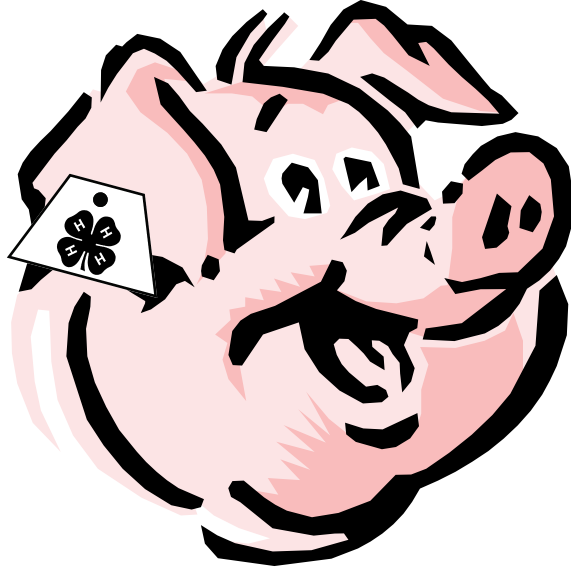


# Bay County



## Market Swine Project Record Book 16 - 19 Years Old

Name: \_\_\_\_\_

4-H Club: \_\_\_\_\_

Leader: \_\_\_\_\_

Age: \_\_\_\_\_ Number of Years Showing Swine: \_\_\_\_\_

Record Started: \_\_\_\_\_ Record Closed: \_\_\_\_\_  
Month/Day/Year Month/Day/Year

Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, marital status, family or veteran status.

**MICHIGAN STATE  
UNIVERSITY  
EXTENSION**



## **The 4-H Pledge**

I pledge...

My HEAD to clearer thinking,  
My HEART to greater loyalty,  
My HANDS to larger service, and  
My HEALTH to better living,  
For my club, my community, my coun-  
try, and my world.

## **The 4-H Motto**

“To make the best better.”



# About My 4-H Club

## My 4-H Club Information

Club Name \_\_\_\_\_

Club Leader(s)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Club Officers

President \_\_\_\_\_

Vice President \_\_\_\_\_

Secretary \_\_\_\_\_

Treasurer \_\_\_\_\_

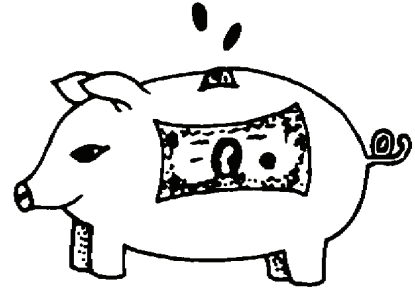
Historian \_\_\_\_\_

Other \_\_\_\_\_



# Why Keep Records?

Keeping records on your project can be interesting and fun - not dull or boring.



Good Records will:

- Help you learn about animals, their rate of growth, the feed they require, the cost of the feed and their habits.
- Help you plan future projects.
- Let you know if you made or lost money and how much.
- Improve your management practices.
- Give you a record of your project activities.

Keep this record as part of your Personal 4-H Records. This information is helpful for you to plan future year's market projects as well as if you ever apply for 4-H awards or a 4-H scholarship.

Remember - Records are no better than what YOU put into them!

Leaders Comments:

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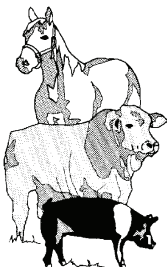
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Leader's Signature: \_\_\_\_\_

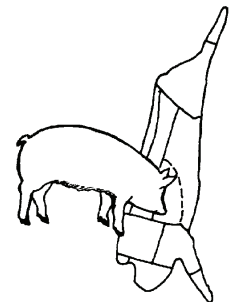
Objectives:

To let 4-H Members:

- Experience the obligation and responsibility required in a livestock enterprise.
- Experience and cope with the "values" and "attitudes" of responsibility, in a relatively unsupervised environment. Supervision will be on a periodic basis.
- Contribute to the family table with meat, or to experience the marketing process and system, through sale of the product.
- Experience competition through showing the animal at local area organization sponsored shows, the fair, and state wide shows.



