



## Grower Project and Record

Each club member is required to keep a business-like record of the projects carried out each year. It is **good business** to keep **complete** and **accurate** records. The purpose of this record book is to let you know how you stand in dollars and cents after completing the year's work. It is an important part of your club project. Be sure to take good care of it and keep it up-to-date. It will help others know what you have done in your club work and how well you have succeeded.

Keep your record book current. As soon as an activity is completed, such as selecting land, fertilizer, or other materials, enter it in the proper space in your record book. When you finish any project-related work, make an entry in your book. This is the best way to keep an accurate record of your activities. Your record will be not be useful unless it is accurate.

Be sure to read the instructions on each page. Make sure you understand them, and know how to make proper entries in the book. Your parents or your local leader can help you get started.

When your record book is complete, turn it over to your local 4-H leader. He or she will check it for accuracy, sign it, and forward it to your county extension educator.

Save all pictures and newspaper clippings relating to your project. If your record is selected to represent the county in some project or other club activity, you will have all of the material needed to show what you have done. Ask your local leader or county extension educator to explain the awards.

Year 20\_\_\_\_\_

Name \_\_\_\_\_ Age \_\_\_\_\_ Birthdate \_\_\_\_/\_\_\_\_/\_\_\_\_

Mailing address \_\_\_\_\_ Month /Day/Year

School grade complete \_\_\_\_\_ Years in 4-H/FFA \_\_\_\_\_ Years in 4-H/FFA Sugarbeet Project \_\_\_\_\_

4-H Club/chapter \_\_\_\_\_

Office(s) held \_\_\_\_\_

Committee(s) served on \_\_\_\_\_

Member's signature \_\_\_\_\_

Parent's/Guardian's signature \_\_\_\_\_

Leader's signature \_\_\_\_\_

# Potato Growers Project Record Book

## OBJECTIVES

1. To stimulate interest in growing potatoes
2. To learn effective crop management for potato production including
  - fertilization
  - irrigation
  - weed control
  - insect control
  - disease control
  - harvesting
  - marketingand to learn how each affects crop quality
3. To keep appropriate records
4. To learn about the potato industry and its opportunities
5. To gain self-confidence and learn responsibility through experience and successful completion of the project

## REQUIREMENTS

You will:

1. Deliver approximately 1,000 hundredweight (cwt) of potatoes to your contractor.
2. Supply a legal description of land where you grow potatoes.
3. Complete a pesticide report.
4. Be an active member of a 4-H club and fulfill all meeting and demonstration requirements.
5. Own your own project with a bonafide agreement or contract with your parents or landlord covering machinery, labor, seed, share, etc. This must be signed by your parents and your leader.
6. Have your parents or legal guardian co-sign the contract with the company. (A contract with a potato company is optional).
7. Exhibit at the county fair or an approved alternative.
8. Summarize, and turn in projects to your county extension office on or before December 30 of the current calendar year.
9. Attend the annual field tour of potato projects and give an oral presentation on cultural practices (what it takes to produce the crop) during the tour.
10. Have an up-to-date record book available for review during the field tour.
11. Watch your samples being graded by the USDA. The fieldman will set up the grading at a time when you are able to attend.

## EXHIBITS

1. Exhibit a sample of potatoes at the county fair according to local fair regulation.

**OR**

2. Exhibit a sample of potatoes at a public exhibit other than the county fair. Talk to your leader and/or county agent for approval.

**AND**

3. Exhibit your completed FC-10, Potato Grower Record Book at the fair.

A special thanks to Ore-Ida Foods, Inc., J.R. Simplot Company, Mini-Cassia Potato Growers of Idaho, and the Minidoka and Cassia County Extension Systems for their help in developing this project.



# Field Plan

Show the location of your crop project in relation to the rest of the farm. Indicate the number of acres in your project on the map and give the legal description. If you irrigate, show how the irrigation system for your project is laid out (head ditches, field ditches, etc.).



Number of acres in this year's project \_\_\_\_\_

Number of acres in last year's project \_\_\_\_\_



# County Potato Grower

The potato crop project is divided into four parts. You must complete all four parts of the project to be eligible to receive a County 4-H Potato Grower certificate and be eligible for county 4-H Champion Potato Grower. A County 4-H Champion Potato Grower will be selected based on the results of four categories:

Category	Points Possible
1. Oral presentation during county field tour	100
2. Preparation and exhibition of potatoes at county fair	50
3. Potatoes evaluated for quality based on grower matrix	100
4. Record book judged and evaluated at end of year	100
<b>TOTAL POINTS POSSIBLE</b>	<b>350</b>













8. What mechanical methods (cultivation, etc.) did you use to control weeds, diseases, and insects? Describe the effectiveness of these methods.

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9. How did you irrigate your crop? Include the method, rate, and frequency.

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10. What insects did you find in the crop? Discuss any insecticides you applied, how you applied them, the rates you used, and the result.

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11. What diseases did you have, if any (early die, ring rot, scab, etc.)? What controls did you use? At what rates? How did you apply them?

