

**DIXON COUNTY FAIRBOOK 2022**  
**DEPARTMENT D**  
**- Conservation and Wildlife -**  
**Forestry, Range, Outdoor Adventures, Habitat,**  
**Equipment, Taxidermy, Shooting Sports**



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**CONSERVATION, WILDLIFE & SHOOTING SPORTS**

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Participants have the opportunity to create a variety of exhibits in the 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 will 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.

Example to attach to your exhibit

**Name:** Chris Clover

**County:** Clover County

**Age:** 10

**Field Experience, Study, or Observations:**

I attended a 4-H workshop where we put out a food plot, and then made turkey calls. We played a game about attracting turkeys. Sometimes we acted like a female to draw in a tom turkey. Sometimes we acted like a lost baby turkey to call in a whole flock. I was able to use my turkey call and play the game successfully. While I never turkey hunted in person, I went on-line to research more turkey calls. I hope to turkey hunt someday, and I want to use a box call to hunt fall turkeys.

**Credits/Source:**

Information was obtained from Nebraska Game & Parks website

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) <http://outdoornebraska.gov/afterschool/> and [www.whep.org](http://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.

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**Resources:**

Tree Identification - Learn to use a dichotomous key to classify trees; Identify common Nebraska trees.

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/65](https://4hcurriculum.unl.edu/index.php/main/program_project/65)

Leafing Out - 4-Hers can gain an appreciation of trees around the world, discover the role and value of trees in their community, learn how a tree grows, learn how to care for trees, and can be introduced to the difficult growing conditions most trees face in towns and cities and how trees respond to these conditions.

URL: <https://marketplace.unl.edu/ne4h/leafing-out.html>

Trees of Nebraska - A comprehensive 75-page identification guide to 97 of the state's trees; includes how to compare leaves, twigs, fruit, bark and other parts and identify species.

URL: <https://extensionpubs.unl.edu/publication/9000016365733/trees-of-nebraska/>

How to Plant a Tree - Proper planting is critical to the establishment of healthy, thriving trees. Nebraska Forest Service website.

URL: <https://nfs.unl.edu/publications/how-to-plant-a-tree>

Reading the Range - Learn the names of range plants; Identify and collect range plants; Explore the basics of range management.

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/116](https://4hcurriculum.unl.edu/index.php/main/program_project/116)

Using Nebraska Range - Study Nebraska's grassland heritage; Understand plant vigor and the effects of grazing; Identify range sites; Calculate range conditions; Understand stocking rates.

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/117](https://4hcurriculum.unl.edu/index.php/main/program_project/117)

Weed Science - Learn the names of range plants; Identify and collect range plants; Explore the basics of range management.

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/118](https://4hcurriculum.unl.edu/index.php/main/program_project/118)

4-H Geology

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/208](https://4hcurriculum.unl.edu/index.php/main/program_project/208)

Amphibians - Identify native amphibians; Conduct field research; Learn about ecosystems

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/68](https://4hcurriculum.unl.edu/index.php/main/program_project/68)

Bird Behavior - Learn about different types of bird behavior; Start a lifetime bird list; Find out how to attract birds to backyards

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/69](https://4hcurriculum.unl.edu/index.php/main/program_project/69)

Environment 1 - Learn the four elements of life; Build your own ecosystem; Construct a food web; Compost to reduce waste; Learn about habits

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/57](https://4hcurriculum.unl.edu/index.php/main/program_project/57)

Environment 2 - Describe the soil profile; Identify the basic parts of a flower; Explore life cycle of a product or food; Identify common animal tracks; Identify common animal tracks

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/58](https://4hcurriculum.unl.edu/index.php/main/program_project/58)

Environment 3 - Describe the six major biomes of the world; Make and use equipment for assessing water quality; State causes and consequences of soil erosion; Explore how your transportation choice have impact; Compare biodiversity of two sites

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/59](https://4hcurriculum.unl.edu/index.php/main/program_project/59)

Fishing For Adventure 1 - Develop angling skills; Create fishing tackle; Learn how to be a good steward of aquatic resources

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/70](https://4hcurriculum.unl.edu/index.php/main/program_project/70)

