri-fold display board. No card table exhibits will be allowed. Care should be taken to use durable materials that will withstand fair conditions.
9. "Construction Kits" that are part of Educational displays must be contained in cases (tackle boxes, sealable containers, etc.) that may not be larger than 1' X 2' X 2' and must have a latch which securely keeps all components contained in the "Construction Kits". Other components are to adhere to appropriate dimensions as stated elsewhere.
10. Educational Project notebooks must be organized in a 3-ring binder.
11. Any three dimensional poster or display board exhibits may not be thicker than 2".
12. Engines and igniters-for rockets ARE NOT permitted with the exhibit and constitute an immediate disqualification. This is for safety reasons and includes both spent and live engines.
13. Exhibitor's name, district, age, and year(s) in project must be tagged or labeled in a prominent location on the notebook, and/or "Construction Kit." For education displays and/or posters the exhibitor's name, district, age, and year(s) in project must be tagged or labeled on the back of the exhibit. Exhibit cards are not sufficient as they may be removed or repositioned for display. Failure to label an exhibit may result in one ribbon placing deduction.
14. Exhibits should possess the following qualities (in no particular order):
 - a. A Central theme
 - b. What you want others to learn
 - c. Be designed and constructed in a manner befitting the exhibit
 - d. Be something you are interested in
 - e. Be related to astronomy, computer systems, robotics, rocketry, or unmanned aerial systems
 - f. As well as those characteristics described above.
15. If a safety violation is noted by the judges, superintendent, or other staff, the exhibitor's exhibit, at the judges discretion, will receive a participation ribbon.
16. **4-H members must be currently enrolled in the specific 4-H STEM project to exhibit in this division.**

Scoresheets, Forms, and Contest Study Materials:

- www.STEM4KS.com

CLASSES

Astronomy – Junior Division (Ages 7-8)

5730a Junior Astronomy Educational Display

5730b Junior Astronomy Educational Notebook

5730c Junior Astronomy Educational Poster

Astronomy – Intermediate Division (Ages 9 – 13)

5731 Intermediate Astronomy Educational Display

5732 Intermediate Astronomy Educational Notebook

5733 Intermediate Astronomy Educational Poster

Astronomy – Senior Division (Ages 14 years and older)

5736 Senior Astronomy Educational Display

5737 Senior Astronomy Educational Notebook

3738 Senior Astronomy Educational Poster

Rocketry – Junior Division (Ages 7-8)

5741a Junior Rocketry Educational Display

5741b Junior Rocketry Notebook

5741c Junior Rocketry Poster Board

Rocketry – Intermediate Division (Ages 9 – 13)

5741 Intermediate Rocketry Educational Display

5742 Intermediate Rocketry Notebook

5743 Intermediate Rocketry Poster Board

Rocketry – Senior Division (Ages 14 years and older)

5746 Senior Rocketry Educational Display

5747 Senior Rocketry Notebook

5748 Senior Rocketry Poster Board

Robotics – Junior Division (Ages 7-8)

5756a Junior Robotics Educational Display

5756b Junior Robotics Educational Notebook

5756c Junior Robotics Educational Poster

Robotics – Intermediate Division (Ages 9 – 13)

5756 Intermediate Robotics Educational Display

5757 Intermediate Robotics Educational Notebook

5758 Intermediate Robotics Educational Poster

Robotics – Senior Division (Ages 14 years and older)

5761 Senior Robotics Educational Display

5762 Senior Robotics Educational Notebook

5763 Senior Robotics Educational Poster

Robotics Team Robotics Project

5766 Team Robotics Educational Display

5767 Team Robotics Educational Notebook

5768 Team Robotics Educational Poster

Computers – Junior Division (Ages 7-8)

5771a Junior Computer Educational Poster

5771b Junior Computer Display Board

5771c Junior Computer Notebook

Computers – Intermediate Division (Ages 9 – 13)

5771 Intermediate Computer Educational Poster

5772 Intermediate Computer Display Board

5773 Intermediate Computer Notebook

Computers – Senior Division (Ages 14 years and older)

5776 Senior Computer Educational Poster

5777 Senior Computer Display Board

5778 Senior Computer Notebook

Unmanned Aerial Systems – Junior Division (Ages 7-8)

5781a Junior Unmanned Aerial Systems Educational Poster

5781b Junior Unmanned Aerial Systems Display Board

5781c Junior Unmanned Aerial Systems Notebook

Unmanned Aerial System – Intermediate Division (Ages 9 – 13)

5781 Intermediate Unmanned Aerial System Educational Poster

5782 Intermediate Unmanned Aerial System Display Board

5783 Intermediate Unmanned Aerial System Notebook

Unmanned Aerial System – Senior Division (Ages 14 years and older)

5786 Senior Unmanned Aerial System Educational Poster

5787 Senior Unmanned Aerial System Display Board

5788 Senior Unmanned Aerial System Notebook

DIVISION 43 - 4-H VISUAL ARTS

Superintendent(s) – Michelle Wisbey, Megan Larson, Jennifer Mader, Traci Lambdin

Assistant Superintendent(s) – Landon and Troy Wisbey, Easton Klein, Izabella and Leena Larson, Bailey Mader, Colbey Hyde

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.

