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**WELCOME TO
2019 MERRICK COUNTY FAIR
JULY 27-31
4-H, FFA & OPEN CLASS EXHIBITS**

**YOUR MERRICK COUNTY AGRICULTURAL
AND FAIR ASSOCIATION**

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Isaac Jefferson.....Vice President
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Tammy Stuhr, Extension Educator
Steve Melvin, Extension Educator
Cindie Hostler, Office Manager
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Sherry Siwinski, Office Aide

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Abbi Wegner, JL At-Large Representative

Merrick County Fairboard Office-308-940-0884

Merrick County Extension Office-308-946-3843

**RULES AND REGULATIONS
MERRICK COUNTY'S 66th
FREE FAIR**

1. Exhibits will get their entry card at each department where they wish to enter articles.
2. Open Class entries should be made Sunday, July 28, 1:00 - 4:00 p.m.
3. 4-H exhibits will be entered on Sunday, July 28, 1:00 p.m. - 4:00 p.m.
 - Youth hogs must be in place by 11:00 a.m.
 - Youth poultry and rabbits must be in place by 1:00 p.m.
 - Youth sheep and goats must be in place by 1:00 p.m.
 - Youth market beef must be in place by 3:00 p.m.
 - Youth breeding beef and bucket calves must be in place by 4:00 p.m.
4. Individuals or firms will be permitted to enter as many animals as they wish in any one Open Class.
5. No ribbon will be given out until animals are properly checked-in with the superintendent of that area. Animals judged according to merit.
6. All livestock owners will have their pens cleaned by 7:00 a.m. each day and put pen cleanings in the designated area.
7. Articles or livestock shown at previous fairs or not handcrafted by the exhibitor will not be eligible for exhibit.
8. Exhibit building will be open Monday, Tuesday and Wednesday from 8:00 a.m. - 10:00 p.m.
9. 4-H and Open Class exhibits will be released from 7:00 a.m. - 10:00 a.m. on Thursday. Premiums will be paid at that time for Open Class only.

IF YOU WANT SPACE

Either for exhibits or commercial booths, arrangements must be made at once! Even if you had a booth or exhibit last year, you must make a new reservation this year. Contact Laurie Johnson (308-940-3121) at once!

4-H AND FFA DEPARTMENT

1. It is the policy of the University of Nebraska - Lincoln, Institute of Agriculture and Natural Resources and Merrick County 4-H Council not to discriminate on the basis of sex, age, handicap, race, color, religion, marital status, veteran status, national or ethnic origin or sexual orientation.
2. All exhibits are at the exhibitor's risk. The Merrick County Ag Society and Merrick County 4-H Council are not responsible for any damage, loss or death to an exhibit or animal.
3. If a project item or animal is shown at another county fair as a 4-H, FFA or Open Class project it is NOT eligible for competition in Merrick County. It will be disqualified.
4. Judges will place awards on the basis of merit. They will be instructed to use the group method similar to the plan followed by the Nebraska State Fair, whereby exhibits of nearly equal merit will receive equal ribbons.

Purple - Superior
Orange- Flops

Blue - Excellent
Lime Green- Afterschool Project

Red - Good

White - Needs Improvement

- The judges decision will be final in all classes. Awards will be given according to the rules and regulations set forth in this premium list.
5. 4-H AGE REGULATIONS - The age regulations for Merrick County 4-H membership as determined by the Merrick County 4-H Executive Council shall be that a member must be 8 years of age before Jan. 1 of the current year (turn 9 during the current year) and the last year of eligibility is 4-H age 18 on Jan. 1 (or the calendar year the member becomes 19).
 6. FFA members may exhibit livestock until the age of 21.
 7. 4-H and FFA members show together in livestock, crops and plant science. The total number of animals shown is indicated at the beginning of each species area. 4-H and FFA will follow the rules according to this fairbook.

CLOVER KIDS GUIDELINES:

- a) The 4-H Clover Kid Program is for youth between the ages 5 - 7 years old by January 1 of the current calendar year. 4-H Clover Kid exhibitors must be enrolled as a 4-H member by June 15..
- b) Clover Kid animal exhibits are to be no more than six months of age and no more than 350 pounds at time of show, with the exception of small animals (dog, cat, etc.) Age, size, and temperament of animal projects must be appropriate for the exhibitor's age and size. Clover Kids will only show in showmanship classes, no market or breeding classes. The horse project is not available for Clover Kids.
- c) Clover Kids may exhibit at the county fair and participate in 4-H contests receiving special ribbons with a premium of \$1.00. However, they will not be eligible for participation in the Livestock Sale, and will not be considered for any incentive, championship, trophy, medal or plaque competition on an individual basis. They will be considered as part of a club or group competition in such activities as booth, herdsmanship or performing arts contest.
- d) Clover Kids have a section where all of the projects are appropriate for their age, this section can be found on page 63.

ELIGIBILITY REQUIREMENTS FOR EXHIBITORS: An exhibitor must be a 4-H member enrolled in the project they are exhibiting.

