

Transportation Regulations

When you transport your livestock, regulations require that the livestock be accompanied by a completed Livestock Manifest. (Refer to Appendix VIII, on page 45, for more information.) This means that when you transport your livestock from your farm to an event, or any club activity, the manifest must be completed before the vehicle leaves your property.

All cattle must be ear tagged with a mandatory CCIA-approved RFID tag before being transported.

About Your Record Book

Why do we keep records in 4-H?

- To record information about your animal.
- 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 completing your project. Without records, you cannot accurately tell how much of a profit or loss you have made on your investment.

What is involved in a good record book?

- **Completeness** – A good record book has all of 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 about 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. You may want to add extra pages if you need more room. Check with your leader whether your club prefers to have additional information in your record book. Make this your personal record book.

Looking for the record book on-line?

On the Alberta 4-H web site, www.4h.ab.ca, click on Resource Log-In, under the category Livestock, this resource is available to be downloaded and saved as a PDF. In order to access this information you will need to log in using `alberta4h` (user name) and `cleaver` (password), both are case sensitive.

THE CREED OF THE 4-H STOCK KEEPER

I will:

1. Provide comfortable and sufficient quarters 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. Strive to fulfill the basic requirements of being a 4-H Club Member.

I have read and agree to abide by this creed.

Signature _____

Date _____

ABOUT ME

My name _____

My address _____

Phone number _____ Premise I.D. _____

Email address _____

My age on January 1st this year _____ This is my _____ year in 4-H.

MORE ABOUT ME

Why did you join 4-H this year?

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

What are your goals with your market beef project in 4-H this year?

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

ABOUT MY CLUB

Club name _____

My club has been operating for _____ years.

This year we have _____ members.

Our club goal is _____

4-H District _____ 4-H Region _____

Club/Project Leader(s) Name _____ Phone _____

Name _____ Phone _____

Name _____ Phone _____

Name _____ Phone _____

My club email contact address _____

CLUB EXECUTIVE AND OTHER CLUB POSITIONS

President Name _____ Phone _____

Vice President Name _____ Phone _____

Secretary Name _____ Phone _____

Treasurer Name _____ Phone _____

Club Reporter Name _____ Phone _____

_____ Name _____ Phone _____

_____ Name _____ Phone _____

_____ Name _____ Phone _____

_____ Name _____ Phone _____

_____ Name _____ Phone _____

_____ Name _____ Phone _____

HINT: Make sure you include **Area Codes** with the phone numbers.

ABOUT MY MARKET BEEF PROJECT

Name of Animal _____ Date of Birth _____

RFID Eartag _____ 4-H Eartag _____

Date Project Purchased _____ Brand and Location _____

Purchased From _____

Purchase Weight (lbs) x Purchase Price (\$/lb) = **Initial Value of Project Animal (A)**

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

Initial Weigh Date: Weight at Weigh In (lbs): (B)

Sale Weigh Date: Sale Weight (lbs): (C)

Sale Weight (lbs) (C) - Weight at Weigh In (lbs) (B) = **Total Weight Gain (lbs) (D)**

$$\boxed{} \text{ (C)} - \boxed{} \text{ (B)} = \boxed{} \text{ (D)}$$

Number of Days on Feed (include initial and final day): (E)

$$\frac{\boxed{} \text{ (lbs) (D)}}{\boxed{} \text{ (days) (E)}} = \boxed{} \text{ lbs / day}$$

Total Weight Gain (D) **Average Daily Gain (ADG)**

Number of Days on Feed (E)

HINT: Round to two decimal places. For example, use 2.96 lbs instead of 2.956 in your calculation.

