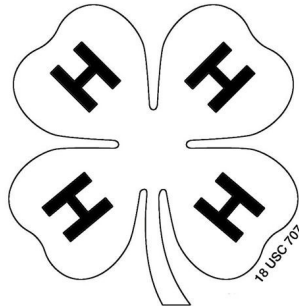


# Oceana County



## Dairy Project

## Record Book

**Intermediate (Age 12 – 14)**

**2017**

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

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

4-H Leader: \_\_\_\_\_

Age as of (1/1/17) \_\_\_\_\_ Years in 4-H Dairy Project: \_\_\_\_\_

MSU 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 or family status

**JUDGE'S SCORE/COMMENT SHEET**

**PLEASE DO NOT REMOVE, GLUE TO THE COVER OR PLACE THIS SHEET  
IN SHEET PROTECTOR.**

*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

\_\_\_ Questions were not completely answered

\_\_\_ Questions were not answered (missed questions)

B. Notebook contains all project records

\_\_\_ Notebook contained all project records, and fully complete.

\_\_\_ Project records were incomplete

c. Accuracy, neatness and general appearance

\_\_\_ Notebook was neat in appearance (typed/hand printed)

\_\_\_ Notebook pages were clean and stain free

\_\_\_ Notebook was difficult to read and messy

\_\_\_ Notebook had wrinkled and stained pages

\_\_\_ Notebook pages were missing

Other Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

This record book is part of your 4-H Dairy Cow/Calf 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, or type, neatly and clearly. Feel free to add extra pages at the end of your notebook.

## **SCORING CRITERIA**

The following breakdown will be used during the judging process of all dairy notebooks.

- |  |            |
|--|------------|
| A. Specific educational value or worth           | <b>30%</b> |
| B. Creative way of showing what you have learned | <b>10%</b> |
| C. Notebook contains all project records         | <b>50%</b> |
| D. Accuracy, neatness and general appearance     | <b>10%</b> |

The Oceana County 4-H Dairy Committee encourages 4-H Leader and parent assistance with you project and project notebook. If you should have any questions, please contact the MSU Extension Office.



## Why Keep Records?

- \* Members learn more about their project animals- costs, feed, health & management skills.
- \* Document activities and progress in the project.
- \* Improve management and production practices.
- \* Helps plan future projects.
- \* A completed record book should have a beginning and final photograph. You are encouraged to be in the photo with your project animal(s) and to include more photographs. You may use additional pages if necessary.

## Dairy Project Summary

Number of club meetings held: \_\_\_\_\_ Number I attended: \_\_\_\_\_

I gave project talks or demonstrations: \_\_\_\_\_ Yes \_\_\_\_\_ No

Topics covered at our meetings were: \_\_\_\_\_

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Have you participated in other dairy activities, fairs, clinics, etc.: \_\_\_Yes \_\_\_No

If yes, list the activities, shows, fair or related programs attended. (write N/A if none were attended):

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What are your goals for this year's dairy project? \_\_\_\_\_

