



ECOLOGY, NATURAL RESOURCES
Division 6026 – ECOLOGY, NATURAL RESOURCES
Blake Newton - Staff Consultant

1. See General Rules applying to all 4-H exhibitors and 4-H exhibits other than livestock listed previously in this catalog.
2. **Each county may have 1 entry per class. An exhibitor may enter only one class Entomology and one class in Honey.**
3. Specifications for exhibits:
 - a. 9" x 13" folding cardboard insect-collection boxes available through UK College of Agriculture, Department of Entomology, should be used. Homemade or purchased wooden exhibit boxes may be used instead. They must be approximately 18" x 24" and not more than 3 1/2" thick with Plexiglas or glass covers and cellotex pinning bottoms (or plastazote or polyethylene pinning bottoms available from entomology supply stores such as Bioquip.com). Boxes must be easily opened (for instance; if a screw is used to secure Plexiglas tops, use a thumbscrew fastener instead of a fastener that requires a tool).
 - b. Specimens are to be arranged so the box can be exhibited horizontally. 4-H'ers may attach wires to the back of wooden boxes to help make them easier to display.
 - c. Identification labels available from your County Extension Office must be used, or custom labels may be printed if they conform exactly to the font, font size, and font color of the official labels. Labels should be printed onto white cardstock. The exhibit identification card should be placed on the front of the box (each box). Instructions for pinning and labeling are included in your project literature.
 - d. One half of the specimens may be from the previous year's collection or from anywhere in the United States; one half or more must be Kentucky insects collected since the last Kentucky State Fair.
 - e. For the first through fifth year projects, a display collection catalog must be in an envelope attached to the back of the display box. Envelopes should be attached to permit their being opened easily to remove catalogue from them without moving the exhibit.
 - f. Most specimens in the display cases should be pinned, and the use of vials is discouraged. If vials are used, they may account for no more than 2% of a collection. Vials must be securely wired or pinned to the pinning bottoms.
 - g. The inclusion of non-insect specimens (spiders, e.g.) is encouraged, but because this is primarily an insect collection, and because non-insects do not preserve well on insect pins, points will be deducted if there are more than one specimen from each non-insect class.

4. Entomology exhibits are judged on the following categories: Orders, Species, Common Names, Labels, Condition of Specimens, Overall Appearance, Life Cycle Representation, Catalog of Specimens. Check with county 4-H Agent for point distribution on score sheet.
5. Exhibits will be penalized if they do not:
 - a. Use insect pins for pinning insects.
 - b. Use the 4-H Entomology identification labels.
 - c. Use display boxes that are not the official 9" x 13" cardboard boxes acquired through the Dept. of Entomology, or wooden boxes that are approximately 18" x 24" x 3 1/2".
 - d. Fulfill the requirements of the particular exhibit under which it is entered.
 - e. Have the insects arranged so the box can be exhibited horizontally.
 - f. Have the display collection catalogue in an envelope attached to the back of the display box through fifth year projects.
6. No extra credit will be given for specimens exhibited beyond the numbers listed in the current project books.
7. 4-H'ers entering fifth year cannot use the same exhibit that has been judged in any previous State Fair.
8. 4-H Entomology exhibits will be divided into the following classes:
 - 687 First year project (Up to three 9" x 13" official cardboard boxes, or up to two 18" x 24" wooden boxes, with minimum of 25 insects, maximum 50 insects, from at least four orders. Identification beyond order not necessary. All specimens must have date and locality label.)
 - 688 Second year project (Up to three 9" x 13" official cardboard boxes, or up to two 18" x 24" wooden boxes, with minimum of eight orders and not less than 50 insects, nor more than 100 insects.) Half of the insects should be identified with a common name.
 - 689 Third year project (Three 9" x 13" official cardboard boxes, or two 18" x 24" wooden boxes, with a minimum of 10 orders and 100 insects, a maximum of 150 insects.)
 - 690 Fourth year project (Three 9" x 13" official cardboard boxes, or two 18" x 24" wooden boxes, with minimum of 12 orders and 150 insects, no maximum) An addition cardboard or wooden box with an example of insect damage, the stage of the insect causing the damage and any other stage of the insect that helps identify the problem. Include information in the display that tells how the insect is controlled. Life cycle of two insects may be displayed if desired.
 - 691 Fifth year project (may be repeated for successive years of eligibility but must be a different exhibit. No exhibit that has been judged in any previous State Fair may be entered.) Any type of display that pertains to experiences beyond those of previous projects. Special collections of native and/or exotic butterflies, beetles to some other insect order; a study in depth of one insect or small group of insects: a display of insect camouflage: a display of plastic embedded insects: a collection of insect larvae and nymphs are examples. Charts, photographs, models or any other visual aids may be used. 4-H'ers are encouraged to write a short (1 or 2 paragraphs) statement developing the theme of their fifth year display.

HONEY
Tom Webster - Consultant

Honey will show better in oval, flat sided to square clear glass containers. 4-H'ers **must** use standard honey jars. **Except class 696, wide-mouth mason jars or wide-mouth honey jars may be used.** The jars and lids must be **clean**. **Fill jars to within ½ inch of top.** **Note: Two jars must be submitted for the following classes.**

- 692 Two one pound containers of white extracted honey
- 693 Two one pound containers of light amber extracted honey
- 694 Two one pound containers of amber extracted honey
- 695 Two one pound containers of dark amber extracted honey
- 696 Two wide mouth quart jars of chunk honey, any color.

A Grand Champion and Reserve Champion will be selected for Entomology Division and also for Honey Division.

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