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12. What type(s) of soil erosion did you have on your plot (wind erosion, soil movement from irrigation, etc.)? How does the slope, soil type, and type of irrigation affect the erosion on your plot? What did you do to keep soil erosion to a minimum?

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13. Did any unusual weather conditions affect your crop? Explain.

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# Budget

Use your best estimate what it will take to grow your crop.

Estimated income:		
1. Yield per acre (cwt)	cwt	
2. Price per cwt (\$)		\$
3. Gross income per acre (\$) (1 x 2)		\$

Estimated expenses:		
4. Land cost per acre \$		\$
5. Water and pump cost per acre \$		\$
6. Machinery and equipment cost per acre (Include all costs from ground preparation to harvest)		\$
7. Fertilizer costs per acre		\$
8. Seed costs per acre		\$
9. Chemical costs per acre (includes herbicides, insecticides, fungicides, rodenticides)		\$
10. Labor costs per acre ( <i>not including your own labor</i> )		\$
11. Dues		\$
12. Other miscellaneous costs per acre		\$
13. Interest		\$
14. <b>Total of estimated expenses per acre</b> (Total of 4 through 13)		\$
15. <b>Net income per acre</b> (3 minus 14)		\$

## Example Budget

Table I. Costs and Returns Per Acre to Produce Potatoes

October 26, 2001

	Quantity Per Acre	Price or Unit	Value or Cost/Unit	Your Cost/Acre	Cost
<b>Gross Returns</b>					
Potatoes	390.00	cwt	4.75	<u>1852.50</u>	
Total Gross Returns For Potatoes				<u>1852.50</u>	
<b>Variable Costs</b>					
G-3 Burbank potato seed	23.00	cwt	8.50	195.50	
Seed cut and treat	23.00	cwt	1.50	34.50	
Dry Nitrogen	165.00	lb	0.31	51.15	
Liquid Nitrogen - postplant	130.00	lb	0.32	41.60	
P205	200.00	lb	0.19	38.00	
Liquid P205	40.00	lb	0.32	12.80	
Potash	180.00	lb	0.15	27.00	
Sulfur	80.00	lb	0.13	10.40	
Micronutrients	2.00	acre	12.00	24.00	
Sencor DF	0.75	lb	19.45	14.59	
Thimet 20G	15.00	lb	2.20	33.00	
Bravo Ultrex	2.50	lb	6.35	15.87	
Monitor 4E	0.75	qt	21.00	15.75	
Prowl	1.00	qt	5.75	5.75	
Eptam 7E	2.00	qt	8.35	16.70	
Dithane F45	3.20	qt	3.00	9.60	
Fulfill	2.75	oz	5.30	14.58	
Sulfuric acid	1.00	acre	25.50	25.50	
Crop insurance -- hail	1.00	acre	36.00	36.00	
Fees	390.00	cwt	0.13	50.70	
Irrigation power	26.50	acin	0.99	26.24	
Irrigation labor	2.44	hour	7.80	19.03	
Water assessment	1.00	acre	24.70	24.70	
Irrigation repairs	26.50	acin	0.57	15.11	
Custom fertilize	2.00	acre	5.10	10.20	
Consultant	1.00	acre	14.50	14.50	
Custom ground spray	4.00	acre	6.00	24.00	
Custom air spray-10g	4.00	acre	8.60	34.40	
Labor (machine)	7.46	hour	11.70	87.33	
Labor (non-machine)	2.61	hour	6.90	18.01	
Fuel - Gas	3.19	gal	1.54	4.92	
Fuel - Diesel	26.95	gal	1.07	28.84	
Lube				5.06	
Machinery repair				43.33	
Interest on operating capital @ 7.50%				30.69	
Total Operating Costs/Acre				1035.34	
<b>Net Returns Above Operating Costs</b>				817.16	
<b>Cash Ownership Costs</b>					
General Overhead				36.00	
Land Rent				310.00	
Management Fee				92.63	
Property Taxes (Machinery)				0.00	
Property Insurance				3.06	
Total Cash Ownership Costs per Acre				441.69	
<b>Non-Cash Ownership Costs (Depreciation and Interest)</b>					
Equipment				121.24	
Total Non-Cash Ownership Costs per Acre				121.24	
<b>Total Costs per Acre</b>				1598.26	
<b>Returns to Risk and Management</b>				254.24	











# My 4-H Club Activities

1. Number of meetings my club held throughout the year \_\_\_\_\_

Number of meetings I attended \_\_\_\_\_

2. Office I held in club \_\_\_\_\_

3. Committees on which I served \_\_\_\_\_

4. Demonstrations I gave \_\_\_\_\_

5. Judging tryouts or tours I attended (where and when) \_\_\_\_\_

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6. Exhibits I made \_\_\_\_\_

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7. Club camp or picnic I attended (where and when) \_\_\_\_\_

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8. Safety and fire prevention activities \_\_\_\_\_

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9. Health activities \_\_\_\_\_  
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10. How I improved my health habits during the year \_\_\_\_\_  
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11. Citizenship activities \_\_\_\_\_  
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# Pictures, articles, etc.

## Optional



Grower Project and Record



University of Idaho  
Extension

Project book revised 10/02