8. All 4-H exhibits that do not conform to the specifications, rules and regulations set forth in this premium list will drop one ribbon placing.
9. Be sure to check the number of entries per project and entry number for each division. **All divisions and sections other than livestock have only one entry per class number.**
10. Premiums will be paid when the 4-H member submits a completed Record Book/Career Portfolio to the Extension Office. Records are DUE in the Extension Office, October 1. Premium money will be available at the year-end 4-H Achievement Celebration. If premium money is not picked up by December 1, monies will be turned back to the Merrick County Ag Society.
11. An * indicates an exhibit is eligible for State Fair. All items eligible for State Fair must receive a purple ribbon. In classes where presence of the 4-Her is required for judging purposes, such as animal exhibits, judging contests, presentations, and fashion show, a 4-H member must be 10 years of age by January 1, of the current year, or become 11 years of age during the current year. The last year of eligibility is the calendar year the member becomes 19 years of age.
12. All exhibitors showing beef, dairy, meat goat, sheep, hogs, rabbits, poultry, cats, dogs and other small animals are required to wear the required 4-H/FFA T-Shirt. Exhibitors in the horse show will wear a white long sleeve shirt or blouse, and a 4-H armband. The 4-H armband may be purchased for \$3.00. Exhibitors of beef, dairy, meat goat, sheep, hogs, dogs, rabbits, poultry, cats and other small animals will show without any hats, caps or other headgear.
13. An exhibit or exhibitor must be at least blue ribbon quality before a rosette or award is awarded, and the judge must deem it worthy of the award.
14. Substance Abuse - Use or possession of tobacco, alcoholic beverages or drugs (except for medical purposes) by any exhibitor who is participating in 4-H/FFA at the Merrick County Fair will result in immediate disqualification of that exhibitor's entry.
15. PROTESTS
 - a. The respective division superintendent has the authority to make appropriate decisions based on the Premium List, and these will be adhered to by all.
 - b. A committee shall be appointed to serve as a protest group. They will meet daily if needed to act upon concerns. All protests must be submitted in writing and signed.
 - c. Written protests must be submitted to the Extension Educator. He/She will then convene the committee for their deliberation.
 - d. The written protest must include:
 - i. Names of persons involved.
 - ii. Nature of concerns.
 - iii. Situation and documentation.
 - iv. Recommendations for correction.
 - v. Specific action, rule, etc. in question.
 - vi. Additional persons committee may contact for further clarification.
 - vii. Procedures and/or steps carried out by person involved prior to submission to the Extension Educator.
 - e. The committee will review the written protest. They may discuss the situation with affected persons and show official to include county fair management if appropriate, to make a final decision. The committee will recommend appropriate action to management in writing. The recommendations will be followed and communicated both verbally and in writing to the group or individual affected.

- f. In case of protest the exhibitor may be allowed to show, but results of showing will be subject to change based on the outcome of the protest process. This allows for smooth operation of the show and facilitates appropriate processing.
- g. The management reserves the right to withhold premium and/or award. The exhibitor may also be excluded from the show if action warrants.
- h. The appeals process is limited to the 4-H exhibitor, parent or volunteer leader.
- i. Protests will not be accepted after the exhibit is released from the 4-H Division.

4-H PRE-FAIR ACTIVITIES AND 2019 MERRICK COUNTY FAIR

Feb. 7 (Thurs.)	6:00 p.m.	Junior Indoor Archery Contest - 4-H Building
Feb. 14 (Thurs.)	6:00 p.m.	Intermediate & Senior Indoor Archery Contest - 4-H Building
April 8 (Mon.)	6:30 p.m.	Public Speaking & PSA Contest - 4-H Building
April 14 (Sun.)	4:00 p.m.	BB Gun, Air Rifle and Air Pistol Contests - 4-H Building
April 15 (Sun.)	5:00 p.m.	DUE State Fair/Ak-Sar-Ben Market Beef DNA Envelopes - Extension Office
April 27 (Sat.)	1:00 p.m.	Shotgun Contest - Sportsman's Club
May 10 (Fri.)	5:00 p.m.	DUE State/District Horse Entry Forms, ID's and Levels Testing - Extension Office
May 20 (Mon.)	6:00 p.m.	Performing Arts & Presentation Contests - Cottonwood Estates, Central City
June 14 (Fri.)	5:00 p.m.	DUE ALL State Fair Livestock DNA Envelopes (except Market Beef) - Extension Office
	5:00 p.m.	DUE ALL Required County Animal ID's, YQCA (Youth for the Quality Care of Animals) - Extension Office
July 10 (Wed.)	5:00 p.m.	DUE ALL Static, Animal, Clothing Pre-entries - Extension Office
July 13 (Sat.)	8:00 a.m.	Hunting Skills Contest - Fairgrounds
July 13 (Sat.)	9:00 a.m.	Outdoor Archery Contest - Fairgrounds
July 20 (Sat.)	9:00 a.m.	Bicycle Rodeo Contest - Fairgrounds
	1:00 p.m.	Ice Cream Roll Contest - 4-H Building
	3:00 p.m.	Culinary Challenge (Favorite Foods Revue) Contest - 4-H Building
July 23 (Tue.)	8:00 a.m.	Clothing Construction & Fashion Show Judging - 4-H Building
	7:30 p.m.	4-H Night - 4-H Building
July 27 (Sat.)	7:00 a.m.	4-H Horse Show - Indoor Arena
July 28 (Sun.)	8 a.m.-11 a.m.	Hog Weigh-in & Check-in
	11 a.m.-1 p.m.	Poultry & Rabbit Check-in
	11 a.m.-1 p.m.	Sheep & Goat Weigh-in & Check-in
	1 p.m.-3 p.m.	Market Beef Weigh-in & Check-in
	1 p.m.-4 p.m.	Static Exhibit Check-in
	1 p.m.-4 p.m.	Bucket Calf Check-in, DUE Clover Kids Record/Story
	1 p.m.-4 p.m.	Breeding Beef Check-in, DUE Beef Production Books
	5:00 p.m.	Livestock Judging Contest
July 29 (Mon.)	7:30 a.m.	Hog Show: 4-H Showmanship, Clover Kids, FFA Showmanship, Market, Breeding - Indoor Arena
	9:00 a.m.	Rabbit Show, Poultry Show immediately following - Poultry & Rabbit Barn
	1:30 p.m.	Sheep Show: 4-H Showmanship, Clover Kids, FFA Showmanship, Market, Breeding - Indoor Arena
		Meat Goat Show immediately following: 4-H Showmanship, Clover Kids, FFA Showmanship, Market, Breeding - Indoor Arena
	4:00 p.m.	Dairy Show: 4-H Showmanship, Clover Kids, FFA Showmanship, Breeding - Indoor Arena
July 30 (Tue.)	7:30 a.m.	Beef Production Judging - Extension Office & Livestock Barn
	8:00 a.m.	Beef Show: 4-H Showmanship, FFA Showmanship, Clover Kids, Bucket Calves, Market, Feeder Calves, Breeding, Fitting Contest - Indoor Arena
July 31 (Wed.)	8:00 a.m.	4-H Dog Show - Check in begins in the Annex Building
	9:30 a.m.	FFA Tractor Driving Contest - Northwest corner of Fairgrounds
	11:00 a.m.	County Kid's Pet Show Sponsored by Merrick County 4-H Jr. Leaders. Any child may bring any pet to show. Show will be held on the concrete of the indoor arena. Please register pet 15 minutes prior to the show. Pets must be taken home immediately after the show.
	1:00 p.m.	Frog/Toad Jumping Contest Sponsored by Merrick County 4-H Jr. Leaders in front of old 4-H Building
	2:00 p.m.	4-H Cat Show, 4-H Companion Animal Show immediately following - Indoor Arena
	4:00 p.m.	4-H Overall Livestock Showman Contest - Indoor Arena
	5:45 p.m.	4-H & FFA Member Group Picture - Indoor Arena
	6:00 p.m.	Livestock Sale - Indoor Arena
August 1 (Thur.)	1 a.m.-10 a.m.	Release ALL Livestock
	6 a.m.-10 a.m.	Release ALL Poultry & Rabbit
	7 a.m.-8:30 a.m.	FREE EXHIBITOR & FAMILY BREAKFAST sponsored by Central City Area Chamber of Commerce
	8 a.m.-10 a.m.	Release ALL Static Exhibits
August 2 (Fri.)	8 a.m.-5 p.m.	Fair Recovery Extension Office Closed
Tentatively September 7 (Sat)	8:30 a.m.	Small Bore Rifle (.22) Contest and Pistol Pistol (.22) Contest - Sportsman's Club

