

Department D

Environmental Education & Earth Sciences

All entries must be pre-entered on a General Entry Form at the York County Extension Office by the first Friday of July. All Exhibits will be judged on Wednesday of fair week in Ag Hall. Entries must receive a Purple ribbon at county fair and be selected to advance to State Fair.

Forestry

Pay Category 200

This category provides 4-H'ers an opportunity to prepare displays that shows their expertise in many aspects of forestry. Involvement in this category will lead to expansion of seed, twig, wood, leaf, and tree knowledge for 4-H'ers. In addition, participants would learn more about common Nebraskan trees. For more information about tree classification visit

https://4hcurriculum.unl.edu/index.php/main/program_project/65.

1. The official reference for all forestry projects is the [Tree Identification Manual \(4-H 332\)](#) which was recently revised and is available for purchase from UNL Marketplace. Other helpful forestry references include Trees of Nebraska (EC 92-1774-X), [Leafing Out \(4-H431\)](#) and Plant a Tree (EC 17-11-80).
2. 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 may be coated, e.g., painted or varnished, on both sides to prevent warping.

3. 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".
4. Display "books" must measure no more than 16" x 16".
5. At least 5 of the 10 samples in Class 2, 3, 4, and 5 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.
6. Due to emerald ash borer infestation, no true ash species (Green Ash, White Ash, Black Ash, or Blue Ash) may be included in any collections. Inclusion of a true ash species will result of the project being disqualified.
7. 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.

8. How well the exhibitor follows written directions is an important factor in judging.

D320001 - 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, wild fire, forest products, forest wildlife, or forest pests. The only requirement is that the display must be no larger than 24 inches by 24 inches by 24 inches. 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.

D320002 - 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.

- **Collection:** 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.

- **Mounting:** Leaves may be displayed in a notebook or on a display board. Any method may be used to mount leaves, ex. wire, glue, tape, staples, plastic bags, but be sure all their features can be clearly identified.
- **Labeling:** The label for each sample must include:
 1. Common name
 2. Scientific name
 3. Leaf type
 4. Leaf arrangement (for broadleaf trees)
 5. Leaf composition (for broadleaf trees)
 6. Collector's name
 7. Collection date
 8. 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.

D320003 - Twig Display The twig display must include twig samples from at least 10 different tree species. The display must include at least two samples of opposite and alternate leaf arrangements from broadleaf trees.

- **Collection:** 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.
- **Mounting:** Twigs must be mounted on a display board. Any method, e.g. wire, glue, tape, staples, plastic bags, etc., 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.
- **Labeling:** The label for each sample must include:
 1. Common name

2. Scientific name
 3. Leaf arrangement (for broadleaf trees)
 4. Collector's name
 5. Collection date
 6. Collection location (be specific, state and county at a minimum)
- Supplemental information, e.g. general uses, tree characteristics, etc., may be included to enhance educational value.

D320004 - Seed Display The seed display must include seed samples from at least 10 different tree species.

- **Collection:** 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 honey locust is enclosed in a pod. Remove and display the seed, not just the pod. It is acceptable to display the fruit with the seed, but clearly label each. All collection must be done by exhibitor.
- **Mounting:** 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.

- **Labeling:** The label for each sample must include:
 1. Common name
 2. Scientific name
 3. Type of fruit, if known (e.g. samara, pod, nut, legume, etc.)
 4. Collector's name
 5. Collection date
 6. Collection location (be specific, state and county at a minimum)

Supplemental information, e.g. maturity date, average number of seed in the fruit, etc., may be included to enhance educational value.

D320005 - Wood Display The wood display must include wood samples from at least 10 different tree species. Rev. 12/19/2014

- **Preparation:** 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 inches by 4 inches by 4 inches. 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.
- **Mounting:** 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.

- **Labeling:** The label for each sample must include:
 1. Common name
 2. Scientific name
 3. Wood type (softwood or hardwood)
 4. Collector's name
 5. Collection date
 6. Collection location (be specific, state and county at a minimum)

Supplemental information, e.g. common products, wood density, etc., may be included to enhance educational value.

D320006 - 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.

