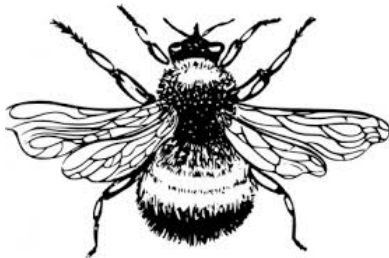


4-H ENTOMOLOGY



1. READ GENERAL RULES AND REGULATIONS.
2. A 4-H member may choose to exhibit in the Entomology Collection, Entomology Notebook, and/or Educational Display categories.
3. Resources for exhibiting can be found on the Kansas 4-H Entomology Project Page.
4. 4-Hers should avoid using copyright materials whenever possible by originating his/her own work. Copyrighted and/or trademarked materials utilized in banners, displays, demonstrations, posters or other activities for endorsement or promotion instead of educational purposes will be disqualified and will not be displayed or receive ribbons or premium.

AWARDS:

Overall Grand Champion Entomology Trophy

COLLECTIONS CLASSES

General Guidelines

1. Individual entries are to be placed in Plexiglas covered wooden boxes 18" x 24" x 3 1/2" (maximum). Boxes with glass covers WILL NOT be accepted. Boxes can be handmade or purchased as long as they are of the correct size. Please visit the Kansas 4-H Entomology Project page for box instructions and plans.
2. 4-Hers may choose to use one of two taxonomies:
 - A. As printed in "Insects in Kansas" book or
 - B. As printed on the "Insects in Kansas Book: 2016 Revised Taxonomy" which follows www.bugguide.net.
3. Each exhibitor is required to identify each box with two identification labels bearing exhibitor's name, county, the collection class 4-H'er is enrolled, and statement of taxonomy used. One label goes in the upper left corner of the box (inside), and other on the lower right corner of the box (outside.) Arrange specimens in the box so it can be displayed lengthwise.
4. The number of orders, specimens (and families where required) must be included on both of the exhibitor's box identification label. Only one adult insect per species can be used in the Collection Boxes and Notebook Classes, unless labeled as male or female and correctly identified.
5. Arrangement of specimens: The preferred method is to arrange the insects in groups or rows parallel to the short sides of the box. Specimens are to be arranged by Order in the box, then Family where required.
6. Two labels should be centered on the pin beneath each specimen. First (closest to the specimen) is the common name label and the second label should include date/locality. Full county name and state abbreviation should be on the second label. Collector's name (or host) on the date/locality label is optional.
7. The specimens should be collected by the exhibitor and should focus on Kansas insects. Insects may be collected from one county into bordering states, and labeled accordingly. Please refer to "Entomology Collection Exhibit Resource" for full details on out-of-state insects in collections.
8. Only specimens of the class Insecta should be included.
9. Purchased insects are not to be exhibited in collections, but they may be used in educational displays.
10. Specimens of soft bodied insects such as aphids, lice, termites, 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.

CLASS:

415001—Insect Collection: This class is for the very young 4-Hers (Suggested ages: 7-9) that are just getting started making an insect collection. Participants should display 15 to 30 insects representing a minimum of 6 orders. These collections are to 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 shoe box, school box, or storage container or can be purchased from a biological supply company. For the exhibit, the boxes should have a clear plastic top. (Not eligible for Champion Entomology)

415002—BEGINNING I ENTOMOLOGY COLLECTION

Display in one standard box a minimum of 50 and maximum of 125 species representing at least 7 orders. Follow the general guidelines listed for all collections. 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.

415003—BEGINNING II ENTOMOLOGY COLLECTION

Display in one standard box a minimum of 75 and maximum of 150 species representing at least 9 orders. Follow the general guidelines listed for Collections. 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.

415004—INTERMEDIATE ENTOMOLOGY COLLECTION

Display a minimum of 100 and a maximum of 300 species representing at least 10 orders. Two standard boxes can be used. Follow the general guidelines listed for Collections. In addition, family identification is required for all insects in any two of the following six orders (Only two will be counted for judging):

- A) "Insects in Kansas Book," Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera OR
- B) "Insects in Kansas Book: 2016 Revised Taxonomy," which follows www.bugguide.net, Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera.

On a piece of paper list what you did to improve your collection during the current year. 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.

415005—ADVANCED ENTOMOLOGY COLLECTION

Display a minimum of 150 and a maximum of 450 species representing at least 12 orders. Three standard boxes can be used. Follow the general guidelines listed for Collections. Family identification is required for all insects belonging to the six basic orders as outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. On a piece of paper list what you did to improve your collection during the current year. Examples: What insects did you add or replace, what orders and/or families you added; what Leadership you have provided in this project, and/or what insects you have studied. Attach the paper to the back of one of the display boxes. 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.