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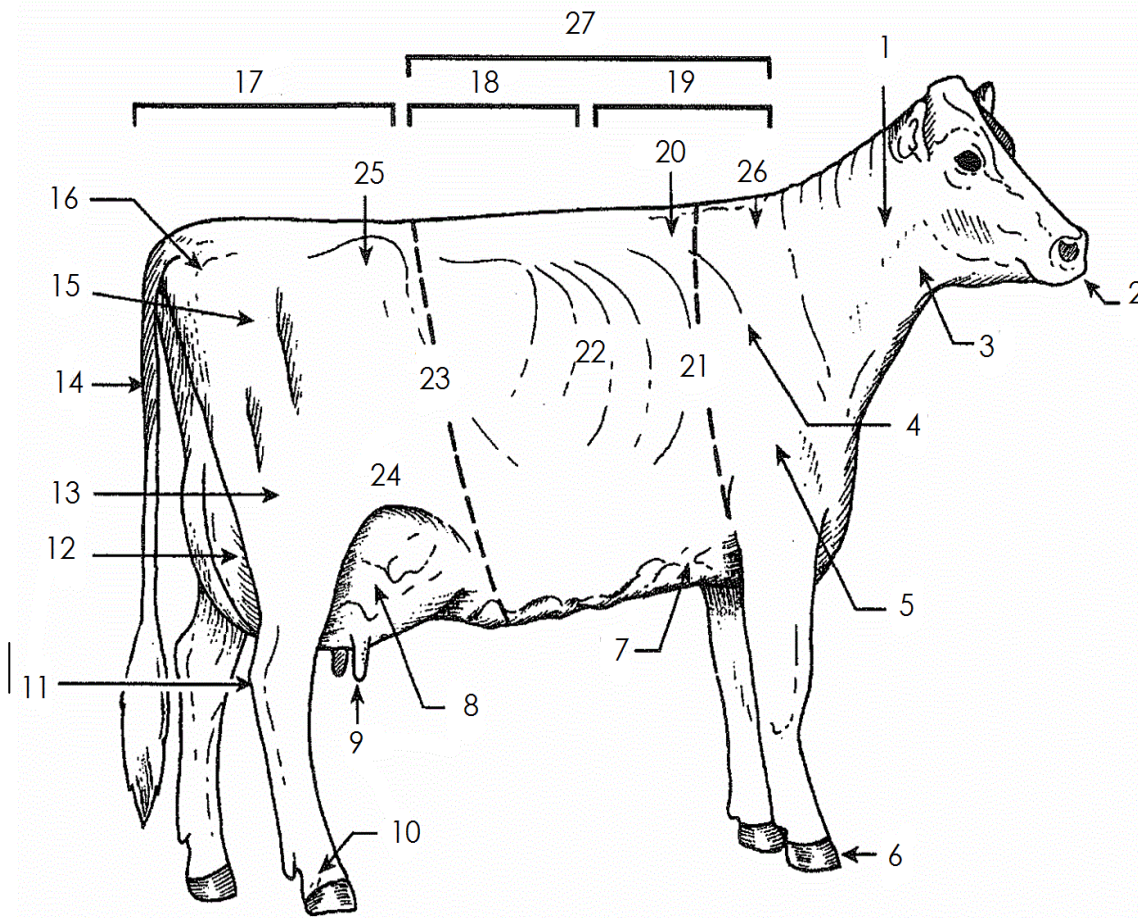
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# PARTS OF A DAIRY COW

(WRITE THE NAME OF THE PART NEXT TO THE CORRECT NUMBER BELOW)

