

consist of insects by taxonomic group (e.g. butterflies, grasshoppers, dragonflies, scarab beetles) or by host subject or habitat (e.g. insect pests of corn, aquatic insects, insect mimicry, insect galls, insects from goldenrod, insect pollinators, etc.

- CLASS 5** **Insect Habitats** – Habitats consist of any hand-crafted objects, made of natural or artificial material which are placed outdoors and which promote or conserve insects in the environment. Insects may include bee pollinators, butterflies, beneficial insects, etc. A one-page report describing activities must accompany the exhibit.
- CLASS 6** **Macrophotography** – Subjects should be insects, spiders, or other arthropods, or any nests, webs, or constructions they make. All exhibit prints should be 8" x 10" or 8 ½" x 11" and mounted on rigid, black 11" x 14" poster or black mat board. Either orientation is acceptable. No frames or mat board framing is allowed. A short caption of a few sentences should explain the subject, printed on white paper, and glued below the print.
- CLASS 7** **Insect Poster/Display Exhibits** – Exhibits can be posters or three-dimensional displays, and artistic creativity is encouraged. Posters should be no larger than 22" x 28". They should be instructional and can be attractive and have pictures, drawings, charts, or graphs. Posters and displays may show any aspect of insect life, habitat, or related conservation or management. Examples include: life history and other facts about an insect; insect anatomy; how to manage insects in a farm, home, lawn, or garden setting; experiences rearing one kind of insect; survey of an important insect; insect behavior (e.g. nesting, finding food, mobility, defenses, etc.); habitats (e.g. forests, grasslands, wetlands, rivers, or lakes) and what insects are found there, etc. Three-dimensional displays, such as dioramas, sculptures, models or decorative boxes should have a page of explanatory information accompanying them and fit within a 22" x 28" area.
- CLASS 8** **Reports or Journals** – Reports and journals should be in a three-ring binder. A report may be informational; that is, an original article about a favorite insect, a history or insect outbreaks, diseases caused by insects, insects as food, etc. Or, it may be a research report about an investigation or experiment done in a scientific manner. It then should have a basic introduction of the insect studied, methods used, observations, and results of the project. Tables, graphs, and images are helpful to include. A journal is an observational study over a period of time with personal impressions. It may cover watching changes of kinds of butterflies over the summer, rearing a specific insect from egg to adult, managing a bee hive, observations of insects in a specific habitat, or accounts of insect behavior in a forest or flower garden, etc.
- CLASS 901** **Other Exhibit** - A different exhibit made demonstrating the knowledge gained in the entomology project.

## FORESTRY

### GENERAL RULES – FORESTRY

1. **GENERAL RULES** -- See GENERAL RULES
2. **OFFICIAL REFERENCE** – The official reference for all forestry projects is *The Tree Identification Manual* (4-H 332). Other helpful forestry references include *Trees of Nebraska* (EC 92-1774-X), *Leafing Out* (4-H431) and *Plant a Tree* (EC 17-11-80). Printed materials are available from the Johnson County Extension Office for all currently enrolled 4-H members in Johnson County.
3. **DISPLAY GUIDELINES** –
  - 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.
  - Display "posters" must be made from a material, e.g. foam board or poster board, that will stand upright without buckling, and be no larger than 24" x 24".
  - Display "books" must measure no more than 16" x 16".
  - At least 5 of the 10 samples in Class 2, 3, 4, and 5 must be from the list of 60 species described in 4-H 332.
  - If more than 10 samples are included in a display, only the first 10 samples of the current year will be judged.
  - All samples must be from trees, NO shrubs.
  - The 10 samples to be judged 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.
  - 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.
4. **TOP EXHIBIT** – A top exhibit will be selected from those exhibits receiving purple ribbons in the Forestry division.

