

OCEANA COUNTY 4-H MARKET LIVESTOCK
EDUCATIONAL NOTEBOOK/RECORD

STEER PROJECT - 2020

AGES 15-19



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, 2020

Number of years in project: _____

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

Please print neatly.

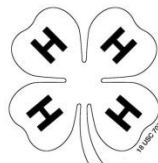
NAME _____

DATE OF BIRTH _____ GRADE _____
Month Day Year

4-H CLUB _____

BREED _____ STEER'S NAME _____

LOCATION OF WHERE ANIMAL IS RAISED _____



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: _____

4-H MARKET LIVESTOCK STEER NOTEBOOK
AGES 15-19

TABLE OF CONTENTS

Please keep your notebook in Table of Contents order.

- 1) GENERAL GUIDELINE INFORMATION
- 2) JOURNAL OF CARE
- 3) PROJECT INFORMATION
- 4) SPECIFIC PROJECT KNOWLEDGE
 - a) Marketing
 - b) Diseases - Matching
 - c) Steer Parts Identification
 - d) Beef Terminology- Crossword
 - e) Beef Facts- True or False
 - f) Beef Identification
 - g) Feed & Nutrition- Matching
- 5) YOUR PROJECT INFORMATION
 - a) Project Progress & Management Report
 - b) 4-H Knowledge
 - c) My 4-H Story
- 6) BUYERS NAMES
- 7) PICTURES OF YOUR PROJECT (1 page)
- 8) CLUB/NON CLUB POINT SHEET

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 you located off the internet
 - c. Information gathered from your feed representative
 - d. Any other information

** Include notes as to why you researched this information and found it valuable, link it to your project if possible.*

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

- a. Extension publication 4-H 1188 – Your 4-H Market Beef Project
- b. 4-H Market Livestock Beef Project Rules
- c. Kansas State 4-H Online
- d. The Ohio State University Learning Lab Online Site
- e. Beef Resource Handbook 4-H (Ohio State University)
- f. Skills for Life Series (copies in the office and with leaders)

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%

The Oceana County 4-H Market Livestock Committee encourages 4-H Leader and parent assistance with your project and project notebook. If you should have any questions, please contact the MSU Extension Office.

JOURNAL OF 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 & feed area), halter broke, training, had vaccinated, etc.* **

DECEMBER:

JANUARY:

FEBRUARY:

MARCH:

APRIL

JOURNAL OF CARE (continued)

MAY:

JUNE:

JULY:

AUGUST:

I, _____, do attest and certify that this 4-Her has cared for
(property owner name-please print-if parent put parent's name)

animal in a responsible manner while housed on my property. I also understand that integrity & responsibility are important to this 4-H experience.

Signature of Property Owner or Parent
If housed on own property.

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.

Steer's Name	Steer's RFID Number	Breed	Date of Purchase	Price or Value	Starting Weight	Ending/Final Weight (FW)	Total Pounds Gained

Note: Ending Weight-Starting Weight= Total Pounds Gained

MONTHLY FEED RECORD & EXPENSES

Month	Type of feed used- (<i>grain, silage, hay, pasture, etc.</i>)	Supplements (<i>if any used</i>)	Amount (<i>indicate lbs., bales, etc.</i>)	Cost or Value of feed used for the month
December				
January				
February				

MONTHLY FEED RECORD & EXPENSES (cont.)

Month	Type of feed used- (<i>grain, silage, hay, pasture, etc.</i>)	Supplements (<i>if any used</i>)	Amount (<i>indicate lbs., bales, etc.</i>)	Cost or Value of feed used for the month
March				
April				
May				
June				
July				
August				

Total Feed Costs for Project \$ _____

PROJECT EFFICIENCY INFORMATION

Value of Animal at Time of Purchase = _____

$$\frac{\text{Total lbs. of Gain (from page 4)}}{\text{Days on Feed}} = \text{Average Daily Rate of Gain}$$

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

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

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

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 (BE)** 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? _____

MARKETING

One of the most important parts of any market animal project is marketing. This includes writing letter, 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 a market livestock project in the past, what did you do differently this year?

MATCH THE BEEF DISEASES/AILMENTS TO THEIR SYMPTOMS

_____ This disease is common to calves and usually occurs shortly after shipment. It is a respiratory disease caused by a virus. Symptoms are fever, depression., going off feed, light cough and nasal discharge.

_____ Caused by bacteria that may be contracted through contaminated feed & water. It affects the respiratory system. Symptoms are depression fever, excessive salivation & nasal discharge.

_____ Caused by an organism that produces a strong toxin. This disease progresses so slowly that no symptoms are noticed before the animal is found dead. Symptoms are depression, weakness, loss of appetite, diarrhea & rapid weight loss.

