Ionia County
4-H Record Book
Beef
Senior (15-19)

Name: _____________________________________________________________

4-H Age (as of Jan. 1)______________

Club: ______________________________________________________________

Years in 4-H: _________________ Years in Project: _________________

Member’s Signature: ________________________________________________

Parent’s Signature: ________________________________________________

Leader’s Signature: ________________________________________________

Place Beginning Project Picture Here

Place Ending Project Picture Here
Why Keep Records?

By keeping records, you will be able to see how much progress you make this year and over the course of your 4-H career as you set goals and work to accomplish them.

Good records will:

- Help you learn about animals, their rate of growth, the feed they require, the cost of the feed they require and their habits.
- Increase understanding of your project’s financial outcome.
- Assist you in gathering information to market your animal.
- Improve your management practices.
- Keep track of your project activities and learning experiences.
- Allow you to better plan for future livestock projects.

If you have questions or need help on this record book, please contact your leader, parent/guardian, or County MSU Extension Office.

4-H Information

The 4-H Pledge

Finish the pledge.

I pledge…

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
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The 4-H Motto

What is the 4-H Motto?
“_______________________________”

What 4-H Means to Me

Describe what 4-H means to you.

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
# Meetings / Participation

Keep track of meetings/events that you have participated in. Put a check in the appropriate month.

<table>
<thead>
<tr>
<th>Description</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
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<td>Club Meetings (list)</td>
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</table>

Examples: Kettenun Center, Shows, Clinics, Workshops, etc.
My Market Animal Project

1. Name and description of animal: __________________________________________________________
   ____________________________________________________________________________________

2. Why did you select this project? _______________________________________________________
   ____________________________________________________________________________________
   ____________________________________________________________________________________

3. What breed or type of project animal did you select and why? ________________________________
   ____________________________________________________________________________________
   ____________________________________________________________________________________

4. Where did you get your project animals? Reasons for selecting that breeder, farm, or business? __________
   ____________________________________________________________________________________
   ____________________________________________________________________________________

5. What factors did you consider when selecting your project (breed, age, price, disposition)? __________
   ____________________________________________________________________________________

6. How many and what kinds of animals did you care for? (Examples: 2 crossbred hogs, 1 angus steer)
   ____________________________________________________________________________________

7. What type of housing did you provide your animals? _________________________________________
   ____________________________________________________________________________________

8. How did you provide fresh water to your animals? ____________________________________________
   ____________________________________________________________________________________

9. What do the Average Daily Gain results (page 9) tell you? _______
   ________________________________________________________________
   ____________________________________________________________________________________

10. Compare your profit/loss (page 11). What can be done to improve your profit? _________________
    ____________________________________________________________________________________

11. List five qualities of a good showperson.
    a. ________________________________________________________________________________
    b. ________________________________________________________________________________
    c. ________________________________________________________________________________
    d. ________________________________________________________________________________
    e. ________________________________________________________________________________
12. List five qualities of a poor showperson.
   a. ________________________________________________________________
   b. ________________________________________________________________
   c. ________________________________________________________________
   d. ________________________________________________________________
   e. ________________________________________________________________

13. What goals did you set for yourself and your project this year? ____________________________________
   ________________________________________________________________
   ________________________________________________________________

14. List five ways that you helped or taught others this year:
   a. ________________________________________________________________
   b. ________________________________________________________________
   c. ________________________________________________________________
   d. ________________________________________________________________
   e. ________________________________________________________________

15. List three things you have learned in your project this year.
   a. ________________________________________________________________
   b. ________________________________________________________________
   c. ________________________________________________________________

16. Who has influenced you the most this year in this project and why? ________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

17. What management strategies did you implement to improve animal health and well-being? _____________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

18. List the names of six potential buyers that you contacted about the Livestock Sale for this project:
   1. __________________________  2. __________________________  3. __________________________
   4. __________________________  5. __________________________  6. __________________________
Body Parts:
Write in the number of the body part from the table below that matches the correct part on the animal.

|----|------|----|-------|----|------|-----|------|-----|--------|-----|------|-----|--------------|

Diseases
List 5 common diseases of beef
1. __________________________
2. __________________________
3. __________________________
4. __________________________
5. __________________________

By – Products
List 5 by-products of beef
1. __________________________
2. __________________________
3. __________________________
4. __________________________
5. __________________________

Breeds
List 5 breeds of beef
1. __________________________
2. __________________________
3. __________________________
4. __________________________
5. __________________________

Retail Meat Cuts
List 5 retail meat cuts of beef
1. __________________________
2. __________________________
3. __________________________
4. __________________________
5. __________________________
Beef Facts Crossword Puzzle

Across
2. Born without horns
3. In beef, having flecks of fat interspersed in muscle
8. A wad of food burped up from the rumen to be rechewed
9. Giving an injection into a muscle
12. A rope or leather headgear used to control or lead an animal.
14. These animals are polled with a black, smooth coat. They are known for their carcass quality and milking, mothering, and reproductive abilities
16. These animals have red to dark red, spotted bodies with white to light straw faces. They are noted for their fast growth and milking abilities.
17. A cow's normal body ________ is 101.5 degrees F
18. To mature and fatten enough to butcher.
19. An animal that chews its cud and has four stomach compartments