DEPARTMENT D	DIVISION 320			FORESTRY								
PREMIUM	Purple \$2.50	Blue \$2.00	Red \$1.50	White \$1.00								
<b>CLASS 1</b>	<p><b>Design-Your-Own-Exhibit</b> - Prepare an educational exhibit about some aspect of trees, forests, or forestry that is of special interest to you. Possible topics include paper recycling, forest fire, forest products, forest wildlife, or forest pests. The only requirement is that the display must be no larger than 24" x 24" x 24". You can use photographs, drawings, samples, charts, posters, etc. Include enough information to adequately explain the topic. Your display should be substantially different from other display classes. Be as creative as you like. See GENERAL RULES – FORESTRY for further guidelines.</p>											
<b>CLASS 2</b>	<p><b>Leaf Display</b> - The leaf display must include samples of "complete leaves" from at least 10 different tree species. The display must include at least two samples each of simple leaves, compound leaves, and conifer leaves. Leaves should be pressed, dried, and mounted.</p> <ul style="list-style-type: none"> <li>• <b>Collection:</b> Whenever possible, collect leaves from mature trees. The leaf samples should also be mature, representative of the average leaves on the tree, and in good condition. Keep in mind that shaded leaves often are much larger than normal. Carefully remove leaves from the twig with the entire petiole or rachis (if compound) intact. Collect leaves any time after they have reached full size, usually beginning in early summer. During 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.</li> <li>• <b>Mounting:</b> 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.</li> <li>• <b>Labeling:</b> Refer to 4-H 332 for labeling specifications. The label for each sample must include:               <table border="0" style="width: 100%; margin-left: 20px;"> <tr> <td style="width: 50%;">- Common name</td> <td style="width: 50%;">- Leaf composition (for broadleaf trees)</td> </tr> <tr> <td>- Scientific name</td> <td>- Collector's name</td> </tr> <tr> <td>- Leaf type</td> <td>- Collection Date</td> </tr> <tr> <td>- Leaf arrangement (for broadleaf trees)</td> <td>- Collection location (be specific, county, etc.)</td> </tr> </table> </li> <li>• Supplemental information, e.g. general uses, common products, fall color, etc., may be included with the display to enhance its educational value.</li> </ul>				- Common name	- Leaf composition (for broadleaf trees)	- Scientific name	- Collector's name	- Leaf type	- Collection Date	- Leaf arrangement (for broadleaf trees)	- Collection location (be specific, county, etc.)
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- See GENERAL RULES – FORESTRY for further guidelines
- 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 each 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" long including the terminal end, contain buds, be in good condition, and not include any leaves or petioles. Any side branches should be trimmed to less than 1". 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, may be used to mount twigs, but be sure all their features can be clearly identified. Be sure to cut the non-terminal end at a slant so the pith can be seen.
  - **Labeling** The label for each sample must include:
 

- Common name	- Collector's name
- Scientific name	- Collection date
- Leaf arrangement (for broadleaf trees)	- Collection Location (be specific, county, etc.)
  - Supplemental information, e.g. general uses, tree characteristics, etc., may be included with the display to enhance its educational value.
- See GENERAL RULES – FORESTRY for further guidelines.
- CLASS 4** **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 are 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. Collect seeds that are free of insect or disease symptoms. Remember to display the seeds, and not the fruit. For example, remove and display the seed from a honey locust pod, not just the pod itself. It is acceptable to display the fruit with the seed, but clearly label each. All collection must be done by the exhibitor.
  - **Mounting:** Seeds may be displayed in a variety of ways, but they must be securely mounted and easily viewed. For example, seeds might be mounted on a display board or displayed in jars in a rack. Be as creative as you like.
  - **Labeling:** The label for each sample must include:
 

- Common name	- Collector's name
- Scientific name	- Collection date
- Type of fruit, if know (e.g. samara, pod, etc.)	- Collection location (be specific, county, etc.)
  - Supplemental information, e.g. maturity date, average number of seed in the fruit, etc., may be included with the display to enhance its educational value.
- See GENERAL RULES – FORESTRY for further guidelines.
- CLASS 5** **Wood Identification 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 of a board, wood cylinders turned on a lathe, horizontal or vertical cross sections of a small log with bark attached, etc.) Each sample can be no larger than 4" x 4" x 4". 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, but they must be securely mounted and easily viewed. For example, wood samples may be mounted on a display board or displayed in a box or rack. Be as creative as you like.
  - **Labeling:** The label for each sample must include:
 

- Common name	- Collector's name
- Scientific name	- Collection date
- Wood type (softwood or hardwood)	- Collection location (be specific, county, etc.)
  - Supplemental information, e.g. common products, density, etc., may be included with the display to enhance its educational value.
- See GENERAL RULES – FORESTRY for further guidelines
- CLASS 6** **Cross Section of a Tree** - 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 judging day. The disc must measure 6" to 12" in diameter and 1" to 3" 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 precisely identified on the disc with pins, paper tags, etc.  
Pith, Heartwood, Sapwood, One growth ring, Cambium, and Bark  
A separate label attached to the back of the disc must include:
 

- Common name
- Scientific name
- Tree classification (softwood or hardwood)
- Age (of the cross section)
- Collector's name
- Collection date
- Collection location (be specific, including county and other relevant information)
- See GENERAL RULES – FORESTRY for further guidelines
- CLASS 7** **Parts of a Tree (This Project is ONLY for ages 8 – 11 Years Old)**
- Prepare a poster, no larger than 24" x 24" that clearly identifies the main external parts of any tree: Trunk, Crown, Roots, Leaves, Flowers, Fruit, Buds, and 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.
- See GENERAL RULES – FORESTRY for further guidelines

- CLASS 8 Living Tree Display** - Display a living tree seedling grown by the exhibitor from seed. The seed must be from a species listed in 4H 332. The seedling must be 60 days to 1 year old (on 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:
    - Common name
    - Scientific name
    - Seed treatments (if any)
    - Planting date
    - Emergence date
    - 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.
  - Supporting information will be an important factor in judging.  
See GENERAL RULES – FORESTRY for further guidelines

**HEALTHY LIFESTYLES EDUCATION**  
(FAVORITE FOOD REVUE, FOOD EXHIBITS, SAFETY & PHYSICAL FITNESS)  
**FAVORITE FOOD REVUE**