MSU Extension-Bay County  
515 Center Avenue, Suite 301  
Bay City, MI 48708  
(989) 895-4026





# Bay County 4-H Swine Program

## Member's Achievement Summary

20\_\_\_\_

Your Name: \_\_\_\_\_

Date of Birth: \_\_\_\_\_ Age (as of 1/1 of this year): \_\_\_\_\_

School Attending: \_\_\_\_\_ Grade: \_\_\_\_\_

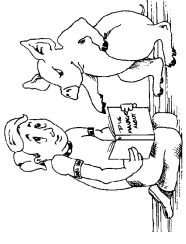
Number of years showing swine in Bay County: \_\_\_\_\_

Have you participated in swine projects outside of the county?  Yes  No

If Yes, list the activities and the number of years in each:

List some of the Swine project activities you would like to participate in (outside of the fair) such as, trips, shows, clinics/workshops, posters/projects, demonstrations, quiz bowl, and judging team and WHY:

What do you want to improve this year in your swine project?



## My Market Swine Project Animal(s)

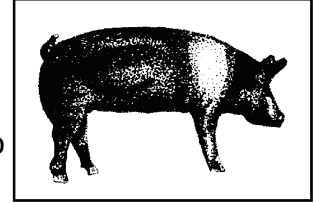
Hog Number	Ear Tag		Name	Breed(s)	Color(s)	Purchased (P) or Raised (R)		Sex	Beginning Weight		Finished Weight	
	Number	Side of Ear				Price/Value	Price/Value		Date	Method	Date	Method
						\$						
						\$						
						\$						
						\$						

For Price/Value, use either the Purchase Price of your hogs or the market value of the animals at the time of your weight measurements. For information on determining your current market value, contact the MSU Montcalm Extension Office.

The method of weight is asking how you measured your animal's weight. There are many ways to weigh your market animal. If the young animal is light enough, you can use your own home scale. Just weigh yourself holding the animal and without the animal. Subtract the difference and you will have your animals weight. There are weight tapes, scales and close approximations.

# My 4-H Swine Project Photographs

Be creative. The more photographs the better. but a completed record book should at least have a beginning photograph and a finished picture. You are encouraged to be in the photo with your project animal(s) and include more photographs. You should also include captions on your pictures that at least include the date of the photograph. You may use additional pages.



## My 4-H Swine Project Feed Record and Expenses

In this section, you will calculate your cost to feed your market hogs. Record by months amounts of feed purchased, weighed out or fed during each month. Grain and supplements: Amount and Cost of grain, Amount and Cost of supplements including commercial mixture (protein, mineral, salt, etc.) Brand names do not matter but content and cost do. Home grown feed should be listed by fair market value. To simplify this chart, you do not have to weigh your feed every feeding. Averages are ok and encouraged. This report should be for the animals that you are planning to take to the fair. If you are feeding more animals than your market hogs, simply find the average price per hog and multiply the average by the number of animals that you are exhibiting at the fair.

FEED TYPE	Prior to February	February	March	April	May	June	July	TOTAL
<b>Corn:</b> _____ lbs. used _____ Cost of Feed (per lb.) _____ Monthly Cost								
<b>Soybean Meal (SBM):</b> _____ lbs. used _____ Cost of Feed (per lb.) _____ Monthly Cost								
<b>Complete Feed:</b> _____ lbs. used _____ Percent Protein (%) _____ Cost of Feed (per lb.) _____ Monthly Cost								
<b>Supplement/Other:</b> _____ lbs. used _____ Cost (per lb.) _____ Monthly Cost								
<b>MONTHLY FEED TOTAL</b> Find the sum of your monthly costs								_____ TOTAL FEED COST



Monthly cost = Cost of the feed (per lb.) x lbs. used.



# My 4-H Swine Project Feed Ingredients

Attach a Feed Ingredients Slip/Nutritional Analysis from each of your feed sources. If the feed is mixed in a mill, ask the mill operator for a list of ingredients. If a slip is not available, please describe your feed sources as best as possible.

A small yellow pushpin icon is located at the top-left corner of the rectangular area.

