

SOYBEANS

Beginners - 1st year member, any grade.

Exhibit five (5) bean plants in a tied bundle with roots washed. Identify and correctly label three (3) parts of the plant using shipping tags or 3x5" cards.

and/or...

22x28" poster of field records and tillage activities.

Advanced - 2nd through 10 years, any grade

Exhibit in any one or all areas listed below:

- > Exhibit five (5) bean plants in a tied bundle with roots washed. Identify and correctly label three (3) parts of the plant using shipping tags or 3x5" cards.
- > Exhibit one full gallon of soybeans.
- > 22x28" poster of field records and tillage activities.

Exhibitor must be member of a Rush County 4-H Club during the current year in which the exhibit is entered.

Record book & soybean record sheet must be turned in with green folder. Yield reports must be made in 4-H record book. (First year members may use estimates.)

4-H Soybean member, in order to complete, must turn in record book and enter exhibit at fair.

4-H CROPS RECORD
Record for Year

Corn _____ Soybeans _____ Oats _____ Wheat _____ Alfalfa _____ (Other) _____

Name _____ Grade (as of Jan. 1) _____

Address _____

Project Leader Signature _____

Years in this project _____ and/or Division enrolled _____

1. Select the activities you plan to complete. (See project requirements.)

Activity	Date completed	Project Leader
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

2. Knowledge and skills learned

List new things you have learned or skills you have gained from this year's project activities.

3. Future plans

List what plans you have to improve this project next year (include comments on such practices as population rates, fertility, insect and disease control, harvesting, storage, and marketing).

Field Map

1. Locate field boundaries (buildings, ditches, fence, tile lines, etc. (if known) and measure dimensions.
2. Locate areas with particular problems (weeds, drainage, poor growth, etc.).
3. Record information from various activities you complete.

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Safety Management Record

Task	Yes	No	If yes, date accomplished
1. If you are under 16 and plan to operate hazardous agricultural equipment during the coming year, have you enrolled in the 4-H Tractor Program?	_____	_____	_____
2. Have all faded or damaged SMV (Slow Moving Vehicle) emblems been replaced on farm equipment used on public highways as required by law?	_____	_____	_____
3. Are important emergency telephone numbers (fire, doctor, Poison Control Center, emergency medical) updated and posted near each telephone?	_____	_____	_____
4. Have all fire extinguishers on equipment and in buildings been inspected and recharged if necessary?	_____	_____	_____
5. Have all first aid kits been restocked and readied for use in the event of injury?	_____	_____	_____

Field Survey

To complete this page, visit your field three different times and fill in the blanks as outlined below:

	Survey 1 (early season)	Survey 2 (mid-season)	Survey 3 (just before harvest)
Date	_____	_____	_____
Field owner	_____	_____	_____
Crop description	_____	_____	_____
Number of leaves per plant (average 10 plants)	_____	_____	_____
Plant height (average 10 plants)	_____	_____	_____

Insects present: Write down the kinds of insects and numbers you find.

Insect name	Number	Number	Number
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Weeds present: Write down the kind and number of weeds you find in 10 feet of row. For broadcast plantings use a 1 by 10 foot area.

Weed name	Number	Number	Number
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Health problems: Write down the kinds of problems you see and the number of plants with the problems (spots, stripes, holes, yellowing, falling over, rotting).

Problem	Number	Number	Number
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Your Crop Production Practices

Tillage

Date	Type of tillage	Depth	Other notes
_____	_____	_____	_____
_____	_____	_____	_____

Planting Record (Record as appropriate)

Date planted	Hybrid or variety	Germination	Seeds planted/a.	Depth planted	Row width	Final population/a.
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Chemicals Applied (Herbicides-Insecticides, etc.)

Date	Chemical formulation	Rate/a.	Method of application
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Fertilizer Applied

Date applied	Pounds of nutrient applied per acre				Type of fertilizer (NH ₃ , 45%, etc.)	Method of application (surface plowdown, etc.)
	N	P ₂ O ₅	K ₂ O	(micro., lime, etc.)		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Harvest Records

Date	Acres harvested	Harvest yield check		Adjusted yield (bu. or tons/a.)
		Total weight	% moisture	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Date	Price/bu, or ton	Sales record		Total received
		No. of bu. or tons	Less deductions	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Financial Record

You need to decide what to do before you begin the rest of your project. Your project financial budget form¹ is organized somewhat like your bank account record. First, enter the amount of money in your bank account at the beginning of your project. (See Footnotes 1 through 5 for suggestions about how to complete this plan.)

You are encouraged to open a separate bank account for your 4-H project. Then you can make deposits when you borrow money and sell crops, and you can write checks when you buy fertilizer, seed, etc.

Project bank account cash flow				
Checks (amount paid)	+	Deposits (amount received)	=	Bank balance

Step 1 A. Insert beginning bank balance here and in Step 5B. \$ _____
 B. Financing-loan amount as determined in Step 5 \$ _____² \$ _____²

	\$ per acre	x	acres			
Step 2 Field rent ³		x		=	\$	
Step 3 Power and machinery rent ³		x		=	\$	
Step 4 Fertilizer, seed, and chemical cost		x		=	\$	
		x		=	\$	
		x		=	\$	

Step 5 Determine size of loan needed:³

A. Add all costs in Steps 2-4 and multiply by number of acres.
_____ x _____ = \$ _____

B. Subtract beginning bank balance (see 1 A). - \$ _____

C. This equals size of loan needed. Insert answer in Step 1 B. \$ _____

Step 6 Select lender: _____
name

Step 7 Select bank: _____
name

	Expected yield	x	Expected price			
Step 8 Estimate sales: ⁴				=	\$	

	Loan (Step 1 B)	+	Interest			
Step 9 Pay off loan ⁵ and interest:				=	\$	

	Step 8	-	Step 9			
Step 10 Calculate ending bank balance:				=	\$	

Summary

1. Calculate project profit (or loss):

Ending bank balance (10)	\$			\$	
minus beginning bank balance (1)	\$		-	\$	
Profit (or loss)	\$		=	\$	
2. Calculate per acre profit (or loss):

Step 8 (per acre sales)	\$				
minus Step 5A (per acre costs)	-	\$		-	\$
Profit (or loss) per acre	=	\$		=	\$

¹ For corn project only, see related activities in manual.
² Deposits are added to the previous bank balance; checks are subtracted.
³ You may use your parents' land and machinery. Enter the rental cost here.
⁴ Estimate your sales. Multiply your expected yield by your expected price.
⁵ Estimate your final loan payment. Include loan interest as cost in summary.

Other Information

Helpful Resources

1. List meetings, workshops, tours, field days, etc. that you attended this year.

2. List Extension bulletins, mimeos, etc. that you used in your project.

3. List names of resource people who helped you and/or your project.

Exhibits, Awards, and Recognition

1. What did you exhibit for your project this year? _____

Award received _____

2. List any other awards or special recognition you received this year.

Special Activities

1. List any talks, demonstrations, radio and/or TV appearances, judging contests, etc. you participated in this year.

Leadership Activities

1. List any Junior Leadership activity you provided other members in this project this year.

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