**GENERAL RULES – FAVORITE FOOD REVUE**

1. **ENTRY LIMITS** - Participants are allowed one entry.
2. **ELIGIBILITY** - The Favorite Food Revue is open to any currently enrolled 4-H member. Participants do not have to be currently enrolled in a foods project.
3. **PRE-ENTRY** - Participants must pre-enter by completing the appropriate entry form and submitting it to the Johnson County Extension Office by closing on the date designated by the Extension Office.
4. **PURPOSE** - The Favorite Food Revue combines food preparation, menu planning, and table setting skills.
5. **REQUIREMENTS**
  - Participants should plan a menu suitable for the chosen occasion or theme.
  - Participants should prepare one menu item that is comparable in skill difficulty to the age and experience of the exhibitor. Foods prepared should be different those prepared in previous years. The recipe for the prepared food does not have to come from a 4-H manual.
  - Participants should bring the following items the day of the contest: Table service, Centerpiece, Menu Card, Recipe Card, and Card Table
6. **JUDGING** - The Food Revue will be judged by the interview method. 4-H members will visit individually with the judge at their scheduled time. 4-H members should be knowledgeable about their food product; its preparation, nutritional value, cost, etc.; as well as their menu, table service, and planned occasion for serving.
7. **DRESS CODE** - Participants should dress appropriately for the contest (official 4-H attire is not required).
8. **AWARDS** - Special awards will be given to the top three individuals in the Junior (ages 8 to 10), Intermediate (ages 11 to 13), and Senior (ages 14 and over) Divisions. Additionally, the judge will select a top exhibit in the following categories: casual, formal, picnic, and holiday/special occasion.
9. **STATE FAIR** – The top four individuals receiving a purple placing in the Intermediate and Senior Divisions of the Johnson County Favorite Food Revue are eligible to advance to the Nebraska State Fair 4-H Culinary Challenge Contest (see Nebraska State Fair 4-H Fair Book for further rules). For the state contest each county is eligible to submit four two-person teams (two Intermediate Division team and two Senior Division team). Only two-person teams are allowed to compete at the state contest so teams will be created at the county level based on the criteria stated above.

<b>DEPARTMENT E</b>		<b>DIVISION 200</b>	
<b>PREMIUM</b>	<b>Purple \$4.00</b>	<b>Blue \$3.00</b>	<b>Red \$2.00</b>
<b>CLASS 901</b>	<b>Junior Division</b>	8 to 10 years of age	
<b>CLASS 902</b>	<b>Intermediate Division</b>	11 to 13 years of age	
<b>CLASS 903</b>	<b>Senior Division</b>	14 years of age and older	<b>FAVORITE FOOD REVUE White \$1.00</b>

**FOODS**

**GENERAL RULES – FOOD EXHIBITS (Food & Nutrition, Food Preservation, and Creative Foods Artistry)**

1. **GENERAL RULES** – See GENERAL RULES
2. **ENTRY LIMITS** – In the Food & Nutrition and Creative Food Artistry projects 4-H members are allowed entries in only **ONE LEVEL** of competition (Beginning, Intermediate, or Advanced). 4-H members may only enter **ONE EXHIBIT** per class in ALL projects.
3. **LABELING & PACKAGING** –
  - Each exhibit must include the recipe. 4-H exhibits not having the recipe will be lowered one ribbon.
  - Recipe can be handwritten, typed or photocopied.
  - Exhibits should be placed on the appropriate size paper plate and placed in a self-sealing bag.
  - Attach entry tag and recipe at the corner of the bag outside.
  - All additional information (recipes, special items, etc.) must be labeled with the exhibitor's name and county.
4. **CRITERIA FOR JUDGING** –
  - Exhibits will be judged according to score sheets available in the Extension Office
  - Carefully follow entry instructions and include all required materials. Incomplete exhibits will be lowered one ribbon placing.
  - Commercially prepared mixes are allowed in the Tasty Tidbits – Creative Mixes class (CLASS 2) ONLY!
  - Prepared baking mixes, biscuit mixes, or other pre-made mixes entered in other categories will be lowered one ribbon placing.
5. **FOOD SAFETY STANDARDS** –
  - Items that require refrigeration will not be accepted, judged, or displayed.
  - Food products must be unquestionably safe to eat when they are entered, whether tasted or not.
  - Egg glazes on yeast products before baking are allowed.
  - Glazes, frostings, and other sugar-based toppings are also considered safe due to the high sugar content.
  - Eggs incorporated into baked goods or crusts and cheese mixed into bread dough are considered safe.
  - Uncooked fruit is not allowed in any exhibit due to spoilage (i.e. fresh fruit tart). All fruit must be cooked.
  - Cream cheese fillings and/or frostings are not allowed. Meat, dried meat, meat substitute pieces (bacon bits, pepperoni, etc.) or melted cheese toppings are not allowed in food exhibits. They may result in an unsafe food product by the time the item is judged due to unpredictable heat and/or weather conditions and will be disqualified.