As a member of the 4-H Market Livestock Hog 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: __________

Remember: 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: ________________________________

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

NAME______________________________________________________________

4-H CLUB_________________________________________________________

BREED_______________________ SWINE’S NAME_____________________

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 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 HOG NOTEBOOK
AGES 12-14

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) Swine Diseases
   c) Swine Parts Identification
   d) Wholesale & Retail Cuts
   e) Swine Breeds
   f) Swine Miscellaneous

5) YOUR PROJECT INFORMATION
   a) Project Progress & Management Record
   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 Hog 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 1064 – Your 4-H Market Hog Project
b. 4-H Market Livestock Swine Project Rules
c. 4-H Skills for Life Animal Series – Swine 1, 2 & 3
   (All swine leaders have a set of these resources and they are available on a check-out system 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 exercised & 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), training, had vaccinated, etc. **

**APRIL:**

![APRIL](image)

**MAY:**

![MAY](image)

**JUNE:**

![JUNE](image)
JOURNAL OF CARE (continued)

JULY:

AUGUST:

I, ___________________________, do attest and certify that this (property owner name (please print))
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       Date

(if housed at home have parent sign)
PROJECT INFORMATION

The start of the project will be the date the 4-Her placed the animal on feed, not later than May 10th of the current year. The end of the project will be weigh-in day at the Fair.

Project Start Date ____________  Project End Date ________________

In what month was your pig born? _____________________________

Please complete the following chart about your project.

<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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</table>

Note: Total pounds gained = ending weight – starting weight

MONTHLY FEED RECORD & EXPENSES

<table>
<thead>
<tr>
<th>Month</th>
<th>Type of feed</th>
<th>Supplements (if any used)</th>
<th>Amount (indicate lbs. etc.)</th>
<th>Cost or Value of feed used for the month</th>
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<tbody>
<tr>
<td>APRIL</td>
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</table>
MONTHLY FEED RECORD & EXPENSES (continued)

<table>
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<tr>
<th>Month</th>
<th>Type of feed</th>
<th>Supplements (if any used)</th>
<th>Amount (indicate lbs. 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>Advertising/Marketing</th>
<th>Miscellaneous (specify)</th>
<th>Buyer</th>
<th>Recognition</th>
<th>MONTHLY TOTAL</th>
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</tbody>
</table>
PROJECT EFFICIENCY INFORMATION

Value of Animal at Time of Purchase  = __________

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

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

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

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

Swine 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 Swine Project.

\[
\frac{\text{Total Expenses (TE)}}{\text{Final Weight (FW)}} = \frac{\text{Break Even Price (BE)}}{\text{or total cost per pound to raise your animal}}
\]

What is the current selling price of a hog (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

MARKETING

One of the most important parts of any market animal project is marketing. This may include letter writing, 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?

COMMON DISEASES OF SWINE

ACROSS:
1. A very serious, highly contagious disease caused by a virus which can be spread from pig to pig in drinking water, in bedding or on the shoes & clothes of people. Fever is a major sign followed by loss of appetite, labored breathing & vomiting along with trembling.

2. High fever, poor appetite & stiffness are symptoms. Hogs may stand with their feet well under their body & constantly shift their weight to try to relieve the pain. Diamond shaped skin lesions may appear.

3. Results from a bacterial infection of the bones of the pig’s snout. Common signs are sneezing, sniffing, snorting & coughing along with excessive tear production of the eyes. This disease is not fatal but pigs have slower growth rates.

4. Occurs most commonly in 8-14 week old pigs. The affected pigs pass loose stools containing blood & mucus.

ACROSS (continued)
3. Results from a bacterial infection of the bones of the pig’s snout. Common signs are sneezing, sniffing, snorting & coughing along with excessive tear production of the eyes. This disease is not fatal but pigs have slower growth rates.

4. Occurs most commonly in 8-14 week old pigs. The affected pigs pass loose stools containing blood & mucus.

DOWN:
1. A lung inflammation or irritation. Some common signs are abnormal nasal discharge, persistent cough & labored breathing. Pigs may also display decreased appetites, gauntness & dull appearance of the eyes & haircoat.

