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**Crop Production Project Worksheet**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Production year\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Years enrolled in crop project\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Kind of crop \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Acres in project \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Type of soil \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ % Slope\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Yield goal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Planting date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Row Spacing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inches

Hybrid/Variety Planted \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Planting rate\_\_\_\_\_\_\_\_\_ seeds/acre

**Table 1. Field history (if available)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| History of plot area for the past 2 years | | | | | | |
| Year | Crop Grown | Total Fertilizer Applied (lb/A) | | | Was area manured? | Amount of lime applied per acre |
| N | P₂O₅ | K₂O |
| 1 yr. ago |  |  |  |  |  |  |
| 2 yrs. ago |  |  |  |  |  |  |

**Table 2. Soil test recommendations for this year’s crop (if available)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Laboratory analyses | | | | | Nutrient recommendations for crop grown (lbs/acre) | | |
| Organic matter % | P | K | Soil  ph | Sampling Depth (in.) | N | P₂O₅ | K₂O |
|  |  |  |  |  |  |  |  |

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Table 3. Fertilizer applied for this year’s crop (per acre)**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Application method | Amount (lb/A) | Analysis |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Was any manure applied? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ How much? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Type of tillage (conventional, strip-till, no-till) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Conservation practices applied (cover crops, buffer strips, etc.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Pests found during scouting (weeds, insects, diseases) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Pest control methods used such as herbicides, insecticides and fungicides \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Was the field irrigated? Yes or No

If irrigated, what type of irrigation was used and how much water was applied? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What observations did you make? (Weather during the growing season, crop growth, etc) ?

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**Table 4. Harvest report (If harvest was finished before fair)**

|  |  |  |
| --- | --- | --- |
| Date of harvest | Harvest moisture percentage | Yield (bu/A) |
|  |  |  |

**Table 5. Costs (If Available)**

1. Machinery costs: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
2. Seed: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
3. Fertilizer: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
4. Herbicides: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
5. Insecticides: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
6. Fungicides: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
7. Land charge if rented: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
8. Land taxes if owned: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
9. Irrigation Cost: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
10. Drying Cost: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
11. Hauling Cost: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
12. Insurance Cost: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
13. Other Costs: $ \_\_\_\_\_\_\_\_\_\_\_ per acre
14. **Total Costs:** $ \_\_\_\_\_\_\_\_\_\_\_ per acre

**Table 6. Value of Crop (Use expected if crop is not yet harvested)**

Expected price: $ \_\_\_\_\_\_\_\_\_\_\_\_ per bushel Actual price: $ \_\_\_\_\_\_\_\_\_\_\_\_ per bushel

Expected yield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ bu/acre Actual yield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ bu/acre

Expected total value: $ \_\_\_\_\_\_\_\_\_\_\_\_\_ per acre Actual total value: $ \_\_\_\_\_\_\_\_\_\_\_\_\_ per acre

What did you learn from doing the crops project? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Attach any pictures from your field (optional)

*Credit: Adapted from Iowa State University Extension*