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Fishing For Adventure 2 - Practice different types of casting; Learn the different characteristics of fish; Recognize the importance of water quality for fish habitats; Prepare a fish meal

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/71](https://4hcurriculum.unl.edu/index.php/main/program_project/71)

Fishing For Adventure 3 - Build a fishing reel; Make artificial flies and lures; Modify fishing equipment; Collect and identify aquatic insects

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/72](https://4hcurriculum.unl.edu/index.php/main/program_project/72)

Outdoor 1: Hiking Trails –

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/210](https://4hcurriculum.unl.edu/index.php/main/program_project/210)

Outdoor 2: Camping Adventures -

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/211](https://4hcurriculum.unl.edu/index.php/main/program_project/211)

Outdoor 3: Backpacking Expeditions -

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/212](https://4hcurriculum.unl.edu/index.php/main/program_project/212)

Outdoor Skills -

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/209](https://4hcurriculum.unl.edu/index.php/main/program_project/209)

Taxidermy -

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/206](https://4hcurriculum.unl.edu/index.php/main/program_project/206)

Wildlife Conservation 1 - Learn about the history of wildlife conservation; Explore the values of wildlife to humans; Learn wildlife management terms

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/73](https://4hcurriculum.unl.edu/index.php/main/program_project/73)

Wildlife Conservation 2 - Learn about wildlife habitats; Make a nature diorama; Explore wildlife communities and ecosystems

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/74](https://4hcurriculum.unl.edu/index.php/main/program_project/74)

Wildlife Conservation 3 - Learn about the interface between people and wildlife; Explore why and how we manage wildlife; Learn about threatened and endangered species

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/75](https://4hcurriculum.unl.edu/index.php/main/program_project/75)

Wildlife Habitat Evaluation -

URL: [https://4hcurriculum.unl.edu/index.php/main/program\\_project/204](https://4hcurriculum.unl.edu/index.php/main/program_project/204)

Nebraska Game and Parks

<http://outdoornebraska.gov/>

Children and Nature: Let's G.O.! (Get Outside)

<https://www.childrenandnature.org/initiatives/lets-go/>

National Park Service - Nebraska

<https://www.nps.gov/state/ne/index.htm>

National Wildlife Federation

<https://www.nwf.org/>

Nature Lab: The Nature Conservancy

<https://www.nature.org/en-us/about-us/who-we-are/how-we-work/youth-engagement/nature-lab/>

USDA Forest Service

<https://www.fs.fed.us/recreation/safety/>

Leave No Trace

<https://lnt.org/>

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## **FORESTRY**

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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.

### **Rules:**

1. Refer to the above Resources as official references for all forestry projects.
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, which 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.

**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 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.

**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.

- **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

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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 collections 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, e.g. 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.

**D 320 003 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 collections 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..

**D 320 004 SEED DISPLAY** The seed display must include seed samples from at least 10 different tree species.

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- **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 collections must be done by the 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.

**D 320 005 WOOD DISPLAY** The wood display must include wood samples from at least 10 different tree species.

- **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 collections 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.

**D 320 006 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

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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:

- 7) common name
- 8) scientific name
- 9) tree classification (softwood or hardwood)
- 10) age (of the cross section)
- 11) collector's name
- 12) collection date
- 13) collection location (be specific, state and county at a minimum)

**D 320 007 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.

**D 320 008 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 a 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

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notebook, poster, etc. to enhance educational value. Supplemental information will be an important factor in judging.

**D 320 009 FOREST PRODUCT DISPLAY** - Prepare a visual display and/r collection tracing the origin of one non-lumber product that comes from trees and/or forests. The display must be no larger than 24 inches by 22 inches by 28 inches. 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.
- Personal interviews with industry professionals are encouraged as a source of information.

**D 320 010 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 inches by 24 inches by 24 inches. 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 inches x 24 inches.



- 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.

**D 320 011 WILDFIRE PREVENTION POSTER** - Prepare a poster, no larger than 24 inches x 24 inches 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



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information will be an important factor in judging but should not exceed three printed pages of text. Cite sources of information.

**D 320 012 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.

**D 320 013 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, and 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.

