

Livestock

Record Book

4-H Motto

Learn to do by doing.

4-H Pledge

I pledge
my *head* to clearer thinking,
my *heart* to greater loyalty,
my *hands* to larger service,
my *health* to better living,
for my club, my community, and my country.

4-H Grace

(Tune of Auld Lang Syne)

We thank thee, Lord, for blessings great
on this, our own fair land.
Teach us to serve thee joyfully,
with head, heart, health, and hand.

Revised August 1994

About Your Record Book

Why do we keep records in 4-H?

- to record information about your animal(s)
- to record the work you have done
- to record your club activities
- to learn the importance of keeping accurate records in any business
- so you can see the actual costs involved in raising your animal. Without records, you cannot accurately tell how much of a gain or loss you have made on your investment.

What is involved in a good record book?

- **Completeness** - A good record book has all the required information completed.
- **Accuracy** - Your figures and information should be accurate and up-to-date. Be accurate when weighing your feed and your animal.
- **Neatness** - Neatness is important in your record book. We realize that you are working on your record book throughout the year and will do your best to keep your book neat.
- **Personality** - This is your record book. Be original and personal in the information you keep in your book. Add photographs, pictures, newspaper and magazine articles on you, your club, your project type and 4-H. Your record book will be important to you for many years.

This record book is flexible. Put these pages into your binder. Add extra pages if you need more room. Make this your personal record book.

Hints For Keeping Good Records

1. Read the instructions for each section carefully. Make sure that you know in advance which records you must keep in that section. If you have any questions, ask your leader - he or she is there to help you!
2. Keep your records up-to-date! Problems are caused by forgetting to record last month's feeds, or not recording changes in the feeds. Helpful hint: keep a calendar and a pen somewhere handy to your animal(s). Whenever you change the feed, or your animal is treated or vaccinated, you can quickly grab your calendar and mark it down. When it is time to write the information in your record book, the information is handy and accurate.
3. Keeping records is good business procedure. A good record book will be important in future projects for your decision-making. Start your record keeping as soon as you have chosen your project. End your record keeping for the project year at Achievement Day. For breeding projects, you may wish to keep records for a 12-month period.
4. If you don't know feed prices, there are many people who you can contact. Consult your parents, local radio, feed companies, your local agriculture specialist, your leader, your neighbour, and so on. It is important to be accurate in your process. Prices will vary from year to year. Your club may decide to set prices at the start of the project year.
5. Be consistent in your units for weight. No matter which type of units you use (kilograms or pounds), be consistent and use the same units through your entire book.
6. Be accurate in your feed weights. If your weights are accurate, then your final gain or loss will be valid.
7. Identify all your 4-H animals in the beginning inventory. Identify any purchases you make during the project year, or losses of equipment. In your final inventory, identify any animals or equipment you have on hand. Remember to depreciate (lessen the value of something as time goes on) any equipment for your final inventory.
8. Include all costs, no matter how small. This will give you a true picture of your actual value.

About Me

My name _____

Address _____

Phone Number _____

My age at January 1 this year _____

This is my _____ year in 4-H.

About My Club

Club name _____

Number of members _____

This club has been operating for _____ years.

Name

Phone Number

Name	Phone Number
Club leader(s) _____	_____
_____	_____
_____	_____

Club executive:

Name	Phone Number
President _____	_____
Vice President _____	_____
Secretary _____	_____
Treasurer _____	_____
Press Reporter _____	_____
Any others? _____	_____
_____	_____

About My Livestock Project

Name of animal _____

Date of birth _____

Sex _____ Purebred or crossbred _____

Breed _____

4-H eartag or registered tattoo _____

Dam _____

Sire _____

Date purchased _____

Value at the start of the project _____

Include a photograph here, taken within the first two months of the project year. Be sure to put a title and date.

(Add more pages to show all of your photographs from throughout the year.)