\*Courtesy OSU Dairy Learning Laboratory Kit



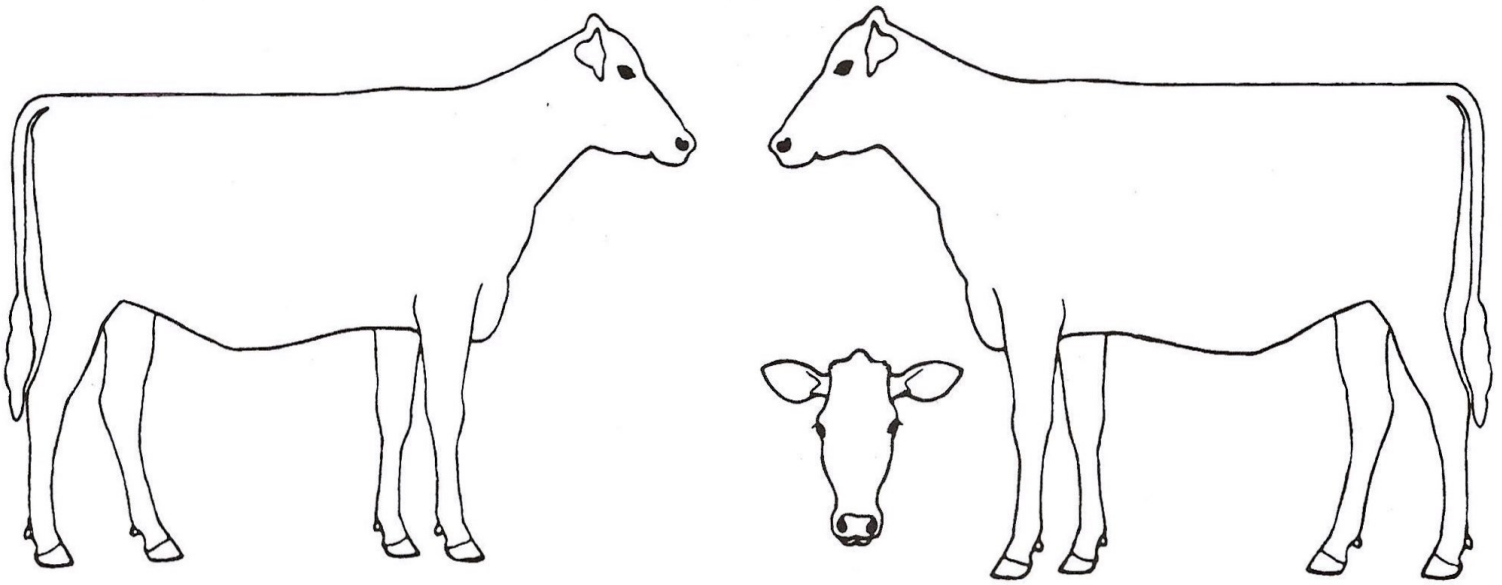
## WORD BANK

RIBS  
CHINE  
CHEST FLOOR  
BARREL  
CROPS  
FORE UDDER  
HEART GIRTH  
HIP (HOOKS)  
HOOF  
HOCK  
LOIN  
NECK  
MUZZLE  
PASTERN  
PIN BONE  
POINT OF SHOULDER  
REAR UDDER  
BACK  
RUMP  
SHOULDER BLADE  
STIFLE  
THIGH  
TEAT  
TTAIL  
THROAT  
THURL  
WITHER

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_
4. \_\_\_\_\_ 5. \_\_\_\_\_ 6. \_\_\_\_\_
7. \_\_\_\_\_ 8. \_\_\_\_\_ 9. \_\_\_\_\_
10. \_\_\_\_\_ 11. \_\_\_\_\_ 12. \_\_\_\_\_
13. \_\_\_\_\_ 14. \_\_\_\_\_ 15. \_\_\_\_\_
16. \_\_\_\_\_ 17. \_\_\_\_\_ 18. \_\_\_\_\_
19. \_\_\_\_\_ 20. \_\_\_\_\_ 21. \_\_\_\_\_
22. \_\_\_\_\_ 23. \_\_\_\_\_ 24. \_\_\_\_\_
25. \_\_\_\_\_ 26. \_\_\_\_\_ 27. \_\_\_\_\_

# 4-H LIFETIME DAIRY CATTLE SUMMARY

**IDENTIFICATION:** Draw and color the markings on the outline or attach a photo of at least 1 of your 4-H dairy cattle projects. Answer the questions below using the same project animal.



Primary Strengths or Best Features: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Primary Weaknesses or Worse Features: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Management Records

Fill out 1 of these pages per dairy project

*(If you only have 1 animal, remove the additional management records pages)*

<b>Name:</b>	<b>Breed:</b>
<b>Date of Birth or Age:</b>	<b>RFID (required)</b>

◆ How often do you feed/water your project?
◆ What does your animal's feed consist of?
◆ Do you give your animals any supplements? If so what?
◆ What type of bedding do you use for your dairy project?
◆ If your dairy project is milked, what is the milking procedure from beginning to end?
◆ How often do you clean the pen/barn your animal stays in? How do you do this?

## Management Records

Fill out 1 of these pages per dairy project

*(If you only have 1 animal, remove the additional management records pages)*

<b>Name:</b>	<b>Breed:</b>
<b>Date of Birth or Age:</b>	<b>RFID (required)</b>

◆ How often do you feed/water your project?
◆ What does your animal's feed consist of?
◆ Do you give your animals any supplements? If so what?
◆ What type of bedding do you use for your dairy project?
◆ If your dairy project is milked, what is the milking procedure from beginning to end?
◆ How often do you clean the pen/barn your animal stays in? How do you do this?







