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, 2017

**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**________________________________________________

**DATE OF BIRTH**___________________________________________

Month     Day     Year

**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: ____________________________________________________________
   _______________________________________________________________________
   _______________________________________________________________________
   _______________________________________________________________________
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 Housing
   c) Pig Part Identification
   d) Swine Terminology Crossword Puzzle
   e) Swine Facts True & False
   f) Breeds
   g) Feed & Nutrients
   h) Your 4-H Project
   i) 4-H Knowledge

5) MY 4-H STORY

6) BUYERS NAMES

7) PICTURES OF YOUR PROJECT (1 page)

8) NON-CLUB/CLUB POINTS SHEETS

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%

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.

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

a. Extension publication 4-H 1064 – Your 4-H Market Hog Project
b. Swine Resource Handbook- Ohio State University (available in the office & each leader should have a copy.
c. 4-H Skills for Life Animal Series- The Incredible Pig (available in the office and each leader should have a copy)
**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, trimmed, foot care, health practices, medicines, general maintenance (cleaning living area & feed pans), training, had vaccinated, etc.. **

**APRIL:**

**MAY:**

**JUNE:**
Journal of Care (cont.)

JULY:

AUGUST:

I, ________________________________, do attest and certify that this (property owner name or parent - 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 or Parent

if housed on own farm.

Date
**PROJECT INFORMATION**

The start of the project will be the date the 4-Her placed the animal on feed, not any 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 _______________

What month was your pig born? __________________________

Please complete the following chart about your project.

<table>
<thead>
<tr>
<th>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 (FW)</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. etc.)</th>
<th>Cost 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>4-H fee</th>
<th>Trucking</th>
<th>Housing/Rent</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  = ____________

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

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

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

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

\[
\frac{\text{Total Expense (TE)}}{\text{Final Weight (FW)}} = \text{Breakeven Price (BE)}
\]

What is the current selling price of hogs (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 writing letters, talking to buyers and making sure that you think 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?

_______________________________________________________________________

_______________________________________________________________________

_______________________________________________________________________

_______________________________________________________________________

CARING FOR YOUR PIGS - HOUSING AND PENS

(fill in the blank)

1. Pig pens should be not less than ___________ square feet per pig.

2. The minimum size of a pig pen would be __________ ft. \( \times \) __________ ft.

3. Fences should be a minimum of ___________ inches tall

4. Minimum size for housing (shelter) should be __________ ft. \( \times \) __________ ft. per pig or not less than ___________ square feet per pig.

5. Housing should allow for _______________________ during sunny days.

(found in skills for life series which leader should have / office also has a copy)
HOG IDENTIFICATION: identify the parts

Write the number next to the correct part listed below

_____ Back  _____ Ham  _____ Neck
_____ Belly  _____ Head  _____ Pastern
_____ Dewclaw  _____ Hock  _____ Rump
_____ Ear  _____ Jowl  _____ Stifle Joint
_____ Elbow  _____ Knee  _____ Shoulder
_____ Foot (Toes)  _____ Loin  _____ Snout
             _____ Tail
SWINE TERMINOLOGY CROSSWORD PUZZLE

DOWN
1. Meat from hogs
5. People who buy and use a product
8. SQ (one way of giving injections)
9. The amount of feed a pig is allowed to eat in a 24-hour period
10. The essential amino acid that is most likely to be deficient in a standard swine diet.
11. The amount of money being paid for pigs on any given day
12. Procedures designed to minimize disease transmission from outside and inside a production unit.
13. Amount of feed consumed per pig to produce one pound of body weight gain.
14. There are ______ major classes of nutrients?

ACROSS
1. Serious, very contagious disease spread from pig to pig through drinking water, bedding, or on shoes or clothes of people.
2. Soft, watery feces in swine, commonly occurring as a part of a disease.
3. Mating a boar & gilt or sow to produce piglet
4. Feature or characteristic of an animal, such as lean body or calm personality
5. Rich Milk produced by the sow during the first hours after farrowing.
6. Period in which the sow is pregnant; this period lasts 114 days in swine.
7. Refers to the porcine, or pig, family in general.
SWINE FACTS TRUE OR FALSE

(Circle T for true and F for false)

1. Antibiotics, such as penicillin, are a good treatment for an acute attack of erysipelas.  
T F  

2. A sign of pneumonia is when a pig stands with its feet well under its body, giving its back an arched appearance.  
T F  