More About Me

1. Why did you join 4-H this year?

2. What do you hope to accomplish in 4-H this year?

3. What are your goals with your animal(s) in 4-H this year?

4. What are you going to contribute to your club this year?

Animal and Equipment Inventories

Animal(s)	Value at start	Value at end
Example: Lucky	640.00	1,250.00
Totals	(A) \$	(B) \$

Equipment (old equipment and new purchases)	Value at start of project \$	Depreciation Amount \$	Value at end of project \$
Examples: Rope Halter	10.00	2.00	8.00
Lost Shank	12.00	12.00	0.00
New Brush	8.00	1.60	5.40
Totals	\$	(C) \$	\$

Tell me how your project did this month:

Month	Member and Leader Comments	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	

Tell me how your project did this month:

Month	Member and Leader Comments	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	
	Member	
	Leader	

Record of Feed Expenses

Start date of feed record _____

		Kind of Feed			Kind of Feed			Kind of Feed		
Month	Days in Mth	Kg of feed per day/per month	\$ Per kg	Feed Cost \$	Kg of feed per day/per month	\$ Per kg	Feed Cost	Kg of feed per day/per month	\$ Per kg	Feed Cost
Nov	30	4/120	.04	4.80	2/60	.06	3.60	0.5/15	.10	1.50
Year Total		(A.1)		(C.1) \$	(A.2)		(C.2)	(A.3)		(C.3) \$

Total Kg of Feed

$$\begin{array}{ccccccccc}
 \text{(A.1)} & & \text{(A.2)} & & \text{(A.3)} & & \text{(A.4)} & & \text{(A.5)} & & \text{(A.6)} & = & \text{(F)} \\
 \boxed{} & + & \boxed{} & + & \boxed{} & + & \boxed{} & + & \boxed{} & + & \boxed{} & = & \boxed{} & \text{(F)}
 \end{array}$$

End date of feed record _____

Total days on feed _____

(E)

Kind of Feed			Kind of Feed			Kind of Feed			
Kg of feed per day/per month	\$ Per kg	Feed Cost \$	Kg of feed per day/per month	\$ Per kg	Feed Cost \$	Kg of feed per day/per month	\$ Per kg	Feed Cost \$	Total Feed Costs \$
1/30	.12	3.60	2.5/75	.02	1.50	0.5/15	.06	.90	15.90
(A.4)		(C.4) \$	(A.5)		(C.5)	(A.6)		(C.6) \$	

Total Cost of Feed

$$\begin{array}{ccccccccccc}
 \text{(C.1)} & & \text{(C.2)} & & \text{(C.3)} & & \text{(C.4)} & & \text{(C.5)} & & \text{(C.6)} & = & \text{(G)} \\
 \boxed{} & + & \boxed{} & + & \boxed{} & + & \boxed{} & + & \boxed{} & + & \boxed{} & = & \boxed{} \text{ (G)}
 \end{array}$$

Other Costs

Date	Examples: bedding, trucking, insurance, breeding fees and yardage.	Cost
Sept. 15	4-H Livestock Insurance, Davies and Associates	\$30.00
	Total Other Costs (H)	

Animal's Health Record

Include on this health record - routine practices and treatments, sickness and injury.

(Example: castration, vaccination, implants, vitamin injections, and so on.)

Date	Problem or Practice (symptoms or disease)	Treatment (Who treated, what was used, what happened.	Cost \$
November 12	growth implant	My father helped me do it.	\$2.00
		Total Cost (I)	

Financial Summary

Project _____ Animal _____

Value of animal at end of project

Use net sale price, or estimated value of animal at end of project \$ (K)

Expense Record

Purchase price or initial value of animal at start of project (L)
(from page 4)

+

Depreciation Cost (C from page 6) (M)

+

Feed cost from feed record (G from page 11) (N)

+

Total other costs (H from page 12) (O)

+

Total health costs (I from page 13) (P)

Total expense of raising my project animal (Q)
(Add L + M + N + O + P)

Profit or Loss

Net sale price, or estimated value of animal at end of project (K) - Total expenses (Q) = Profit or loss.

(K) - (Q) =

1. Did you have a profit or loss?

2. If you had sold this animal at today's market price, would you have made a profit or loss?

Indicate the current market price per weight unit.

Market price - Expenses = Real life profit or loss

Note: The person who bought your animal supports 4-H by paying you a premium price (more than market value). You might want to send a thank you note to your buyer.

Average Daily Gain Record

The record must be filled in by members who have sold their animal.

Total weight gain (from weight gain record, D page 7) kgs (X)

Days on feed (from record of feed expenses, E page 11) days (Y)

• Average Daily Gain (ADG)

$$\frac{\text{Total weight gain (X)}}{\text{Total number of days (Y)}} = \text{Average Daily Gain (ADG)}$$

$$\frac{\text{_____ (X)}}{\text{_____ (Y)}} = \text{_____ kgs per day ADG}$$

Level I members do not have to fill in from here to the end of page 19. You start again on page 20.