## **Records Questionnaire**

*(Questions refer to the farm or herd where your cow/heifer is regularly housed, ask questions of the farm owner if you do not know the answers).*

What breed(s) of cattle does the farm have? \_\_\_\_\_

How many lactating cows does the farm have? \_\_\_\_\_

How many dry cows does the farm have? \_\_\_\_\_

Total number of heifers and calves on the farm? \_\_\_\_\_

At what age are calves weaned off milk at this farm? \_\_\_\_\_

Is the herd on a dairy testing program? \_\_\_\_\_ If yes, which program is it on? \_\_\_\_\_

## **QUIZ BOWL QUESTIONS**

1) Name 3 internal parasites of dairy cows: \_\_\_\_\_,  
\_\_\_\_\_.

2) What are 4 of the 6 major nutrients found in feedstuffs? \_\_\_\_\_,  
\_\_\_\_\_.

3) What are the 2 main gases produced in the rumen? \_\_\_\_\_,  
\_\_\_\_\_.

4) Name 4 types of bedding typically used for dairy cattle: \_\_\_\_\_,  
\_\_\_\_\_.

5) Name 3 ways a dairy cow excretes (or loses) water : \_\_\_\_\_,  
\_\_\_\_\_.

6) A healthy cows body temperatures should be: \_\_\_\_\_.

## Dairy Cow Unified Score Card

Using the Dairy Cow Unified Score Card (updated 2009 and can be found at: <http://www.purebreddairycattle.com/pages/Literature.php> ), list the criteria under each of the FOUR major traits. This is what you would use to choose your show animal.

### **1. Frame—15%**

Example: RUMP— 5 points \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### **2. Dairy Strength— 25%**

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

### **3. Rear Feet & Legs— 20%**

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

### **4. Udder— 40%**

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

## **DAIRY KNOWLEDGE**

What is a pedigree and what information is usually found in a pedigree for a dairy animal?

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How old should a calf be before it is weaned? \_\_\_\_\_

Describe the housing and environment your animal was raised in. \_\_\_\_\_

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Describe the grain ration(s) you used and list the main ingredients in each. \_\_\_\_\_

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It is especially important to provide clean, fresh water at all times as milk is \_\_\_\_\_% water.

## **TRIVIA**

Which dairy breed generally has the highest level of milk production? \_\_\_\_\_

What is the common name for the disease *traumatic gastritis*? \_\_\_\_\_

An inflammation or infection of the mammary gland is called? \_\_\_\_\_

Cattle have 4 stomach compartments and are therefore called ruminants. Name them.

\_\_\_\_\_, \_\_\_\_\_,  
\_\_\_\_\_, \_\_\_\_\_.

Which stomach compartment is referred to as the true stomach? \_\_\_\_\_

List 5 major dairy breeds: \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

## Dairy Genetics, Judging & Show Ring Ethics

1. Give one example of a disqualifying defect: \_\_\_\_\_

\_\_\_\_\_

2. Describe proper udder traits: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Name two important factors to consider when looking to purchase a genetically sound bull: \_\_\_\_\_

\_\_\_\_\_

4. Name one skill you might use in the show ring to show off your animal's strong points and minimize its weak points:

\_\_\_\_\_

\_\_\_\_\_

5. Unethical treatment of animals and being a poor sport when competing is not acceptable. List the 6 pillars of character:

