As a member of the 4-H Market Livestock Steer Project, you are required to submit your records as part of an educational project notebook in order to sell your animal at the 4-H Market Livestock Sale. This notebook must be shown to the Oceana County 4-H Market Livestock Committee’s Weighmaster at the time of weigh-in and then entered by you in the Educational Notebook Division of the Oceana County Fair on Entry day.

AGE: _____

The age you enter depends on how old you are or will be on January 1, 2018

Number of years in project: _____

Use this sheet as the first page of your project record book. Fill it out completely. Please print neatly.

NAME______________________________________________________________

4-H CLUB____________________________________________________________

BREED___________________________STEER’S NAME_____________________

LOCATION OF WHERE ANIMAL IS RAISED ______________________________

pee H H
JUDGE’S SCORE/COMMENT SHEET

(PLEASE DO NOT REMOVE, PLACE THIS SHEET IN SHEET PROTECTOR OR GLUE TO COVER). This sheet must be kept free for the judge to write their comments.

This sheet should help each 4-H’er understand their ribbon placing.

A. **Specific educational value or worth**
   ___ All questions were answered completely
   ___ All calculations were correct
   ___ Calculations were incorrect
   ___ Questions were not completely answered
   ___ Questions were not answered (missed questions)

B. **Notebook contains all project records**
   ___ Notebook contained all project records and were fully completed
   ___ Notebook contained additional project related information (research materials etc.)
   ___ Project records were incomplete
   ___ There was no additional project related information

C. **Accuracy, neatness and general appearance**
   ___ Notebook was neat in appearance (typed/hand printed)
   ___ Notebook pages were clean and stain free
   ___ Notebook pages were in order and complete
   ___ Notebook pages were out of order and missing pages
   ___ Notebook was difficult to read and messy
   ___ Notebook had wrinkled and stained pages

Other Comments: __________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
1) GENERAL GUIDELINE INFORMATION

2) JOURNAL OF CARE

3) PROJECT INFORMATION
   a) Information & Feed Records
   b) Other Project Expenses
   c) Project Efficiency Information
   d) Marketing

4) SPECIFIC PROJECT KNOWLEDGE
   a) Steer Diseases & Symptoms
   b) Steer Parts
   c) Steer Retail & Wholesale Cuts Identification
   d) Steer Breeds
   e) Miscellaneous Project Knowledge

5) YOUR PROJECT INFORMATION
   a) Project Progress & Management Records
   b) 4-H Knowledge & Activities

6) BUYERS NAMES

7) NON-CLUB/CLUB POINTS SHEETS

8) PICTURES OF YOUR PROJECT (1 page)

APPENDIXES (OPTIONAL):

A. PICTURES OF YOUR PROJECT (additional pictures)

B. FEED INFORMATION (example: feed labels etc.)

C. ADDITIONAL INFORMATION ABOUT YOUR PROJECT
   a. Information you found in reference materials
   b. Information located off the internet
   c. Information gathered from your feed representative
   d. Any other information
This record book is part of your 4-H Market Steer Project. By keeping records up-to-date you will be able to see how much progress you make as you set goals and work to accomplish them. Write neatly and clearly. Feel free to add extra pages.

**PROJECT PICTURES**

Pictures are a required part of this notebook. Taking pictures of your project animal throughout the project will indicate how your animal has grown and developed. Add pictures to your notebook on a separate piece of paper.

**SCORING CRITERIA**

The following breakdown will be used during the judging process of all market livestock notebooks.

A. Specific educational value or worth 30%
B. Creative way of showing what has been learned 10%
C. Notebook contains all project records 50%
D. Accuracy, neatness and general appearance 10%

Note: Reference materials used for the specific project knowledge include:

a. Extension publication 4-H 1188 – Your 4-H Market Steer Project
b. State 4-H Market Project Notebook
c. 4-H Skills for Life Animal Series – Beef 1, 2 & 3
   (All beef leaders have a set of these resources and they are available on a check-out system at the MSU Extension)
d. Other MSU Extension Office notebooks & websites
JOURNAL OF ANIMAL CARE

The 4-H Market Livestock Committee is requiring all 4-H Market Livestock members to complete the “Journal of Care”, so the judge may see the time, effort and care you have put into learning about your animal.

