

Department 26 — 4-H ENTOMOLOGY

Superintendents, Lydia Flax, Paula Shaw
Junior Superintendent, James Flax

Grand Champion and Reserve Grand Champion awarded overall.

All entries are to be placed in **Plexiglas** covered wooden boxes with outside measurements of 18"x24"x3½". **Display boxes with glass covers WILL NOT be accepted.** See the specific phase for box and specimen number limitations.

Each exhibitor is required to identify each box by placing an identification label bearing exhibitor's name, county or district and the class. One label goes in the upper left corner of the box (inside) and the other on the lower right corner of the box (outside). Arrange specimens in the box so it can be displayed lengthwise.

The number of orders, specimens (and families where required) must be included on the exhibitor's box identification label.

Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box (see illustrations in 4-H 829). Arrangements that run lengthwise of the box are frequently downgraded in judging. Specimens are to be arranged in the box according to Order. Begin with the more primitive orders first (Collembola) and follow the sequence used in, *Insects in Kansas*, as revised in 2000.

For each collection class, two labels will be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label is a date/locality label.

Emphasis in judging will be placed on the overall variety of Kansas insects represented in the collection, accuracy of identification, skill and technique acquired in mounting of specimens, and overall arrangement and appearance of the collection.

Specimens of soft bodied insects such as aphids, lice, collembola, termites and etc. should be exhibited in alcohol filled vials, however, the use of alcohol filled vials should be limited to only those specimens that lose their shape when pinned, since the vials pose a significant hazard to the rest of the collection if they become loose in transit.

EDUCATIONAL DISPLAYS are to be exhibited in one standard size insect box and identified by use of an identification label as discussed above. It is to include the exhibitor's name, county or district and class. Information on numbers and kinds of insects is not needed for educational exhibits.

Displays may consist of specialized groups of insects, or relate to any aspect of insect life. Displays should be presented in a clear, concise and interesting manner. Educational displays are limited to one standard box, a maximum of 150 specimens, and work performed during the current year. Title of exhibit should be indicated inside the box. Purpose of the project is to learn more about the importance, life cycles, biology, ecology, diversity, etc. of insects and related arthropods. Subject matter can be as varied as the animals themselves.

Those enrolled in the Beginning, Intermediate and Advanced Phases may enter a collection and/or an educational exhibit.

Section 1– INTRODUCTORY ENTOMOLOGY

Class 2600 Introductory Entomology (not eligible for the Kansas State Fair). Minimum specimens, 15.

Maximum specimens 30. Minimum orders. 6.

Open to those in their first two years of entomology. Specimens must be exhibited in small cardboard or plastic boxes (1 or two boxes with a total display area no more than 130 square inches). Boxes can be homemade by placing a layer of polystyrene foam in the bottom of a shoebox, school box, or storage container or can be purchased from a biological supply company. For the exhibit, the boxes should be covered with a clear plastic wrap or acrylic glass taped across the top of the box.. Insect names are not required however, date-locality labels are required for each specimen. Order labels must be pinned to the bottom of boxes.

Section 2– BEGINNING ENTOMOLOGY I

Class 2610 Collection

Display in one standard box a minimum of 50 and maximum of 125 species representing at least 7 orders. Follow the general rules listed for all collections. Specimens should be grouped according to order with the order labels pinned to the base of the box. Members can exhibit in this class a maximum of 3 years or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

Section 3– BEGINNING ENTOMOLOGY II

Class 2620 Collection

Display in one standard box a minimum of 75 and maximum of 150 species representing at least 9 orders. Specimens should be grouped according to order with the order labels pinned to the base of the box. Members can exhibit in the class a maximum of 3 years, or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

Class 2621 Beginning Educational Exhibit

Section 4– INTERMEDIATE ENTOMOLOGY

Class 2630 Collection

Display a minimum of 100 and a maximum of 300 insects representing at least 10 orders. Two standard boxes can be used. All specimens should be grouped to order. In addition, family identification is required for all insects in any two of the following six orders: Orthoptera, Hemiptera, Homoptera, Coleoptera, Diptera, and/or Hymenoptera. Observe that the number of families identified in these two orders must be recorded on the box identification labels. Families represent subdivisions of order grouping, with family labels pinned to the bottom of the box to represent subdivisions of the appropriate order. Members can exhibit in this class a maximum of 3 years.

Class 2631 Intermediate Educational Exhibit

Section 5 – ADVANCED ENTOMOLOGY

These classes are for 4-Hers enrolled in a Self-Determined project.

Class 2640 Collection

Display a minimum of 150 and a maximum of 450 insects representing at least 12 orders. Three standard boxes can be used. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. All butterflies appearing in the collection should be labeled with the correct common name. Members may continue to exhibit in this class at the Kansas State Fair for an unrestricted number of years as long as they remain eligible for 4-H membership. **List what you did this year to improve your project.** Attach this list to top third of entry card.

Class 2641 Advanced Educational Display

Section 6– BEE SCIENCE - Not eligible for Ks. St. Fair

Class 2650 Honey, dark, 2 one pound Queenline jars

Class 2651 Honey, light, 2 one pound Queenline jars

Class 2652 Molded or sculpted bees wax