DEPT. F / DIV. 531
ENTREPRENEURSHIP

Class 1 Interview an entrepreneur. Share what you learned from the person about starting and running a business or how they deliver excellent customer service. How will what you have learned through this interview change your future plans or ways of thinking about business? (based on pages 2.1 – 2.4 of manual)

Class 2 Social Entrepreneurship Presentation Prepare a five slide power point presentation about a social entrepreneurship event to benefit a group or individual in your community. Social entrepreneurs are people who are in business to help others. Submit a print out of the note pages which show each slide and include an explanation of each slide. Enter exhibit in a report cover with fasteners (no slide bars). Refer to page 2.4 of Unit 2 The Case of Me for ideas.

Class 3 Marketing Package (mounted on a 14" x 22" poster) must include at least three items (examples) developed by the 4-H'er from the following list: business card, brochure, advertisement, business promotional piece, printout of an internet home page, packaging design, signs, logo design, direct mail piece, etc. The marketing package should be for an original business developed by the 4-H'er and not an existing business.

Class 4 Sample of an Original Product with an information sheet (8 ½" x 11") answering the following questions:
1) What did you enjoy the most about making the product?
2) What challenges did you have when making the product? Would you do anything differently next time? If so, what?
3) What is the suggested retail price of the product? How did you decide on the price?
4) Market analysis of the community – data gathered through a survey of potential customers. Use the three questions on page 3.3 and survey at least 10 people in your community about your product.
5) How must would you earn per hour? Show how you determined this figure.
6) What is unique about this product?

Class 5 Photos of an Original Product mounted on a 14"x22" poster must include three photos of developed product and a mounted information sheet answering the following questions. If exhibiting in both Class 4 and 5, products must be entirely different products.
1) What did you enjoy the most about making the product?
2) What challenges did you have when making the product? Would you do anything differently the next time? If so, what?
3) What is the suggested retail price of the product? How did you decide on the price?
4) Market analysis of the community – data gathered through a survey of potential customers. Use the three questions on page 3.3 and survey at least 10 people in your community about your product.
5) How must would you earn per hour? Show how you determined this figure.
6) What is unique about this product?

ENVIRONMENTAL EDUCATION & EARTH SCIENCE

CHECK IN:
Tuesday, August 2, 2016 from 6:00 - 8:00 p.m.
& Wednesday, August 3, 2016 from 7:30 – 9:00 a.m.
JUDGING TIME:
Wednesday, August 3, 2016 beginning at 9:30 a.m. (closed to public)
PREMIUMS:
Purple $2.00; Blue $1.50; Red $1.00; White $0.50

CONSERVATION / WILDLIFE
STATE FAIR ENTRIES:
Premier 4-H Science Award is available in this area.

CONSERVATION / WILDLIFE GUIDELINES
A. SHOW WHAT YOU DID AND LEARNED: All exhibitors are encouraged to 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.
B. PROPER CREDIT: Show proper credit by listing the sources of plans or other supporting information used in exhibits.
C. WHOSE EXHIBIT? The exhibitor's name, county, and age 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.
D. WILDLIFE & WILDLIFE LAWS: 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.
E. ENTRIES PER INDIVIDUAL: Each individual may enter up to one exhibit per class.
F. PROJECT MATERIALS: Related project booklets including Exploring Your Environment Series, 4-H Shooting Sports, Amphibians, Bird Behavior (EC 5-93-81), Fishing for Adventure Project Manuals, and Wildlife Conservation (4-H 125), Outdoor Skills: Learning Science in the Outdoors series (Science Signature Outcome Program)
G. 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 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.
H. SCORING: Contact the Dodge County Extension Office for sample score sheets or on the web at http://4h.unl.edu.
DEPT. D / DIV. 340
CONSERVATION / WILDLIFE

CLASSES 1 – 4: Wildlife and How They Live - These classes are board or poster exhibits. Displays may show any aspect of wildlife, wildlife habitat, or related conservation, restoration, or management.

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 study methods;
- Wildlife behavior (example: when nesting, finding food, moving, etc.);
- Habitats (examples: grasslands, wetlands, river or stream corridors) and what wildlife is found there;
- Habitat needs for a specific kind of wildlife;
- For more ideas, refer to project booklets.