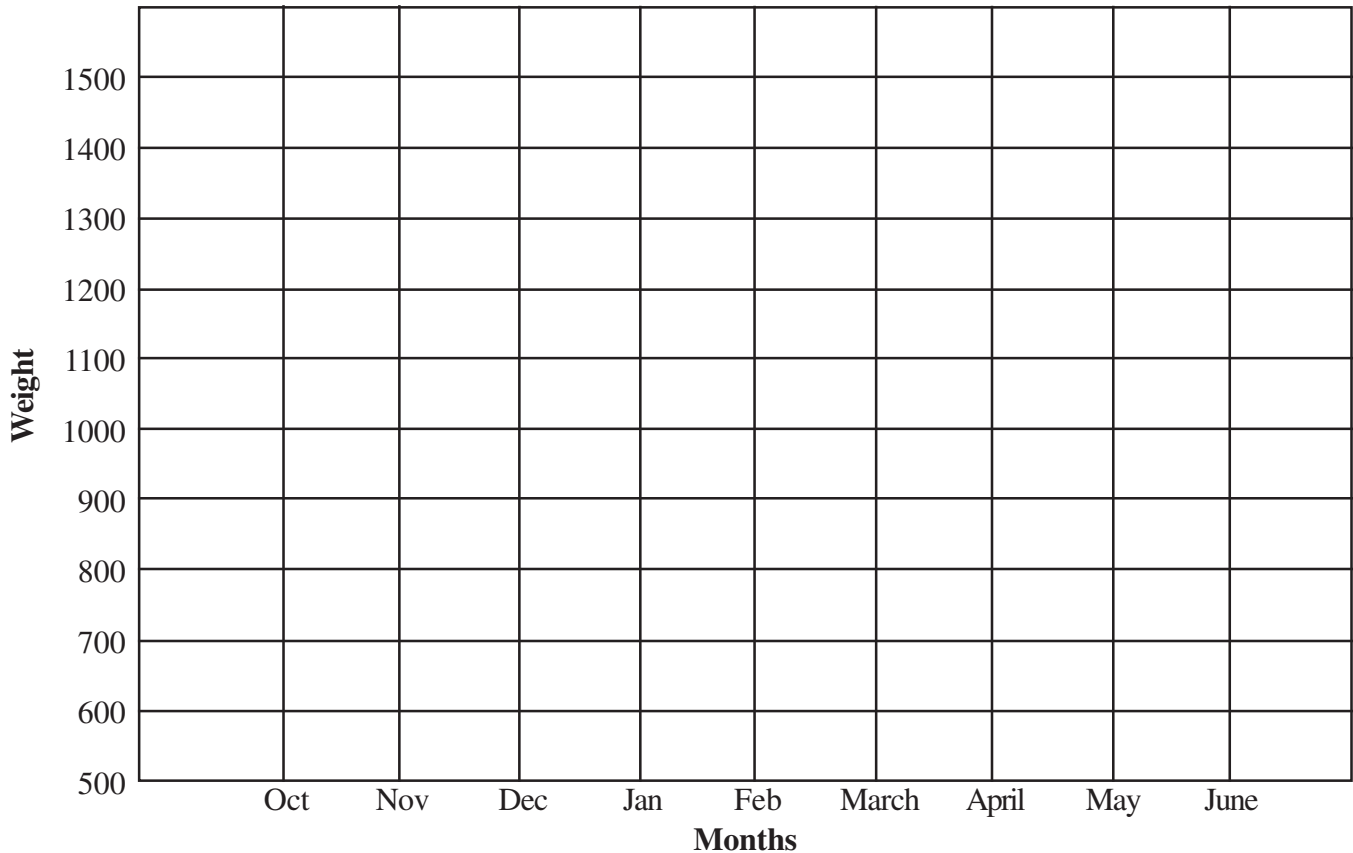
PROJECT PHOTOS

Include two photos: One taken within the first month of Weigh-In Day and the second within two weeks of Achievement Day (label and include date).

RATE OF GAIN - Record in Pounds

Month	Example: October	October	November	December	January	February	March	April	May	June
# of Days	31									
Ending Weight	600									
Starting Weight	525									
Weight Gain	$(600-525) = 75$									
ADG (Average Daily Gain)	$(75/31) = 2.42$									

GROWTH CHART IN POUNDS



1. Mark the initial weight with a dot at the appropriate location (month) on the left-hand side of the table.
2. Mark the estimated final weight (Appendix I) with a dot, corresponding to your final weigh date.
3. Connect these 2 points in **RED** with a straight line.
4. Every month record your steer's weight on the chart, and connect this point with the previous month's weight.

HINT: If you want to convert Rate of Gain into Kilograms, multiply weight in pounds by 0.454
 Example: $600 \text{ lbs} \times 0.454 \text{ kg/lb} = 272 \text{ kg}$.

RECORD OF FEED

For more information on Record of Feed, please refer to Appendix III.

Total cost of feed

Add the total cost of feed from the following months to calculate your total cost of feed this year.

TOTAL COST OF FEED: (F)

Important feed terms

NUTRIENT – needed for maintenance, growth, production and reproduction.
Cattle require protein, energy, vitamins, minerals and water.

RATION – the amount of feed required by the animal daily.

ROUGHAGE – high fibre feed. Example: hay, silage, straw, green feed.

CONCENTRATE – high energy feed. Example: barley, oats, corn.

SUPPLEMENTS – good source of one or more nutrients.

FEED ADDITIVE – improves feed efficiency and rate of weight gain. Example: Rumensin

EXAMPLE

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Barley	31	10	(30 days x 10 lbs) 310	\$0.08	(300 x \$0.08) \$24.80
Hay	31	12	372	\$0.05	\$18.60
Salt	31	0.2	6.2	\$0.09	\$0.56
Total Feed This Month			688.20	Total Cost This Month	\$43.96

HINT: If you need more space under feed type, put in items such as salt and supplements in “Other Project Related Costs”.

EVALUATING ANIMAL PERFORMANCE

Feed conversion ratio is a gross measure of feed efficiency and most often used as a tool to evaluate groups or pens of growing and finishing cattle.

Feed efficiency is defined as a ratio of feed intake to weight gain.

Example: If a steer had a ratio of 13:1, the steer needs to eat 13 lbs of feed in order to gain 1 lb.

