

Exhibit Options:

- Poster (follow general poster guidelines)
- Notebook (3-ring binder)
- Other – must be explained in detail on the Proposal Sheet

Divisions:

- Beginner – Grades 3-5
- Intermediate – Grades 6-8
- Advanced – Grades 9-12

List of Projects with guidelines

- Achievement Record Book
- Leadership

## Plant & Environmental Science Projects



### Beekeeping

Judging - Thursday, July 2, at 3pm at the Fairgrounds; Home and Family Arts Building.

State Fair Project – One Division 1 entry, unlimited Division 2 & 3 entries

(Division 2 & 3 entries limited to one per 4-H member at State Fair)

***\*Please also refer to the Policies and Procedures beginning on page 2 and the General Project Rules on page 20.***

Create an exhibit that shows the public what you learned in the beekeeping project this year. Choose one of the topics listed below, appropriate to your grade in school, and use that topic for your exhibit title, so the judges know which activity you completed. You can also use a creative sub-title if you wish.

Notes:

- ◆ There are no age specifications for beekeeping exhibits.
- ◆ No bee hives may be brought to the fair.
- ◆ Honey water content will be measured.
- ◆ Fill level: the honey should be filled to the jar shoulder, not over, not under.
- ◆ Chunk honey should go in a wide-mouth jar, preferably one specially made for chunk honey (see beekeeping catalogs).
- ◆ Be careful to distinguish “chunk honey” (comb in jar) from “cut comb” (comb only in box).
- ◆ Honey (including chunk, cut comb and comb) must be collected since the previous county fair.

Division 1 – Youth may participate 1 to 2 years. See manual 4H-571.

Present one of the following topics on a poster as specified above.

1. Flowers used to make Honey – display pressed flowers from ten (10) different Indiana plants.
2. Uses of Honey and Beeswax.
3. Setting up a Bee Hive.
4. Safe Bee Handling.

Division 2 – Youth may participate 1 to 2 years. See manual 4H-586.

Exhibit one (1) of the following:

1. Extracted honey – two (2) 1-pound jars extracted honey should be shown in glass or clear plastic, screw-top jars, holding one pound of honey each.
2. Chunk honey – (comb in jar) two (2) 1-pound jars (wide-mouth glass or clear plastic).

3. Cut comb honey – two (2) 1-pound boxes. (This is usually displayed in a clear plastic box about 4 ½” x 4 ½” x 1 ½”).
4. Working with Honey Bees – Present a topic from your manual to teach others about working with honey bees.

Division 3 – Youth may participate multiple years. See manual 4H-593.

1. Display **two(2)** of the **four(4)** kinds of honey listed below:
  - a. Two (2) 1-pound jars (glass or clear plastic).
  - b. Two (2) 1-pound jars (wide-mouth glass or clear plastic).
  - c. Two (2) 1-pound boxes. Boxes are usually 4 ½” x 4 ½”.
  - d. Two (2) sections (honey built by bees in frames of wood commonly called “sections.” These are usually about 4 ½” x 4 ½” in size.)
  - e. Prepare an educational display about honey bees or beekeeping.
2. Independent Study
  - a. Advanced topic – Learn all you can about a beekeeping topic and present it on a poster. Include a short manuscript, pictures, graphs, and a list of works cited to describe what you did and what you learned. Title your poster “Advanced Beekeeping- Independent Study”

Mentoring – Exhibit a poster that shows how you mentored a younger 4-H member. Include your planning, the time you spent, the challenges and advantages of mentoring, and how the experience might be useful in your life. Photos and other documentation are encouraged. Title your poster “Advanced Beekeeping – Mentor.”



## Entomology

Judging - Thursday, July 2, at 3pm at the Fairgrounds; Home and Family Arts Building.  
1 Insect Collection and 1 Poster from each level to State Fair.

There are more kinds of insects in the world than all other organisms combined. They live on the earth's surface, in the soil, and in water. Insects live in deserts, rain forests, hot springs, snow fields, and dark caves. This project will help you study insect and their relationship with people. You can also learn how to collect, preserve, and identify insects.

***\*Please also refer to the Policies and Procedures beginning on page 2 and the General Project Rules on page 20.***

Exhibit Introduction:

Create an exhibit that shows the public what you learned in the entomology project this year.

Insect Collection Option:

NOTES:

- **References:** one of the following:
  - 4-H 764, How to Study, Collect, Preserve and Identify Insects.
  - How to Make an Awesome Insect Collection, ID-401 (available online, [extension.entm.purdue.edu/401Book/default.php?page=home](http://extension.entm.purdue.edu/401Book/default.php?page=home), or through The Education Store).
- **Title:**
  - **Collection** - Insect Collection, Grade X (where X = your grade in school)
  - **Poster** - Choose one of the topics listed below, appropriate for your grade in school, and use that topic for your exhibit title.
- **Orders:**

Use the orders listed in the reference material (above), which are found on page 57 in ID-401
- **Display:**

Collect, mount (pins or vials), and identify insects personally collected in the U.S. only.