Class 1 Mammal Display
Class 2 Bird Display
Class 3 Fish Display
Class 4 Reptile or Amphibian Display
Class 5 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. Display 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 or with their habitat.
4) Show predation, competition, or other behavioral 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.
6) For more ideas, refer to project booklets.

Class 6 Wildlife Tracks Exhibit: Board or diorama-type exhibit. Make a display of animal tracks using plaster-of-paris casts. There are two options. For both 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.

1) Option One 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
2) Option Two 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
3) Option Three 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.

Class 7 Wildlife Knowledge Check: Use electrical circuits, pictures, or other methods of teaching wildlife identification or other wildlife related knowledge. Plan size and structure to facilitate transportation and display, maximum size 24 x 24 inches. EXAMPLE: Prepare a list of animals and questions about which each would most likely live. Rabbits - brushy areas along field border: ducks-marshes, etc.

Class 8 Wildlife Habitat Diorama: Box 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 a large unbroken grassland or prairie for area-sensitive species such as meadowlark, 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, 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.

Class 9 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 (commercial value, game value, genetic value, aesthetic value, ecological value, scientific value). 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. For other ideas, refer to project booklets.

The essay should be at least 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 full credit to all sources by listing them.

Class 10 Wildlife Values Scrapbook: Make a scrapbook about the various values of wildlife (commercial value, game value, genetic value, aesthetic value, ecological value, scientific value) following guidelines in the Wildlife Conservation project booklet (4-H 125).

Class 11 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 or 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). Important points for judging include: 1) clarity of the purpose/message in relation to conservation and wildlife (20%); 2) educational value of the exhibit to viewers (20%); 3) evidence of the exhibitor’s personal field experience, study or observations that relate to the exhibit (30%); and 4) accuracy of information (30%).

DEPT. D / DIV. 342
WILDLIFE HABITAT

Class 1 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, and
3) Any seasonal maintenance needed.
*Tips: Check NebGuide on bird houses and shelves.

Class 2 Feeders/Waters: Make a bird bath or feeder. Examples: seed, suet, or nectar feeders. Squirrel feeders are acceptable. No insect feeders. Indicate the kind of animal(s) for which the feeder or waterer is intended. Make the feeder or waterer functional so that it suits wildlife needs. Include the following information:
1) Where and how the feeder or waterer should be located for best use, and
2) How it should be maintained.
*Tips: Check NebGuide on feeding birds.

Class 3 Wildlife Habitat Design: Board or Poster Exhibit: Choose a backyard, acreage, or farm, and design a habitat plan to
DEPT. D / DIV. 343

HARVESTING EQUIPMENT

Class 1  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 in relation to other equipment, and
3) Any personal experiences you've had with the item(s).

Class 2  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:
  ✓ Explanation of cost of materials/components, where materials/components were purchased, how made, and number of hours required for construction.
  ✓ Identify 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 (guides, etc.), correct information, and neatness.

Class 3  Casting Target: Make a casting target for exhibit and use, following guidelines in the project booklet, Fishing for Adventures Manuals.

Class 4  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 drawing or pictures. Label all items displayed. Include in your exhibit the following information:
1) The purpose of each item,
2) When or where it is used in relation to other equipment, and
3) Any personal experiences you've had with the item(s).

Class 5  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 be wildlife calls, adapted fishing pole for shallow water, a blind, decoys, etc. Have your drawing (or adapted plans), how the equipment works, how you tested it, and the results of testing your prototype and any adjustment you made.

DEPT. D / DIV. 346

TAXIDERMY

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

DEPT. D / DIV. 361

OTHER NATURAL RESOURCES

Class 1  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.

SHOOTING SPORTS

SHOOTING SPORTS GUIDELINES

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, blackpowder/muzzleloader, and/or hunting skills. NO firearms can be entered as an exhibit; however information can be shared through pictures.

DEPT. D / DIV. 347

Class 1  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.

Class 2  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.

Class 3  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.

Class 4  Science, Engineering, Technology Advancements of Shooting Sports Essay or Display: Choose a specific area of shooting sports and share how it 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.

Class 5  Healthy Lifestyles Plan: Include a shooter’s diet and exercise plan, and how the 4-H member will benefit or improve form 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.