** It will be assumed that you walked & fed your animal, but what additional things have you done such as; washed, clipped, trimmed, foot care, health practices, medicines, general maintenance (cleaning living area & feed pans) halter breaking, training, had vaccinated, etc. **

SEPTEMBER:

OCTOBER:

NOVEMBER:

DECEMBER:

JANUARY:

FEBRUARY:
I, ____________________________, do attest and certify that this 4-H’er has cared for this animal in a responsible manner while housed on my property. I also understand that integrity and responsibility are important to this 4-H experience.

_____________________________  ______________________
Signature of Property Owner - (if housed at home have parent sign)  Date
**PROJECT INFORMATION**

The start of the project will be the date the exhibitor placed the animal on feed. The end of the project will be weigh-in at fair.

Project Start Date _______________  Project End Date _______________

What month was your steer born? _______________

Please fill in the following information about your steer.

<table>
<thead>
<tr>
<th>Steer’s RFID Number</th>
<th>Breed</th>
<th>Date of Purchase</th>
<th>Price or Value</th>
<th>Starting Weight</th>
<th>Ending Weight</th>
<th>Total Pounds Gained</th>
</tr>
</thead>
</table>

Note: Ending Weight - Starting Weight = Total Pounds Gained

**MONTHLY FEED RECORD & EXPENSES**

<table>
<thead>
<tr>
<th>Month</th>
<th>Type of feed used- (grain, silage, hay, pasture, etc.)</th>
<th>Supplements (if any used)</th>
<th>Amount (indicate lbs, bales, etc.)</th>
<th>Cost or Value of feed used for the month</th>
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### MONTHLY FEED RECORD & EXPENSES (cont.)

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<th>Supplements (if any used)</th>
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<th>Cost or Value of feed used for the month</th>
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Total Feed Costs for Project $ ____________
EXPENSES OTHER THAN FEED

The 4-H Market Livestock Committee would like you to keep a running list of all of your expenses -- veterinary charges, bedding, insecticides, trucking, insurance, interest paid on money borrowed, housing etc.

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<thead>
<tr>
<th></th>
<th>Vet Charges</th>
<th>Bedding</th>
<th>Insecticides</th>
<th>Equipment/Fitting &amp; Showing Supplies</th>
<th>Trucking</th>
<th>Shearing or Clipping</th>
<th>Advertising/Marketing</th>
<th>Miscellaneous (specify) Yardage would be included here</th>
<th>MONTHLY TOTAL</th>
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PROJECT EFFICIENCY INFORMATION

Value of Animal at Time of Purchase  = __________

\[
\frac{\text{Total lbs. of Gain}}{\text{Days on Feed}} = \text{Average Daily Rate of Gain}
\]

\[
\frac{\text{Total Feed Cost}}{\text{Total lbs. of Gain}} = \text{Feed Cost per Lbs. of Gain}
\]

\[
\frac{\text{Total lbs. of feed fed}}{\text{Total lbs. of gain}} = \text{Lbs. of Feed fed per lb. of Gain}
\]

\[
\text{Total Feed Expense} + \text{Cost of Animal} + \text{Other Expenses} = \text{Total Project Expense (TE)}
\]

Beef animals are sold by the pound at a Large Animal Sale Auction. Find out what bid price (per lb) you need to get at the Large Market Auction to break even on your market Beef Project.

\[
\frac{\text{Total Expenses (TE)}}{\text{Final Weight (FW)}} = \text{Break Even Price (BE)}
\]

(or total cost per pound to raise your animal)

What is the current selling price of beef (per lb.)? ______________

Where did you find the current selling price? ____________________________

(if your source was a person, ask them where they got this information)

Would you have been able to make a profit selling on the open market? ____________

Why or why not? _______________________________________________________

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MARKETING

One of the most important parts of any market animal project is marketing. This may include writing letters, talking to buyers and making sure that you thank previous buyers in a timely fashion.