3. Vaccinations are particularly effective against parasites.  
T F  

4. Aujeszky’s Disease is commonly known as Pseudorabies.  
T F  

5. Atrophic Rhinitis is a common external parasite.  
T F  

6. Whipworms are not usually a major problem in market hogs.  
T F  

7. A youthful haircoat can be recognized by its relatively short, sleek and shiny hair.  
T F  

8. Production traits are measured after the hog has been slaughtered.  
T F  

9. Dressing percentage represents the amount of the hog’s live weight that is present in carcass form.  
T F  

10. Lean hogs will dress higher than fat hogs.  
T F  

11. When calculating percent muscle, the loineye area, backfat depth and carcass weight are considered.  
T F  

12. Pork is hard to digest.  
T F  

13. In the modern swine industry, feeding pigs raw garbage and table scraps is very common.  
T F  

14. Pork is high in cholesterol.  
T F  

15. Body composition is evaluated by the degree of muscling and finish.  
T F  

16. When evaluating structural soundness, you should look primarily at the pig’s body cavity and topline.  
T F  

17. Oats are a good energy feed for pigs.  
T F
BREEDS
(write the name of the breed described on the line)

__________________ Large & pure white with drooping ears. Known as the durable mother breed as they are good mothers.

__________________ Black with white feet, tail and usually has a splash of white on the face. Short, erect ears. Exceptional meat quality, especially hams & bacon.

__________________ Red with drooping ears. Muscular. Ability to produce large litters. Lean gain efficiency. Good sires. Exceptional meat quality. Grown quickly & efficiently. The second most recorded breed in the U.S.

__________________ Very long bodied white breed with large, drooping ears pointing forward & down. Good mothers with outstanding maternal traits. Fourth most recorded breed in the U.S.

__________________ Black with six white points (four legs, tail & nose). Medium-sized drooping ears. Produce meaty carcasses with large loin eyes.


__________________ White with erect ears. Long-bodied. Good mothers who produce large litters, known as the mother breed. Muscular with a high proportion of lean meat & low back fat. They are the most sought after breed.


__________________ A medium size hog breed that is unique to the United States. It was developed in Iowa and Nebraska during the 1920s from Duroc, Chester White, and Poland China bloodlines. Has a color pattern of intense red with white trim.
FEED & NUTRIENTS:
(write in the letter of the definition that matches the feed or nutrient next to it)

___ Water

A. Can be used as a pound-for-pound substitute for corn, but because of its relatively high cost it's seldom used.

_____ Fats

B. This is to a pig what gasoline is to an automobile. They supply the energy or fuel the pig needs.

_____ Oats

C. This is the most important part of a pig's diet.

_____ Corn

D. Build bones and teeth and support other life processes in pigs.

_____ Minerals

E. This is not a good energy feed for pigs because of the high fiber content.

_____ Carbohydrates

F. These provide energy for movement & heat. They produce about 2 ¼ times as much energy as carbohydrates.

_____ Proteins

G. This is an excellent energy feed for all classes of swine because it is high in digestible carbohydrates, low in fiber and very palatable.

_____ Barley

H. This is broken down by the pig's body into amino acids which are then used by the pig to build body proteins.

_____ Wheat

I. This is an excellent energy feed when corn is not available but because of its higher fiber content it has more bulk and is slightly lower in energy than corn.

_____ Grain Sorghums

J. Can replace corn in all swine diets. The kernel is hard and small and should be ground before mixing with other ingredients. The feeding value is approximately 95% that of corn.

_____ Vitamins

K. Just as important as other feed nutrients, but these are needed in smaller amounts.
YOUR 4-H PROJECT

Answer the following questions to the best of your abilities:

1. When you selected your market hog, what factors did you consider?
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________
   Are you happy with the breed you chose?
   _______________________________________________________________
   _______________________________________________________________

2. What is the best feature(s) of your market hog this year?
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________

3. What feature(s) of your market hog could use some improvement?
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________

4. What were your 4-H, and project, goals this year?
   _______________________________________________________________
   _______________________________________________________________
   _______________________________________________________________
4-H ACTIVITIES

The 4-H Pledge - (fill in the blanks)

I pledge…

_______________________________________________________________________,
_______________________________________________________________________,
_______________________________________________________________________,
_______________________________________________________________________,
_______________________________________________________________________,
_______________________________________________________________________,

The 4-H MOTTO: ________________________________________________________

What 4-H Means to Me: _________________________________________________
_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________

Number of club meetings held: ______________ Number I attended: __________

List any club activities in which you have Participated in
- Responsibilities which you have assumed

(example: Community Service events, workshops, judging contests, clinics, and offices held. If none, write none)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Location</th>
<th>Placing, Position or Comments</th>
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MY 4-H STORY

If you would like the judge to know anything special about your animal or project you may write it here, if you choose.

POTENTIAL BUYERS 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 3 (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. Please use 1 (one) sheet for your buyer’s signatures as copies need to be made by the office.
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. Also if you have anything special that you would like the judge to know about your project you may put it here. If you have more than 1 page of pictures please use the appendix section to include those pictures.