Level II and III Members:

After you have several years of 4-H experience, we ask you to:

1. Keep more in-depth records.
2. Help other members with their records.

Share and use your expertise!

Level II areas are designed for 4-H members ages 12-14 as of January 1 of the project year.

Level III areas are designed for 4-H members ages 15-21 as of January 1 of the project year.

Your club will decide what areas you should all complete.

Level II and III

Financial Summary Using Interest Costs

Interest costs (R) This exercise shows how much it costs to borrow money. Do the exercise even if you didn't use a loan. There are several things to think about with loans. One is the type of loan.

A simple loan The money is paid back in a lump sum (one payment). The amount paid back can be calculated as follows:

Amount borrowed X interest X time (in years) = interest

Example: \$500 x 9% x 0.75 = \$33.75 to borrow money on a simple loan for 9 months

\$500 + \$33.75 = \$533.75 will be paid back.

- **If you have a loan, how much interest will it cost you?**

Amount borrowed X interest X time (in years) = interest cost

$$\boxed{} \times \boxed{} \times \boxed{} = \$ \boxed{} \text{ (R)}$$

- **The cost of raising your project animal if you used a loan**

Total expenses (from page 14, Q) + interest (R above) = cost of raising my project if a loan was used.

$$\boxed{} \text{ (Q)} + \boxed{} \text{ (R)} = \$ \boxed{} \text{ (S)}$$

Note: Other costs are usually included in total costs when calculating "break-evens" for commercial operations. These other costs are either:

- yardage (includes buildings, corrals, and labour whether at your farm or at a custom feedlot), or
- labour alone (if the cost of facilities is minimal).

Yardage costs vary from \$0.12/day to \$0.25/day. If you start a real-life commercial operation, you need to recognize that yardage and labour costs must be included in your analysis of your costs. Your club may require you to calculate yardage as an other cost on page 12.

Level II

Performance Record

- Feed cost per kilogram of weight gain**

$\frac{\text{Total feed costs (from expense record, page 14, N)}}{\text{Total weight gain (from ADG record, page 15, X)}} = \text{Feed cost per kg of weight gain}$

$$\frac{\text{_____ (N)}}{\text{_____ (X)}} = \$ \boxed{} \text{ feed cost per kg of weight gain}$$

This tells you how much it costs to feed your animal(s) for one kilogram of gain in weight. This does not include your other expenses.

- Total cost per kilogram of weight gain**

$\frac{\text{Total expenses (from page 14, Q)} - \text{Initial value (from page 14, L)}}{\text{Total weight gain (from Average Daily Gain record, page 15, X)}} = \text{total cost per kg of weight gain}$

$$\frac{\boxed{} \text{ (Q)} - \boxed{} \text{ (L)}}{\boxed{} \text{ (X)}} = \$ \boxed{} \text{ per kg of weight gain}$$

Level III

Break-Even Price

Initial value at start of project (from expense record page 14, L) \$ $\boxed{}$ (1)

- Cost to produce weight gain**

$Q - L$ (from expense record, page 14) = cost to produce gain

$$\boxed{} \text{ (Q)} - \boxed{} \text{ (L)} = \$ \boxed{} \text{ (2)}$$

Level III

Break-Even Price (continued)

- **Total production cost**

(1) + (2) = total production cost

$$\boxed{} (1) + \boxed{} (2) = \$ \boxed{} (3)$$

- **Sale weight**

$$\boxed{} (4)$$

- **Break-even sale price needed to cover all costs:**

$\frac{\text{Total products costs (3)}}{\text{Sale weight (4)}} = \text{break-even sale price needed to cover all costs}$

$$\frac{ (3)}{ (4)} = \$ \boxed{} \text{ per kg (5)}$$

- **Actual sale price**

$$\$ \boxed{} \text{ per kg (6)}$$

- **Profit per kilogram of grain**

Actual sale price (6) - break-even price (5) = profit per kilogram of gain

$$\boxed{} \text{ per kg (6)} - \boxed{} \text{ per kg (5)} = \$ \boxed{} \text{ per kg (7)}$$

- **Total profit**

Profit per kilogram (7) x sale weight (4) = total profit

$$\boxed{} (7) \times \boxed{} (4) = \$ \boxed{} (8)$$

Comments:

Level III

How Much Can You Afford To Pay For Your Project Next Year?