SUPERINTENDENTS

Foods – TBD

Beyond the Needle – TBD

STEAM Clothing 1 & 2 – Candice Muller

STEAM Clothing 3 & Quilt Quest – Darcy Ray

Fashion Show – Kendra Jefferson & Jamie Wright

Home Environment – Lana Bushhousen & Sydney Bushhousen

Consumer & Family Sciences – Janice Stuhmer

Clover Kids – Nikki Ferraro

Agriculture, Environmental Science, Plant Science – Larry & Tracy Myers, Doug & Kelly McHargue

Horse – Russ & Carolyn Kucera

Trail Class – Violet Crouch

Hogs – Brian Jefferson & Isaac Jefferson

Sheep & Meat Goat – Craig Nelson & Jon Root

Beef – Kane Brandes & Ryan Kucera

Poultry & Rabbits – Gaylene & Wayne Bennett

Herdsmanship – Dylan Ferris

Cats & Companion Animal – Gaylene & Wayne Bennett

Dog – Kim & Travis Stuhmer

Overall Livestock Showman – Mikaela Wilshusen & Sara Umstead

Bicycle Rodeo – Brian Jefferson

BB Gun & Rifle – Ryan Zmek & Aaron Wells

Air Pistol & .22 Pistol – Brock Ekhoﬀ & Buck Umstead

Shotgun – Craig Nelson & Aaron Heins

Indoor Archery – Sara Umstead, Mike Siwinski & Aaron Blanchard

Outdoor Archery – Aaron Blanchard & Scott Goyette

Hunting Skills – Renee Ekhoﬀ

FFA Tractor Driving Contest – Gary Maresh

Livestock Judging Contest – Dennis Mottl, Juliana Kroeger, Darcy Ray & Jen Myers

FFA – Gary Maresh, Dennis Mottl, Juliana Kroger & Jessica Brondel

Air Pistol & Small Bore - Brock Ekhoﬀ & Buck Umstead

Indoor Archery - Sara Umstead, Mike Siwinski & Aaron Blanchard

Outdoor Archery - Aaron Blanchard & Scott Goyette

BB Gun & Rifle - Aaron Wells & Ryan Zmek

Hunting Skills - Renee Ekhoﬀ

Shotgun - Craig Nelson & Aaron Heins

**THANK YOU TO THE FOLLOWING BUSINESSES AND INDIVIDUALS FOR
SPONSORING TROPHIES, INCENTIVES AND SPECIAL AWARD**

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- Brandes Brothers
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- JAG Acres
- Kent and Lynda Frenzen
- Lone Tree Antique Tractor Club
- Marilyn Heins
- Lone Tree Towing
- Matt and Becky Mottl
- Merrick County 4-H Council
- Mid Nebraska Feeds
- Mr. K Angus, Kurt Kuhn
- NNTC Clarks
- Palser Service, Inc
- Silver Creek Insurance
- Subway
- Sullivan Agency

ENVIRONMENTAL EDUCATION & EARTH SCIENCE

Superintendents Larry Myers & Billy Jo Tomasek

- All exhibitors are encouraged to show, where applicable, evidence of their personal field experiences, study, or observations that relate to their exhibit. This helps judges understand what the exhibitor did and learned in the process that led to the exhibit. Show proper credit by listing the sources of plans or other supporting information used in exhibits.
- Exhibitor's name must be on the back or bottom of all displays so that the owner can be identified even if the entry tag becomes separated from the exhibit.
- The word "animal" or "wildlife" in the following instructions includes wild fish, amphibians, reptiles, birds, or mammals. Follow wildlife laws; example: wildlife laws do not allow collection of bird nests, eggs, or any of their parts.
- Board and Poster Exhibits - These are displays that show educational information about a topic of interest. Board exhibits can hold objects such as fishing equipment or casts of animal tracks. Mount all board exhibits on 1/4" plywood, masonite, or similar panel no larger than 24" X 24". Poster exhibits should be on regular poster sheets, no larger than standard size (22" X 28") but half size, 22" X 14", is recommended.

