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 line 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)

_______________________________________________________________________________________

_______________________________________________________________________________________

_______________________________________________________________________________________

4) Weather information you can keep track of:

a. Soil temperature at planting ______________

b. Were the soil conditions to 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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