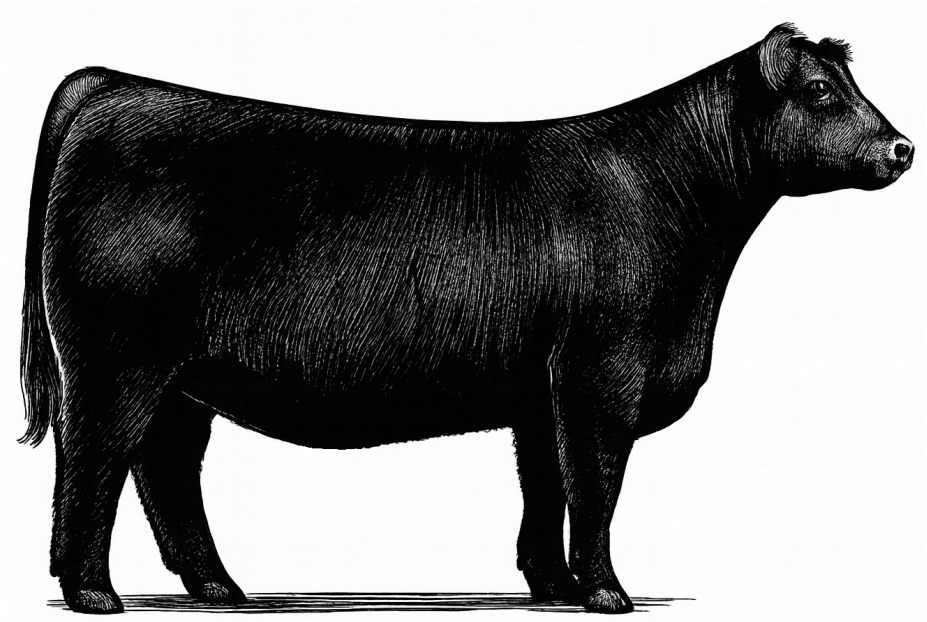
Heifer 4-H Market Record Book

For ages 12 to 19



Name: _____Age: _____

Name of 4-H Club: _____Years in 4-H: _____

4-H Leader: _____Animal's Name:_____

Years in Heifer Program: _____ Buyer's Name: _____

Record Start Date: _____ Record End Date: _____

Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, gender, gender identity, religion, age, height, weight, disability, political beliefs, sexual orientation, marital status, family status or veteran status.

✔ ***4-H Record Books with beginning and ending photos are required for all market livestock projects.***

✔ ***Record Books must be completed and turned in to the Specie Chair at the September Livestock Council Meeting.***

Why is your record book important? It…

- will aid you in learning about all aspects of raising and selling livestock.
- help you set goals for your project.
- help you plan future projects.
- show your financial decisions and outcomes.
- overall will improve your management and organizational skills.
- will be fun to look back at your book years from now… remember, this can be fun when you put all your effort into it!

Suggestions *(practices for good record keeping)*

- Consistently fill in the record book, and avoid waiting until the last minute.
- Hang a calendar or notebook near your animal's pen to write notes in to help you with your record book.
- Write neatly and clearly.
- Take pictures before, during, and after your project is done.
- Complete your Thank You to your buyer soon after the sale.
- Have FUN and work hard.

Resources to help you Learn about your Projects

- MSU Extension has materials you can check out.
- Beef Resource Handbook
- Clinics and workshops, i.e., Beef, Sheep, Swin,e held at Kettunen Center,
- Cattle judging at Exploration Days
- Beef Learning Lab Kit available from the MSU Extension Office

Pre-project Questions/Goals

1. Why did you choose to do a heifer project this year?

   _____

   _____

   _____

   _____

2. List at least two (2) goals for your heifer project this year:

   _____

   _____

   _____

   _____

3. If you have done a heifer project in the past, are you doing anything different with this year's project?

   _____

   _____

   _____

   _____

4. Describe how you prepared to bring your heifer project home when you first got it:

   _____

   _____

   _____

   _____

5. Was your heifer shown as a Jr. Beef last year? _____ yes; _____no

Project Information

Please fill in the following information about your Heifer

Ear Tag Number	Purchased Date	**Purchase Price**	Date of Birth	Breed	Sold/Kept/ Died
		$			
		$			

Weight

Date of Starting Weight	Starting Weight	Date of Finish Weight	Finished Weight	Pounds of Gain	Days on Feed	Average Daily Gain

✔ Average Daily Gain = Total lbs. of gain ÷ days on feed

Monthly Feed Record

Month:	Protein & Mineral Supplement Lbs.	Protein & Mineral Supplement Cost	Grain Lbs.	Grain Cost	Hay Bales	Hay Cost
August						
September						
October						
November						
December						
January						
February						
March						
April						
May						
June						
July						
August						
Totals:						

Total lbs. of feed for the year:_____

Total Cost of Feed for the year:_____

Expenses Other Than Feed

Month:	Vet Cost	Bedding Cost	Vaccination Cost	Tack & Show Supplies Cost	Fair Fees (Registration and Stall Fees)	*NMLC Fee (4% up to $400)	*Other Cost
August							
September							
October							
November							
December							
January							
February							
March							
April							
May							
June							
July							
August							
Totals:							

*Northwest Michigan Livestock Council (NMLC) Fee = **Income from Sale of Steer** x .04
*Other Expenses could include housing, worming, etc.

