

SMALL GRAINS
(Wheat or Oats)

Beginners - 1st year member, any grade.

Exhibit 10 heads - stalks cut above first node above ground.

and/or...

22x28" poster of field records and tillage activities.

Advanced - 2nd through 10 years, any grade

One full gallon of grain.

and/or...

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 & 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 Small Grains 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 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	_____ = \$ _____ ²
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 10 Calculate ending bank balance:		Step 8	-	Step 9 = \$ _____

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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