- What did you do to market your animal this year?
- If you have participated in the market livestock before what did you do differently in marketing your animal this year?

PROJECT KNOWLEDGE

COMMON DISEASES OF BEEF ANIMALS

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<tbody>
<tr>
<td>1. A contagious skin disease of cattle that are 1-2 inches in diameter where hair is lost and a slightly raised crustiness appears.</td>
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<tr>
<td>3. Caused by a bacteria this disease normally occurs when cattle have access to stagnant water holes. Affects the hooves/foot.</td>
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<td>4. A swelling on the left side of the animal will occur. The excess gas is built up in the rumen.</td>
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<td>5. This is a lameness in cattle where the lamina hoof wall &amp; sole become very sore.</td>
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</table>
Write the number next to the correct part listed below

____  Back or Top
____  Brisket
____  Hock
____  Hoof
____  Cannon
____  Hook or Hip
____  Rear Flank
____  Cod (steer)
      Scrotum (bull)
____  Dew claw
____  Dewlap
____  Lower forerib, fore flank
____  Forearm
____  Forerib
____  Point of Shoulder
____  Forerib
____  Point of Shoulder
____  Face
____  Neck
____  Elbow
____  Muzzle
____  Switch
____  Forehead
____  Pin Bone
____  Stifle
____  Tailhead
____  Forearm
____  Pastern
____  Top of Shoulder
____  Elbow
____  Muzzle
____  Switch
____  Forerib
____  Forerib
____  Point of Shoulder
WHOLESALE CUTS OF BEEF

Fill in the name of number that coincides with the correct part.

- Shank
- Round
- Ribs
- Plate
- Loin
- Flank
- Chuck
- Brisket

RETAIL CUTS—write the correct cut on the line it matches below:

A. ___________________________
B. ___________________________
C. ___________________________
D. ___________________________
E. ___________________________
F. ___________________________

G. ___________________________
H. ___________________________
I. ___________________________
J. ___________________________
K. ___________________________

WORD BANK
BRISKET
RIB STEAK
SHORT RIBS
CHUCK ROAST
ROUND STEAK
STEW BEEF
FLANK STEAK
RUMP ROAST
T-BONE STEAK
GROUND BEEF
SIRLOIN STEAK
BREEDS:

(fill in the blank with the letter to the correct breed)

1. ___ Developed as a pure meat animal to produce the largest possible cuts of meat.

2. ___ Solid black, polled breed that originated in Scotland. They are the most numerous cattle in the US.

3. ___ Developed as a draft animal, the most important traits are extreme size & strength, they’re the largest cattle in the world.

4. ___ Large framed, red and white in color, from France.

5. ___ White faced, red cattle have horned blood lines and polled bloodlines. They are known for their mothering and foraging abilities.

6. ___ Large muscled, red & gold breed from the French regions of Limosin and Marche.

7. ___ Large framed, solid white breed from France that are known for their fast growth rates.

8. ___ Developed in a hot environment this breed’s important traits are disease resistance, heat tolerance & hardiness.

9. ___ White faced, red or yellow breed from the Simme Valley in Switzerland. Noted for good milk production. American versions are black or red with a blazed face.

10. ___ Originally called Durhams, this British breed can be red, white or roan in color. They were used for milk production.

11. ___ Originated in Germany. Selected for meat, milk and work.