_____ A viral infection of the skin the causes growths that looks like cauliflower.

_____ This common disease involves the hoof and surrounding areas. The soft tissue will become tender. An open wound develops and infection develops in the foot & surrounding joints. Lameness will develop.

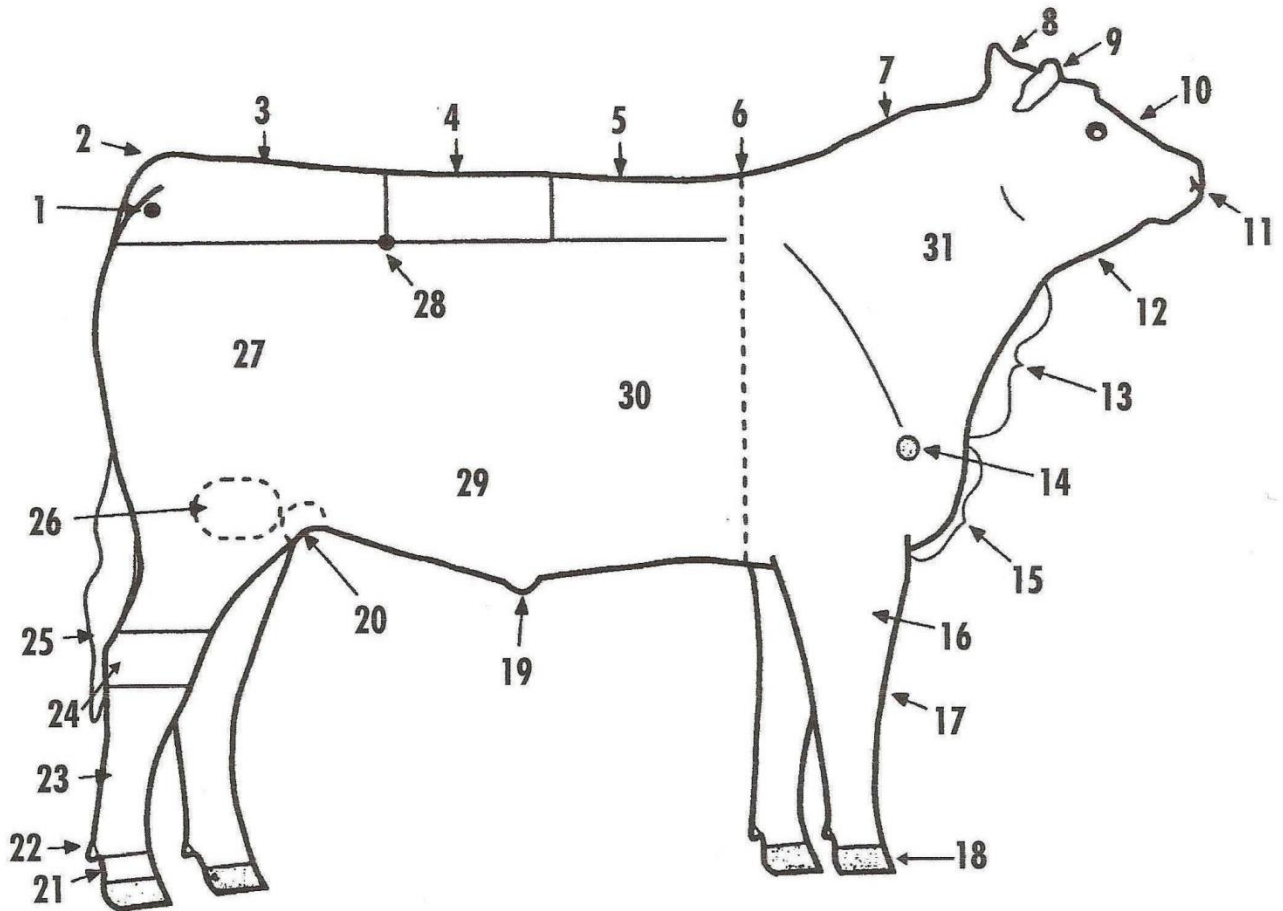
WORD BANK

Enterotoxemia
Parainfluenza
Foot Rot

Warts
Pneumonia

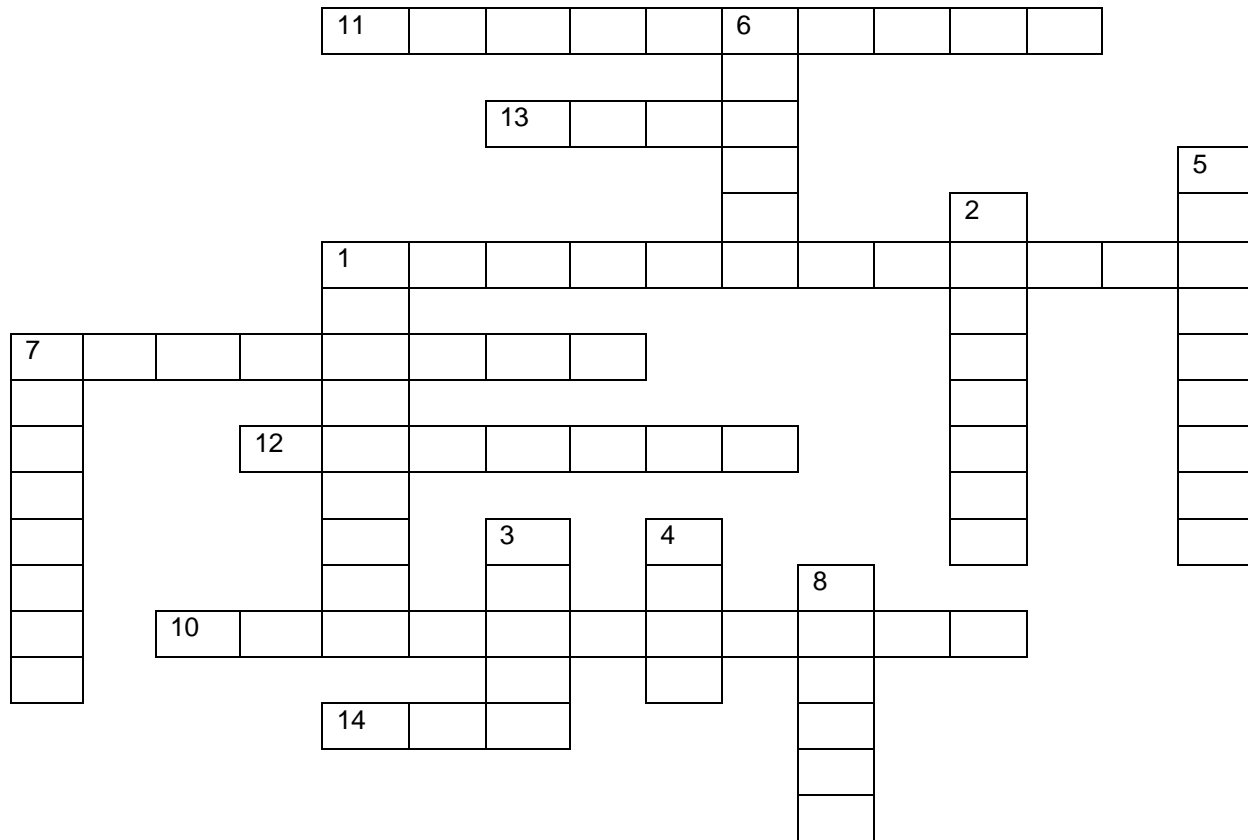
BEEF PARTS

WRITE the numbers that corresponds to the correct part of the animal on the lines below



- | | | | |
|-------------------------|---------------|--------------------|--------------------|
| _____ throat | _____ crest | _____ knee | _____ cannon |
| _____ neck | _____ face | _____ rib | _____ stifle joint |
| _____ point of shoulder | _____ pin | _____ sheath/navel | _____ forearm |
| _____ loin | _____ muzzle | _____ rear flank | _____ switch |
| _____ hoof | _____ dewlap | _____ ear | _____ tail head |
| _____ heart girth | _____ rump | _____ hook | _____ hindquarter |
| _____ pastern | _____ brisket | _____ dewclaw | _____ belly |
| _____ poll | _____ back | _____ hock | |

BEEF TERMINOLOGY CROSSWORD PUZZLE



ACROSS

1. Any feed high in energy (usually grain)
7. An animal that has 4 stomach compartments
10. The temperament of your steer
11. An animal that needs further feeding before marketing as a finished animal.
12. Where your animal will be sold during the Fair.
13. Nutritionally Balanced mixture of feed ingredients.
14. Calves sired by the same bull

DOWN

1. People who buy & use a product
2. The small flecks of fat within a muscle
3. Disorder characterized by gas distention in the rumen, seen on the animal's left side.
4. Required electronic tag in your Steer's ear
5. Total length of a normal pregnancy
6. The amount of feed consumed by a calf in one day
7. A contagious fungus that causes hair loss
8. An animal conditioned, trained & groomed for show or sale

BEEF FACTS- TRUE OR FALSE

(circle T for True or F for False)

