Crops

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Project Description:

These projects are designed to provide information, training and experience to 4-H club members on important aspects of agriculture such as hybrids, soils, weather, insecticides, pesticides, fertilizer, etc. Suggestions on growing, improving the quality and increasing the yields of crops are provided.

SMALL GRAINS

**Level A: Grades 3-5**

Exhibit a notebook containing a minimum of three completed activities and one exhibit option listed in project manual.

**Level B: Grades 6-8**

Exhibit a notebook containing a minimum of three completed activities and one exhibit option listed in project manual.

**Level C: Grades 9-12**

Exhibit a notebook containing a minimum of three completed activities and one exhibit option listed in project manual.

NOTE: Each 4-Her must complete a different exhibit option each year. Once all have been completed you may start over on the list.

EXHIBIT OPTIONS:

1. Display a full-grown small grain plant (including roots), with the plant parts correctly identified and labeled, using shipping tags or 3 x 5 cards.

2. Display the experiment on the effects of moisture and temperature on seed germination, set up as run, plus a poster using poster requirements or notebook summarizing the results from the grain you tested.

3. Display your actual experiment on the effects of plant competition and growth, plus a poster or notebook summarizing your conclusions based on the results produced. See poster requirements.

4. Display your actual experiment on the effects of planting depth, plus a poster using poster requirements or notebook summarizing your conclusions based on the results produced.

5. Display your actual experiment on the effects of soil types and growth, plus a poster or notebook summarizing your conclusions based on the results produced.

6. Create a display of a minimum of ten products (edible and inedible) that come from one of the small grains you studied. Your display may be the actual product or pictures. On a 3” x 5” card, give each product name and its use. Notebook or poster would be acceptable.

7. Using your results from activity 4, 5, 6, or 7 (in your manual), see if there are any differences between grains. Display results in a manner that comparisons are easily made. List your reasons as to why differences did or did not occur. Notebook or poster would be acceptable.

CORN

Choose from the following project activities as listed in the manual. Corn exhibitors will be divided into three grade divisions:

**Level A: Grades 3-5**

“The Parts of a Corn Plant” OR

“Identifying Some Pests of Corn” OR

“Effects of Planting Depth on Corn Growth”

**Level B: Grades 6-8**

“My Own Corn Germination Test” OR

“Effects of Weed Competition on Corn Growth” OR

“Know How to Read Pesticide Labels” OR

“Making the Farmstead Safer” OR

“The Role of Corn in Other Foods”

**Level C: Grades 9-12**

“Plant Nutrient Deficiencies” OR

“Fertilizer Nutrient Calculations” OR

“Fertilizer Cost Comparison” OR

“My Corn Project Field’s Erosion Rate” OR

“‘Best’ Tillage-Planting System for My 4-H Corn Project Field” OR

“Cross-, Self-, and Open-Pollination Experiment” OR

“My Corn Performance Trial Results” OR

“Last Safe Planting Date for Corn Hybrids”

SOYBEANS

Choose from the following project activities as described in the back of the project manual. Soybean exhibitors will be divided into three grade divisions: NOTE: Bundle of soybeans should only be exhibited once in each level.

**Level A: Grades 3 -5**

 “Germination of the Soybean” OR

 “Using the Soybean” OR

 “The Effects on Light and Darkness on Flowering” OR

 “Soybean Plant Nutrient Deficiencies” OR

 One two-inch bundle of soybeans

**Level B: Grades 6-8**

 “Preparing Soybeans for Home Use” OR

 “Differences in Flowering among Soybean Varieties” OR

 “How Planting Dates Affect Soybean Yields” OR

 “Preparing Soybeans for home Use” OR

 One two-inch bundle of soybeans

**Level C: Grades 9-12**

 “Soybean Herbicide Survey” OR

 “Soybean Insect Study” OR

 “Soybean Disease Study” OR

 “Measuring Soybean Harvest Losses” OR

 One two-inch bundle of soybeans

***NO STATE FAIR ENTRY***