

**MARKET BEEF
INSERT**

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 MY MARKET BEEF PROJECT

Name of Animal _____ Date of Birth ____ / ____ / ____

CCIA Eartag _____ 4-H Eartag # _____

Date Project Purchased or Chosen from your herd _____

Purchased from _____

Breed of Market Beef _____ PID # _____

Copy of Bill of Sale attached

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

(A) x = (B)

Weigh In Date:

Weigh In Weight(kg/lbs): (C)

Sale/ Slaughter Weigh Date:

Final Weight: (Y)

Shrink %

Sale/ Slaughter Weight: (D)

Number of Days on Feed (include weigh-in and sale weight day): (E)

Tip: Round to two decimal places. For example: use 2.96 lbs instead of 2.956 in your calculations.

Tip: Use consistent units of weight throughout your record book - either imperial or metric. You may want to discuss this with your project leader.

Conversions to use: 1 lb = 0.454 kg or 1 kg = 2.2 lbs

Examples: 600 lbs x 0.454 kg/lb = 272 kg

250 kg x 2.2 lb/kg = 550 lbs

ABOUT MY MARKET BEEF CARCASS PROJECT

(ONLY COMPLETE FOR A CARCASS PROJECT)

Name of Animal _____ Date of Birth ____ / ____ / ____

CCIA Eartag _____ 4-H Eartag # _____

Date Project Purchased or Chosen from your herd _____

Purchased from _____

Breed of Market Beef _____ PID # _____

Copy of Bill of Sale attached

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

	(A) ×		=		(B)
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Weigh In Date:

Weigh In Weight(kg/lbs): (C)

Final Live Weigh Date:

Final Live Weight: (Y)

Shrink %

Slaughter Weight (Net Weight): (D)

Slaughter Date

Rail Weight (lbs.) (F)

Average Daily Gain
(D-C/E)

Dressing %
(F/D × 100)

 (E)

Number of Days on Feed
(include weigh-in and sale day weight):

PHOTOGRAPHS

Include two photos: One taken of your market animal within 2 weeks of your club's weigh-in and the second at Achievement Day or within 2 weeks. (Label and include date)

PROJECT PLANNING

Why did you choose this project?

What skills do you want to learn or improve on?

What goals do you want to accomplish with your project?

Your project animal requires regular care and management. Explain what you regularly do for, or with, your animals on a daily, weekly, monthly and yearly basis. Be as specific as possible.

Remember to consider the following:

- Feeding and watering practices
- Bedding
- Hoof Trimming
- Vaccinations
- Clipping
- Health check
- Cleaning pens, feed and water containers
- Check and repair fence

What I will do for my project animal...

Daily	Weekly	Monthly	Yearly

BUDGET - For Senior Members Only

A budget is important for planning. Budgets can help ensure that your expenditures are not greater than your available finances, or expected income, particularly if a loan is required.

Based in previous years in the project, and/or the advice of your leaders and parents, create a budget for this year. Additionally, you may want to think about:

1. Is the value of the learning worth a loss? Will it lead to a more balanced projection in the future?
2. Is there a way to decrease expenses?
3. Is there a way to generate more income?

Budget

Projected Price (initial value) of Animal				
	+			
Projected Feed Expenses				
	+			
Projected Health Vaccination Expenses				
	+			
Projected Project Related Costs				
	=			
		Total Projected Expense		
Projected Project Income				
	+			
Projected Other Income				
	=			
		Total Projected Income		
Total Projected Income				
	-			
Total Projected Expense				
	=			
		Budgeted Profit/Loss		

RECORD OF MY MARKET BEEF'S PROGRESS

Fill out the monthly project reports only for those months when you are working on your project.