Attach Feed Slip Here

## My 4-H Swine Project Expenses on Project Animal

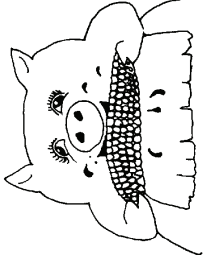


In this section, you will calculate your cost to prepare your market swine project for the fair and auction. Please feel free to include attachments of actual expenses with your record book.

Expense Items	Pre -February	February	March	April	May	June	July	Project Totals (\$)
Monthly Feed Total (from pg. 6)								
Veterinary Charge								
Bedding								
Insecticides								
Fitting & Showing Supplies								
Trucking								
Marketing of Animal								
Miscellaneous								
Monthly Totals								

TOTAL EXPENSES FOR THIS ANIMAL

# My 4-H Swine Project Weight Record



<b>A</b>	<b>Total Number of Hogs in Record</b>	
<b>B</b>	<b>Total Feed Cost (from pg. 6) - For All Animals</b>	\$
<b>C</b>	<b>Average Feed Cost per Animal (C = B/A)</b>	\$
<b>D</b>	<b>Total Swine Expenses (From pg. 8) - For All Animals</b>	\$
<b>E</b>	<b>Average Total Expenses per Animal (E = D/A)</b>	\$

<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>
<b>Ear Tag Number</b>	<b>Starting Weight (lbs.)</b>	<b>Date of Starting Weight</b>	<b>Finished Weight (lbs.)</b>	<b>Date of Finished Weight</b>	<b>Weight Gained (lbs.) K = I - G</b>	<b>Days on Feed L = # of Days from H to J</b>	<b>Average Daily Gain (lbs./day) M = K/L</b>	<b>Cost Per Pound of Gain (\$/lb.) N = C/K</b>

## Your Market Swine Project Break Even Price

	A	B	C	D	E	F
	Ear Tag Number	Average Total Expenses per Market Animal (from pg. 9, E)	Purchase Price/Value (from pg. 4)	Total Animal Expense $D = B + C$	Finished Weight (from pg. 4)	Break Even Price/Pound $F = D/E$ (\$/lb.)
Sale Animal #1		Note: This number is the same for each hog.				
Sale Animal #2						
Carcass Animal						
Other						

What is the current market price of swine (per lb.)?     \$ \_\_\_\_\_

Would you have been able to make a profit selling your hogs in the open market? \_\_\_\_\_

Why/Why Not?

What does your Average Daily Gain (pg. 9, M) tell you about your market hog?

Pork producers must try to reduce their Cost Per Pound of Gain (pg. 9, N) while maintaining a proper Average Daily Gain. What are some ways that you can reduce your cost per pound of gain and maintain or increase your average daily gain?

# Swine Carcass Traits

Commercial swine producers are concerned with the carcass value of their animals and so should you. The more valuable your animal's carcass, the happier the consumer will be with the pork. Answer the following questions on swine carcass traits.

Assume your carcass animal has a beginning weight of 97 lbs. and weighs in at the fair at 273 lbs. After the animal is slaughtered, its cooled carcass is weighed at 207 lbs. What is the dressing percentage of this animal? (show your work).

Dressing Percentage: \_\_\_\_\_

At the fair, your animals are weighed directly from the trailer. If your animal was allowed to go back to their pens to eat and drink, how would it affect your animal's live weight at weigh-in?

When this animal is slaughtered, what affect would this have on its cooled carcass value?

What affect would this have on the Dressing Percentage?

At which rib is the loin cut to find the animal's loineye area? \_\_\_\_\_

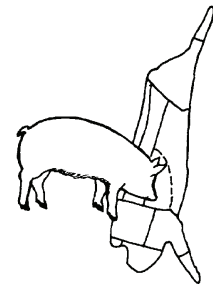
Which is not considered when calculating the Percent Muscle? \_\_\_\_\_

Loineye Area

Backfat Depth

Carcass Length

Carcass Weight



Describe the difference between Side Pork and Bacon:

## My Mandatory Market Swine Project

An outstanding 4-H project is one that goes above and beyond what is expected. This section will help you identify projects that you can do to improve your market record book and have a better chance at receiving an outstanding ribbon. Check your project.

