Crop Production Project Worksheet

Your name __________________________ Production year __________________

Years enrolled in crop project __________________________

My goals for this year are __________________________

________________________________________________________________________

What I did and learned as I worked toward my goals __________________________

________________________________________________________________________

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.

<table>
<thead>
<tr>
<th>Year</th>
<th>Crop grown</th>
<th>Total fert. applied (lb/A)</th>
<th>Was area manured?</th>
<th>Amount of lime applied per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>N</td>
<td>P_2O_5</td>
<td>K_O</td>
</tr>
<tr>
<td>1 yr. ago</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 yrs. ago</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Your sample no.</th>
<th>Organic matter %</th>
<th>Laboratory analyses</th>
<th>Lime lb/A of calcium carbonate</th>
<th>Nutrient recommendations for crop grown (lb/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P</td>
<td>K</td>
<td>Soil</td>
<td>Buffer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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University Extension
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).

<table>
<thead>
<tr>
<th>Date</th>
<th>Application method</th>
<th>Amount (lb/A)</th>
<th>Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Was any manure applied? __________________ How much________________________ (tons/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.

<table>
<thead>
<tr>
<th>Machine Operation</th>
<th>Rate per acre*</th>
<th>Total cost per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tillage</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Planting</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Pest Control</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Harvest</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>Delivery</td>
<td></td>
<td>$</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>$XXXX</td>
</tr>
</tbody>
</table>

*Ask for this year’s custom rate guide at your county extension office.

Table 6. Total other costs.**

1. Drying costs per bushel_________times bushels per acre_________gives $_______drying costs per acres. (Use custom rate guide or local elevator rate.)

2. Seed: $_______cost per acre.

3. Fertilizer: $_______cost per acre.

4. Lime: If applied for this crop, divide total cost per acre by 5 to prorate cost of 5 years = $_______cost per acre (for single year).

5. Herbicides: $_______cost per acre.

6. Insecticides: $_______cost per acre.

7. Land charge: If cash rented, use actual per acre rent. Otherwise, land value per acres x 7%, plus taxes = $_______cost per acre.

8. 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.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Date of harvest</th>
<th>Harvest moisture percentages</th>
<th>Plant population (plants per acre, or plants per foot of row)</th>
<th>Yield (bu/A) at appropriate moisture level***</th>
</tr>
</thead>
</table>

***Use moisture percent for commonly quoted grade (Ex: Corn 15.5%, Soybeans 13%).
### Table 8. Gross income per acre.

Corn: Yield per acre at 15.5% moisture ______, times local elevator price per bushel on date of harvest ______, of the sample which grades 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.

<table>
<thead>
<tr>
<th></th>
<th>Landlord (or parent)</th>
<th>Tenant (or member)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Gross income per acre – Table 8</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>2. Machine costs per acre – Table 5</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>3. Drying costs per acre – Table 6, line 1</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>4. Seed costs per acre – Table 6, line 2</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>5. Fertilizer costs per acre – Table 6, line 3</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>6. Lime costs per acre – Table 6, line 4</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>7. Herbicide costs per acre – Table 6, line 5</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>8. Insecticide costs per acre – Table 6, line 6</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>9. Land charge or rent per acre – Table 6, line 7</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>10. Other expenses per acre – Table 6, line 8</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>11. Total expenses (add lines 2 through 10)</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>12. Net return</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
<tr>
<td>13. Total return for project (line 12 times number of acres in project)</td>
<td>$_____________</td>
<td>$_____________</td>
</tr>
</tbody>
</table>

What citizenship or leadership activities did you do in the crops project?_____________________________

What communication did you do in the crops project?_____________________________

List recognition received in the crops project._____________________________

How do you feel about your accomplishments in the crop project?_____________________________

Prepared by former Iowa State University (ISU) Extension staff and revised by Denise L. Schwab, ISU Extension 4-H Youth Development Specialist.

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**... and justice for all**

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