

**Updated 3/10/2023**

## **Crops**

ALL grade level exhibits must have a copy of the crops record sheet in a plastic sleeve with your name clearly visible.

**ALL** crops exhibits will be judged by Clover (Gr. 3-5), Jr. (Gr. 6-8) or Sr. (Gr. 9-12)

### **Alfalfa**

**Exhibit:** One flake of storable quality hay manufactured by one stroke of the plunger. Hand-cut hay will not be accepted as an exhibit.

THE FLAKE EXHIBITED IS TO BE ALFALFA, NOT ALFALFA-GRASS MIX.

### **Corn**

**Exhibit:** 1 stalk of corn with roots cleaned and free of soil.

### **Soybeans**

**Exhibit:** 10 well developed plants tied in a bundle with roots washed to show nodule development.

**OR**

A 22"x28" poster (refer to general rules and information item #3) on topics related to the soybean project.

### **Wheat**

#### **Exhibit:**

One wide-mouth gallon jar (furnished by exhibitor) - filled with wheat grown on not less than 5 acres.

Daviess Co.  
Crops Record Sheet  
Record for year \_\_\_\_\_

Corn \_\_\_\_\_ Soybeans \_\_\_\_\_ Wheat \_\_\_\_\_ Alfalfa \_\_\_\_\_

Name \_\_\_\_\_ Clover \_\_\_\_\_ Jr. \_\_\_\_\_ Sr. \_\_\_\_\_  
Gr. 3-5 Gr. 6-8 Gr. 9-12

Leader Signature \_\_\_\_\_ Years in this project \_\_\_\_\_

1. How many acres are in the 4-H project crop field? \_\_\_\_\_
2. Who farms this field? \_\_\_\_\_ How did you help? \_\_\_\_\_
3. What type of tillage was utilized to prepare the field for planting? \_\_\_\_\_  
\_\_\_\_\_
4. What date was the crop planted? \_\_\_\_\_
5. What type of planter was used to plant the crop? \_\_\_\_\_
6. Was the crop planted in rows or broadcast? \_\_\_\_\_
7. What was the row width (distance between rows) \_\_\_\_\_
8. What hybrid or variety was planted? \_\_\_\_\_
9. How many pounds of seed were planted per acre? \_\_\_\_\_
10. What type of fertilizer was applied to this crop? \_\_\_\_\_
  - a. Was livestock manure applied to this field? \_\_\_\_\_
  - b. If yes, what type of manure was utilized? \_\_\_\_\_
  - c. Other than manure, list the types of fertilizer utilized; \_\_\_\_\_
11. What crop pests did you notice in your field?
  - a. Weeds: \_\_\_\_\_
  - b. Insects: \_\_\_\_\_
  - c. Diseases: \_\_\_\_\_
  - d. Other (mites, nematodes, deer) \_\_\_\_\_
12. What pesticides were utilized to control pests in this field?
  - a. Herbicide(s) used to control weeds: \_\_\_\_\_
  - b. Insecticide (s) used to control insects: \_\_\_\_\_
  - c. Other (example fungicide or miticide): \_\_\_\_\_

13. Have crop pests significantly lowered crop yield? \_\_\_\_\_

14. Was the weather favorable for your crop this year? \_\_\_\_\_

15. Yield:

a. **Corn and soybeans:** What was the average yield for your crop in this field (bushels per acre)? \_\_\_\_\_; would you project this crop yielding above, below or around the average for this field? \_\_\_\_\_

b. **Wheat:** What was your yield per acre? \_\_\_\_\_; was this above, below or around the average for this crop? \_\_\_\_\_

c. **Alfalfa:** How many cuttings of alfalfa do you plan to take this year? \_\_\_\_\_  
At the last cutting, how many tons per acre were harvested? \_\_\_\_\_

16. Did this crop or should this crop generate a profit this year? \_\_\_\_\_

17. Please list knowledge and skills gained by taking this project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

18. Helpful resources: list books, publications, and magazines that you have read, meetings you have attended and people who have provided you with information relating to this project this year.

\_\_\_\_\_  
\_\_\_\_\_

19. Demonstrations conducted relating to this project: \_\_\_\_\_

Optional Questions for Your Crop Project:

Note: To answer **optional questions**, you may need to utilize Purdue Publications ID 179 "Corn & Soybean Field Guide" and ID 101 "Animal Manure as a Plant Nutrient Resource".

These questions are listed to help 4-H'ers expand their knowledge on crop production.

1) Additional information relating to planting:

- a. Is this field considered highly erodible ground? \_\_\_\_\_
- b. If yes, what percent of the ground was covered with residue once this crop was planted? \_\_\_\_\_
- c. Once planted, how many days did it take to the plants to emerge? \_\_\_\_\_
- d. What is the population of this crop per acre, once emerged? \_\_\_\_\_
- e. What percent of the seeds planted produced a plant? \_\_\_\_\_

2) Additional questions on soil fertility:

- a. Was a soil test utilized in determining the amount of manure and commercial fertilizer to apply to this field? \_\_\_\_\_
- b. How much of the following nutrients were applied this year from manure and fertilizers to this field:
  - i. lbs. nitrogen per acre: \_\_\_\_\_
  - ii. lbs. potassium per acre: \_\_\_\_\_
  - iii. lbs. phosphorus per acre: \_\_\_\_\_
- c. What other nutrients were included in this year's fertilizer program? \_\_\_\_\_
- d. How many lbs. of Nitrogen, Potassium and Phosphorus should your crop remove per acre this year?  
Nitrogen \_\_\_\_\_ Potassium \_\_\_\_\_ Phosphorus \_\_\_\_\_
- e. According to the field's last soil test:
  - i. What was its pH? \_\_\_\_\_
  - ii. How much lime did it recommend to apply? \_\_\_\_\_

3) Other than pesticides, how are pests controlled in your field?

(Ex. Tillage is a form of cultural control that reduces weeds and can help reduce diseases by moving infected crop residue into soil or beneficial insects feed upon crops pests is a type of biological control)

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4) Weather information you can keep track of:

- a. Soil temperature at planting \_\_\_\_\_
- b. Were the soil conditions too dry, too wet, or appropriate when the field was tilled \_\_\_\_\_?  
When the crop was planted \_\_\_\_\_?
- c. How many inches of rain has fallen on this crop through harvest or when this record sheet was filled out?  
\_\_\_\_\_
- d. Would you describe air temperature as being too cool, too warm or appropriate for this crop? \_\_\_\_\_
- e. If poor weather has reduced crop yield, describe how it impacted the growth and development of this crop?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- f. Was this crop irrigated? \_\_\_\_\_  
What type of irrigation system was utilized? \_\_\_\_\_

5) What suggestions do you have to make this a better record sheet for your 4-H crop project?

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