HARD LUCK CLASS ENVIRONMENTAL AND EDUCATIONAL SCIENCE

HL-900-01. An exhibit and a written story about any exhibit that did not turn out the way it was planned. Include what happened, what you learned and what you will do differently next time.

WILDLIFE- one entry per class number.

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00; White \$.50

***D-340-001.** Mammal Display

***D-340-002.** Bird Display

***D-340-003.** Fish Display

***D-340-004.** Reptile or Amphibian Display

Classes 1-4 are board or poster exhibits. Display may show any aspect of wildlife, wildlife habitat, or related conservation. Examples: Life history or other facts about one type of wildlife; how to manage wildlife on a farm or in town, managing habitat for one kind of wildlife; life requirements for one kind of wildlife during one season or through the year; wildlife behavior and habitats. For more ideas, refer to project booklets.

***D-340-005.** Wildlife Connections - Board or poster exhibit. The purpose of this display is to show inter-connections and related aspects among animals, plants, and other habitat components. All displays should show two or more interactions (connections) that occur between/among animals, or between animals and their habitat. Displays might show how animals interact with other animals, with people, or with their habitat. Examples: 1) Food chain display - use pictures, drawings, or other items to illustrate the source of food energy and where it goes - who eats whom or what. Use arrows to show the direction of the energy (food) flow. 2) Show the role of predators, scavengers, insect eaters, or others in nature. 3) Show how wildlife numbers (populations) change through the year. 4) Show predation, competition, or other behavior interactions of wildlife. 5) Choose one kind of wildlife and make observations through a season or year, keep notes of interactions, then make a display of what you saw.

***D-340-006.** Wildlife Tracks - Board or diorama-type box exhibit. Make a display of animal tracks using plaster-of-paris casts. For all options, include a brief description of your experiences in making the tracks so the judges' better understand what you did and learned. Positive casts (impressions as they would be in nature) are preferred, but not required. Option 1) should show plaster-of-paris tracks of five or more kinds of wildlife along with a picture or illustration of each kind of animal. Option 2) should show two or more plaster-of-paris tracks of one specific kind of wildlife and should include a picture or illustration of the animal, what the animal may eat, and what may eat the animal. Option 3) should show two tracks and include the animal's habitat needs including preferred food, shelter, water and space in addition to picture or illustration of the animal.

***D-340-007.** Wildlife Knowledge Check - use electrical circuits, pictures, or other methods of teaching wildlife identification or other wildlife related knowledge. Plan size and shape to facilitate transportation and display; maximum size 24 x 24 inches.

***D-340-008.** Wildlife Diorama - box must be no larger than 24" x 24". The exhibit might show grassland, prairie, agricultural, woodland, riparian (stream or river corridor), wetland, and/or other area with wildlife habitat. Example: show a large unbroken grassland or prairie for area-sensitive species such as meadowlarks, greater prairie-chicken, lark bunting, grasshopper sparrows, Ferruginous hawk, burrowing owl, horned lark, upland sandpiper, or pronghorn; AND/OR show an area interspersed with several habitats such as windbreaks, farm fields, woods, waste areas, ditches, and pastures for edge-adapted species such as white-tailed deer, Northern bobwhite, ring-necked pheasants, mourning doves, cottontail rabbits, fox, squirrels, Northern cardinals, or blue jays. Label the habitats displayed and show at least five kinds of wildlife in their proper habitats.

***D-340-009.** Wildlife Essay - learn how to share educational information by writing. Choose a conservation or wildlife topic that interest you and write an essay about it. For example, write about a particular species of wildlife that you have observed or about the values of wildlife. You might write about wildlife on a farm, in town, in a backyard, at a backyard feeder, or at other places. You might write about hunting, fishing, or ethics and proper behavior for hunting or fishing. The essay is between 100 and 1000 words long and typed, double spaced on 8 1/2" x 11" paper. You might use books, magazines, or personal interviews as resources, but you must give credit to all sources by listing them.

***D-340-010.** Wildlife Values Scrapbook - make a scrapbook about the various values of wildlife following guidelines in the Wildlife Conservation project booklet (4-H 125).

***D-340-011.** Wildlife Arts - the purpose of this class is to allow artistic exhibits that contain educational information about conservation and wildlife. Examples might include paintings, photographs, wood carvings, painted duck decoys, or songs or poems written by the exhibitor. Entries must be appropriate for fair display and no larger than 24" by 24". For example, paintings, or photographs should be displayed in notebook format or mounted on a sturdy display panel. All entries must include a title and brief explanation of the purpose or message (what is the exhibit meant to show).

WILDLIFE HABITAT- one entry per class number.

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00; White \$.50

***D-342-001.** Houses - Make a house for wildlife. Examples: birdhouse (bluebird, purple martin, wood duck, kestrel, barn owl, etc.) or bat house-insect houses. Make the house functional so that dimensions, hole size, etc. are appropriate to fit the intended species' needs. Indicate the kinds of animal(s) for which the house is intended. Also indicate where and how the house should be located for best use and any seasonal maintenance needed. Tips: check NebGuides on bird houses and shelves.

***D-342-002.** Feeders/Waterers - Make a bird bath or feeder. Examples: seed, suet, or nectar feeders. Squirrel feeder okay; no insect feeders. Indicate the kinds of animal(s) for which the feeder or waterer is intended. Make the feeder or waterer functional so that it fits wildlife needs. Also indicate where and how the feeder or waterer should be located for best use and how it should be maintained. Tips: check NebGuides on feeding birds.

