

member's experimental garden. Display not to exceed 30" wide x 24" deep x 36" high.

VEGETABLE EXHIBITS, SENIORS

4-H members may enter a maximum of 5 plate exhibits in addition to their choice of a vegetable collection exhibit, commercial display, or educational display.

712 100 013 Plate Exhibit of 1 Type, limit 5 entries

712 100 023 Vegetable Collection Exhibit, include 5 different vegetables in same amounts required as in plate exhibits.

712 100 033 Commercial Display, include 10 lb. unit of produce with record of cost of commercial garden.

712 200 043 Educational Display, describe experimental design and results of an experiment in commercial garden. Display not to exceed 30" wide x 24" deep x 36" high.

HERBS

Herbs must be grown by the exhibitor. Exhibitors may enter only one exhibit in each class number. A Herb Dried, Fresh-Cut Explanation Card (712-06) must be firmly attached to all herb exhibits which are judged by the criteria in Herb Fresh Exhibit Score Sheet (712-05) and Herb Dried Exhibit Score Sheet (712-04) which are available at the Extension Office or on the State 4-H website at, <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>.

The publication Select and Prepare Herbs for Exhibit (4H 2335) should be used by exhibitors as reference which is online at: <http://extension.oregonstate.edu/catalog/4h/4-h2335.pdf>. Selection of herbs is the choice of the 4-H member. Any herb available in your area of the state may be exhibited. A list of herbs that could be exhibited is listed in the Michigan 4-H Guide To Herb gardening (4-H 2329) but may be taken from any table any year.

HERB EXHIBITS, FRESH CUT

Fresh cut herbs with their own vegetables class, such as onions and garlic, should be exhibited in that class, not in the Fresh Cut Herb classes.

712 117 001 Herbs, Fresh Cut, Junior (one bunch with stems one inch in diameter)

712 117 011 Cut Herb Collection, Junior (include 3 different herbs in same amounts as fresh cut exhibit)

712 117 002 Herbs, Fresh Cut, Intermediate (one bunch with stems one inch in diameter)

712 117 012 Cut Herb Collection, Intermediate (Include 4 different herbs in same amounts as fresh cut exhibit, 1 which is new this year)

712 117 003 Herbs, Fresh Cut, Senior (one bunch with stems one inch in diameter)

712 117 013 Cut Herb Collection, Senior (5 different herbs in same amounts as fresh cut exhibit, 2 which are new this year)

HERB EXHIBITS, DRIED

The information card must include drying method. Basil, chives, dill leaves, fennel and parsley should not be exhibited dried because they are best preserved by freezing. Display all herbs in a self-closing bag: one inch bunch secured with a twist tie or three tablespoons dried leaves or one tablespoon of dried seeds.

712 118 001 Herbs, Dried, Junior, Display all herbs in self-closing bag: one inch bunch secured by a twist tie or 3 tablespoons dried leaves or 1 tablespoon dried seeds.

712 118 011 Herbs, Dried Collection, Junior, (3 herbs in same amounts as dried herb exhibit)

712 118 002 Herbs, Dried, Intermediate, Display all herbs in self-closing bag: one inch bunch secured by a twist tie or 3 tablespoons dried leaves or 1 tablespoon dried seeds.

712 118 012 Herbs, Dried Collection, Intermediate, (4 herbs in same amounts as dried herb exhibit, 1 which is new this year)

712 118 003 Herbs, Dried, Senior, Display all herbs in self-

closing bag: one inch bunch secured by a twist tie or 3 tablespoons dried leaves or 1 **tablespoon dried seeds**.

712 118 013 Herbs, Dried Collection, Senior, (5 herbs in same amounts as dried herb exhibit, 2 which are new this year)

4-H NATURAL SCIENCES

ENTOMOLOGY

Note: Each exhibit piece must be labeled with the member's name, county and class number. All insects must be collected in the current year for Juniors First Year exhibits. At least 50% of those displayed by Juniors Second and Third Year, Intermediates and Seniors must have been collected in the current year.

New requirement beginning in 2014: An insect information sheet, titled Information on New Insects in Collection for Current 4-H Project Year, is required with Intermediate and Senior insect collections. This sheet should be completed only for the new insects collected in the current project year. Make additional copies of page 2 as needed to list the new insects in the current year. The form is available on line at

<http://oregon.4h.oregonstate.edu/natural-science>.

Attach the completed sheets to the bottom of the collection box in an unsealed envelope for the judge to read at fair.

821 100 011 Entomology, Junior First Year, 10 insects, from at least 8 orders.

821 100 021 Entomology, Junior Second and Third Year, 15-20 insects, from at least 10 orders.

821 100 012 Entomology, Intermediate First Year, 16 to 30 insects, at least 12 orders.

