As a member of the 4-H Market Livestock Lamb project you are required to submit your records as part of an educational notebook project 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 Jan. 1, 2018)

Number of years in project: _____

If you are a little buddy who is your big buddy: ____________________________

NAME______________________________________________________________

4-H CLUB____________________________________________________________

BREED_________________________ LAMB’S NAME_________________________

LAMB’S DATE OF BIRTH_____________ DATE RECORD STARTED_____________

LOCATION 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 to 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: _________________________________________________________
_______________________________________________________________________
_______________________________________________________________________
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) Lamb Part Identification
   b) Wholesale Cuts
   c) Lamb Digestive System Diagram
   d) Lamb Breed Identification
   e) Lamb Diseases
   f) Miscellaneous Project Knowledge

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

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 you 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 Lamb 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.

Notebook Resources:

  Your Sheep – A Kid’s Guide to Raising & Showing
  National 4-H Supply (copy is available for review at MSU Extension)
  Animal Science Series – Sheep Series (can be reviewed at MSU Extension)
  Sheep Resource Handbook for Market & Breeding Projects book from The OSU Extension (copy available for review at MSU Extension)
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 area & feed pans) halter breaking, training, had vaccinated, etc. **

APRIL:

MAY:

JUNE:
JOURNAL OF ANIMAL CARE  
(cont.)

JULY:

AUGUST:

I,___________________________, do attest and certify that this 4-Her 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 lamb born? ______________________________________

Please fill in the following information about your lamb.

<table>
<thead>
<tr>
<th>4-H Ear Tag Number</th>
<th>Breed</th>
<th>Gender</th>
<th>Date of Purchase</th>
<th>Price or Value</th>
<th>Estimated Starting Weight</th>
<th>Ending Weight</th>
<th>Total Pounds Gained</th>
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Note: Total pounds gained = ending weight – starting weight

**MONTHLY FEED RECORD & EXPENSES**

<table>
<thead>
<tr>
<th>Month</th>
<th>Type of feed used- (grain, roughage, 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>Month</th>
<th>Type of feed used- (grain, roughage, 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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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.

<table>
<thead>
<tr>
<th></th>
<th>Vet Charges</th>
<th>Bedding</th>
<th>Insecticides</th>
<th>Equipment</th>
<th>Trucking</th>
<th>Housing rent</th>
<th>Shearing or Clipping</th>
<th>Advertising/Marketing</th>
<th>Miscellaneous (specify)</th>
<th>Buyer Recognition</th>
<th>MONTHLY TOTAL</th>
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PROJECT EFFICIENCY INFORMATION

Value of Animal at Time of Purchase = __________

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

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

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

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

Lambs 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 Lamb 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 lamb (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? ___________________________

_____________________________________________________________________________

_____________________________________________________________________________

_____________________________________________________________________________
PROJECT KNOWLEDGE

Lamb Parts Identification

Identify the parts and list them below with their correct description.

_____ Back of Rack
_____ Forearm
_____ Leg
_____ Poll
_____ Belly
_____ Forehead
_____ Loin
_____ Rear Flank
_____ Breast or Brisket
_____ Fore Flank
_____ Middle
_____ Rump
_____ Cannon
_____ Hips
_____ Muzzle
_____ Shoulder
_____ Dock
_____ Hock
_____ Neck
_____ Top of Shoulder
_____ Face
_____ Hoof
_____ Pastern
_____ Twist
_____ Knee
WHOLESALE CUTS

Write the letter that corresponds to the correct WHOLESALE cut:

____ BREAST
____ FORESHANK
____ LEG
____ LOIN
____ RACK
____ SHOULDER

SHEEP’S DIGESTIVE SYSTEM - Identify the sheep’s digestive system by putting the letter of the part listed on the correct line in the diagram.

Write the correct letter on the line that shows its digestive part

A. ABOMASUM
B. CECUM
C. ESPOHAGUS
D. LARGE INTESTINE
E. MOUTH
F. OMASUM
G. RECTUM
H. RETICULUM
I. RUMEN
J. SALIVARY GLANDS
K. SMALL INTESTINE
**BREEDS** - fill in the correct breed
(may be found in the OSU 4-H Sheep Resource Handbook - available in the office if you need to come in and reference)

1. _____________________________ This polled breed with black head, ears and legs has the most number of purebred registrations in the United States. It is known for its meatiness & high carcass quality. They are also known for their excellent growth rate and high cutability carcasses.

2. _____________________________ Originating in Southern England, these sheep can be polled, scurred or horned and are known for breeding out of season, being heavy milkers and producing more than one lamb crop per year. Hardy lambs yield heavy muscled carcasses.