***D-342-003.** Wildlife Habitat Design - Board or poster exhibit. Choose a backyard, acreage, or farm, and design a habitat plan to meet the food, water, shelter, and space needs of at least three kinds of animals you would like to attract. Draw an outline of the area and show what plants or other habitat will be provided. Indicate how the various parts of your plan provide the desired habitat needs. You might include an aerial photo of the area (if you have one).

HARVESTING EQUIPMENT- one entry per class number.

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00; White \$.50

***D-343-001.** Fish Harvesting Equipment - board exhibit. Display of equipment used in fish harvesting. Examples: fishing knots, hooks (with corks over ends for safety) and lures. Label all items displayed. Include a brief explanation of purpose of each item and when or where it is used in relation to other equipment. Indicate any personal experiences you've had with the item(s).

***D-343-002.** Build a Fishing Rod- Build your own fishing rod for exhibit and for fishing use. Rod building blanks and kits with instructions are available for this purpose. A fishing rod educational exhibit may not exceed 96 inches length. Exhibit must be mounted on a board and labeled with the member's name, county and class number.

Include with the exhibit the following items as a brief attachment:

1. Explanation of cost of materials/components, where materials/components were purchased, how made, and number of hours required for construction.
2. Identify all parts.

3. Necessary components which must be included are grip, line guides (based on manufacturer's specifications), guide wraps, and hook keeper. Reel seat needs to be aligned with guides, and guides aligned accurately downrod. Guide wraps of size A to D, nylon or silk thread.

Exhibit will be judged on: workmanship, labeling of parts (guides, etc.), correct information, and neatness.

***D-343-003.** Casting Target - make a casting target for exhibit and use, following guidelines in the project booklet, Fishing for Adventure manuals.

***D-343-004.** Wildlife Harvesting Equipment - Board exhibit. Display of equipment used in harvesting wildlife. Examples: expended ammunition casings (no live ammunition permitted), steel traps, hide stretchers, fleshers, etc. For displays of shotguns, rifles, or bows, use drawings or pictures. Label all items displayed. Include in your exhibit the purpose of each item, when or where it is used in relation to other equipment, and any personal experience you've had with the item(s).

***D-343-005.** Inventing Wildlife/Fish Harvesting Equipment, Aid or Accessory-Use engineering principles to invent or adapt equipment that helps you harvest fish or wildlife. This could include wildlife calls, adapted fishing pole for shallow water, a blind, decoys, etc... Share your drawing (or adapted plans), how the equipment works, how you tested it, and the results of testing your prototype and any adjustments you made.

TAXIDERMY- one entry per class number.

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00; White \$.50

***D-346-001.** Tanned Hides or Taxidermy - any legal fish, bird, or other wild animal properly processed by the member. NO requirements as to size or mounting. The exhibit should show the animal's name and include information about the exhibitor's personal field experiences, study, or observations that relate to the exhibit.

SHOOTING SPORTS- one entry per class number.

4-H Shooting Sports requires youth to be under the direct leadership of a certified 4-H Shooting Sports Leader in either shotgun, rifle (bb gun), archery, pistol, black powder/muzzleloader, and/or hunting skills. **No firearms can be entered as an exhibit; nor live ammunition; however information can be shared through pictures.**

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00; White \$.50

***D-347-001.** Shooting Aid or Accessory – Any item which helps the shooter/hunter better perform their sport, examples: rifle sling, kneeling roll, arm guard, shotgun vest, target boxes, shooting stick, etc... Include your design, or plans you adapted, what the item is and used for.

***D-347-002.** Storage Case – an item with the purpose to safely hold a firearm, bow, ammunition, and/or arrows, examples: soft sided shotgun case, quivers, firearm safe, Include your design, or plans you adapted. Explain how the storage case is used.

***D-347-003.** Practice Game or Activity – invent or adapt an activity to practice or teach a project skill. Include pictures of youth playing the game, testimonials for 4-H members who played the game, what skill is being worked on, and directions for the game. Explain how you came up with the game or adapted it to fit the needs of your group members.

***D-347-004.** Science, Engineering, Technology Advancements of Shooting Sports Essay or Display – Choose a specific area of shooting sports and share how it has advanced, include a timeline and photos or illustrations. Keep your topic narrow and manageable. Essays are limited to 1000 words and should be on 8 ½ x 11 paper.

***D-347-005.** Healthy Lifestyles Plan – Include a shooter's diet and exercise plan, and how the 4-H member will benefit or improve from following the plan. Ideally, the 4-H member would follow the plan and include some journal entries about adaptations or improvements made while following the plan.

***D-347-006.** Citizenship/Leadership Project – Share a display on a citizenship project or leadership project the 4-H member took on individually or with a group to improve some aspect related to 4-H Shooting Sports. Examples could be range development, conservation planting to attract wildlife, a camp, 4-H recruitment event. Include who benefitted from the project, what the 4-H member's role was, and any results.

***D-347-008.** Career Development/College Essay, Interview or Display – Research opportunities for careers related to this area or opportunities for college majors or college activities to help discover using project skills beyond a person's 4-H career. Essays are limited to 1000 words and should be on 8 ½ x 11 paper. Interviews need to include a picture of the interviewee in their work setting, questions asked, and a transcript of answers.

***D-347-009.** Community Vitality Display – Explore the difference shooting sports and hunting make in keeping Nebraska vibrant especially in rural areas. Present facts and research in an interesting way for the public to learn from.

***D-347-010.** Ag Literacy-Value Added Agriculture Interview or Research Project – Explore how traditional ag producers are adding value to their production agriculture operations through conservation efforts, hunting, raising pheasants, shooting sports related tourism, etc.... Present finding in an interesting way for the public to learn from.