5. An iron deficiency causes this disease. Symptoms include pale skin & mucous membranes, rough hair coats & rapid labored breathing.
Write the number next to the correct part listed below

_____ Back
_____ Belly
_____ Cannon Bone
_____ Dewclaw
_____ Ear
_____ Elbow
_____ Foot (Toes)
_____ Fore Flank
_____ Fore Rib Area

_____ Ham
_____ Head
_____ Hock
_____ Jowl
_____ Knee
_____ Loin
_____ Neck

_____ Rump
_____ Sheath (Barrow)
_____ Side
_____ Stifle Joint
_____ Shoulder
_____ Snout
_____ Tail
_____ Pastern
_____ Rear Flank

_____ Sheath (Gilt)
_____ Vulva (Gilt)
WHOLESALE & RETAIL CUTS IDENTIFICATION

Fill in the names of five (5) numbered Wholesale Cuts of pork in the spaces provided below:

1. __________________________________________

2. __________________________________________

3. __________________________________________

4. __________________________________________

5. __________________________________________

Fill in the letter of retail cuts of pork from the diagram above next to the correct part below.

_____ BACK RIBS  _____ SMOKED HAM

_____ BLADE STEAK  _____ SMOKED PICNIC

_____ CENTER CUT CHOPS  _____ SPARERIBS

_____ FRESH HAM  _____ TENDERLOIN

_____ SLICED BACON

WORD BANK
BOSTON SHOULDER
HAM
LOIN
PICNIC SHOULDER
SIDE OR BELLY
**BREEDS**
*(fill in the blank with the letter to the correct breed)*

1. _____ This breed’s ears are short and erect. It is black with white feet, tail and usually has a splash of white on the face. They are known for providing hams & bacon of excellent flavor.

2. _____ Members of this breed are long bodied, white hogs with erect ears. They are the most recorded breed of swine in the US & Canada. They produce large litters & are known as the “Mother Breed”.

3. _____ This breed is easily recognized by its white belt encircling a black body. They are the 3rd most recorded swine in the US. They are leaders in leanness & muscle, with good carcass quality, minimal amounts of backfat & large loin eyes.

4. _____ This breed is solid red, but they may range from dark to light shades. They have droopy ears and grow quickly and efficiently. They are the 2nd most recorded breed of swine in the US.

5. _____ For this breed to be registered hogs must have a white face, the body must be at least 2/3 light or dark red & have at least 2 white feet. White also must be showing not less than one-inch above the hoof.

6. _____ This is a newer breed in the US. The American version is all white & very long in body. This breed has especially large, floppy ears and is known for being a good mother.

7. _____ This breed looks somewhat like the Poland China, but has much more white on its body. It has droopy ears, gains weight well, and is known for being an aggressive breed. They are popular with farms & commercial producers for their ability to transmit fast-gaining, feed-efficient, meat qualities to their offspring.

8. _____ Their color is generally black, with six white points. The six points are the four legs, tail & nose. Many have white spots on certain areas of the body. They have droopy ears and are known for being lean & heavy muscled. This breed stands as the embodiment of perfection in the swine industry.

<table>
<thead>
<tr>
<th>A. BERKSHIRE</th>
<th>D. HEREFORD</th>
<th>G. SPOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. DUROC</td>
<td>E. LANDRACE</td>
<td>H. YORKSHIRE</td>
</tr>
<tr>
<td>C. HAMPSHIRE</td>
<td>F. POLAND CHINA</td>
<td></td>
</tr>
</tbody>
</table>
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. Which is the most important?  __________________________________________

5. Name 3 Animal Agricultural Careers:

_____________________,  _______________________,  _______________________

6. Name 4 Pork By-Products (example: floor wax) :  ________________________,

_____________________,  _______________________,  _______________________

7. Name 3 pieces of equipment you will need for fitting & showing your swine:

_____________________,  _______________________,  _______________________.
PROJECT PROGRESS AND MANAGEMENT RECORD

1. What factors did you consider when you selected your market hog?

________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________

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

________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________

3. What feature of your market hog 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>
</tr>
</thead>
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</tbody>
</table>

1. What does 4-H mean to you?

________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________
________________________________________________________________________________________________

2. List at least 2 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

**Swine Project (Ages 12-14)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Club</th>
</tr>
</thead>
</table>

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 like captions or labels so they can tell what your picture is portraying.