NOTEBOOK CLASSES

General Guidelines

1. Individual entries are to be placed for display in a three ring notebook for competition.
2. 4-Hers may choose to use one of two taxonomies:
 - A. As printed in *"Insects in Kansas"* book or
 - B. As printed on the *"Insects in Kansas Book: 2016 Revised Taxonomy,"* which follows www.bugguide.net
3. Exhibitors who have been previously enrolled in or are currently enrolled in the other phases of the Entomology project need to start with the Beginning Phase of Entomology Notebooks, not the Introductory phase.
4. Each exhibitor is required to identify the notebook by placing a Title page in the front of the notebook bearing the exhibitor's name, county, class 4-H'er is enrolled, and statement of taxonomy used:
 - A. As printed in *"Insects in Kansas"* book or
 - B. As printed on the *"Insects in Kansas Book: 2016 Revised Taxonomy,"* which follows www.bugguide.net

The number of orders, specimens and families (required in Intermediate and Advanced classes) must also be included on the Title Page.

5. Specimen pages should be grouped according to order, and should include one page per species. If more than one insect is in the photo, an arrow to indicate the identified insect should be used.
6. Date, common name, full county name, and state abbreviation should be included for each species. Collector's name on the specimen page is optional.
7. Specimen pages should have two different views of the insect if possible. If pictures are taken on different dates/localities, include information for both.
8. A statement describing the habitat where found/host plant may be included and is encouraged and will be worth a bonus 10 points total, not per page. For Intermediate and Advanced Notebooks, this is strongly encouraged.
9. A divider page is to be placed in front of each order of insects with the order name printed on the tab for the page and also on the front of the divider page.
10. For the intermediate and advanced classes, insects are also to be grouped by family behind each order divider.
11. If the exhibitor has been in the same class for more than one year, a separate sheet of paper needs to be added stating how many years the exhibitor has been in this class of the project, and what the exhibitor did this year to improve their notebook. Place the paper just behind the Title Page in front of the notebook.
12. A special project must be completed each year, and included in the notebook. See project guide materials for specifications.
13. Refer to the publication *"Entomology Collection Notebook Guidelines"* on the Kansas 4-H Entomology web page for more detailed rules for exhibiting.

CLASS:

415101—INTRODUCTORY ENTOMOLOGY NOTEBOOK

Display a minimum of 10 and a maximum of 30 insect species representing at least 6 different orders. Follow the general guidelines listed for Notebooks, including the Special Project. A 4-Her may exhibit in this class for a maximum of two years.

415102—BEGINNING ENTOMOLOGY NOTEBOOK

Display a minimum of 20 and a maximum of 60 insect species representing at least 7 different orders. Follow the general guidelines listed for all Notebooks, including the Special Project. A 4-H member may exhibit in this class for a maximum of three years, or until they receive a purple ribbon at the Kansas State Fair, whichever comes first.

415103—INTERMEDIATE ENTOMOLOGY NOTEBOOK

Display a minimum of 60 and a maximum of 100 species representing at least 9 orders. Follow the general guidelines listed for Notebooks, including the Special Project. In addition, family identification is required for all insects in any two of the following six orders: (Only two will be counted for judging)

- A) *"Insects in Kansas Book"*—Orthoptera, Hemiptera, Homoptera, Coleoptera, Hymenoptera, and/or Diptera. Or
- B) *"Insects in Kansas Book: 2016 Revised Taxonomy,"* which follows www.bugguide.net—Odonata, Orthoptera, Hemiptera, Coleoptera, Hymenoptera, and/or Diptera.

A 4-H Member 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.

415104—ADVANCED ENTOMOLOGY NOTEBOOK

Display a minimum of 100 and a maximum of 200 species representing at least 12 orders. Follow the general rules listed for Notebooks, including the Special Project. Family identification is required for all insects belonging to the six basic orders outlined under the Intermediate phase. Only families in the above six orders will be counted for judging. Family identification of insects in the remaining orders is optional, but desirable as long as accuracy is maintained. Members may continue to exhibit in this class for an unrestricted number of years as long as they remain eligible for 4-H membership.

EDUCATIONAL DISPLAY CLASSES

General Guidelines

1. Share with others what you learned in this project. Exhibit any activity or learning experience related to the field of entomology or the Teaming with Insects curriculum that does not fit into the Entomology Collection or notebook classes previously discussed.
2. Follow copyright laws as explained in the General Rules.
3. The exhibit may be, but is not limited to: original works, digital presentations (must provide printed hardcopy for exhibit purposes for duration of fair), programs, websites, games, apps, display box, notebook, display or poster which you have made.
4. If the exhibit is a wooden display box, it must be 18"x24"x3.5" with a clear plastic top (such as Plexiglas) and displayed horizontally. If the exhibit is a poster, it must not be larger than 22"x28". If the exhibit is a display, maximum size is not to exceed a standard commercial 3'x4' tri-fold display board.
5. Name and county must clearly be marked on educational exhibits.
6. Creativity is encouraged!

415201—BEGINNING EDUCATIONAL DISPLAY

Class for individuals that are exhibiting in the Beginning I and II Collection or Beginning Notebook Classes. If only exhibiting in this category, then ages 7-9

415202—INTERMEDIATE EDUCATIONAL DISPLAY

Class for individuals that are exhibiting in the Intermediate Collection or Intermediate Notebook Classes. If only exhibiting in this category, then ages 10-13.

415203—ADVANCED EDUCATIONAL DISPLAY

Class for individuals that are exhibiting in the Advanced Collection or Advanced Notebook Classes. If only exhibiting in this category, then ages 14 or older.