Total of expenses other than feed:_____

Income for Project

Auction Date	Weight of Heifer at Fair	Price Per Pound	**Total Income Value** (Animal's Weight x Price per pound)

Financial Summary

Purchase Price of Heifer $_____
Total of Feed Cost $_____
Other Expenses $_____

TOTAL EXPENSE **$**_____

Income from Sale of Heifer $_____
Minus (-) Total Expenses $_____

NET PROFIT OR LOSS **$**_____

Comments about the results:_____

_____

_____

_____

_____

Value of your labor: Figure out the value of the labor that you have "invested" in your heifer project…

- Consider the value of labor at $5 per hour
- You spend an average of one (1) hour per day on your project

Determine the number of days you have had your heifer and multiply that by $5 per hour.

Total cost of your time: _____

Comment on the cost of your time:_____

_____

_____

_____

_____

Project Pictures

- Pictures are a required part of this Record Book. Taking pictures of your heifer throughout the project will show you how your heifer has grown and developed.
- Remember, pictures are better when you are in the picture.
- Add more pictures on a separate piece of paper or in a folder.

Beginning Picture

Ending Picture

Project Knowledge

Answer the following:

1. What is the normal body temperature for cattle? _____
2. What is the current market price for beef cattle? List the date and source used to obtain the information.

   _____

   _____

3. What is the sale price of corn? List the date and source used to obtain the Information.

   _____

   _____

4. Name two (2) breeds of beef cattle and give a brief description of one of the breeds, and tell where it originates from. (Choose different breeds each year)

   _____

   _____

   _____

   _____

   _____

5. Identify two (2) or three (3) things you learned this year that were new to you.

   _____

   _____

   _____

   _____

   _____

6. Name the top three (3) USDA grades of beef (highest to lowest)

1)_____2) _____3) _____

7. What is an RFID tag?_____
8. What is withdrawal time? _____

   And why is that important? _____

   _____

MATCH THE FOLLOWING DEFINITIONS TO THE CORRECT ANSWER

(Read the directions carefully).

Ages 12-16 Choose 7 to answer, choose different ones each year

Ages 17-19 answer all the questions

1. Pneumonia _____
2. Ruminant _____
3. Ringworm _____
4. Rumen _____
5. Scours _____
6. Reticulum _____
7. Sire _____
8. Omasum _____
9. Steer _____
10. Abomasum _____
11. Dam _____
12. Bloat _____
13. Heifer _____
14. Trace Minerals _____
15. Gestation Period _____
16. Major Minerals _____

A) salt, calcium, phosphorus, magnesium, potassium, sulfur

B) gray, crusty scaly patches usually on the face, head, and shoulders

C) watery feces, dehydration, sunken eyes, depression, decreased feed intake, fever, cold to touch

D) any animal that has four stomach compartments

E) second, and largest compartment of a cow's stomach

F) father of a calf

G) abnormal condition in ruminants due to accumulation of gasses in the rumen

H) castrated male calf

I) time period from when a calf is conceived until the calf is born (usually 283 days)

J) mother of a calf

K) the fourth compartment of the stomach also called the true stomach

L) coughing, difficulty breathing, fever, runny eyes and nose

M) the first compartment of a Cow's Stomach also called the honeycomb

N) a young female that has not given birth

O) third compartment of a Cow's stomach that absorbs water from food

P) copper, iodine, iron, manganese, selenium, zinc, molybdenum

Post Project Questions

1. Did you meet your project goals listed in this record book?

2. What was your favorite part of your heifer project?

3. How did you finance your heifer project this year?

4. How did you feed your animal? Explain the rations fed and how you determined what diet was required.

5. Give a brief description of your heifer's housing and how you decided how much space it would require.

6. How did you train and prepare your heifer for show?

7. Did you have any management problems with your heifer project, and how did you deal with them?

8. List any benefits or things you have learned from your show ring experiences, past or present.

9. What information do your records tell you that you can use to improve future market projects?

_____

_____

_____

_____

_____

10. List any other club or school activities that you are involved in.

_____

_____

_____

_____

_____

_____

Awards

4-H Showmanship:

Number of exhibitors in class _____
Date ___/_____/_____
Placing _____

Open Showmanship:

Number of exhibitors in class _____
Date ___/_____/_____
Placing _____

4-H Market Class:

Number of heifers in class _____
Date____/_____/_____
Placing _____

Overall auction placing _____

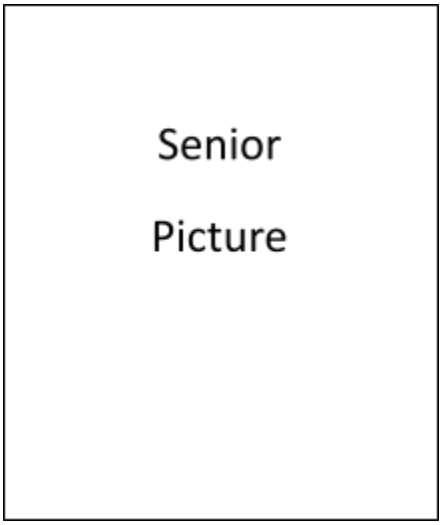
Education

1. What two educational events/classes did you attend?

2. Did you attend any other educational events, and what were they?

3. What education topics would you like to see in the future?

SENIOR PAGE



1. What are your plans in the near future?

_____

_____

_____

_____

_____

_____

2. How many years have you been in 4-H? _____
3. Do you plan to be involved in 4-H in college?_____

_____

_____

After college?_____

_____

How?_____

_____

Why?_____

_____