2. **A 4-H Member may have a total of 10 entries** (a set is considered a single item). Use each class number as many times as needed. List each exhibit separately on an entry card. The entries may be originals, kits or a combination of the two.

3. Name project on back of entry card and multi-piece items should be marked accordingly.

4. For Classes 4501-4505: Kits and preformed molds are not considered original and are not acceptable. Combining parts of different patterns (pictures, photographs, images from the internet or a magazine) with the member's own ideas can result in an original design, but simply changing the color, pattern, and/or size of a pattern does not make the design original. If you create a replica of what you see somewhere else (i.e. Pinterest), it is not your original design. If a photo, sketch, or other idea source was used, submit it with your entry, firmly attached to your exhibit. Kits and preformed molds are not considered original and must be entered in Class 4507.

5. For Classes 4506-4507: Exhibits can be from kits or art that has been created using ideas from others. If the exhibit is from a kit, please bring the kit instructions to the fair. This will help the judge understand the level of difficulty and level of creativity.

6. All pictures must be mounted on construction paper or mat board or can be framed.

7. **All exhibits which need to be hung (including all fine arts) MUST have a wire or saw tooth hanger attached (no string or tape) in order to be properly displayed.** Due to wind at the fair, display art in heavy frames.

8. **Must be enrolled in visual arts project to exhibit.**

9. Judging will be conference style judging on Monday before the fair in the Courthouse meeting room. Club judging times are:

1:30 p.m. Solomon Valley

2:00 p.m. Pleasant Valley

2:30 p.m. Livewires

2:50 p.m. Woodsdale

10. After an exhibit has been judged, those items receiving a blue, red, or white ribbon must be taken to the fairgrounds by the exhibitor on Tuesday. Ribbons will be placed on entries once they are in place at the fairgrounds on Tuesday. Purple exhibits will remain at the courthouse until all visual arts judging is completed.

11. No plants or plant materials needing watering can be entered as an art display or item.

12. Exhibits must be made by the 4-H Member in the current 4-H year.

13. For the Kansas State Fair:

- Each county may submit one entry from each of the five categories (Fine Arts, Clay and Ceramics, Leather and Jewelry, Three-Dimensional, and General Crafts).
- A member may display only one visual arts item at the state fair.
- All visual arts exhibits are evaluated using a visual arts rubric, which takes into account correct use of design elements, craftsmanship, and creativity.
- Large art items will not be accepted. Exhibits must be of manageable size and be easily transported and displayed by one person.
- Art Release Form covers items while on display at Rock Springs and must accompany art exhibit to be considered for Rock Springs display.
- All exhibits are entered at your own risk. Art Release Form covers items while on display at Rock Springs.

Scoresheets, Forms, and Contest Study Materials:

- [Kansas 4-H Visual Arts Scoresheet](#)

Resources:

- Project Area – [Visual Arts](#)

CLASSES

- 4501 Fine Arts: Oil, chalk, charcoal, dyes, pastels, pencil, ink, acrylic, or watercolor on canvas, canvas board, paper, wood, metal, or textiles, framed as a picture, prepared for hanging. Stretched canvas art on a wooden frame is considered prepared for hanging provided that frame has a hanger.
- 4502 Clay and Ceramics: Any original item made of clay; may be fired or unfired, hand formed, or thrown on a wheel. Self-hardening, fire/oven-cured, and/or cornstarch clays are acceptable. Items can include, but are not limited to, clay statues, bowls, etc.
- 4503 Leather and Jewelry: Any leather stamping, carving, tooling, lacing, or stitching piece or any jewelry piece made from any medium are acceptable exhibits.
- 4504 Three Dimensional: The piece must be observable on at least three sides and should be either free-standing or prepared to be hung. Craft and pre-formed or assembled projects are not acceptable.
- 4505 General Crafts: This category incorporates miscellaneous pieces that do not correspond to the four, above-mentioned categories.
- 4506 Visual Arts – Misc. item (county fair only)
- 4507 Visual Arts - Made from kit (county fair only)

DIVISION 44 - 4-H WILDLIFE

Superintendent(s) – Clara Mull and Cindy Boucek

Assistant Superintendent(s) – Georgia Rolph

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. A MEMBER MAY MAKE ONLY ONE ENTRY PER CLASS.
3. Name, county or district, age and year in project should be in a prominent location on the exhibit.
4. Types of exhibits in this division are open to educational or creative displays, educational posters or notebooks.
5. Take care to select durable materials to withstand fair conditions. No card table exhibits are allowed.
6. If the exhibit is a poster, it must not be larger than 22" x 28".
7. **EXHIBITORS MUST COMPLY WITH STATE AND FEDERAL LAWS. It is illegal to possess threatened or endangered wildlife, or the feathers, nests, or eggs of non-game birds. Game birds and game animals taken legally during an open season may be used. The use of live wild animals in educational exhibits is prohibited.**
8. 4-H exhibitors (individuals or groups) should avoid using copyrighted and/or trademarked materials whenever possible by originating own work. Copyrighted and/or trademarked materials used in display or posters for endorsement or promotion instead of educational purposes will be disqualified and will not be displayed or receive ribbons and premium.
9. **Must be enrolled in the wildlife project to exhibit.**