Month	Comment - How did your project do this month, questions, ideas?	
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:

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	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:
	Member:	
	Leader:	Leader Initials:

Health Record

Date	Condition Being Treated	Treatment (Medication, amount, and Route of Administration)	Withdrawal Time	Cost(s)
Nov 28	Prevent Parasites	Ivermectin at 1ml/22lbs. (Topical)	49 days	\$0.41
Total Health Care Cost (F)				\$

Administration Methods

- Oral (O)- In feed, balling gun, drenching bottle, etc.
- Topical (T)- Poured over topline
- Subcutaneous (SubQ)- Interjected beneath the skin but not into the muscle
- Intramuscular (IM)- Injected directly into muscle
- Intravenous (IV)- Injected into a vein
- Intranasal (IN)- Administrated up the animals nose

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

FEED RECORD EXPLANATION

Important Feed Terms

- Nutrients – Needed for maintenance, growth, production and reproduction. Animals require water, protein, carbohydrates (energy), vitamins, and minerals.
- Balanced Ration – A feed mixture that supplies an animal's entire daily nutritional needs.
- Roughage – High fiber feed. Example: hay, silage, straw, green feed.
- Concentrate – High energy feed. Example: barley, oats, corn.
- Supplements – A combination of nutrients added to feed to balance a ration. Examples: salt, minerals, limestone, molasses, etc.
- Feed additives – Other ingredients added to a ration to improve feed efficiency and weight gain. Example: Rumensin

Example

MONTH: May

Feed Type	Days on Feed	Weight per Day (lbs)	Monthly Weight (lbs)	Cost per lb	Cost per Month
Barley	31	10	(31 days x 10 lbs) 310	\$0.08	(310 x \$0.08) \$24.80
Hay	31	12	372	\$0.05	\$18.60
Salt	31	0.2	6.20	\$0.09	\$0.56
		Total Feed This Month	688.20	Total Cost this Month	\$43.96

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

Feed Efficiency (feed conversion ratio)

Feed efficiency is defined as a ratio of feed intake to weight gain. The smaller the ratio, the more efficient the animal.

$$\text{total feed} \div \text{total weight gain} = \text{feed conversion ratio}$$

Example: 688.2 lbs of feed \div 96 lbs of gain = 7.17

A ratio of 7.17:1 means the animal needs 7.17 lbs of feed in order to gain 1 lb

An animal that has a ratio of 6.5:1 is more efficient than one with a ratio of 7.17:1 and therefore should be more profitable.

MONTHLY FEED RECORD

Include the values of pasture, silage, hay and grain that your project animal eats. If you share feed with someone else, calculate and record only the value of the feed your own animals eat.

Monthly Record For: _____

Feed (Grains, Hay, Supplements, Pasture)	Days on Feed	Weight per Day kgs/lbs	Monthly Weight kgs/lbs	Price per Weight Unit (\$)	Monthly Feed Cost (\$)
			Total (G1)		Total (H1)

Monthly Record For: _____

Feed (Grains, Hay, Supplements, Pasture)	Days on Feed	Weight per Day kgs/lbs	Monthly Weight kgs/lbs	Price per Weight Unit (\$)	Monthly Feed Cost (\$)
			Total (G1)		Total (H1)

MONTHLY FEED RECORD CONTINUED

Monthly Record For: _____

Feed (Grains, Hay, Supplements, Pasture)	Days on Feed	Weight per Day kgs/lbs	Monthly Weight kgs/lbs	Price per Weight Unit (\$)	Monthly Feed Cost (\$)
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MONTHLY FEED RECORD CONTINUED

Monthly Record For: _____

Feed (Grains, Hay, Supplements, Pasture)	Days on Feed	Weight per Day kgs/lbs	Monthly Weight kgs/lbs	Price per Weight Unit (\$)	Monthly Feed Cost (\$)
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MONTHLY FEED RECORD CONTINUED

Monthly Record For: _____

Feed (Grains, Hay, Supplements, Pasture)	Days on Feed	Weight per Day kgs/lbs	Monthly Weight kgs/lbs	Price per Weight Unit (\$)	Monthly Feed Cost (\$)
			Total (G I)		Total (H I)

Monthly Record For: _____

Feed (Grains, Hay, Supplements, Pasture)	Days on Feed	Weight per Day kgs/lbs	Monthly Weight kgs/lbs	Price per Weight Unit (\$)	Monthly Feed Cost (\$)
			Total (G I)		Total (H I)

MONTHLY FEED RECORD CONTINUED

Total Cost of Feed* - Add the cost of each month's feed.