Write a report on *one* of the following topics. Report must be at least one page:

- FOLKPATTERNS:** Visit with a former livestock or hog farmer to compare and contrast today's Swine Projects with those in the past. What is better today? What was better in the past? **OR** describe the significance of the swine in the cultures of the far east (Asian) countries.
- LEADERSHIP:** How you have become a better leader through your years in the 4-H Swine Project. Describe what you have done and how you have grown.
- ANIMAL SCIENCE:** Describe the proper care and nutrition of your market animal **OR** how you selected your market animal.
- VETERINARY SCIENCE:** Describe a veterinary practice, procedure on livestock **OR** explain the disease Pseudorabies and how it affects swine. Other swine veterinary topics may be used for your report.

**PHOTOGRAPHY REPORT.** All photos are to be taken by the exhibitor (you). Choose *one* of the following topics:

- MY SWINE PROJECT:** Keep a photo journal of your market swine project. Photographs should represent the entire length of the project. A minimum of 12 photos from eight DIFFERENT TIMES must be included. Photos do not all have to be of the animal. They could be of club meetings, field trips, shows, etc.
- FARM VISIT:** Create a photo journal of a large swine operation. A minimum of 12 photographs are required.

**ENTOMOLOGY:**

- Create an Insect Collection with a minimum of 8 insects that affect swine. Note, this could be pests, such as flies and mosquitoes or insects that eat crops that swine use as feed such as corn, soy beans, or oats.

**ENVIRONMENTAL SCIENCE:**

- Draw a diagram of your swine set up. From that diagram, show how you can protect resources, such as groundwater. Include manure management and storage of hazardous materials. Check with MSU Montcalm Extension's groundwater resources for more information.

**FOODS & NUTRITION:**

- Outline the nutritional content of swine (it varies depending on the cut.) Include sample recipes of "healthy" swine foods.

**PLANT SCIENCE:**

- Create a display of field crops that are beneficial to a pig's diet **OR** using actual samples create a project that outlines a certain agriculture food source from seed to feed.

## 16 - 19 4-H Swine Record Book Score Sheet

<i>Page</i>	<i>NAME:</i>	<i>Points Possible</i>	<i>Your Points</i>
1 - 4	<b><i>COVER SHEET &amp; WHY KEEP RECORDS</i></b>	<b>5</b>	
	All information is completed and has Leader's Signature.		
5	<b><i>MEMBER ACHIEVEMENT SUMMARY</i></b>	<b>5</b>	
	All Information is neat and complete. All questions are answered.		
6	<b><i>4-H SWINE PROJECT ANIMALS</i></b>	<b>10</b>	
	Information complete on <i>PRIMARY</i> animal. All weights/prices recorded.		
7	<b><i>4-H PROJECT PHOTOGRAPHS</i></b>	<b>5</b>	
	A beginning and finished photograph is included.		
8	<b><i>MONTHLY FEED COSTS</i></b>	<b>10</b>	
	Table completed & totals tabulated.		
9	<b><i>FEED INGREDIENTS</i></b>	<b>5</b>	
	Feed slip attached <b><u>OR</u></b> the ingredients are listed		
10	<b><i>PROJECT EXPENSES</i></b>	<b>10</b>	
	Table completed and total expenses calculated.		
11	<b><i>WEIGHT RECORD</i></b>	<b>10</b>	
	Calculations are completed and questions answered.		
12	<b><i>MARKET SWINE BREAK EVEN PRICE</i></b>	<b>10</b>	
	Calculations completed and questions completed.		
13	<b><i>KNOW YOUR CUTS OF MEAT</i></b>	<b>10</b>	
	Worksheet completed.		
14	<b><i>MARKET SWINE PROJECT</i></b>	<b>20</b>	
	ONE of the projects listed is completed.		
	<b><i>EXTRA CREDIT: A Project from pg. 13 (or another worthy project.)</i></b> Points are at Judge's discretion.		
<b><i>TOTAL POINTS:</i></b> A: 80 – 100, B: 60 – 79, C: 10 – 59			