GCA095

Crop Production Project Worksheet

Your name_____ Year _____

Kind of crop_____ Acres in project_____

Type of soil_____ % Slope _____

Yield goal _____

Planting date _____/_____/_____ Distance between rows _____ inches

Planting rate: I planted _____ seeds every _____ inches

Table 1. Field history.

History of plot area for the past 2 years.						
Year	Crop grown	Total fertilizer applied (lb./A)			Was area manured?	Yield
		N	P_2O_5	K_2O		
1 year ago						
2 years ago						

Table 2. Soil test recommendations for this year's crop.

Your sample no.	Laboratory analyses					Nutrient recommendations for crop grown (lb./A)		
	Organic matter %	P	K	Soil pH	Plow depth (in.)	N	P_2O_5	K_2O

Were any other nutrients recommended? _____ If yes, what nutrients and how much? _____

_____

_____

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Table 3. Financial arrangement.

A. Credit arrangement: To finance this project I borrowed $_____ from _____

at _____ percent interest. I paid it back as follows:

Date _____/_____/_____ principal $_____ interest $_____

Date _____/_____/_____ principal $_____ interest $_____

Total principal $_____, total interest $_____

B. No credit arrangement: To finance this project I used $_____ of my own money for fertilizer, seed and other cash costs. I allowed _____ percent interest on this money or $_____ as the cost of having my money invested in this project.

Table 4. Fertilizer applied for this year's crop (per acre).

Date	Application method	Amount (lb./A)	Analysis

Was any manure applied? _____ How much? _____ (ton/A)

List all tillage operations in order performed _____

_____

_____

Conservation practices applied _____

_____

Pest management (weeds, insects, diseases) _____

_____

_____

Pest control method (include kind and amount) effectiveness _____

_____

_____

Table 5. Total machinery costs.

	Rate per acre*	Times over	Total cost per acre
Fertilizer applicator			$
Plow (moldboard or chisel)			$
Disk			$
Harrow			$
Field cultivator			$
Rotary hoe			$
Cultivator			$
Planting			$
Other harvesting methods		XXXXX	$
Spraying		XXXXX	$
Combine		XXXXX	$
Haul grain and elevating		XXXXX	$
Other		XXXXX	$
Total	XXXXX	XXXXX	$

* Ask for this year's custom rate guide at your county office of the NDSU Extension Service

Table 6. Total other costs*.

1. Dry costs per bushel _____ times bushels per acre _____ gives $_____ drying costs per acre. (Use custom rate guide or local elevator rate.)
2. Seed: $_____ cost per acre.
3. Fertilizer: $_____ cost per acre.
4. Herbicides: $_____ cost per acre.
5. Insecticides: $_____ cost per acre.
6. Land charge: If cash rented, use actual per acre rent.
   Otherwise, land value per acre X 7%, plus taxes = $_____ cost per acre.
7. Other (include interest from Table 3) _____ $_____ cost per acre.

* Include costs of application in the cost of fertilizer, lime, herbicides and insecticides, except where these are included as part of planting costs.

Table 7. Harvest report.

Variety	Date of Harvest	Harvest Moisture Percentages	Plant Population (plants per acre -or- plants per foot of row)	Yield (bu./A at appropriate moisture level)*

* Use moisture percent for commonly quoted grade *(example: corn 15.5, soybeans 13%)*

Table 8. Gross income per acre.

Corn: Yield per acre at 15% moisture _____, times local elevator price per bushel on date of harvest _____/_____/_____, of the sample which graded No. _____ corn = $_____ gross income per acre.

Other crops: Yield per acre at _____% moisture _____, times local elevator price per bushel on date of harvest _____/_____/_____, = $_____ gross income per acre.

Table 9. Financial summary.

	Landlord (or parent)	Tenant (or member)
1. Gross income per acre — table 8	$_____	$_____
2. Machine costs per acre — table 5	$_____	$_____
3. Drying costs per acre — table 6, line 1	$_____	$_____
4. Seed costs per acre — table 6, line 2	$_____	$_____
5. Fertilizer costs per acre — table 6, line 3	$_____	$_____
6. Herbicide costs per acre — table 6, line 5	$_____	$_____
7. Insecticide costs per acre — table 6, line 6	$_____	$_____
8. Land charge or rent per acre — table 6, line 7	$_____	$_____
9. Other expenses per acre — table 6, line 8	$_____	$_____
10. Total expenses (add lines 2 through 10)	$_____	$_____
11. Net return per acre for labor and managment (line 1 minus line 11)	$_____	$_____
12. Total return for project (line 12 times number of acres in project)	$_____	$_____

Diary of agronomy project for year

_____

_____

_____

_____

_____

_____

_____

For more information on this and other topics, see: www.ag.ndsu.edu

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