Class 6  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.

Class 8 **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 8½ x 11 paper. Interviews need to include a picture of the interviewee in their work setting, questions asked, and a transcript of answers.

Class 9 **Community Vitality Display:** Explore the difference shooting sports and hunting make in keeping Nebraska vibrant especially in rural area. Present facts and research in an interesting way for the public to learn from.

Class 10 **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.

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**FORESTRY**

**STATE FAIR ENTRIES:**
Premier 4-H Science Award is available in this area.

**FORESTRY GUIDELINES**

- 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 The 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, ¼” to ½” thick and no larger than 24” x 24”. Display boards may be coated, e.g., painted or varnished, on both 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”.
- Repeat exhibitors must use new displays—each display may only be used once.
- Display “books” must measure no more than 16” x 16”.
- At least 5 of the 10 samples in Class 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.

**DEPT. D / DIV. 320**

**FORESTRY**

Class 1 **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 pest. The only requirement is that the display must be no
larger than 24 inches by 24 inches. Photographs, drawings, samples, charts, posters, etc. can be used, but include substantially different from other display classes. Be as creative as you like.

Class 2 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.

- **Leaf Collection:** Whenever possible, collect leaves from mature trees. Collect leaves any time after they have reached full size, usually beginning in early summer. The leaf sample 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.

- **Mounting:** Leaves may be displayed in a notebook or on a display board. Any method may be used to mount leaves, for example, 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) Exhibitor’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 cedar sample because the leaves are very small and difficult to remove from the twig.

- Supplemental information, for example, general uses, common products, fall color, etc., may be included with the display to enhance its educational value.

Class 3 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.

- **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 their features can be clearly identified. The non-terminal ends 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) Exhibitor’s name
  5) Collection date
  6) Collection location (be specific, state and county at a minimum)

- Supplemental information, for example, general uses, tree characteristics, etc., may be included with the display to enhance its educational value.

Class 4 Seed and Fruit 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 the seeds not fruit. For example, the seed of honeylocust 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.

- **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 labels 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) Exhibitor’s name
  5) Collection date
  6) Collection location (be specific, state and county at a minimum)

- Supplemental information, for example, maturity date, average number of seed in the fruit, etc., may be included with the display to enhance educational value.

Class 5 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. Cut surfaces should be sanded to show the grain. Treating samples with a clear finish (no stain) is optional.

- **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) Exhibitor’s name
  5) Collection date
  6) Collection location (be specific, state and county at a minimum)

- Supplemental information, for example, common products, density, etc., may be included with the display to enhance educational value.

Class 6 Cross-Section: Display a disc cut from a tree species listed in 4H 332. The sample must be collected within one year of the 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. The disc may be treated with a clear finish, but treat both sides to minimize warping. 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) Exhibitor’s name
  6) Collection Date
  7) Collection location (be specific, state and county at a minimum)
**Part 1: Class 7 – 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, for example xylem, phloem, cambium, annual rings, etc. is optional.
- Attach a separate label on the back of the poster that includes the exhibitor’s name and age.

**Part 2: Class 8 – 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 holes 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.

**Part 3: Range**

**Range Guidelines**

A. Individuals in Reading the Range (Unit I) project may exhibit a collection of 12 different range plants in Classes 1 – 5 and 8.

B. Individuals in the Using Nebraska Range (Unit II) projects may exhibit in Classes 1 – 8.

C. Each completed mount must have the following information (see example below) in the lower right corner of the mounting sheet.
   1) Scientific names (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, life span, growth season, origin, major types of range plants. This information should be typed or printed neatly.

**Part 4: Label Example**

| Scientific Name: Schizachyrium scoparium  
| (Michx.) Nash |
| Common Name: Little bluestem |
| County of collection: Dodge County |
| Collection date: 6 August 2016 |
| Collector’s name: Joe Smith |
| Personal collection number: 37 |

**Value and Importance:**


**Part 5: Range Displays**

A 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” x 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. Refer to Scoresheet SF 259.

**Part 6: DEPT. D / DIV. 330 Books**

A. 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.

B. Exhibits will be judged based on completeness of plant mount, accuracy of identification, labeling, neatness and conformation to project requirements. Refer to Scoresheet SF 260.
DEPT. D / DIV. 330

BOARDS
Boards should be no larger than 30" wide by 36" tall or if hinged in the middle a maximum of 60" wide by 36" tall. Boards should be adequately labeled. Refer to Scoresheet SF260.

