



4-H CROPS RECORD SHEET

Year \_\_\_\_\_

- ☐ Corn ☐ Soybeans ☐ Oats ☐ Wheat ☐ Alfalfa

NAME \_\_\_\_\_ GRADE \_\_\_\_\_

ADDRESS \_\_\_\_\_

DIVISION \_\_\_\_\_ YEARS IN PROJECT \_\_\_\_\_

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.

Grid of dots for field mapping

SAFETY MANAGEMENT RECORD

Table with 4 columns: TASK, YES, NO, IF YES, DATE COMPLETED. Rows include questions about tractor program enrollment, SMV emblems, telephone numbers, and first aid kits.

### FIELD SURVEY

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

|                                           | <b>Survey 1</b><br>(Early Season) | <b>Survey 2</b><br>(Mid Season) | <b>Survey 3</b><br>(Just Before Harvest) |
|-------------------------------------------|-----------------------------------|---------------------------------|------------------------------------------|
| Date                                      | _____                             | _____                           | _____                                    |
| Field Owner                               | _____                             | _____                           | _____                                    |
| Crop Description                          | _____                             | _____                           | _____                                    |
| # of leaves per plant (average 10 plants) | _____                             | _____                           | _____                                    |
| Plant Height (average 10 plants)          | _____                             | _____                           | _____                                    |

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

| <b>Insect Name</b> | <b>Number</b> | <b>Number</b> | <b>Number</b> |
|--------------------|---------------|---------------|---------------|
| _____              | _____         | _____         | _____         |
| _____              | _____         | _____         | _____         |
| _____              | _____         | _____         | _____         |
| _____              | _____         | _____         | _____         |
| _____              | _____         | _____         | _____         |

**Weeds Present:** Write down the kinds and number of weeds you find in 10 feet row. For broadcast planting use a 1 by 10 foot area.

| <b>Weed Name</b> | <b>Number</b> | <b>Number</b> | <b>Number</b> |
|------------------|---------------|---------------|---------------|
| _____            | _____         | _____         | _____         |
| _____            | _____         | _____         | _____         |
| _____            | _____         | _____         | _____         |
| _____            | _____         | _____         | _____         |
| _____            | _____         | _____         | _____         |

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

| <b>Problem</b> | <b>Number</b> | <b>Number</b> | <b>Number</b> |
|----------------|---------------|---------------|---------------|
| _____          | _____         | _____         | _____         |
| _____          | _____         | _____         | _____         |
| _____          | _____         | _____         | _____         |
| _____          | _____         | _____         | _____         |
| _____          | _____         | _____         | _____         |

**YOUTH CROP PRODUCTION PRACTICES**

**Tillage**

| Date | Types of Tillage | Depth | Other Notes |
|------|------------------|-------|-------------|
|      |                  |       |             |
|      |                  |       |             |

**Planting Record** (Record as appropriate)

| Date Planted | Hybrid or Variety | Germination | Seeds Planted | Depth Planted | Row Width | Final Population |
|--------------|-------------------|-------------|---------------|---------------|-----------|------------------|
|              |                   |             |               |               |           |                  |
|              |                   |             |               |               |           |                  |

**Chemicals Applied** (Herbicides, Insecticides, etc.)

| Date | Chemical Formulation | Rate | Method of Application |
|------|----------------------|------|-----------------------|
|      |                      |      |                       |
|      |                      |      |                       |

**Fertilizer Applied**

|----- Pounds of nutrient applied per acre -----|

| Date Applied | N | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | Micro, Lime, etc. | Type of Fertilizer (NH <sub>3</sub> , 45%, etc.) | Method of Application (Surface Plowdown, etc.) |
|--------------|---|-------------------------------|------------------|-------------------|--------------------------------------------------|------------------------------------------------|
|              |   |                               |                  |                   |                                                  |                                                |
|              |   |                               |                  |                   |                                                  |                                                |

**Harvest Records**

Harvest Yield Check

| Date | Acres Harvested | Total Weight | % Moisture | Adjusted Yield (Bushel or Tons) |
|------|-----------------|--------------|------------|---------------------------------|
|      |                 |              |            |                                 |
|      |                 |              |            |                                 |

Sales Record

| Date | Price per Bushel/Ton | # of Bushels/Tons | Less Deductions | Total Received |
|------|----------------------|-------------------|-----------------|----------------|
|      |                      |                   |                 |                |
|      |                      |                   |                 |                |
|      |                      |                   |                 |                |

## FINANCIAL RECORD

You need to decide what to do before you begin the rest of your project. Your project financial budget form<sup>1</sup> 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<br>(amount<br>paid ) | + | Deposits<br>(amount<br>received) | = | Bank<br>balance |
|-----------------------------|---|----------------------------------|---|-----------------|
|-----------------------------|---|----------------------------------|---|-----------------|

**Step 1:** A. Insert beginning bank balance here and in Step 5B. \$ \_\_\_\_\_  
 B. Financing-loan amount as determined in Step 5 \$ \_\_\_\_\_<sup>2</sup>    \$ \_\_\_\_\_<sup>2</sup>

|                                                       | \$ per acre | x | acres |                         |
|-------------------------------------------------------|-------------|---|-------|-------------------------|
| <b>Step 2:</b> Field rent <sup>3</sup>                | _____       | x | _____ | = \$ _____ <sup>2</sup> |
| <b>Step 3:</b> Power and machinery rent <sup>3</sup>  | _____       | x | _____ | = \$ _____              |
| <b>Step 4:</b> Fertilizer, seed,<br>and chemical cost | _____       | x | _____ | = \$ _____              |
|                                                       | _____       | x | _____ | = \$ _____              |
|                                                       | _____       | x | _____ | = \$ _____              |

**Step 5:** Determine size of loan needed:<sup>3</sup>

Add all costs in Steps 2-4 and multiply by number of acres.

|       |   |       |            |
|-------|---|-------|------------|
| _____ | x | _____ | = \$ _____ |
|-------|---|-------|------------|

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

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

**Step 6:** Select lender. Name of Lender: \_\_\_\_\_

**Step 7:** Select bank. Name of Bank: \_\_\_\_\_

|                                                        | Expected yield  | x | Expected price |            |
|--------------------------------------------------------|-----------------|---|----------------|------------|
| <b>Step 8:</b> Estimate sales: <sup>4</sup>            | _____           |   | _____          | = \$ _____ |
|                                                        | Loan (Step 1 B) | + | Interest       |            |
| <b>Step 9:</b> Pay off loan <sup>5</sup> and interest: | _____           |   | _____          | = \$ _____ |
| <b>Step 10:</b> Calculate ending bank balance:         | Step 8          | - | Step 9         | = \$ _____ |

### **Summary**

|                                                |            |   |            |
|------------------------------------------------|------------|---|------------|
| <b>1. Calculate project profit (or loss):</b>  |            |   |            |
| Ending bank balance (10)                       | \$ _____   |   | \$ _____   |
| minus beginning bank balance (1)               | \$ _____   | - | \$ _____   |
| Profit (or loss)                               | \$ _____   |   | = \$ _____ |
| <b>2. Calculate per acre profit (or loss):</b> |            |   |            |
| Step 8 (per acre sales)                        | \$ _____   |   |            |
| minus Step 5A (per acre costs)                 | - \$ _____ |   |            |
| Profit (or loss) per acre                      | = \$ _____ |   |            |

### Footnotes:

- 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.