<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+
H1		H2		H3		H4		H5		H6	
<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>					
H7		H8		H9		Total Feed Cost (H)					

Total Amount of Feed* - Add the cost of each month's feed.

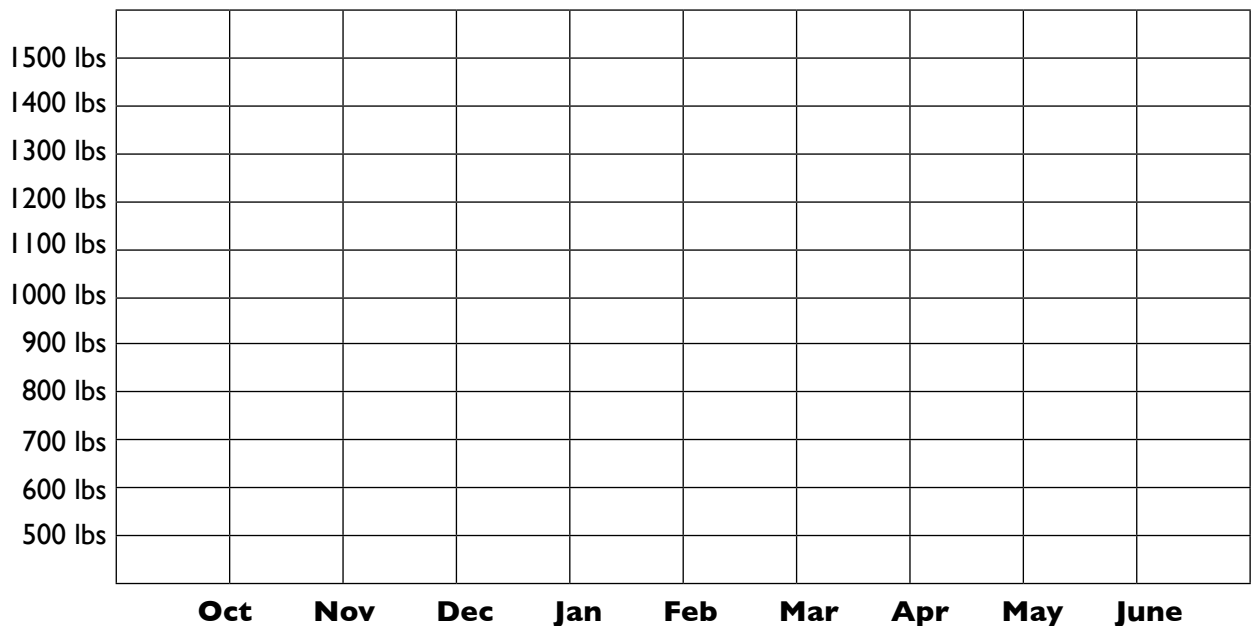
<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+
G1		G2		G3		G4		G5		G6	
<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>					
G7		G8		G9		Total Amount of Feed (G)					

GROWTH CHART AND RATE OF GAIN RECORD

Rate of Gain

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

Growth Chart (Weigh in - Achievement Day)



- Mark the **initial weight** and **estimated final weight** with red dots on the chart. Connect the two dots with a straight RED line.
- Record your animals weight every month (actual or estimated) and connect these points with a BLUE or BLACK line.

MY ANIMAL'S PERFORMANCE

Total Weight Gain

Final Weight (no shrink) - Weigh-in Weight = **Total Weight Gain**

(Y) - (C) = (J)

Average Daily Gain (ADG)

Total Weight Gain ÷ Number of Days on Feed = **ADG**

(J) ÷ (E) = (V)

Feed Cost per unit of Weight Gain

Total Feed Cost ÷ Total Weight Gain = **Feed Cost / Unit Gain**

(H) ÷ (J) =

Feed Conversion Ratio

Total Feed Amount ÷ Total Weight Gain = **Feed Conversion Ratio**

(G) ÷ (J) = :1 (W)