- **Labeling:** The following parts must be clearly and accurately labeled on the cross section with pins, paper tags, or some other form of identification:
 1. Pith
 2. Heartwood

3. Sapwood
4. One growth ring (beginning and end)
5. Cambium
6. Bark

• **A separate label** attached to the back of the disc must include:

1. Common name
2. Scientific name
3. Tree classification (softwood or hardwood)
4. Age (of the cross section)
5. Collector's name
6. Collection date
7. Collection location (be specific, state and county at a minimum)

D320007 - Parts of a Tree (This project is only for ages 8 – 11) Prepare a poster, no larger than 24 inches x 24 inches that clearly identifies the main external parts of any tree:

1. Trunk
2. Crown
3. Roots
4. Leaves
5. Flowers
6. Fruit
7. Buds
8. 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.

D320008 - Living Tree 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 (on State Fair judging day). The display container must contain at least 8 inches of soil (potting mix or suitable natural soil), have drainage hole(s), and a drain pan to catch drainage water.

- Labeling: A waterproof label must be attached and include:
 1. Common name
 2. Scientific name
 3. Seed treatments (if any)
 4. Planting date
 5. Emergence date
 6. 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. Supplemental information will be an important factor in judging.

D320009– Forest Product Display– Prepare a visual display and/or collection tracing the origin of one non-lumber product that comes from trees and/or forests. The display must be no larger than 24”x 22”x 28”
Photographs, drawings, samples, charts, posters, etc. can be used. Posters submitted may be no larger than 22” x 28” and may be either vertical or horizontal.

The contestant must identify what species of tree the product is derived from and where the product is harvested, grown, or otherwise collected. The product listed must be partially or fully derived from trees; if partial the approximate percentage should be articulated in the display.

- The goal of this exhibit is for students to learn that many products come from trees and forests and to explore one of these products through in-depth study.
- Information about the tree or forest product: e.g. information about harvesting, processing, industry information, and environmental or other benefits may be included to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.

D320010– Forest Health Display– Prepare a visual display outlining a specific forest health issue such as a tree disease, insect pest, animal– or human– caused damage, or an abiotic issue such as weather damage. The display must be no larger than 24” x 24” x 24”. Original photographs, drawings, samples, charts, posters, etc. can be used. Actual specimens are strongly encouraged but must be properly preserved, i.e. insects pinned or placed in vials of alcohol, leaves pressed and dried. Posters submitted may be no larger than 24” x 24”.

- Explain through the display what species of trees the health issue affects, diagnostic features of the issue (symptoms in trees, identifying

features of the pest, etc.) and management options.

- Include common and scientific names of trees and pests.
- Supplemental information about the tree or forest health issue: e.g. origin, proliferation in Nebraska/United States, and physiological effects on the tree may be included to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.
- Attach a separate label on the back of the display that includes the exhibitor's name and age.

D320011– Wildfire Prevention Poster– Prepare a poster, no larger than 24" x 24" that promotes wildfire prevention strategies. Strategies articulated in the poster can include personal and/or land management actions. Attach a separate label on the back of the poster that includes the exhibitor's name and age.

- Supplemental information about wildfire prevention should be attached to the poster: e.g. frequency of wildfires in Nebraska/United States, financial costs of wildfires, environmental factors that contribute to wildfires, etc. to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information

D320012– Sustainable Landscape Diorama - Box must be no larger than 24" x 24". The exhibit must show a Nebraska landscape that includes

elements such as windbreaks, fields, pastureland, CRP, public lands, community/municipal landscapes. The goal of this exhibit is for students to articulate conservation and sustainability best-practices that can be implemented on a landscape, while addressing landowner and other stakeholder interests.

- Label point/nonpoint sources of pollution, carbon sequestration, water-wise practices, wildfire prevention strategies, renewable energy sources, and other conservation practices as well as at least 10 species of plants included in the diorama.
- Attach to the exhibit a brief report including supplemental information describing the diorama, defining conservation practices, and outlining opportunities for landscape improvements to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.

D320013– Tree Planting Project Display - Plant a tree in your community. Prepare a visual display where the student articulates proper tree planting techniques, why the individual tree species was chosen, as well as steps taken to continue care for the tree after initial planting. The display must be no larger than 24 inches by 24 inches by 24 inches. Photographs, drawings, samples, charts, posters, etc. can be used. Posters submitted may be no larger than 24 inches x 24 inches. The tree must have been planted 60 days to 1 year before State Fair judging day. Students must obtain

permission from necessary authorities and property owners before planting any trees.

