

## DEPT H - ENTOMOLOGY

Purple award \$3.00; blue award \$2.50; red award \$2.00; white award \$1.00

### Insect Collections

Specimens should be mounted properly and labeled with the date and location of collection, name of collector, and order name. Follow mounting and labeling instructions in the Nebraska 4-H Entomology Manual. Boxes are preferred to be 12" high x 18" wide, and landscape orientation, so they fit in display racks. Purchase of commercially made boxes is allowed. All specimens must be from the collector. All static exhibits must have received a purple ribbon at the County Fair to advance to the State Fair. Exhibitors may, and should, correct and update collections for competition at the State Fair.

- H-800-001 Entomology Display – first year project – Collection to consist of 25 or more different kinds (species) of insects representing at least 6 orders. Limit of one box.
- H-800-002 Entomology Display – second year project – Collection to consist of a minimum of 50 kinds (species) of insects representing at least 8 orders. Replace damaged or poorly mounted specimens. At least 25 species must be present from after July 1 of the previous year. Limit 2 boxes.
- H-800-003 Entomology Display – third or more year project – Collection to consist of minimum of 75 kinds (species) of insects representing at least 10 orders. Replace damaged or poorly mounted specimens. At least 25 species must be present from after July of the previous year. Limit of 3 boxes.
- H-800-004 Special Interest or Advanced Insect Display – Educational display developed according to personal interests and/or advanced identification capability. This is also an opportunity to highlight favorite insects in a creative arrangement. Insects should conform to pinning and mounting standards as in classes 1-3 and be protected in an insect box. Each specialty display should include the names of the insects, interesting information about them, and why the display was made. Advanced identification collections should have insects grouped with labels that correspond with identification level (i.e., family, genus, and species). A specialty collection may consist of insects by taxonomic group (i.e., butterflies, grasshoppers, dragonflies, scarab beetles) or by host, subject or habitat (i.e., insect pests of corn, aquatic insects, insect mimicry, insect galls, insects from goldenrod, insect pollinators, etc.).
- H-800-005 Insect Habitats (Class V) – Habitats consist of any hand-crafted objects, made of natural or artificial materials, placed outdoors, 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. Report should include placement, target insect, why materials were chosen, functional design, and indicators of success. See the following for reports:
- Nebraska Extension NebGuide: Creating a Solitary Bee Hotel
  - University of Minnesota: Wild Bees and Building Wild Bee Houses
  - National Wildlife Federation: How to Provide Water in Monarch Gardens
- H-800-006 Macrophotography (Class VI) – Subjects should be insects, spiders or other arthropods, or any nests, webs or constructions they make. All exhibit prints should be either 8" x 10" or 8½" x 11" and mounted on rigid, black 11"x14" poster or matt board. Either orientation is acceptable. No

frames or mat board framing allowed. A caption of a few sentences should explain the subject, and be printed on white paper, should be glued below the print on the poster.

- H-800-007 Insect Poster/Display Exhibits - Exhibits can be posters or three-dimensional displays, and artistic creativity is encouraged. Posters should be no larger than 22"x28". 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 (example – nesting, finding food, mobility, defenses, etc.); habitats (example – 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"x28" area.
- H-800-008 Reports or Journal. 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 of 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 in kinds of butterflies over the summer, rearing a specific insect from egg to adult, managing a beehive, observations of insects in a specific habit, accounts of insect behavior in a forest or flower garden, etc.

### **Special Entomology Project**

- H-810-001 Special Entomology Project - Educational exhibit based on what was learned from the project. Present information on a poster no larger than 22" x 28" either vertical or horizontal arrangement or in a clear plastic report cover. The 4-H member's name, age, full address, and county must be on the back of the poster or report cover. Reports may include life cycle, distribution of the insect, insect behavior (ex. nesting, finding food, mobility, defenses, etc.); habitats (e.g. forests, grasslands, wetlands, rivers, or lakes). May include a certain species or broad overview of the family or group of insects.
- H-810-002 Special Entomology Project Display - The current year's Special Entomology Project pinned species along with a one to two report of what was learned from researching the insect type. Reports may include life cycle, distribution of the insect, insect behavior (ex. nesting, finding food, mobility, defenses, etc.); habitats (e.g. forests, grasslands, wetlands, rivers, or lakes). May include a certain species or broad overview of the family or group of insects.