821 100 022 Entomology, Intermediate Second and Third Year, 36 insects, at least 12 orders.

821 100 013 Entomology, Senior First Year, 26-40 insects, at least 15 orders.

821 100 023 Entomology, Senior Second and Third Year, 35-50 insects from at least 15 orders.

Judging will be based on condition of specimens, mounting, labeling, attractiveness, correct number of specimens, correct identification and educational value of exhibit. Additional information is found in the Entomology Project Manual (4H3221L July 1995). Judging criteria are outlined on the Entomology Exhibit Score Card (821-01), available at the county Extension Office or on the State 4-H website at: <http://oregon.4h.oregonstate.edu/contest-materials-natural-science>

Some of the orders have changed in Entomology by combining old orders or making new ones. Be sure to use the current order names for the insects check with the Extension office or go to the State 4-H website at: <http://oregon.4h.oregonstate.edu/natural-science>. See the link to "UPDATE" under the heading First Year, next to the 4-H Entomology Manual (4H3221) for the updated "Insect Orders, Meanings, Common Names". Recommended reference for entomology orders for labels of specimens, Borror and Delong's Introduction to the Study of Insects 7th Edition written by Charles A. Triplehorn and Norman F. Johnson. In the event of a discrepancy this reference will be considered the correct information source.

OTHER ENTOMOLOGY EXHIBITS

Note: Each exhibit piece must be labeled with the member's name, county and class number. First year exhibitors in an exhibit category may use insects collected in previous years. Succeeding years exhibits in the same exhibit category must include some insects collected in the current year.

821 100 511 Other Entomology Exhibits, First Year Junior

Member, exhibit 10 to 20 different insects in the categories of beneficial insects, harmful insects, insects attracted to lights, soil insects, aquatic insects, forest insects, specialize in an insect order, garden insects, insect plant damage (Riker mount) or other educational display.

Note: Fill in blank in class number () with corresponding number for Junior, Intermediate or Senior.

1 Junior (10 to 20 different insects)

2 Intermediate (15 to 35 different insects)

3 Senior (no more than 50 different insects)

4 Club (two or more members working together)

821 100 52_ Other Entomology Exhibits, exhibit in categories of Insects attracted to lights; Garden insects; or Beneficial insects (e.g., pollinators or predators) NOTE: Honeybee topics should be entered as a Honeybee Exhibit; please see the exhibit description in the following section.

821 100 53_ Other Entomology Exhibits, exhibit in categories of Harmful insects (e.g., parasite, pest or disease); Insects plant damage (Riker mount); Specialize in an insect order

821 100 54_ Other Entomology Exhibits, exhibit in categories of Soil insects; Forest insects; Aquatic insects

821 100 55_ Other Entomology Exhibits, size: 30" wide, 24" deep (front to back) and 36" high. Examples could include experiments, surveys, photographs, life histories, purchased insects, etc.

821 100 56_ Other Entomology Exhibits, Spiders and other insect relatives exhibit. Exhibit can include a collection of spiders, centipedes, millipedes, ticks, mites, scorpions or a combination of insect relatives and/or an educational display about them. Examples for a display could include experiments, surveys, photographs, life histories, etc. Live spiders or insect relatives may not be displayed. Specimen Collections: should be a collection of identified labeled specimens in alcohol

bottles fastened into a box. Exhibitors making a collection using alcohol bottles should follow the guidelines for insect specimens in the entomology manual. Educational displays may not exceed 30" in width, 24" deep (front to back), and 36" high.

Judging will be based on condition of specimens, mounting, labeling, including correct spelling of names, attractiveness, correct number of specimens, correct identification and educational value of exhibit. For those not applicable, such as insect plant damage and life histories, they may be mounted as Riker mounts. Follow instructions on page 18 in the 4-H Entomology Manual (4-H 3221) for Riker mounts. In addition, the collections should be labeled to explain their educational value and will be judged based on the scoring used for entomology exhibits Entomology Exhibit Score Card (40-605) and Educational Display check sheet (40-463) available from the county Extension office or on the state 4-H website at, <http://oregon.4h.oregonstate.edu/resources/materials> Size dimensions are 30" wide, 24" deep, 36" high. Include explanation to the judge as outlined under Educational Display in fair book.

Some of the orders have changed in Entomology by combining old orders or making new ones. To be sure of the correct current order names for the insects in the collection, check with the Extension office or go to the website at: <http://oregon.4h.oregonstate.edu/natural-science> for the updated "Insect Orders, Meanings, Common Names"

Recommended reference for Entomology orders for identification of specimens, Borror and Delong's Introduction to the Study of Insects 7th Edition written by Charles A. Triplehorn and Norman F. Johnson. In the event of a discrepancy this reference will be considered the correct information source.

HONEYBEE

Honeybee Educational Display

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