- Labeling: the following information about the tree must be included in the display: 1. common name 2. scientific name 3. planting location 4. planting date 5. tree source 6. planter's name 7. proper tree planting steps 8. tree care (after planting)
- Supplemental information about the tree: e.g. why the species was chosen, growth measurements, uses for that species, etc., may be included in an attached notebook, poster, etc. to enhance educational value. Supplemental information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.

Conservation & Wildlife

All entries must be pre-entered on a General Entry Form at the York County Extension Office by the first Friday of July. All Exhibits will be judged on Wednesday of fair week in Ag Hall. Entries must receive a Purple ribbon at county fair and be selected to advance to State Fair.

Participants have the opportunity to create a variety of exhibits in the many different divisions. This category gives 4-H'ers the opportunity to present their knowledge of their chosen interests. 4-H'ers will not only show their knowledge about conservation, wildlife, and shooting sports, but also the different laws that surround those areas. When creating an exhibit make sure to take close account of the rules.

Rules

1. **Show What You Did and Learned** All exhibitors must show evidence of their personal field experiences, study or observations that relate to their exhibit. This helps judges understand what the 4-H'er did and learned in the process that led to the exhibit.
2. **Proper Credit** Show proper credit by listing the sources of plans or other supporting information used in exhibits.
3. **Whose Exhibit?** The exhibitor's name, county, and age must be on the back or bottom of all displays.
4. **Wildlife and Wildlife Laws** "Animal" or "wildlife" in the following classes includes wild fish, amphibians, reptiles, birds, or mammals. Please make sure you are following all wildlife laws.
5. **Project Materials** Related project booklets include Exploring Your Environment Series, 4-H Shooting Sports, Amphibians, Bird Behavior (EC 59381), Fishing for Adventure Project Manuals, Wildlife Conservation (4-H 125), Geology, and Outdoor Adventure. Other resources include: Outdoor Skills: Learning Science in the outdoors series (Science Signature Outcome Program) outdoornebraska.gov/afterschool/ and www.whep.org.
6. **Board and Poster Exhibits** Mount all board exhibits on ¼" plywood, Masonite, or similar panel no larger than 24" high by 24" wide. Poster exhibits should be on regular poster sheets, no larger than standard size (22

by 28 inches) but half size, 22 by 14 inches, is recommended.

7. **Scoring** Sample scoresheets are available at the Extension Office.

Wildlife & How They Live

Pay Category 200

Wildlife and How they Live (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.

D340001 - Mammal Display SF154 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.

D340002 - Bird Display SF154 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.

D340003 - Fish Display SF155 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.

D340004 - Reptile or Amphibian Display SF156

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.

D340005 - Wildlife Connections SF157 Board or poster exhibit. The purpose of this display is to show interconnections 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:

- 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.
- Show the role of predators, scavengers, insect eaters, or others in nature.
- Show how wildlife numbers (populations)

change through the year or with their habitat.

- Show predation, competition, or other behavioral interactions of wildlife.
- 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.

D340006 - Wildlife Tracks Board or diorama SF158

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.

Options

- Should show plaster-of-paris tracks of five or more kinds of wildlife along with a picture or illustration of each kind of animal. (OR)
- 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. (OR)
- 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.

D340007 - Wildlife Knowledge Check SF159

Use electrical circuits, pictures, or other

methods of teaching wildlife identification or other wildlife conservation or shooting sports related knowledge. Plan size and shape to fit transportation and display; maximum size 24 x 24 inches.

D340008 - Wildlife Diorama Box SF160 Exhibit must be no larger than 24" x 24". The exhibit might show a grassland, prairie, agricultural, woodland, riparian (stream or river corridor), wetland, and/or other area with wildlife habitat. Example: 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, 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.

D340009 - Wildlife Essay SF161 Learn how to share educational information by writing. Choose a conservation or wildlife topic that interests 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 ethics, proper behavior in the outdoors, hunting, or fishing. For other ideas, refer to project booklets. The essay should be between 100 and 1000 words long and should be

typed, double spaced, or written so that it can be easily read. Standard size paper (8 ½ x 11) format is preferred. You might use books, magazines, or personal interviews as resources, but you must give credit to all sources by listing them.

D340010 - Wildlife Values Scrapbook SF162 Make a scrapbook about the various values of wildlife. This would include aesthetic scientific, commercial, game, genetic, and/or ecological. One resource would be the Wildlife Conservation project booklet (4-H 125).

