

# 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***