Scoresheets, Forms, and Contest Study Materials:

- [Educational Display Score Sheet](#)
- [Promotional Poster Score Sheet](#)

Resources:

- Project Area - [Wildlife](#)

CLASSES

- 5400 Notebook. Contents pertain to some phase, results, story or information about the wildlife project.
- 5401 Promotional Poster. Must be related to something learned in the wildlife project. (Flat poster board or foam board no larger than 22" x 28").
- 5402 Educational Display. Must be directly related to the wildlife project. Maximum tri-fold size is 3' x 4'.
- 5403 Taxidermy/Tanning Exhibit. Should include an attachment that shows the work in progress through photos with captions, or a detailed journaling of the process.

DIVISION 45 - 4-H WOOD WORKING

Superintendent(s) – Curtis McKain

Assistant Superintendent(s) – Clara McKain, Zeb Larson

PREMIUMS: \$1.50, \$1.00, 50¢

1. Read GENERAL RULES.
2. Each exhibitor is limited to a total of 3 entries.
3. The entry card, plans, and all other paperwork should be enclosed in a zip top plastic bag with a hole punched through it and tied or otherwise secured to the project in some manner. Tape is usually not adequate to accomplish this.
4. All entries must be a product of current 4-H year.
5. The plan from which it was constructed must be with the article exhibited. The plan may be a photocopy, the actual pattern, or a scale drawing. It must be complete and accurate to the extent that a duplicate article could be built using the plan as a guide.
6. Refinished/repaired furniture should be exhibited in Home Environment only.
7. In judging woodwork articles consideration will be given to: Workmanship, including accuracy to the plan; Design; Choice of wood; Suitability and quality of finish; and Usefulness.
8. Unfinished projects such as sticky finish may be rejected by superintendent's decision
9. Projects with missing or insufficient plans will be lowered one ribbon placing (i.e. a blue ribbon exhibit will receive a red ribbon.)
10. The use of materials other than wood should be kept to a minimum.
11. **Exhibits Eligible for State Fair:** Projects made from pre-cut kits are not allowed.
12. **Must be enrolled in woodworking project to exhibit.**
13. Firearms and weapons are not to be entered or displayed.
14. Projects that have unsecured glass, i.e., glass shelves, glass top of a coffee table, etc., should not be brought to the fair. Glass that is secured in the project, i.e., glass front of a gun case or cabinet, etc., is permissible since it cannot be easily removed.
15. **In order to enter an exhibit that was made in school, one exhibit must also be entered as not made in school (i.e., at home). This would mean a 4-H member must have two exhibits in this division in order to enter an item that was made in school. If this rule is not met, the exhibit entered will be automatically deducted one ribbon placing.**
16. **The entry card must indicate if the item was made in school or not made in school.**
17. Exhibits must be entered by 12:00 p.m. noon on the first day of the fair.

Scoresheets, Forms, and Contest Study Materials:

- [Kansas 4-H Woodscience Scorecard](#)

Resources:

- Project Area - [Woodscience](#)

CLASSES

- 4699 Any item made from a pre-cut kit (County Only)
- 4700 Article for farm or shop use
- 4701 Furniture for household or lawn use
- 4702 Other woodwork. Articles not included in above classes. Examples: bird houses, bird feeders, household equipment such as knife racks, bread boards, door stops, etc.

DIVISION 46 - FFA AGRICULTURAL MECHANICS PROJECTS DIVISIONS

Superintendent(s) – Gavin Fry
Assistant Superintendent(s) -
Read GENERAL RULES.

1. All entries must have been constructed or repaired by a high school Ag Education student or FFA member.
2. Exhibitor must reside in Ottawa County or attend a high school in Ottawa County.
3. Bill of Materials or shop bill is not required.
4. The final decision for the classification rests with the fair officials.
5. All projects must be displayed in a safe manner.
6. A Grand Champion and Reserve Grand Champion will be selected. Ribbons will be awarded.
7. The Grand Champion and Reserve Grand Champion projects will have the opportunity to participate in the fair premium auction and must be exhibited by an FFA member.

CLASSES

- 01 Micro Projects (\$149 and under); Premiums – Blue \$5.00, Red \$3.00, White \$2.00
- 02 Small Projects (\$150 to \$999); Premiums – Blue \$10.00, Red \$7.50, White \$5.00
- 03 Intermediate Projects (\$1,000 to \$1,999); Premiums – Blue \$20.00, Red \$15.00, White \$10.00
- 04 Large Projects (\$2,000 to \$2,999); Premiums – Blue \$25.00, Red \$20.00, White \$15.00
- 05 Extra Large Projects (\$3,000 and up); Premiums – Blue \$25.00, Red \$20.00, White \$15.00
- 06 Repair Projects; Premiums – Blue \$25.00, Red \$20.00, White \$15.00