OTHER NATURAL RESOURCES- one entry per class number.

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00; White \$.50

***D-361-001.** Design Your Own Exhibit in Natural Resources, Conservation, or Ecology. This class is for educational exhibits about natural resources, conservation, wildlife, or ecology that do not fit into other categories. Entries must be appropriate for fair display and no larger than 24"x 24". All entries must include a title and should be clear (a brief explanation or other method) about the intended purpose or message - what the exhibit is meant to show. Think about accuracy, creativity, educational value for viewers, and evidence of exhibitor's personal experiences and learning.

ENTOMOLOGY - one entry per class number.

- Specimens should be mounted properly and labeled with the location and date of collection, name of collector, and the order name. Follow mounting and labeling instructions in the old edition of the Nebr. 4-H Entomology Manual online as a PDF.
- Purchased insects and other insects not collected by the 4-Her can be included, but must have accurate labels and will not be counted in meeting minimum requirements for the exhibit.
- Boxes are preferred to be not more than 12" X 18".

PREMIUM: Purple \$2.50; Blue \$2.00; Red \$1.50; White \$1.00

First year exhibit limited to 4 entries, only one entry per class number.

***H-800-001.** First year project display shall consist of a collection of 25 or more different kinds (species) of insects representing at least 6 orders. Limit 1 box.

H-800-009. Killing jar without killing liquid (follow directions in manual)

H-800-010. Relaxing jar (follow directions in manual)

H-800-011. Spreading board (follow directions in manual)

H-800-012. Collecting net (follow directions in manual)

H-800-013. Sweep net (following instructions in manual)

H-800-014. Scrapbook of insect stories, pictures and news items.

H-800-015. Insect rearing cage

Second year, only one entry per class number

***H-800-002.** Second year project display to consist of a minimum of 50 kinds (species) of insects representing at least 8 orders. Replace damaged or poorly mounted specimens. At least 25 species must be present from after July 1 of the previous year. Limit 2 boxes.

PREMIUM: Purple \$4.00; Blue \$3.00; Red \$2.00; White \$1.00

Third year - only one entry per class number.

***H-800-003.** Third year or more project display to consist of a minimum of 75 kinds (species) of insects representing at least 10 orders. Replace damaged or poorly mounted specimens. At least 25 species must be present from after July 1 of previous year. Limit 3 boxes.

***H-800-004.** Special Interest or Advanced Insect Display - Educational display developed according to personal interests and/or advanced identification capability. This also is an opportunity to highlight favorite insects in a creative arrangement. Insects should conform to pinning and mounting standards as in Classes 1-3 and be protected in an insect box. Each specialty display should include names of the insects, interesting information about them, and why the display was made. Advanced identification collections should have insects grouped with labels that correspond with identification level (e.g. family, genus, species). A specialty collection may consist of insects by taxonomic group (e.g. butterflies, grasshoppers, dragonflies, scarab beetles) or by host, subject habitat (e.g. insect pests of corn, aquatic insects, insect mimicry, insect galls, insects from goldenrod, insect pollinators, etc.).

***H-800-005.** Insect Habitats- Habitats consist of any hand-crafted objects, made of natural or artificial materials, placed outdoors, which promote or conserve insects in the environment. Insects may include bee pollinators, butterflies, beneficial insects, etc. A one-page report describing activities must accompany the exhibit.

***H-800-006.** Macro Photography- Subjects should be insects, spiders or other arthropods, or any nests, webs or constructions they make. All exhibit prints should be either 8" x 10" or 8" x 11" and mounted on rigid, black 11" X 14" poster or matt board. Either orientation is acceptable. No frames or mat board framing is allowed. A caption of a few sentences should explain the subject, and be printed on white paper and glued below the print on the poster or board.

***H-800-007.** Insect Poster/Display Exhibits- Exhibits can be posters or three-dimensional displays, and artistic creativity is encouraged. Posters should be no larger than 22" x 28". They should be instructional and can be attractive and have pictures, drawings, charts, or graphs. Posters and displays may show any aspect of insect life, habitat, or related conservation or management. Examples include life history and other facts about an insect; insect anatomy; how to manage insects in a farm, home, lawn, or garden setting; experiences rearing one kind of insect; survey of an important insect; insect behavior (ex. nesting, finding food, mobility, defenses, etc.); habitats (e.g. forests, grasslands, wetlands, rivers, or lakes) and what insects are found there, etc. Three-dimensional displays, such as dioramas, sculptures, models or decorative boxes should have a page of explanatory information accompanying them and fit within a 22" x 28" area.

***H-800-008.** Reports or Journals Reports and journals should be in a 3-ring binder. A report may be informational, that is, an original article about a favorite insect, a history of insect outbreaks, diseases caused by insects, insects as food, etc. Or, it may be a research report about an investigation or experiment done in a scientific manner. It then should have a basic introduction of the insect studied, methods used, observations, and results of the project. Tables, graphs and images are helpful to include. A journal is an observational study over a period of time with personal impressions. It may cover watching changes in kinds of butterflies over the summer, rearing a specific insect from egg to adult, managing a beehive, observations of insects in a specific habitat, accounts of insect behavior in a forest or flower garden, etc.

FORESTRY- one entry per class number.

