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: _______________________________________________________
_____________________________________________________________________
_____________________________________________________________________
1) GENERAL GUIDELINE INFORMATION

2) JOURNAL OF CARE

3) PROJECT INFORMATION

4) SPECIFIC PROJECT KNOWLEDGE
   a) Marketing
   b) Swine Digestive System
   c) Swine Parts Identification
   d) Wholesale & Retail Cuts Identification
   e) Swine Breed Identification
   f) Swine Diseases
   g) 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)
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:**

**MAY:**

**JUNE:**
JOURNAL OF CARE (continued)

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 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 hog 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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</thead>
<tbody>
<tr>
<td>APRIL</td>
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<tr>
<td>MAY</td>
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</tbody>
</table>
## MONTHLY FEED RECORD & EXPENSES (continued)

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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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<td>JUNE</td>
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<td>AUGUST</td>
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</tbody>
</table>

**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>APR</th>
<th>MAY</th>
<th>JUNE</th>
<th>JULY</th>
<th>AUG</th>
<th>4-H FEE</th>
<th>TOTALS</th>
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<tbody>
<tr>
<td>Vet Charges</td>
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<td>Bedding</td>
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<td>Insecticides</td>
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<td>Equipment</td>
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<td>Trucking</td>
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<td>Housing/Rent</td>
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<td>Advertising/Marketing</td>
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<tr>
<td>Miscellaneous (specify)</td>
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<td>Buyer Recognition</td>
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<tr>
<td>MONTHLY TOTAL</td>
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</tbody>
</table>
PROJECT EFFICIENCY INFORMATION

Value of Animal at Time of Purchase = ________________

___________________ ÷ __________________ = ____________________________

Total lbs. of Gain
(from page 4) ÷ Days on Feed = Average Daily Rate of Gain

___________________ ÷ __________________ = ____________________________

Total Feed Cost ÷ Total lbs. of gain = Feed Cost per lbs. of Gain

___________________ ÷ __________________ = ____________________________

Total lbs. of feed fed ÷ Total lbs. of gain = lbs. of Feed fed per lb. of Gain

___________________ + __________________ + __________________ = ____________ (TE)

Total Feed Expense ÷ Cost of Animal ÷ Other Expenses = Total Project Expense

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 Hog Project.

___________________ ÷ __________________ = ____________________________

Total Expenses (TE) ÷ Final Weight (FW) = Break Even Price (BE)
(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? __________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
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?

_______________________________________________________________________________

SPECIFIC EDUCATIONAL PROJECT KNOWLEDGE

DIGESTIVE SYSTEM

WORD BANK
(write the correct part on the corresponding line in the diagram)

A. CECUM
B. COLON
C. DUODENUM
D. ESOPHOGUS
E. LIVER
F. PANCREAS
G. RECTUM
H. SMALL INTESTINE
I. STOMACH
Write the number next to the correct part listed below

_____ Back  _____ Ham  _____ Rump
_____ Belly  _____ Head  _____ Sheath (Barrow)
_____ Cannon Bone  _____ Hock  _____ Side
_____ Dewclaw  _____ Jowl  _____ Stifle Joint
_____ Ear  _____ Knee  _____ Shoulder
_____ Elbow  _____ Loin  _____ Snout
_____ Foot (Toes)  _____ Neck  _____ Tail
_____ Fore Flank  _____ Pastern  _____ Teats
_____ Fore Rib Area  _____ Rear Flank  _____ 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 names of the lettered Retail cuts of pork in the spaces provided below:

A. __________________________________________
B. __________________________________________
C. __________________________________________
D. __________________________________________
E. __________________________________________
F. __________________________________________
G. __________________________________________
H. __________________________________________
I. __________________________________________

WORD BANK
BACK RIBS
BLADE STEAK
BOSTON SHOULDER
CENTER CUT CHOPS
FRESH HAM
HAM
LOIN
PICNIC SHOULDER
SIDE OR BELLY
SLICED BACON
SMOKED HAM
SMOKED PICNIC
SPARE RIBS
TENDERLOIN
**BREEDS** (fill in the blank with 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.
DISEASES
(fill in the crossword puzzle with the disease by using the definitions)

ACROSS:
1. An acute, frequently fatal disease affecting most species of animals, except humans. It is caused by a virus & involves the nervous & respiratory systems. It is spread mainly by direct contact between swine with the nose & mouth being the main entry points.
2. A short but severe respiratory disease episode which often occurs after pigs have been moved or co-mingled, such as at a show or sale. Breathing becomes labored & opened mouthed with barking coughs.

DOWN:
3. Most often occurs in pigs 8-14 weeks old. The affected pigs pass loose stools containing blood & mucus. This is also known as bloody scours.
4. An inflammation of the mucous membranes that line the pig’s nose. Common signs are sneezing, sniffing, snorting & coughing. A moist crescent-shaped area on the face below the eye caused by excessive tearing is usually present along with a clear to yellowish discharge from the nostrils.
5. Signs of this iron deficiency include pale skin & mucous membranes such as the lining of the mouth, unthrifty appearance with rough hair coats, rapid labored breathing (thumps) and uneven growth.
6. This is a bacterial disease of swine that can cause sudden death, fever, diamond skin lesions, arthritis, heart valve lesions & abortion. This disease is passed in the feces of sick & carrier animals. Most swine are vaccinated against this disease so it is not often seen.
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. What are 3 basic components of meat cuts?
   _______________________,     _______________________,     _______________________

4. Name the 5 nutrient groups:   _______________________,     _________________
   _______________________,     _______________________,     _______________________
   _______________________,     _______________________,     _______________________

5. Which is the most important?  ________________________________________________

6. Name 3 Animal Agricultural Careers:
   _______________________,     _______________________,     _______________________

7. What measures do you take to protect your feed from pests and contaminants?
   ___________________________________________________________________________
   ___________________________________________________________________________
   ___________________________________________________________________________
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? 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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</table>

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 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
**SWINE 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** ___________________________________________________________________
   **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 picture is portraying.