PREMIUM: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$0.75

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**RANGE MANAGEMENT**

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The purpose of this category is to help 4-H'ers identify and collect range plants. In addition, participants will learn the basics of range management, and Nebraska's range. Through the creation of range boards 4-H'ers will become more proficient in knowledge of Nebraska's range.

**Rules:**

1. Each exhibit must be properly identified with Unit and Class.
2. All plant displays and display covers must be the result of the current year's work.

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3. Plant identification and lists of appropriate plants in each category (grasses, forbs, shrubs, and grass-like plants) can be found in the Range Judging Handbook and Contest Guide (EC150, Revised July 2016), Common Grasses of Nebraska (EC170), and Common Forbs and Shrubs of Nebraska (EC118).
4. The purpose of these exhibits is to demonstrate to the public the benefits from the study and application of crop, weed, range and soil sciences to solving problems in management, conservation, sustainability and environmental protection.
5. Books (Classes 1-6): For books, plants must be mounted on sheets that are no larger than 14" wide by 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 example below) in the lower right corner of the mounting sheet: Scientific name (in italic or underlined), with authority - Common name. - County of collection. - Collection date. - Collector's name. - Personal collection number, indicating order that plants were collected in your personal collection, - Other information, depending on class selected, i.e., value and importance, life span, growth season, origin, major types of range plants. This information should be typed or printed neatly.
6. Displays (Class 7): 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.
7. Boards (Classes 8-9): Boards should be should no larger than 30" wide by 36" tall. Boards should be adequately labeled.

Tag example:

Scientific Name: *Schizachyrium scoparium (Michx.) Nash*  
 Common Name: Big bluestem  
 County of Collection: Cedar County  
 Collection Date: 6 August 2018  
 Collector's Name: Joe Smith  
 Personal collection Number: 37

Value and Importance

Livestock Forage: High  
 Wildlife Habitat: High  
 Wildlife Food: Medium  
 Or Life Span: Perennial  
 Or Season of Growth: Warm Season  
 Or Origin: Native

**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

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Contest Guide, Appendix Table 1 (EC150, Revised July 2016) starting on page 42. 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** A collection of 6 perennial plant mounts and 6 annual plant mounts selected from grasses or forbs.

**D 330 003 GROWTH SEASON BOOK** A collection of 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.

**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, including the scientific and common name of the plant. Put your name and 4-H county on the back of the poster.

**D 330 008 SPECIAL STUDY BOARD** A display of the results of a clipping study, a degree of use study, range site study, etc. A short essay must accompany the display to explain the reason for the study, what was learned, and study results. This should be placed in a sheet cover attached to the board.

**D 330 009 JUNIOR RANCHER BOARD** This exhibit should include a ranch map with a record book or an appropriate educational display on some phase of rangeland or livestock management. A short essay must accompany the display to explain the purpose of the rancher board, what was learned, etc.

PREMIUM: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$0.75

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**WILDLIFE AND HOW THEY LIVE**

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\*Classes 001-004 are board or poster exhibits. Display may show any aspect of wildlife, wildlife habitat, or related conservation. For more ideas, refer to project booklets. Remember to look at General Rules for this area.

**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 340 001 MAMMAL DISPLAY** – Refer to Examples, bottom page 5.

**D 340 002 BIRD DISPLAY** – Refer to Examples, bottom page 5.

**D 340 003 FISH DISPLAY** – Refer to Examples, bottom page 5.

**D 340 004 REPTILE OR AMPHIBIAN DISPLAY** – Examples, bottom page 5.

**D 340 005 WILDLIFE CONNECTIONS** 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: 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 behavioral interactions of wildlife; 5) Choose one kind of wildlife and make observations through a season or year, keeping notes of interactions, then make a display of what you saw; 6) Refer to the project manual for more ideas.

**D 340 006 WILDLIFE TRACKS** Board or diorama-type box exhibit. Make a display of animal tracks using plaster-of-Paris casts. There are 3 OPTIONS. 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.

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.

(OR) 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.

(OR) 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.

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**D 340 007 WILDLIFE KNOWLEDGE CHECK** 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.