PREMIUM: Purple \$2.50; Blue \$2.00; Red \$1.50; White \$1.00

- The official reference for all forestry projects is the Tree Identification Manual (4-H 332) which is available from the Extension Office. Other helpful forestry references include Trees of Nebraska (EC 92-1774-X), Leafing Out (4-H431) and Plant a Tree (EC 17-11-80).
- Display "boards" must be made from wood or wood composite, e.g. plywood, fiberboard or masonite, 1/4" to 1/2" thick and no larger than 24" x 24". Display boards should be coated, e.g. painted or varnished on the sides to prevent warping.
- Display posters must be made from a material, e.g. foam board or poster board that will stand upright without buckling, and be no larger than 24" x 24".
- Display books must measure no more than 16" x 16". At least 5 of the 10 samples in Classes 2, 3, 4, and 6 must be from the list of 60 species described in 4-H 332. Samples must be from 10 different tree species. For example, Emerald Queen Maple and Crimson King Maple are both varieties of the same species (Norway Maple), and thus have the same genus and species name, i.e. *Acer platanoides*. All samples must be from trees, NO shrubs. If more than 10 samples are included in the display, only the first 10 samples from the current year will be judged. Remember that other general labeling standards apply. For example scientific names are always italicized or underlined. Also, the first letter of a Genus name is always capitalized. The first letter of a species name is always lower case. When required, always indicate complete scientific names (Genus and species) and common names, (e.g. Norway Maple) even when "variety names" are included. For example, the scientific name of Emerald Queen Maple is *Acer platanoides* and the common name is Norway Maple. "Emerald Queen" may be included as the variety name, but variety names are not required.
- How well the exhibitor follows written directions is an important factor in judging.

***D-320-001.** Design-Your-Own Exhibit - Prepare an educational exhibit about some aspect of trees, forests or forestry that is of special interest to you.

Possible topics include paper recycling, wildfire, forest products, forest wildlife or forest pests. The only requirement is that the display must be no larger than 24" x 24" x 24". Photographs, drawings, samples, charts, posters, etc. can be used but, include enough information to adequately explain the topic. Your display should be substantially different from other display classes. Be as creative as you like.

***D-320-002.** Leaf Display - the leaf display must include samples of "complete leaves" from at least 10 different tree species. The display must include at least two samples of simple leaves, compound leaves and conifer leaves. Leaves should be pressed, dried and mounted. Whenever possible, collect leaves from mature trees. Collect leaves any time after they have reached full size, usually beginning in early summer. Leaf samples should

be in good condition and representative of the average leaves on the tree. Keep in mind that shaded leaves are often much larger than normal. Carefully remove leaves from the twig with the entire petiole or rachis intact. After collection, fresh leaf samples can be temporarily stored within the pages of an old magazine, but they should be properly pressed and dried for display. Be sure to record pertinent information during collection. All collection must be done by the exhibitor. Leaves may be displayed in a notebook or on a display board. Any method may be used to mount leaves, e.g. wire, glue, tape, staples, plastic bags, but be sure all their features can be clearly identified. Each specimen should have a label listing the common name, scientific name, leaf type, leaf arrangement (for broadleaf trees) and leaf composition (for broadleaf trees), collector's name, collection date, collection location (be specific, state and county at a minimum). If a twig is included with a sample, indicate "twig included" on the label. For example, the twig may be included with an eastern red cedar sample because the leaves are very small and difficult to remove from the twig. Supplemental information, e.g. general uses, common products, fall color, etc., may be included to enhance educational value.

***D-320-003.** Twig Display - The twig display must include samples from at least 10 different tree species. The display must include at least two samples opposite and alternate leaf arrangements from broadleaf trees. Twig samples should be collected during the dormant season (November – April) when the buds are mature. Twig samples must be at least 6 inches long and exhibit buds. Leaves must be removed and side branches must be trimmed to less than 1 inch in length. All collection must be done by the exhibitor. Twigs must be mounted on a display board. Any method, e.g. wire, glue, tape, staples, plastic bags may be used to mount twigs, but be sure all features can be clearly identified. The non-terminal end must be cut at a slant so the pith can be seen. Label each specimen, showing the common name, scientific name, leaf arrangement (for broadleaf trees), collector's name, collection date, collection location (be specific including county and other relevant information). Supplemental information, e.g. general uses, tree characteristics, etc., may be included with the display to enhance its educational value.

***D-320-004.** Seed Display - The seed display must include seed samples from at least 10 different tree species. Tree seeds should be collected at the time of year when they mature, which varies widely depending upon tree species. For example Silver Maple seeds mature in May while red oak acorns do not mature until September. Seed samples should be free of insect or disease symptoms. Remember to display seeds, not fruit. For example, the seed of honeylocust is enclosed in a pod. Remove and display the seed, not just the pod itself. It is acceptable to display the fruit with the seed, but clearly label each. All collection must be done by the exhibitor. Seeds may be displayed in a variety of ways, e.g. mounted on a display board, displayed in jars in a rack, etc., but they must be securely mounted and easily viewed. Be as creative as you like. Label specimens and indicate common name, scientific name, type of fruit, if known (e.g. - samara, pod, nut, legume, etc.), collector's name, collection date and collection location (be specific, state and county at a minimum). Supplemental information, e.g. maturity date, average number of seeds in the fruit, etc., may be included with the display to enhance its educational value.

***D-320-005.** Wood Display - The wood display must include wood samples from at least 10 different tree species. Samples may be of any shape, e.g. sections from a board, wood cylinders turned on a lathe, horizontal or vertical cross sections of a small log with bark attached, etc., but all samples should be the same shape, e.g. all wood cylinders or all sections of a board. Each sample can be no larger than 4"x4"x4". Cut surfaces should be sanded to show the grain. Treating samples with a clear finish (no stain) is optional. All collection must be done by the exhibitor. Samples may be displayed in a variety of ways, e.g. mounted on a display board, displayed in a box or rack, etc., but they must be securely mounted and easily viewed. Be as creative as you like. The label for each sample must include; common name, scientific name, wood type (hardwood or softwood), collector's name, collection date and collection location (be specific, state and county at a minimum). Supplemental information, e.g. common products, density, etc., may also be included with the display to enhance its educational value.