- **Estimated purchase Weight** of next year project calf.

Target finish weight x estimated future market sale price = expected sale value

$$\text{[] kg} \times \$ \text{[] per kg} = \$ \text{[] (A)}$$

- **Estimated gain**

Target finish weight - estimated purchase weight = Estimated Gain

$$\text{[] kg} - \text{[] kg} = \text{[] (B)}$$

- **Cost of Gain**

Total cost per kg of gain (from page 17) x estimated gain (B) = Cost of Gain

$$\text{[] per kg} \times \text{[] (B) kg} = \$ \text{[] (C)}$$

- **Margin over cost of gain**

Expected sale value (A above) - cost of gain (C) = margin over cost of gain

$$\text{[] (A)} - \text{[] (C)} = \$ \text{[] (D)}$$

- **Break-even purchase price**

$\frac{\text{Margin over cost of gain (D)}}{\text{Purchased weight}}$ = Break-even purchase price

$$\frac{\text{[] (D)}}{\text{kg}} = \$ \text{[]}$$

Record of Your Club's Activities

In this section, keep a record of all the meetings and activities your club has had this year. If you had any special responsibilities, be sure to tell me about them.

Date	Location	Things discussed, special speakers, activities, responsibilities, and so on.

Your Clipping Page

Paste your notes, pictures, and clippings here. Include information on special club activities and Achievement Day here (rallies, tours, camping trips, shows, communication activities, provincial events, and so on). Add more pages, if needed.

**Breeding Project
Pedigree**

Name of animal _____ Breed _____

Date of birth _____ Registration no. _____

4-H eartag no. _____ Tattoo no. _____

Breeder _____

(Name)

Name

(Grandsire) # _____

Breed _____

(Name)

(Granddam) # _____

Breed _____

(Name)

Name

(Grandsire) # _____

Breed _____

(Name)

(Granddam) # _____

Breed _____

Breeding Program

Complete the appropriate section below:

Artificial

- Date _____
Age of Animal _____
Weight of Animal _____
Sire Used _____
Remarks _____

Cost _____
Date Due _____

- Date _____
Age of Animal _____
Weight of Animal _____
Sire Used _____
Remarks _____

Cost _____
Date Due _____

Natural

When first exposed to breeding:

- Date _____
Age of Animal _____
Weight of Animal _____
Date of Conception _____
Due Date _____

Estrus (Heat Record)

Record estrus (heat) cycles on this page. This will help you to calculate when your animal's next estrus will occur. By keeping a record of estrus cycles, you will know when to watch for signs of estrus activity to show that breeding is more likely to be successful.

Yearly Estrus Calendar

On the calendar below, keep a record of the following information (use symbols indicated):

- estrus (E)
- standing heat (S)
- bred (B)

January

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						

March

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

August

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

December

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Carcass Evaluation

One end-product in the livestock industry is meat for the retail market. Because of this, the quality of the carcass produced is important. The quality information is obtained from the grader's report.

1. Ear tag number
2. Live weight
3. Warm dressed weight
4. Dressing percentage = $\frac{\text{warm dressed weight} \times 100}{\text{liveweight}}$
5. Loin Eye Area (square inches)
6. Average Fat Measurement
7. Average (Fat) Grade Measurement
8. Carcass Score
 - a. Cutability
 - b. Visual Appearance
 - c. Carcass Placing
 - d. Live Score
 - e. Live Placing
 - f. Total Score
 - g. Final Placing
9. Show Placing

The Creed of the 4-H Stockkeeper

I will:

1. Provide comfortable and sufficient quarter for my livestock.
2. Feed my livestock on time each day.
3. Provide animals with clean water at all times.
4. Keep my animals free from parasites.
5. Strive to keep my livestock in good health.
6. Learn as much as possible about the best methods of feeding and caring for livestock.
7. Strive to improve the breeding and quality of my livestock, and of the livestock in my community, from year to year.
8. Be kind to animals.
9. Always be a good sport in competition.
10. Keep an accurate record of my projects.
11. Complete my project and take part in all the activities of my 4-H club each year.

I have read and agree to abide by this creed.

Your signature _____

Date _____