**D 340 008 WILDLIFE DIORAMA** 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.

**D 340 009 WILDLIFE ESSAY** 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. The essay is between 100 and 1000 words long and typed, double spaced on 8 ½ 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. This would include aesthetic, scientific, commercial, game, genetic, and/or ecological. One resource would be 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" 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 the exhibit is meant to show).

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75

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**OUTDOOR ADVENTURES**

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**Rules for Outdoor Adventures 1/Q, 2 & 3:**

- See General Rules.
- Display posters must be made of material, e.g. foam board or poster board and measure no larger than 22" X 28". Poster material should be sturdy enough to hold display items.
- Display exhibits other than posters to be no larger than 18" X 24".
- Journal/Binder exhibits measure no larger than 16" X 16".
- Consider neatness and creativity.

**Level 1/Q**

(\* Not State Fair Eligible)

**\*Q 004 901 Setting up My Tent** Develop a presentation or poster showing how to set up and take down a tent (even in the rain!)

**\*Q 004 902 Cooking Outdoors** Poster on how to cook at a campsite. Be safe!

**\*Q 004 903 Knots** Presentation Board on how to make Knots. Show a step-by-step progression of tying a knot.

**\*Q 004 904 Playing it Safe** Investigate and present on safety measures if you were to get lost, getting caught out in a storm, or surviving an emergency.

**\*Q 004 905 Planning A Hiking Adventure** Presentation binder or poster planning a hike, to include location, route, camping equipment, what to pack, travel to and from, clothing, sanitation and hygiene, food planning, etc.

**\*Q 004 906 What's in My Backpack?** Presentation or poster on what to pack for a hiking adventure.

**\*Q 004 907 Civic Engagement** Create a poster presentation of a cleanup day at a campground or trail.

**Level 2**

**D 341 001 POSTER** - Create a poster display no larger than 22" X 28". Topics may include, but not limited to one or more of the following; how to pitch a tent, knot tying, cooking over a campfire, how to start a campfire, wildlife and plants identified while camping, how to set up emergency shelter, dealing with weather, collection of photos from camping trips, "Leave No Trace" and how that was followed while camping, plan a camping trip, camping essentials, environmental issues/protecting natural resources, park or trail clean up, sanitation/hygiene while outdoors or use of GPS.

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**D 341 002 JOURNAL/BINDER** - Written report of actual, virtual or actual camping/hiking trips with observations OR field journal (notes of actual experiences, sights, sounds, smells, etc.), OR camping or hiking trip diary. Explain growth in project, leading the hikes, planning the camping trip, now being able to identify the wildlife and nature around you and how identified (sight/sound/shape/smell/color). Feathers/leaf/flower pressings must be securely attached, if included. Photos of drawing of observations encouraged. Exhibits measure no larger than 16" X 16".

**D 341 003 CAMPING/HIKING SAFETY** - Must include explanation of use of item and why selected/purpose, how it fits hiking/camping needs. May include, but are not limited to, one of the following: travel sized poisonous plants guide, camping first aid kit, weather/water safety or hand hygiene kit. Exhibits measure no larger than 18" X 24".

**D 341 004 DIGITAL MEDIA** - Use digital media to show video/slideshow/presentation of setting up a tent (include why site is chosen) or protecting natural resources or environmental issues or computer video camping/hiking game. Submit a USB drive or DVD inside a report cover or notebook. If using a slideshow, include printed slides inside report cover or notebook.

**D 341 005 OTHER CAMPING ITEMS** - Must include what inspired the creation of the item, and its purpose. May include, but are not limited to one of the following; nature art, nature haiku poem, spider web sketches or knot display. Exhibits measure no larger than 18" X 24".

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75

**Level 3**

**D 341 006 POSTER** - Create a poster display, no larger than 22" X 28". Topics may include but not limited to one of the following; Topographic map, backpacking trip plan, camp layout, plan an expedition (can be dreamed or lived), collection of photos from your expedition, trails hiked, cost comparison of rental vs purchase or using GPS/compass.