***D-320-007.** Cross-Section - Display a disc cut from a tree species listed in 4H 332. The sample must be collected, by the exhibitor, within one year of the state fair judging day. The disc must measure 6 to 12 inches in diameter and 1 to 3 inches thick. The bark should be firmly attached, which may be difficult if the tree was dead when the disc was cut. Sand at least one side of the disc so the grain can be easily seen. If the disc is treated with a clear finish, both sides must be treated to minimize warping. As the disc dries, some cracking or checking can be expected and is allowed. The following parts must be clearly and accurately labeled on the cross section with pins, paper tags, or some other form of identification: pith, heartwood, sapwood, 1 growth ring (beginning to end), cambium, and bark. A separate label attached to the back of the disc must include the common name, scientific name, tree classification (softwood or hardwood), age (of cross section), collector's name, collection date, collection location (be specific, state and county at a minimum).

***D-320-008.** Parts of a tree - This project is only for ages 8-11- Prepare a poster, no larger than 24" x 24" that clearly identifies the main external parts of a tree (Trunk, Crown, Roots, Leaves, Flowers, Fruit, Buds, Bark). Identifying other internal parts, e.g. phloem, xylem, cambium, annual ring, pith, etc., is optional. Attach a separate label on the back of the poster that includes the exhibitor's name and age.

***D-320-006.** Living Tree Display – Display a living tree seedling, grown by the exhibitor from seed in the display container. The seed must be from a species listed in 4H 332. The seedling must be 60 days to 1 year old (at time of fair). The display container must contain at least 8 inches of soil (potting mix or suitable natural soil), have drainage holes and a drain pan to catch drainage water. A waterproof label must be attached and include; common name, scientific name, seed treatments (if any), planting date, emergence date, and exhibitor's name. Supplemental information about the tree, e.g. (where the seed was collected, growth measurements, uses for that species, etc.) may be included in an attached notebook, poster, etc. to enhance educational value. Supporting information will be an important factor in judging.

READING THE RANGE 1/USING NEBRASKA RANGE 2 - one entry per class number.

PREMIUM: Purple \$2.00; Blue \$1.50; Red \$1.00, White \$.50

- Individuals in Reading the Range (Unit 1) project may exhibit in Classes 1 through 8 and 10.
- Individuals in the Using Nebraska's Range (Unit 2) project may exhibit in any of the classes 1 through 10.
- Each exhibit must be properly identified with Unit and Class. All plant displays and display covers must be the result of the current year's work.
- Plant identification and lists of appropriate plants in each category grasses, forbs, shrub and grass-like plants) can be found in the Range Judging Handbook and Contest Guide (EC150, Revised July 2009), Common Grasses of Nebraska (EC170) and Common Forbs and Shrubs of Nebraska (EC118).
- For books, plants must be mounted on sheets that are no larger than 14" wide x 14" high. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Proper plant mount should include root as well as stem and leaf tissue. Exhibits will be judged based on completeness of plant mount, accuracy of identification, labeling, neatness and conformation to project requirements. Each completed mount must have the following information (see Extension office for example) in the lower right hand corner of the mounting sheet: 1) Scientific name (in italic or underlined), with authority, 2) Common name, 3) County of collection, 4) Collection date, 5) Collector's name, 6) Personal collection number, indicating order that plants were collected in your personal collection. 7) Other information, depending on class selected, i.e., value and importance, lifespan, growth season, origin, major types of range plants. This information should be typed or printed neatly.

***D-330-001.** Value and Importance for Livestock Forage and Wildlife Habitat and Food Book A collection of 12 different plant mounts, with 4 classified as high value, 4 as medium value, and 4 as low value for livestock forage, wildlife habitat, or wildlife food. Value and importance classifications can be found in the Range Judging Handbook and Contest Guide (EC150, Revised July 2009) on pages 3 through 6. Plants can

consist of any combination of grasses, grass like plants, forbs, or shrubs. Assemble plant mounts in order of high, medium, and low value and importance. Label each plant mount with its value and importance classifications for each of the three areas; Livestock Forage, Wildlife Habitat, Wildlife Food.

***D-330-002.** Life Span Book - collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses and forbs.

***D-330-003.** Growth Season Book - a collection including 6 cool season grass mounts and 6 warm season grass mounts.

***D-330-004.** Origin Book - a collection of plant mounts of 6 native range grasses and 6 introduced grasses. Introduced grasses are not from North America and often used to seed pastures.

***D-330-005.** Major Types of Range Plants Book - a collection of plant mounts of 3 grasses; 3 forbs; 3 grass-like; and 3 shrubs.

***D-330-006.** Range Plant Collection Book – A collection of 12 range plant mounts with something in common (i.e. poisonous to cattle, or historically used as food by Native Americans, or dye plants, or favorite antelope forage, etc.). Include a short paragraph in the front of the book which describes what the plants have in common and why you have chosen to collect them.

Displays- The purpose of the display is to tell an educational story to those that view the display. The display is a visual representation (pictures, charts, graphs) no larger than 28" by 28" on plywood or poster board. The display should be neatly titled. Make sure to label display with exhibitor's name, address, and county on back side.

***D-330-007.** Parts of a Range Plant Poster – Mount a range plant on a poster board. Label all the plant parts. Include the plant label in the lower right corner. Put your name and 4-H county on the back of the poster.

Boards- Boards should be no larger than 30" wide X 36" tall or if hinged in the middle a maximum of 60" wide x 36" tall. Boards should be adequately labeled.

***D-330-008.** Range Plant Board - will include 25 range forage species important to a particular county.

***D-330-009.** Special Study Board - a display of the results of a clipping study, a degree of use study or a range site study, etc.

***D-330-010.** Jr. Rancher Board - exhibit includes the ranch map with record book or an appropriate educational display on some phase of rangeland or livestock management.