D340011 - Wildlife Arts SF163 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" x 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

Pay Code 200

D342001 - Houses SF165 Make a house for wildlife.

Examples: bird house (bluebird, purple martin, wood duck, kestrel, barn owl, etc.) or bat house; no insect houses. Make the house functional so that dimensions, hole size etc. are appropriate to fit the intended species' needs. Include the following information:

- the kinds of animal(s) for which the house is intended
- where and how the house should be located for best use
- any seasonal maintenance needed.
- Any evidence of your personal observations or experiences.

Tips: check NebGuide on bird houses and shelves.

D342002 - Feeders / Waterers SF166 Make a bird bath or feeder. Examples: seed, suet, or nectar feeders. Squirrel feeder okay; no insect feeders.

- The kinds of animal (s) for which the water/feeder is intended.
- Where are how the water/feeder should be located for best use.
- Any seasonal maintenance needed.
- Any evidence of your personal observations or experiences.

Tips: check NebGuide on feeding birds.

D342003 - Wildlife Habitat Design Board or poster exhibit. SF167 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. For ideas, check the Wildlife Habitat Evaluation Handbook, Participant's Manual.

Harvesting Equipment

Pay Code 200

D343001 - Fish Harvesting Equipment SF168

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 in your exhibit the following information:

- The purpose of each item,
- When or where each item is used Any personal experiences you've had with the item(s).

D343002 - Build A Fishing Rod SF169

Rod building 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 - Include with the exhibit Explanation of cost of materials/components

- where materials/components were purchased,

- how it was made
- number of hours required for construction.
 - **Label-all parts:** Necessary components which must be included are grip, line guides (based on manufacturers specifications), guide wraps, and hook keeper. Reel seat needs to be aligned with guides, and guides aligned accurately down rod. Guide wraps of size A to D, nylon or silk thread.
 - Exhibit will be judged on: workmanship, labeling of parts information, and neatness.

D343003 - Casting Target SF170 Make a casting target for exhibit and use Target must be under 48' x 48'. The bullseyes-must be 2 feet, outer band must be 1 foot-in diameter and can have up to 3 rings. The exhibit must be easy to store, durable, and weather resistant. Include the purpose and rules of using your casting target

D343004 - Wildlife Harvesting Equipment Board Exhibit SF171 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.

- The purpose of each item,

- When or where it is used
- Any personal experiences you've had with the item (s).

D343005 - Inventing Wildlife / Fish Harvesting

Equipment SF168 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

Pay Code 200

D346001 - Tanned Hides SF172 Any legal fish, bird, or other wild animal properly processed by the member. No requirement as to size or mounting. Include the following information:

1. The animal's name
2. Information about the exhibitor's personal field experiences, study, or observations that relate to the exhibit.

D346002- Taxidermy SF172 Any legal fish, bird or other wild animal properly processed by the member. No requirement as to size or mounting. Include the following information: the animal's name information about the exhibitor's personal field experiences, study, or observations that relate to the exhibit.

Shooting Sports

All entries must be pre-entered on a General Entry Form at the York County Extension Office by the first Friday of July. All Exhibits will be judged on Wednesday of fair week in Ag Hall. Entries must receive a Purple ribbon at county fair and be selected to advance to State Fair.

Shooting Sport Exhibits

Pay Code 200

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. Classes 004-009 can be entered by anyone in the conservation and wildlife area. Remember to look at General Rules for this area.

D347001 - Shooting Aid or Accessory SF253 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.

D347002 - Storage Case SF254 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.

D347003 - Practice Game or Activity SF255 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.

D347004 - Science, Engineering, Technology Advancements of Shooting Sports Essay or Display SF256 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.

D347005 - Healthy Lifestyles Plan SF257 Include a shooter's (hiker's, camper's, angler'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.

D347006 - Citizenship / Leadership Project SF258 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, Conservation or Wildlife. 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.

D347007 - Career Development/College Essay, Interview or Display SF252

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.

D347008 - Community Vitality Display SF251

Explore the difference shooting sports conservation, fishing 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.

D347009 - Ag Literacy-Value Added Agriculture Interview or Research Project SF250

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

Pay Code 200

D361001 - Design Your Own Exhibit in Natural Resources, Conservation, Geology, or Ecology SF164

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.

NOTES