Alfalfa, Corn, Soybeans, Wheat

Clover - Jr. - Sr. --- Crops record sheet in Green Record Book
Jr. - Sr. --- Crops record sheet attached to exhibit
No State Fair Exhibit

Alfalfa

Clover (Gr 3-5) – Exhibit one small bale of storable 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. Crops Record Sheet is to be placed in your Green Record Book.

J**unior (Gr. 6-8) & Senior (Gr. 9-12)** – Exhibit one small bale of storable 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.

Jr. & Sr. – crops record sheet must be in a plastic sheet protector and attached to the exhibit. Record sheet will be judged along with the hay flake. An additional Crops Record sheet must also be included in your Green Record Book.

Corn

Clover (Gr 3-5) – Exhibit 1 stalk of corn with roots clean and free of soil. Crops Record sheet is to be placed in the Green Record Book.

Junior (Gr. 6-8) & **Senior (Gr. 9-12)** – Exhibit 1 stalk of corn with roots clean and free of soil. Crops Record sheet is to be placed in the Green Record Book.

Jr. & Sr. – crops record sheet must be in a plastic sheet protector and attached to the exhibit. Record sheet will be judged along with the hay flake. An additional Crops Record sheet must also be included in your Green Record Book.

Soybeans

Clover (Gr 3-5) – Exhibit 10 well developed plants tied in a bundle with roots washed to show nodule development. Crops Record sheet is to be placed in the Green Record Book.

Junior (Gr. 6-8) & **Senior (Gr. 9-12)** – Exhibit 10 well developed complete plants tied in a bundle with roots washed to show nodule development.

Jr. & Sr. – crops record sheet must be in a plastic sheet protector and attached to the exhibit. Record sheet will be judged along with the hay flake. An additional Crops Record sheet must also be included in your Green Record Book.

Wheat

Clover (Gr 3-5) – Exhibit 1 wide mouthed gallon jar (furnished by exhibitor) – filled with wheat grown on not less than 5 acres. Crops Record sheet is to be placed in the Green Record Book.

Junior (Gr. 6-8) & **Senior (Gr. 9-12)** – Exhibit 1 wide mouthed gallon jar (furnished by exhibitor) – filled with wheat grown on not less than 5 acres.

Jr. & Sr. – crops record sheet must be in a plastic sheet protector and attached to the exhibit. Record sheet will be judged along with the hay flake. An additional Crops Record sheet must also be included in your Green Record Book.

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?

_____

_____

_____

_____

_____

_____