Seniors Only:

688.20

Total Feed This Month

96

Total Weight Gain this Month

(Rate of Gain - page 10)

7.17

: 1 Feed Conversion Ratio

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

Total Feed This Month

=

: 1 Feed Conversion Ratio

Total Weight Gain this Month

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

Total Feed This Month

=

: 1 Feed Conversion Ratio

Total Weight Gain this Month

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

	Total Feed This Month	=		: 1 Feed Conversion Ratio
	Total Weight Gain this Month			

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

	Total Feed This Month	=		: 1 Feed Conversion Ratio
	Total Weight Gain this Month			

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

	Total Feed This Month	=		: 1 Feed Conversion Ratio
	Total Weight Gain this Month			

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

	Total Feed This Month	=		: 1 Feed Conversion Ratio
	Total Weight Gain this Month			

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

	Total Feed This Month	=		: 1 Feed Conversion Ratio
	Total Weight Gain this Month			

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

Seniors Only:

	Total Feed This Month	=		: 1 Feed Conversion Ratio
	Total Weight Gain this Month			

MONTH: _____

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Total Feed This Month				Total Cost This Month	

*Seniors Only:***Total Feed This Month**

=

: 1 Feed Conversion Ratio**Total Weight Gain this Month****OTHER COSTS**

Include items that potentially are used in one year such as membership fees, buyer's gifts, grooming supplies, shirts, and travel expenses.

Date	Item	Amount
Total Other Costs (G)		\$ <input type="text"/>

HEALTH AND MAINTENANCE

Date(s)	Condition Being Treated	Treatment (Medication, Amount and Route of Administration)	Drug's Lot # and Expiry Date	Withdrawal Time	Cost(s)
Ex. Nov. 28	Prevent Parasites	Invermectin at 1 ml/22 lbs Topical	091V09232 SE2010	49 days	\$0.41
Ex. Nov. 15 to June 1	Improve Feed Efficiency	Rumensin-mixed as a 12.5% oral ration	261235 N/A	N/A	Included in feed cost
Total Health Care Cost (I)					\$

Route Administration:

- Oral (in the feed, balling gun, drenching bottle, tube)
- Topical (poured along topline)
- Subcutaneous (injected beneath the skin)
- Intramuscular (injected directly into the muscle)
- Intravenous (injected into the vein).

Withdrawal time is defined as the time needed after the administration of a drug to ensure that drug residues in the marketable meat is below a determined Maximum Residue Limit (MRL). The animal may not be sold for slaughter during this time.

HINT: Please see Appendix VI for Injection Site diagram. Refer to your Project Manual, Units 6 and 7, for more parasite and herd health information.

FINANCIAL SUMMARY

Income Record

Sale Weight (lbs) (C from page 7) x Actual Price per lb = Final Value of Your Steer (J)

$$\boxed{} \text{ (C)} \times \boxed{} = \boxed{} \text{ (J)}$$

Expense Record

Initial Value of Project Animal (A from page 7) + $\boxed{}$

Plus

Total Feed Cost (F from page 11) + $\boxed{}$

Plus

Total Other Costs (G from page 16) + $\boxed{}$

Plus

Total Other Project Related Costs (H from page 17) + $\boxed{}$

Plus

Total Health Care Costs (I from page 18) + $\boxed{}$

TOTAL COST OF PRODUCTION = $\boxed{}$ **(K)**

Profit or Loss Calculation

Total Income (J) – Total Cost of Production (K) = Profit or Loss

$$\boxed{} \text{ (J)} - \boxed{} \text{ (K)} = \boxed{}$$

Real Market Price

If you had sold this animal at today's market price, calculate to see if you would have made a profit or loss.

Current market price x Actual Sale Weight (C) = Real Market Value (L)

$$\boxed{} \times \boxed{} \text{ (C)} = \boxed{} \text{ (L)}$$

Real Market Value (L) – Total Cost of Production (K) = Real Life Profit or Loss

$$\boxed{} \text{ (L)} - \boxed{} \text{ (K)} = \boxed{}$$

Buyer(s) _____

Buyer's Investment in 4-H and me:

$$\boxed{} \text{ (J)} - \boxed{} \text{ (L)} = \boxed{}$$

RECORD OF MY PROJECT'S PROGRESS

Month	What did you accomplish with your project this month? (halter breaking, clipping, shows attended, etc.)
	Member:
	Leader:
	Member:
	Leader:
	Member:
	Leader:
	Member:
	Leader:
	Member:
	Leader:

RECORD OF MY PROJECT'S PROGRESS

Month	What did you accomplish with your project this month? (halter breaking, clipping, shows attended, etc.)
	Member:
	Leader:
	Member:
	Leader:
	Member:
	Leader:
	Member:
	Leader:
	Member:
	Leader:

YOUR CLIPPING PAGE

Add in your notes, pictures, and clippings here. Include information on your Achievement Day and special club events, for example: tours, shows, communication activities, provincial events, and so on. Add more pages as necessary!