

SECTION H PLANT PATHOLOGY

- Each exhibit must be accompanied by an exhibitor entry card.
- Must exhibit a 4-H member's experience in and acknowledge of this subject matter

PLANT DISEASE IDENTIFICATION

Class No.

1. LEAFSPOT COLLECTION BOOKLETS

As described under Activity 1 in *Know Your Plant's Disease* and/or Activity 3 in *Know Your Tree Diseases*, leaf disease notebooks exhibiting a minimum of 12 different diseased plants with at least 6 different fungal and/or bacterial diseases should be included. Example: Powdery mildew fungi may be included more than once if on different hosts, but the remaining samples must represent at least 5 other individual disease issues. Label each plant sample with your name, the date collected, plant name, location collected (town, county and state), and briefly describe the symptoms observed. Include a common name for each disease (such as: powdery mildew, leaf rust, fungal leaf spot, bacterial leaf spot, leaf blight, anthracnose, ring spot, etc.). Include a specific disease name for at least one of the samples, such as "tar spot" on maple caused by a *Rhytisma* sp.

PEST CONTROL EXHIBIT

2. PEST MANAGEMENT ON VEGETABLES OR ORNAMENTAL GARDEN PLANTS PROJECTS

Exhibit should include a poster display showing the layout of your vegetable or ornamental garden; photographs, drawings, tables and other visual aids may be used. A record book may be presented indicating dates on which problems were observed, treatment were utilized and observations were made as to the effectiveness of these treatments. Include specific steps taken to manage pests within the past year or two. Information on preventative treatments or management practices should also be included. This project should attempt to teach those who examine it the principles of pest management. Include specific information on at least five (5) pest problems identified and for which one or more management practices were used. Evaluation will be based on the member's understanding of the subject and effectiveness of the poster as a teaching aid.

MUSHROOM COLLECTION AND IDENTIFICATION

3. MUSHROOM COLLECTOR'S JOURNAL

This category is designed for the beginner mycologist. Although preservation of dried fungal specimens in the manner described in *Fun With Fungi* is encouraged, this project does not require that fungi be submitted as a collection of dried specimens. However, preservation of your fungi is strongly encouraged for future reference or for possible submission to the Cornell Herbarium. This project should include detailed notes about each fungal specimen, photos and spore prints. Six fungal specimens from different genera are required. More detailed instructions and forms for use with this project may be found online at: <http://plantclinic.cornell.edu/mushroomjournal.html>.

4. PLANT PATHOLOGY OPEN CLASS

Class is an option for exhibits deemed by the County Youth Educator to be worthwhile but fall outside the categories described above. The decision to bring such exhibits is left to the discretion of the Extension 4-H educator.