12. ___ Developed in a cold, rocky, harsh environment this breed’s most important traits are small frame size, calving ease and cold weather tolerance.

| A. ANGUS   | E. PIEDMONTESI  | I. BRAHMAN |
| B. SHORTHORNS | F. LIMOUSIN | J. HEREFORD |
| C. SOUTH HIGHLAND | G. CHIANINA | K. GELBEVEIH |
| D. SIMMENTAL | H. CHAROLAIS | L. MAINE-ANJOU |
PROJECT KNOWLEDGE

1. What are 3 signs of a sick steer?

_________________________,     _________________________,     _________________________

2. What is a name of a contagious skin disease of cattle? ____________________________

3. What are 4 pieces of equipment used to fit a steer? ____________________________,

_________________________,     _________________________,     _________________________.

3. Name the 5 nutrient groups: _________________________,     _________________________

_________________________,     _________________________,     _________________________

4. Which nutrient group is most important? ____________________________

5. Name the 3 basic components of meat cuts:

_________________________,     _________________________,     _________________________

6. Name 3 Animal Agricultural Careers:

_________________________,     _________________________,     _________________________

7. Why is it important that your animal have a permanent ID tag?

___________________________________________________________________________________

___________________________________________________________________________________

___________________________________________________________________________________
PROJECT PROGRESS AND MANAGEMENT RECORD

1. When you selected your market steer what factors did you consider?

_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________

2. What was the best feature of your market steer this year?

_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________

3. What feature of your market steer could use improvement?

_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________

4. Tell how you trained and prepared your animal(s) for show.

_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________

5. What were your 4-H and project goals for the year?

_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
4-H ACTIVITIES

Number of club meetings held: _______  Number you attended: _______

List any club activities in which you have:
- participated in
- responsibilities which you have assumed

(for example: Community service events, workshops, judging contest, clinics, and offices held)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Location</th>
<th>Placing, Position or Comments</th>
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1. What does 4-H mean to you?
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________

2. List at least 2 ways that you helped or taught others in your club, or another club, this year:
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
_________________________________________________________________________________________________________
MY 4-H STORY

(Interesting things that happened to me and my animal this year, challenges, highlights of my year or anything else I would like to share about my overall 4-H experience)

POTENTIAL BUYER’S NAMES

As part of your 4-H Market Livestock Project, you must personally contact at least five potential buyers before the Oceana County Fair. You are encouraged to seek two new buyers that have not been asked or submitted before. **You also must have at least three different buyers than those of your siblings in the market livestock project.** Please confirm with your buyers their accurate mailing address (example: post office box vs. a street address). The information on page 16 must be completed and taken to the Oceana County MSU Extension Office on or before the due date where it will be copied and used to send out letters to your potential buyers. This page will remain in your notebooks. This is a Market Livestock Committee rule. Failure to comply will result in not being able to sell your animal in the 4-H Market Livestock Sale.
4-H MARKET LIVESTOCK POTENTIAL BUYER’S LIST
STEER PROJECT (AGES 12-14)

Name ____________________________ Club ____________________________

Please print business names and complete addresses clearly.

1. Contact Name _____________________________________________
   Business Name _____________________________________________
   **Mailing** Address ___________________________________________
   Phone ______________________________________________________
   **Signature** ________________________________________________

2. Contact Name _____________________________________________
   Business Name _____________________________________________
   **Mailing** Address ___________________________________________
   Phone ______________________________________________________
   **Signature** ________________________________________________

3. Contact Name _____________________________________________
   Business Name _____________________________________________
   **Mailing** Address ___________________________________________
   Phone ______________________________________________________
   **Signature** ________________________________________________

4. Contact Name _____________________________________________
   Business Name _____________________________________________
   **Mailing** Address ___________________________________________
   Phone ______________________________________________________
   **Signature** ________________________________________________

5. Contact Name _____________________________________________
   Business Name _____________________________________________
   **Mailing** Address ___________________________________________
   Phone ______________________________________________________
   **Signature** ________________________________________________

(Must be stamped by the MSU Extension Office)
YOUR PROJECT PICTURES

Please use this page for your project pictures. If you have more than 1 page of pictures please use the appendix section to include those pictures. The judges appreciate captions so they know what the pictures are portraying.