Total Cost per Unit of Weight Gain

(Total Expenses - Initial Value) ÷ Total Weight Gain =

((P) - (B)) ÷ (J) =

Total Cost / Unit of Weight Gain

FINANCIAL SUMMARY

Total Expenses

Initial Value of Animal

	(B)
--	------------

Health Expenses

+		(F)
---	--	------------

Feed Expenses

+		(H)
---	--	------------

Project Related Expenses

+		(L)
---	--	------------

Total Expenses

=		(P)
---	--	------------

Project Sale Income

Sale Weight (lbs)

x

Actual Price per lb

= Final value of your Steer (Q)

--

(D) x

--

=

	(Q)
--	------------

Profit or Loss Calculation

Total Income

	(Q)
--	------------

Total Expenses

-		(P)
---	--	------------

Profit or Loss

=		(U)
---	--	------------

Real Market Calculations:

Complete the calculation to determine if you would have made a profit or loss if you had sold this animal at today's market price.

Current Market Price			<input style="width: 100%;" type="text"/>
Sale Weight	x		<input style="width: 100%;" type="text"/> (D)
Real Market Value	=		<input style="width: 100%;" type="text"/> (X)
 Real Market Value			<input style="width: 100%;" type="text"/> (X)
Total Expenses	-		<input style="width: 100%;" type="text"/> (P)
Real Life Profit or Loss	=		<input style="width: 100%;" type="text"/>

Buyer(s) of my Market Beef _____

Buyer's Investment in me:

Sale Income			<input style="width: 100%;" type="text"/> (Q)
Real Market Value	-		<input style="width: 100%;" type="text"/> (X)
Buyer's Investment in me	=		<input style="width: 100%;" type="text"/>

EVALUATION OF MY MARKET BEEF PROJECT

1. What were the strengths of your Market Animal? (Conformation, growth rate, feed conversion, etc.)

2. What were the weaknesses of your Market Animal? (Conformation, growth rate, finish weight, etc.)

3. What would you do differently with your Market Animal if you were starting the year again? (Change start weight, feed, breed selection, frame size, halter breaking, etc.)

4. What was the most important thing you learned about your Market Animal?

5. What is the most important NEW thing you learned during your Market Animal project year that you can share with others? (tips from others, health and welfare, etc.)

YOUR CLIPPING PAGE: *add in your notes, pictures, and clippings here. Add MORE pages as necessary.*

RECORD BOOK - Livestock Marking Guide

This is just a guide - clubs can add, delete or change any of the book to suit the clubs' needs.

Member Name: _____ Age Group: JR/INT/SR

BASE BOOK -Completeness(Including Accuracy pages)

All pages to be filled in or N/A marked

About Me/About my Club		/8
My 4-H Year Plan		/2
Record of Club Activities		/4
Record of District, Regional & Provincial Activities		/4
Code of Conduct		/4
Financial Summary for 4-H year		/4
Story of my 4-H Year		/4
Neatness & Personality- Base Book Only		/8

INSERT - RECORD BOOK

Accuracy: All records and calculations should be complete.

	Project one	Project two	Project three
My Project /Project Planning	/5	/5	/5
Stock Keeper's Creed	/2	/2	/2
Picture - Beginning & End Project Picture	/5	/5	/5
Growth Chart/Rate of Gain	/6	/6	/6
Health Record	/4	/4	/4
Other Expenses	/4	/4	/4
Monthly records (to a maximum of 10 points)	/10	/10	/10
Project Financial Summary Records	/10	/10	/10

Neatness: Inserts

Neatness is more than penmanship. It also includes spelling, punctuation, spacing & consistency. Corrections should be minimal & neat. /8

Personality: Completed Book

4-H Communication Activity/Judges sheets		/4
4-H Handouts - Agenda, Financials, Etc.		/4
Organization & presentation of material		/4
Originality & Creativity		/4
Quality Photos & pictures - titled & dates		/6
Clipping Pages Newspaper & magazine articles		/6

Attention to Detail:

This Mark recognizes the members that have contributed extra to their record book /5

Total Points

General Comments::