**D 341 007 JOURNAL/BINDER** - Written report of actual, virtual or imagined expeditions/camping/hiking, OR field journal (notes of actual experiences, sights, sounds, smells, etc.). Explain growth in project, challenges in leading a group, teaching others about wildlife and nature identification and "Leave No Trace." Exhibits measure no larger than 16" X 16".

**D 341 008 EXPEDITION SAFETY** - Must include an explanation of use of items, why selected/purpose of item, how it meets hiking/camping/expedition needs. May include, but are not limited to; travel sized edible plants, creepy crawly guide, tent repair kit, travel first aid kit or weather/water safety. Exhibits measure no larger than 18" X 24"

**D 341 009 DIGITAL MEDIA** - Use digital media to show video/slideshow/presentation of one of the following, but not limited to; building a non-tent shelter (include why needed), packing your backpack/equipment and getting it onto you, teaching others about environmental issues or a

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computer video backpacking expedition game. Submit a USB drive or DVD inside a report cover or notebook. If using a slideshow, include printed slides inside report cover or notebook.

**D 341 010 OTHER EXPEDITION ITEMS** - Must include what inspired the creation of the item, and the purpose of the item. May include, but are not limited to; nature art, nature cinquain poem, backpacking food recipes, hiking/expedition conditioning plan, charcoal etching, dehydrated meal or snack (at least 1 cup displayed in a re-sealable plastic bag with ingredients, instructions, and nutritional facts included). Exhibits measure no larger than 18" X 24"

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75

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**WILDLIFE HABITAT**

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**D 342 001 HOUSES** 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: 1) the kinds of animal(s) for which the house is intended, 2) where and how the house should be located for best use, 3) any seasonal maintenance needed, and 4) any evidence of your personal observations or experiences. Tip: check NebGuide on bird houses and shelves: <https://extensionpubs.unl.edu/publication/9000016367275/backyard-wildlife-bird-houses-and-shelves/>

**D 342 002 FEEDERS/WATERS** Make a bird bath or feeder. Examples: seed, suet, or nectar feeders. Squirrel feeder okay; no insect feeders. Include the following information: 1) the kinds of animal(s) for which the water/feeder is intended, 2) where are how the water/feeder should be located for best use, 3) any seasonal maintenance needed, and 4) any evidence of your personal observations or experiences. Tip: check NebGuide on feeding birds: <https://extensionpubs.unl.edu/publication/9000016367266/backard-wildlife-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.

PREMIUM: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$0.75



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**HARVESTING EQUIPMENT**

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**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), lures. Label all items displayed. Include in your exhibit the following information: 1) the purpose of each item, 2) when or where each item is used, and 3) any personal experiences you've had with the item(s).

**D 343 002 BUILD A FISHING ROD -** 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 were purchased, how made, and 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 keepers. 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.

**D 343 003 CASTING TARGET -** Make a casting target for exhibit and use. Target must be under 48" x 48" (updated from last year's 36"x36"). 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.

**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:

- 1) the purpose of each item,
- 2) when or where it is used,
- 3) any personal experiences you've had with the item(s).

**D 343 005 INVENTING WILDLIFE/FISH HARVESTING EQUIPMENT, AID OR ACCESORY -** 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.

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75

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**TAXIDERMY**

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**D 346 001 TANNED HIDES OR TAXIDERMY** 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 specie; 2) information about the exhibitor's personal field experiences, study, or observations that relate to the exhibit.

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75

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**4-H SHOOTING SPORTS**

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*Archery Exhibits Only*

**Rules:**

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.

**D 347 001 SHOOTING AID OR ACCESSORY** – Any item which helps the shooter/hunter better perform their sport, examples: kneeling roll, arm guard, 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 bow, and/or arrows, examples: quivers, 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, CONSERVATION, OR WILDLIFE ESSAY OR DISPLAY** – Choose a specific area of shooting sports archery 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 (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.

**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

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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.

**D 347 007 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 1,000 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 347 008 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 347 009 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.

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75

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**OTHER NATURAL RESOURCES**

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**D361 001 - Design Your Own Exhibit in Natural Resources, Conservation, Geology, 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.

PREMIUMS: PURPLE \$1.60; BLUE \$1.25; RED \$1.00; WHITE \$.75