3. ____________________________ This breed was developed in the US from a Lincoln ram and Rambouillet ewe cross and is known for its size, wool-producing ability, and productivity under range conditions. This breed is large, white-faced, polled and has wool on the legs.

4. _____________________________ This breed was developed in Southern England, these sheep are a large, moderately prolific breed with wool caps, black or deep brown faces, ears and legs and medium-wool fleeces. They also have very good milking ability, growth and carcass cutability.

5. ____________________________ This breed, highly adaptable to a variety of climates, was developed in Scotland. These small-sized, white-faced sheep with bare heads and legs are moderately prolific, easy lambers, good milkers, and possess excellent lamb vigor.

6. _____________________________ An English breed resulting from a Hampshire and Cotswold cross this breed is medium to large in size, has a dark brown to grey face and is polled. They have a wool cap, and wool on the ears and legs. They are good milkers, prolific, and have a fast growth rate.

7. ____________________________ An English breed that is small to medium in size, this breed has a white face and legs. They are polled and have long wool.

8. _____________________________ Developed in France, this long-lived, rugged breed will breed out of season and has wool that is fine in fiber diameter. These sheep are large, white-faced, with wool on the head and legs, and can be polled or horned.

9. ____________________________ The oldest breed from England, this sheep is small medium and known for producing meaty carcasses. It is polled, with a grey to mouse-brown face and wool on its legs. Fleece from this breed are of medium-wool.
DISEASES

(fill in the crossword puzzle with the disease by using the definitions)

ACROSS
1. Bacterial infection of the navel cord stump. May be swollen and develop an abscess next to the belly. Infection may travel up the stump and result in infection in the lamb’s joints.

2. Bacteria or virus where the lining of the intestines becomes irritated & fluid is lost in the feces instead of being absorbed from the intestines into the body.

3. Highly infectious disease caused by 2 different bacteria that infect the foot. Usually starts between the toes of the foot with swelling & moistness of the skin.

4. Called the overeating disease this is caused by increasing the energy level of feed too rapidly. The only symptom of this disease is usually sudden death.

5. A virus, combined with stress, causes the initial damage. The animal becomes lethargic, has a high fever and may have labored breathing and a nasal discharge.

6. This disease is caused by a lack of selenium and/or Vitamin E in the diet of the lamb. Characteristics are stiffness in the hind legs and a hunched or arched back. It affects the heart & skeletal muscles and may cause death in 1-3 days if not treated.

7. This disease is the biggest problem in the sheep industry today. It is a disease of the central nervous system that progresses over years from incoordination to convulsion & finally death.

8. This disease is caused by a virus and can be recognized as small red spots at the corner of the lips. The spots soon develop into blisters and later scabs. Eating is very difficult for the lamb so they usually lose weight.

DOWN
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8. This disease is caused by a virus and can be recognized as small red spots at the corner of the lips. The spots soon develop into blisters and later scabs. Eating is very difficult for the lamb so they usually lose weight.
PROJECT KNOWLEDGE (continued)

1. Name 3 types of stress that your animal may face:
   __________________________,  __________________________,  __________________________

2. Name 3 signs or signals of stress you could observe in your animal:
   --------------------------------------------------------------------------------------------
   --------------------------------------------------------------------------------------------
   --------------------------------------------------------------------------------------------

3. Name the 5 nutrient groups:   _______________________,   _______________________
   _______________________,  _______________________,  _______________________

4. Name 3 Animal Agricultural Careers:
   __________________________,  __________________________,  __________________________

5. How did you market your animal to potential buyers this year? If you had a market animal previously what did you do differently this year?
   ____________________________________________________________________________
   ____________________________________________________________________________
   ____________________________________________________________________________

6. What measures did you take to protect your feed from pests & contaminants?
   ____________________________________________________________________________
   ____________________________________________________________________________
PROJECT PROGRESS AND MANAGEMENT RECORD

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

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

2. What was the best feature of your market lamb this year? What can use improvement?

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

3. What steps did you take to ensure your animal stayed healthy? Why were they important?

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

4. Explain 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 3 ways you helped or taught other 4-H youth 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**

**LAMB PROJECT (AGES 15-19)**

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** ____________________________________________
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   **Phone** ____________________________________________
   **Signature** ____________________________________________

4. **Contact Name** ____________________________________________
   **Business Name** ____________________________________________
   **Mailing Address** ____________________________________________
   **Phone** ____________________________________________
   **Signature** ____________________________________________

5. **Contact Name** ____________________________________________
   **Business Name** ____________________________________________
   **Mailing Address** ____________________________________________
   **Phone** ____________________________________________
   **Signature** ____________________________________________
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 picture is portraying.