Down
1. The first milk, high in antibodies, produced by a female mammal after it gives birth
4. Loose skin under the neck
5. Persistent diarrhea in young animals
6. A fungal infection causing scaly patches of skin.
7. Feed that is high in fiber and low in energy
8. An enclosed feeder for supplementing the ration of young animals that exclude larger animals.
10. These animals can be red, white, or roan in color. They are noted for their good disposition, mothering, and milking abilities.
11. A beef by-product
13. The permanent identification of animals produced by placing indelible ink under the skin.
15. Period of time a beef is pregnant: about 9 months

ANGUS
COLOSTRUM
CREEPFEEDEER
CUD
DEWLAP
FINISH
GESTATION
HALTER
INTRANUSCULAR
LEATHER
MARBED
POLLED
RINGWORM
ROUGHAGE
RUMINANT
SCOURS
SHORTHORN
SIMMENTAL
TATTOO
TEMPERATURE

Created with EclipseCrossword — www.eclipsecrossword.com
Knowing how much your animal is gaining each day is a critical part of raising a healthy animal. Weights can be measured by using scales, weight tapes, or estimated. Keep track of the weights in the table below and draw the results in the chart above.

<table>
<thead>
<tr>
<th>Date Weighed</th>
<th># of Days</th>
<th>Weight</th>
<th>Lbs. Gained</th>
<th>A.D.G. *</th>
</tr>
</thead>
</table>

* A.D.G. = Average Daily Gain Calculated by pounds gained divided by # of Days

For examples of how to complete this page, please contact the County 4-H Office.
**Beef Feed / Expense Record**

Write the information from the feed tag or the “recipe” mixture that you use: 
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

Did the feed or mixture change during the project? Why and how did it change? 
________________________________________________________________________________________
________________________________________________________________________________________

How did you determine how much to feed your animal? 
________________________________________________________________________________________
________________________________________________________________________________________

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<th>Pounds Fed</th>
<th>Jan</th>
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<th>Expense Items</th>
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</table>
## Project Performance Summary

\[
\begin{align*}
\text{Ending Weight} & \quad - \quad \text{Beginning Weight} = \quad \text{Ending Weight} - \text{Beginning Weight} = \quad \text{Pounds Gained} \\
\text{Days on Feed} & \quad \div \quad \text{Average Daily Gain} = \quad \frac{\text{Days on Feed}}{\text{Average Daily Gain}} = \quad \text{Total Lbs. of Gain} \\
\text{Total Feed Cost} & \quad \div \quad \text{Feed Cost per Pound of Gain} = \quad \frac{\text{Total Feed Cost}}{\text{Feed Cost per Pound of Gain}} = \quad \text{Lbs. Of Feed Fed per Lb. Of Gain} \\
\text{Total Lbs. of Feed Fed} & \quad \div \quad \text{Lbs. Of Feed Fed per Lb. Of Gain} = \quad \frac{\text{Total Lbs. of Feed Fed}}{\text{Lbs. Of Feed Fed per Lb. Of Gain}} = \quad \text{Feed Cost per Lb. Of Gain} \\
\end{align*}
\]

## Financial Summary

### INCOME

\[
\begin{align*}
\text{Ending Weight} & \quad \times \quad \text{Market Price} = \quad \text{Expected Income from Animal:} \\
\text{Other Income:} & \quad \text{(List items:)} = \\
\text{TOTAL EXPECTED INCOME} & \quad \text{=}
\end{align*}
\]

### EXPENSES

- Purchase price of animal (if homegrown = market value @ weigh in)
- Cost of Feed (page 9)
- Cost of other Expense items (page 9)

\[
\begin{align*}
\text{TOTAL EXPENSES} & \quad \text{=}
\end{align*}
\]

### PROFIT / (LOSS):

\[
\text{Income minus Expense} \quad \text{(negative number equals a loss)}
\]
Michigan 4-H Animal Beef
Project Record Book Supplement Page

Leadership and Service

Please answer the following questions according to your assigned age category:
Beginners-question 1; Intermediate-questions 1-2; Advance-questions 1-3. Additional pages may be attached as needed.

1. In your animal project, what chores are assigned for you to do?

2. Describe a time when you have helped someone else learn about animals or agriculture; this can be an individual (friend or family member) or public education such as your club offering a petting zoo at a local event.

3. What is the leadership or service purpose of animal organizations such as Michigan Sheep Breeders, American Rabbit Breeders Association, etc? What organizations represent your animal species?
## Senior Beef Record Book Score Sheet

**4-H Member:**

**4-H Club:**

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
<th>Possible Points</th>
<th>Your Points</th>
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<tbody>
<tr>
<td>1</td>
<td>COVER PAGE</td>
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<td>4-H INFORMATION</td>
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<td>3</td>
<td>MEETINGS/PARTICIPATION</td>
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<td>4-5</td>
<td>MARKET ANIMAL PROJECT QUESTIONS</td>
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<td>Each question is completely and clearly answered.</td>
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<td>6</td>
<td>PARTS OF BEEF ANIMAL</td>
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<td>CROSSWORD</td>
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<td>8</td>
<td>BEEF WEIGH CHART</td>
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<td>9</td>
<td>FEED AND EXPENSE ITEMS</td>
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<td>10</td>
<td>PROJECT PERFORMANCE SUMMARY</td>
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<td>11</td>
<td>MY PROJECT SUMMARY</td>
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<td>SUPPLEMENT PAGE</td>
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