

## 4-H NATURAL RESOURCES & ENVIRONMENT

Superintendents: Doug Klein, Bernadine Schielein

1. All rules (pages 10-11) apply.
2. Exhibitor should be present while judging takes place.
3. Exhibit must be produced during the current 4-H year. (Exception: Entomology is a continuing project).
4. Exhibit space is limited to: tabletop displays 2' wide and 15" deep and poster size is 22" x 30" unless specifically noted in the project area. Electricity & water are not available for displays. Entomology & Geology are exempt from size limit.
5. Members interested in wildlife-oriented projects should enroll in the appropriate natural resources level and exhibit wildlife-oriented displays in those classes.

### STATE FAIR DELEGATES MAY BE SELECTED FROM (\*) CLASSES NATURAL RESOURCES

Four State Fair Delegates may be selected from the following (\*) classes.

- \***Natural Resources I** – Exhibit any item developed from the project book, *Step Into Nature*. Exhibitor must be able to explain the importance of and the concept behind the exhibit.
- \***Natural Resources II** – Exhibit any item developed from the project book, *Explore the Natural World*. Be able to explain the importance of and concept behind the project exhibit.
- \***Natural Resources III** – Exhibit any item developed from the project book, *Blaze the Trail*. Be able to explain the importance of and concept behind the project exhibit.
- Wildlife I** - Exhibit any activity developed from the project manual.
- \***Wildlife II** - Exhibit any activity developed from the project manual.
- \***Sportsfishing I** – Exhibit a product or display made to complete the activities in the Take the Bait project manual. This could include, but is not limited to, displays on, different types of fishing tackle, identifying different baits and their uses (no actual bait, please) or identifying the anatomy of a fish. For safety reasons, lures and hooks must be displayed in cases.
- \***Sportsfishing II** – Exhibit a product or display made to complete the activities in Reel in the Fun project manual. This could include, but is not limited to, displays on: different types of knots or rigs and their use; a collection of fishing lures, labeled with their use; or information on preparing and cooking fish (not recipes). For safety reasons, lures and hooks must be displayed in cases.
- \***Sportsfishing III** – Exhibit a product or display made to complete the activities in Cast into the Future project manual. This could include, but is not limited to, displays on: making artificial flies and lures; researching effects of water temperature; sportsfishing careers; or identifying insects that fish eat. For safety reasons, lures and hooks must be displayed in cases.
- \***Outdoor Adventures I-III** - Exhibit a display illustrating an activity completed from the project manual. Exhibit options may include, but are not limited to: planning a hike (include what to take and essential clothing; meal planning; first aid kit; leave no trace hiking; compass use; or identifying creatures on the hike).
- \***Outdoor Adventures II** - Exhibit a display illustrating an activity completed from the project manual. Exhibit options may include, but are not limited to: camping gear; knot-tying; choose the proper site; meal planning; or appreciating nature.
- \***Outdoor Adventures III** - Exhibit a display illustrating an activity completed from the project manual. Exhibit options may include, but are not limited to: packing it up; group camp planning; meal planning; no trace camping; or hiking safety.

### FORESTRY

One State Fair Delegate may be chosen from the following (\*) classes.

#### Class Name

- \***Forest of Fun 1 (Follow the Path)**– Exhibit any product or display illustrating an activity from the book.
- \***Forest of Fun 2 (Reach for the Canopy)** – Exhibit any product or display illustrating an activity from the book.
- \***Forest of Fun 3 (Explore the Deep Woods)** – Exhibit any product or display illustrating an activity from the book.

## ENTOMOLOGY

One State Fair Delegate may be chosen from the following (\*) classes.

### Class Name

- \***Entomology I** – Limited to exhibitors enrolled in the Entomology I project. Exhibit 15 or more species representing 4 or more orders. Collection must be accurately labeled. Exhibitors must also include the Entomology I project manual with at least one completed activity for each year enrolled. Rules for pinning and labeling insects are available online at [www.4-h.uiuc.edu/projects/onlineref.html](http://www.4-h.uiuc.edu/projects/onlineref.html).
- \***Entomology II** – Limited to exhibitors enrolled in the project. Exhibit 30 or more species representing 8 or more orders. Collection must be accurately labeled. Exhibitors must also include the Entomology II project manual with at least one completed activity for each year enrolled. Rules for pinning and labeling insects are available online at [www.4-h.uiuc.edu/projects/onlineref.html](http://www.4-h.uiuc.edu/projects/onlineref.html).
- \***Entomology III** - Limited to exhibitors enrolled in the project. Exhibit 60 or more species representing 12 or more orders. Collection must be accurately labeled. Exhibitors must include the Entomology III project manual with at least one completed activity for each year enrolled. Rules for pinning and labeling insects are available online at [www.4-h.uiuc.edu/projects/onlineref.html](http://www.4-h.uiuc.edu/projects/onlineref.html).
- \***Entomology Other** – Exhibit any activity or display from the Entomology books that doesn't fit into the above classes

## GEOLOGY

Two State Fair Delegates may be selected from the following (\*) classes.

### Class Name

- \***Pebble Pup I** – (Geology, Beginning) Display 8-19 rocks or mineral specimens with 3 minerals in the collection. Collection may include duplications that show variations. Label collection and note where found.
- \***Pebble Pup II** – (Geology, Intermediate) Display 30-40 rocks or mineral specimens with 10 minerals in the collection. Collection may include duplications that show variations. Label collection and note where found.
- \***Rock Hounds I** – (Geology, Advanced) Display 30-40 rocks or mineral specimens with 10 minerals in the collection. Collection should include at least 3 igneous, 2 metamorphic and 3 sedimentary groups. Label collection and note where found.
- \***Rock Hounds II**– (Geology, Open) This level is for those who have successfully completed Geology, Advanced. Display no more than 50 specimens that have been selected to illustrate a specific theme of the exhibitor's choosing. Be creative. Sample categories could include but are not limited to: industrial minerals and their uses; a specific rock group and the variety that occurs in that group, including some minerals that occur in that environment; select fossils traced through the geologic ages; minerals and their crystal habits; rocks and minerals used in the lapidary arts.

## PLANT & SOIL SCIENCES

One State Fair Delegate may be selected from (\*) classes.

### Class Name

- \***Plants & Soils 1 (It's More than Just Dirt)** – Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of environmental and internal factors that affect plant growth. Include your project journal that documents activity recordkeeping requirements, answers activity questions, and details personal thoughts and ideas.
- \***Plants & Soils 2 (Stems and Stamens)** – Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of the composition of plants, the functions of individual plant parts, plant life cycles, and the many ways plants reproduce. Include your project journal that documents activity recordkeeping, answers activity questions, and details personal thoughts and ideas.
- \***Plants & Soils 3 (Sprouting Out and Growing Up)** – Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of environmental and internal factors that affect plant growth. Include your project journal that documents activity recordkeeping requirements, answers activity questions, and details personal thoughts and ideas.

Two trophies will be presented to:

- (2) Best of Show Natural Resources (selected from all classes)