- T F 1. Water is an important part of your calf's diet.
- T F 2. Cattle that are young, lightweight and of either sex are market steer.
- T F 3. Enterotoxemia can be helped by not overfeeding your calf on grains and other feeds it isn't use to.
- T F 4. Carbohydrates are foods including starch, sugar and cellulose.
- T F 5. Pinkeye is a disease caused by a virus.
- T F 6. Bloat is an abnormal condition in ruminants due to accumulation of gasses; usually seen on the upper left side.
- T F 7. Shipping fever is a respiratory disease of cattle.
- T F 8. Withdrawal time is the length of time that medications must be removed from cattle before slaughter.
- T F 9. Water belly is another name for urinary calculi.
- T F 10. Quality grade is an estimation of the eating quantity of livestock feeds.
- T F 11. Coccidiosis is an external parasite.
- T F 12. Brisket is both a wholesale and retail cut of beef.
- T F 13. The retail cut stew meat is cut from the wholesale chuck cut.
- T F 14. The rib fat depth measurement is measured at the 11th rib on the steer's topline.
- T F 15. A calf should receive a daily minimum of a half-pound of hay or 1.5 pounds of silage for each 100 pounds of body weight.
- T F 16. There is more danger of a calf going off feed if the grain, supplement and silage are completely mixed.
- T F 17. Conformation is the muscular development of your calf.
- T F 18. Feed efficient value measures the amount of feed a calf requires to gain 1 pound.

BREED IDENTIFICATION

(write the name of the breed described on the line)

This breed was developed in Italy. Developed as a draft animal, the most important traits are extreme size and strength. They are the largest cattle in the world. These animals are white with black skin pigmentation. They are noted for their working, mothers & beef producing abilities.

Large framed, red and white in color from is the largest French breed of cattle. They evolved as a dual purpose breed, with the cows used for milk & production and the bull calves fed for market.

Solid black polled breed. They are the most numerous cattle in the US and are noted for high quality carcasses, milking, mothers and reproductive abilities.

Red bodies with a white faced, known for their mothering & foraging ability plus their docile disposition. They are the 2nd most numerous breed in the US.

White, or straw colored faces with red or dark red spotted bodies. They are noted for good milk production. American versions are black or red with a blazed face.

Large frame, solid white breed from France. They are noted for their fast growth rates and lean meat

FEED & NUTRIENTS

_____ Water

_____ Minerals

_____ Protein

_____ Magnesium

_____ Amino Acids

_____ Carbohydrates

_____ Iron

_____ Calcium

_____ Roughage

_____ Vitamins

_____ Feed Concentrate

_____ Forages

- A. Small compounds that are the building blocks of proteins.
- B. Elements required by the cattle to build bones and teeth and to support other life processes.
- C. A macromineral required by cattle to build bones and teeth and to support other life processes. Its function is proper skeletal structure and muscle contraction.
- D. The most important part of your steer's diet as it is found in every cell the body.
- E. Food including starch, sugar and cellulose
- F. Grain mixtures such as corn, oats, and soybean meal fed in ration.
- G. Coarse or bulky feeds that are high in fiber. Examples are corn silage, pasture & hay. This is needed in the diet of beef to keep the rumen working properly.
- H. A dietary nutrient that supplies amino acids to the calf. This is used to build muscles, hair, hooves & tissues inside their bodies.
- I. Dietary nutrients needed in very small amounts for the health of eyes, nasal passages, & lungs; for strong bones; for blood clotting; and for other body functions. Examples might be A, D & E.
- J. This mineral may be deficient in feed. The result of such a deficiency is called grass tetany.
- K. Needed for hemoglobin development and for enzyme systems. A sign of lack of this would be anemia.
- L. Plants used as feed for livestock.

YOUR PROJECT

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

Are you happy with the breed you chose? _____

2. What is the best feature(s) of your market steer? _____

3. What feature(s) of your market steer could use improvement? _____

4. Will you participate in a market steer project again? _____

Why or why not? _____



The 4-H Pledge

(fill in the blanks)

I pledge...

My _____,

My _____,

My _____,

and My _____,

For my _____, my _____,

my _____, and my _____.

WHAT 4-H MEANS TO ME:

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, offices held, parades representing 4-H, etc. If none, write none.)

Activity	Date	Location	Placing, Position or Comments

MY 4-H STORY

(interesting things that happened to me and my animal this year, including challenges, highlights of the 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 17 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 15-19)

Name _____ Club _____

Please print business names and complete addresses clearly.

1. Contact Name _____

Business Name _____

Mailing Address _____ City _____ Zip _____

Phone _____

Signature _____

2. Contact Name _____

Business Name _____

Mailing Address _____ City _____ Zip _____

Phone _____

Signature _____

3. Contact Name _____

Business Name _____

Mailing Address _____ City _____ Zip _____

Phone _____

Signature _____

4. Contact Name _____

Business Name _____

Mailing Address _____ City _____ Zip _____

Phone _____

Signature _____

5. Contact Name _____

Business Name _____

Mailing Address _____ City _____ Zip _____

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.