

Herbarium Collection - Shrubs

Collect 25 terminal twigs, with leaves attached, from native shrubs. Mount the specimens on 11 ½" x 16 ½" paper. One leaf on the twig must be mounted to show the back side of the leaf. Label each sheet with the following: common name, scientific name, where collected, county where collected, dates collected, name of collector, and specimen number. **Cover each specimen.** There are no specific references given for these exhibits. Youth are encouraged to use Extension publications, the Internet, books, and forest specialists to develop these items.

Level: Independent Study: Grades 9-12. One State Fair entry

Advanced topic- Learn all you can about an Indiana or Eastern Deciduous forestry topic of your choice and present it on a poster. Include a short manuscript, pictures, graphs, and list the works cited to describe what you did and what you learned. Title your poster "Advanced Forestry – 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. Photographs and other documentation are encouraged. Title your poster, "Forestry – Mentor."



Garden

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

Champion from each division allowed to State Fair.

Also, the Single Plate Veggies can send as many different veggies that are shown at county fair.

Exhibitor may choose 1 of the 3 different categories to exhibit at the fair.

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

The gardening project introduces vegetable and herb gardening. The Gardening project is divided into four different levels:

Level A: See Them Sprout (3rd and 4th grades)

Level B: Let's Get Growing (5th and 6th grades)

Level C: Take Your Pick (7th-9th grades)

Level D: Growing Profits (10th-12th grades)

What can I learn?

You will learn about planning a vegetable garden, planting, fertilizing, different vegetable pests, harvesting, storage techniques and careers.

Exhibit Introduction

Garden manuals: See 4-H garden manuals and 4-H 970-W for exhibit preparation suggestions.

Garden Manuals:

4-H-1037 — Garden Level A: See Them Sprout

4-H-1038 — Garden Level B: Let's Get Growing

4-H-1039 — Garden Level C: Take Your Pick

4-H-1040 — Garden Level D: Growing Profits

4-H-1041-W — Garden Helper's Guide

Requirements - Level: All levels

Project Completion Recommendations

1. Read and study 4-H Garden manual(s).
2. Plan your garden.
3. Select plants and seeds.
4. Plant your garden.
5. Care for your garden.
6. Harvest your produce.
7. Exhibit your produce.
8. Try something new, as listed in the manual.
9. Keep a complete record of your garden activities.
10. Complete activities as required in manual.

I. Single Vegetable

May be selected from 4-H Garden Publication 4-H 970-W (updated yearly) or list in the State Fair Premium book. Maximum of 5 different single plate exhibits per exhibitor. Single vegetable entries should be labeled with common name, Latin name, and variety of vegetable. The Latin names can be found in 4-H Garden Publication 4-H 970-W.

Example:

Green bean (*Phaseolus vulgaris*)
'Blue Lake 47 Bush'

II. Garden Collection

- three (3) plates
- four (4) plates
- five (5) plates

In all three classes, vegetables are to be exhibited on paper plates and may include a display of not less than three garden flowers, grown in your own garden. Exhibitors may each exhibit one collection (3 or 4 or 5 plate garden collection) at State Fair. Garden collection entries should be labeled with common name, Latin name, and variety. Latin names can be found in 4-H Garden Publication 4-H 970-W.

III. Single Herb Exhibit

- Can enter three single herbs (all edible types) that must be labeled with common and Latin names and in pots 8" diameter maximum. (maximum of three different pots)
- Resource HO-28; 4-H 970-W
- For list of herbs acceptable for State Fair, see State Fair handbook or 4-H 970W.

IV. Garden Education

Anyone can complete Section IV (Garden Education), but members enrolled in Levels C and D of the garden project SHOULD exhibit one of the following activities in addition to the Produce Exhibit (Section I, II and III)

Produce Options

1. Exhibit four (4) plates containing two cultivars of two different kinds of vegetables in your garden. For example: display tomato Rutgers and tomato Roma on two plates and spinach Melody and America on two plates. Label the cultivars you exhibit.
2. Label and exhibit three unusual vegetables (may or may not be discussed in your 4-H Garden Manual) you grew in your garden this year. If not listed in the vegetable display chart, check with your Extension office. For example: spaghetti squash, head lettuce, etc.

Poster Options

3. Make a poster of five commonly found diseases in vegetable gardens, the damage caused by each, and the control options for each.
4. Make a poster of five commonly found vegetable garden insects: beneficial (good guys) and/or injurious (bad guys), benefits or damage caused by each, and the related management practices (how to keep the beneficial, and how to control the injurious insects).
5. Make a poster of a maximum of 10 pests (diseases, insects, weeds, and/or rodents) you found in your garden this year, damage caused, control measures used, and results.
6. Make a poster explaining a computer garden program or mobile application.
7. Make a poster showing a picture story of what you did in your garden this year. Example: how you planned, planted, and maintained your garden.
8. Make a poster showing your financial record.
9. Make a poster of pictures showing your experiences in hydroponics.
10. Make a poster explaining various career options working with vegetables/herbs.
11. Make a poster explaining types of pollinators and their importance in vegetable and fruit production.
12. Make a poster that shows the different types of plant parts that are consumed by humans. Be sure to identify the fruit or vegetable and categorize it by root, stem, leaf, or flower.
13. Make a poster that shows different storage methods for vegetables.
14. Make a poster showing how to create a raised bed OR container vegetable garden.
15. Make a poster discussing how herbs listed on the last page of 4-H Garden Publication 4-H 970-W are used and have been used throughout history. Be sure to include both culinary and medicinal uses as well as other unique uses, if any.



Geology

Judging - Thursday, July 2, at 3pm at the Fairgrounds; Home and Family Arts Building.
One exhibit from each level to 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 to show the public some of the geology specimens you have collected. You may display a poster or specimens in an insect display box (18" x 24"), oriented horizontally. Include actual specimens in your exhibit whenever possible. You can make your own labels for your specimens. See the suggested label format found in the Indiana 4-H geology manuals. Boxes make your specimens more secure. Do not put valuable specimens on posters where they can be removed quickly. Be sure to include a label with your name, grade, and county on back of display. Choose one of the topics listed below, appropriate for your grade in school, and use that name for your title. You may use a sub-title, if you wish. Title must be on the front of the poster or box.

Notes:

- You may purchase specimens and may display rocks, fossils, and minerals. If you purchase your specimen, indicate where and when. If you collect your specimen, indicate the county and township where you found it.
- Posters and display boxes will be exhibited "standing up" at the Indiana State Fair. Therefore, you need to secure your specimens securely. Project leaders suggest the following methods: soaking ½ cotton ball in Elmer's glue, hot glue, or clear tub sealant. Place the cotton ball in your box and put your rock (or fossil or mineral) on the cotton ball and let sit. It will take 1-2 weeks for Elmer's glue to fully harden. Specimens mounted with Elmer's glue can be removed by soaking the cotton ball in water. Glue remaining on the rock may be brushed off with an old, damp toothbrush.
- Do not identify your specimens any further than phylum and class. There is one exception to this for fossils which are identified to phylum OR class. Class should only be used for fossils of mollusks, backboned animals, and arthropods.
- When exhibiting rocks show a fresh surface to help judges identify the rock.