\_\_\_\_\_, \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_\_,

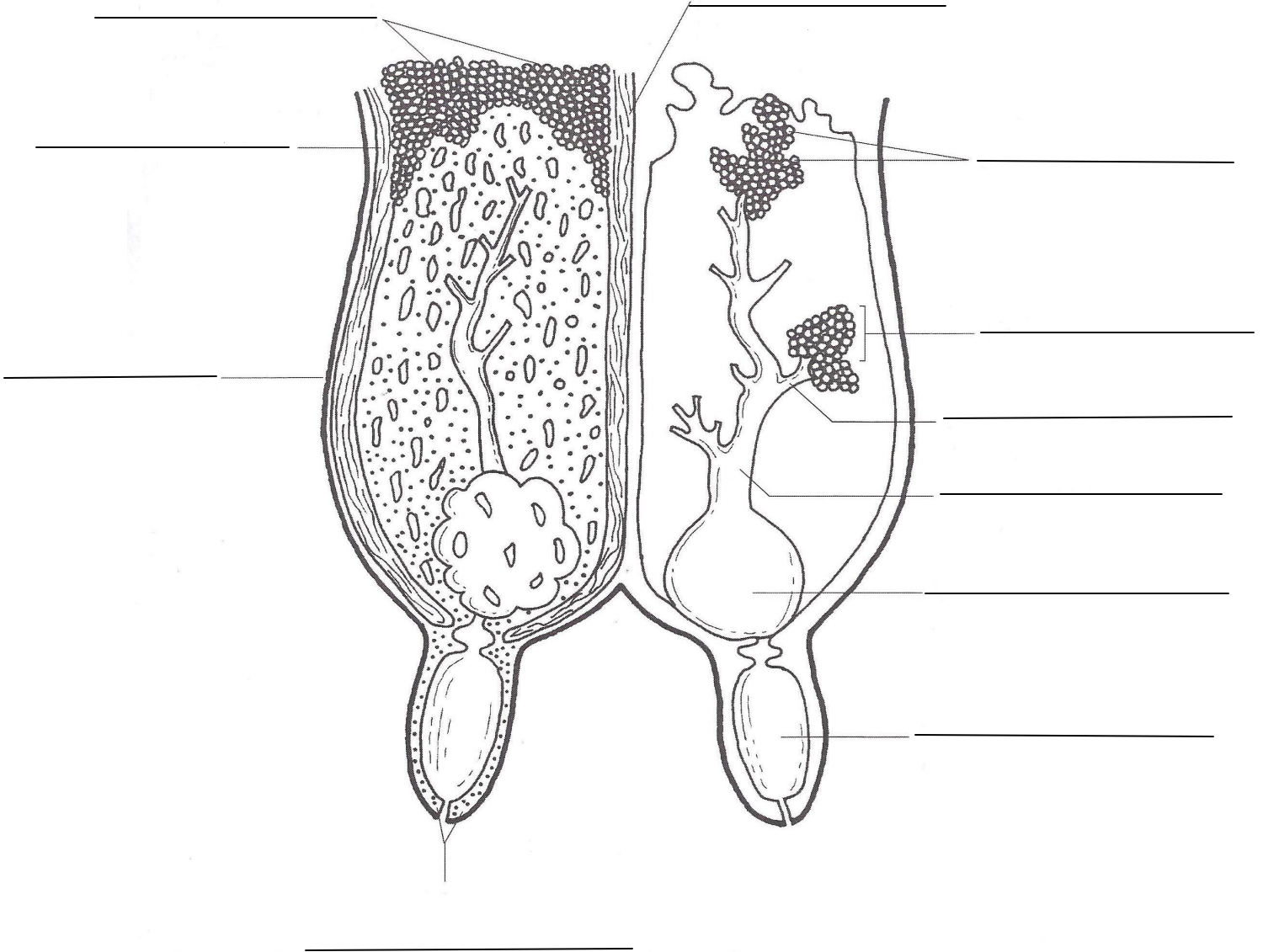
6. What have you seen or heard about that you think was an unethical practice in relationship to showing an animal?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Mammary Anatomy



**WRITE THE CORRECT NAME OF THE PART ON THE LINE IN THE ABOVE DIAGRAM**

Alveolar duct

Gland cistern

Skin

Alveoli

Lateral suspensory ligament

Sphincter muscle

Collecting duct

Lobule

Teat cavity

Fat

Medial suspensory ligament

## **4-H INFORMATION**

(as this is a 4-H project, you should know the following information)

### **The 4-H Pledge**

I pledge....

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**The 4-H Motto:** \_\_\_\_\_

**Showmanship:** (list 1 quality of a good show person)

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**What were 2 ways you helped or taught others this year** (4-H is about helping others as well as bettering yourself):

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## **Dairy Project Photos**

1. Be creative. The more photos, the better! You are encouraged to be in the photo with your Dairy project animal(s).
  - You should also include the date of your photograph by, or on it.
  - Captions also help the judge understand what the picture represents.