Class 8 Range Plant Board: Will include 25 range forage species important to a particular county.
Class 9 Special Study Board: A display of the results of a clipping study, a degree of use study or a range site study, etc.
Class 10 Junior Rancher Board: It includes a ranch map with record book or an appropriate educational display on some phase of rangeland or livestock management.

WEED SCIENCE
ENVIRONMENTAL EDUCATION & EARTH SCIENCES

STATE FAIR ENTRIES:
Premier 4-H Science Award is available in this area.

WEED SCIENCE GUIDELINES
✓ Any individual in the Conservation, Environment 1, 2, or 3,- Range, Reading the Range 1 or Using Nebraska Range 2, or Crop Production, Field Crops projects may exhibit a weed book or weed display. The book cover and at least 15 of specimens must represent this year’s work. For assistance identifying plants, participants can use Nebraska Department of Agriculture’s Weeds of Nebraska and the Great Plains (1994) or Weeds of the Great Plains (2003).
✓ Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness and conformity to exhibit requirements.

DEPT. G / DIV. 751

BOOKS
✓ Display one plant on the book cover (no label required on cover specimen). Plants must be mounted on sheets that are no larger than 14" wide by 14" high. Proper plant mount should include root as well as stem and leaf tissue. Plants should be glued rather than taped and the mounts should be protected with a clear clover.

✓ Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness, and conformity to exhibit requirements. Refer to Scoresheet SF261.
✓ Each completed mount must have the following information (see example below) in the lower right 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 the order that plants were collected, in your personal collection 7. Other information depending on class selected, i.e., noxious, life form. This information should be typed or printed neatly.

Label Example

<table>
<thead>
<tr>
<th>Scientific Name:</th>
<th>Abutilon Theophrasti Med.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name:</td>
<td>Velvetleaf</td>
</tr>
<tr>
<td>County of collection:</td>
<td>Dodge County</td>
</tr>
<tr>
<td>Collection date:</td>
<td>6 July 2016</td>
</tr>
<tr>
<td>Collector’s name:</td>
<td>Dan D. Lion</td>
</tr>
<tr>
<td>Personal collection number:</td>
<td>3</td>
</tr>
<tr>
<td>Life cycle:</td>
<td>Annual</td>
</tr>
</tbody>
</table>

Class 1 Weed Identification Book: A collection of a minimum of 15 plant mounts including at least two of the following prohibited noxious weeds (Canada Thistle, musk thistle, plumeless thistle, leafy spurge, purple loosestrife, diffuse knapweed, spotted knapweed, Japanese knotweed, bohemian knotweed, giant knotweed, sericea lespedeza or phragmites), and at least five weeds that are a problem primarily in lawns.

Class 2 Life Span Book: A collection of 2 perennial, 1 biennial, and 7 annual weeds

DEPT. G / DIV. 751

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. Explain pictures and graphs clearly and concisely.
✓ Each display must have a one page essay explaining why the exhibitor chose the area of display and what they learned from their project. Include any references used. The essay should be in a clear plastic cover with the exhibitor’s name outside.

Class 3 Weed Display – The purpose of this class is to allow original and creative exhibits that contain educational information about weeds, such as interesting information about a weed species, the effects of weed control, herbicide resistant weeds, what makes a weed a weed, or used for weeds.

HEALTHY LIFESTYLES

CHECK IN:
Tuesday, August 2, 2016 from 6:00 - 8:00 p.m.
& Wednesday, August 3, 2016 from 7:30 – 9:00 a.m.

JUDGING TIME:
Wednesday, August 3, 2016 beginning at 9:30 a.m. (closed to public)

PREMIUMS:
Purple $2.00; Blue $1.50; Red $1.00; White $0.50

STATE FAIR ENTRIES:
Premier 4-H Science Award is available in this area.

FOOD & NUTRITION

INTERVIEW JUDGING OPPORTUNITY
Wednesday, August 3 by Appointment

FOOD & NUTRITION GUIDELINES
A. Members may exhibit only in the projects in which enrolled.
B. LABELS: