Dairy Project
Record Book
Senior (Age 15 – 19)
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, martial 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: __________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

___________________________________________________________________________

2. (2017)
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 30%
B. Creative way of showing what you have learned 10%
C. Notebook contains all project records 50%
D. Accuracy, neatness and general appearance 10%

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: __________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

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):
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

What are your goals for this year’s dairy project? ________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
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:_______________________________________________________________________________________
________________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________________
Record pedigree information for each of your project animals. Information may include registration numbers, production records, classification scores, awards, and sire summary information.

(If you only have 1 animal, remove the additional management records pages)
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PEDIGREE CHART:
**Management Records**

Fill out 1 of these pages per dairy project

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

<table>
<thead>
<tr>
<th>Name:</th>
<th>Breed:</th>
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<tbody>
<tr>
<td>Date of Birth or Age:</td>
<td>RFID (required)</td>
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</table>

- 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**

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**Dairy ANIMAL Record of Care**

Fill out 1 of these forms for each dairy animal you exhibit
*(if you only have 1 animal, remove the additional record of care pages from the notebook)*

Animal(s) Name/I.D.# _____________________________________

** It will be assumed that you walked & fed your animal, but what additional things have you done such as; washed, clipped, trimmed, foot care, health practices, medicines, halter breaking, training, had vaccinated, etc. **

<table>
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<tr>
<th>Starting Date of Week</th>
<th>Care Given</th>
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Dairy FARM Work Record

Record all of the work you completed for the farm that your dairy project is raised on. For example: What are your responsibilities besides taking care of your 4-H dairy animal?

<table>
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<tr>
<th>Date(s)</th>
<th>Description of Work Completed</th>
<th>Number of Hours Spent On Task</th>
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- If your animal(s) being raised on your own property, please have your parent or guardian sign acknowledging that you provided the care to the animal(s) and completed the dairy work as recorded.

- If you are borrowing an animal from someone else, have the owner sign acknowledging that you provided the care to the animal(s) and completed the dairy farm work as recorded.

I, ________________________________, do attest and certify that this 4-Her cared for this Animal in a responsible manner while housed on my property and completed the works/tasks listed above. I also understand that integrity and responsibility are important to the 4-H experience.

______________________________________________  __________________
Signature of Property Owner  Date

or parent if raised at own farm
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: ________________________________.
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%**

   __________________________
   __________________________
   __________________________
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   __________________________
   __________________________

4. **Udder– 40%**

   __________________________
   __________________________
   __________________________
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DAIRY KNOWLEDGE

What is a pedigree and what information is usually found in a pedigree for a dairy animal?
_________________________________________
_________________________________________
_________________________________________
_________________________________________
How old should a calf be before it is weaned?  _______________________

Describe the housing and environment your animal was raised in.  _______________________
_________________________________________
_________________________________________
_________________________________________
Describe the grain ration(s) you used and list the main ingredients in each.  ________________
_________________________________________
_________________________________________
_________________________________________
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?  ____________________________

A normal healthy rumen should turn over how many times per minute?  ________________

List 5 major dairy breeds:  ___________________________,  _____________________________,
_____________________________,  ___________________________,  ________________________

What is the term for how well cows convert feed into milk?  ____________________________

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?
   __________________________________________________________________________________
   __________________________________________________________________________________
   __________________________________________________________________________________
WRITE THE CORRECT NAME OF THE PART ON THE LINE

The Ruminant Digestive System

BOVINE (CATTLE) MAMMARY GLAND

WRITE THE PART ON THE CORRECT LINE IN THE DIAGRAM:

- ALVEOLI
- CONNECTIVE TISSUE
- DUCTS
- GLAND CISTERN
- LOBE
- LOBULE CONTAINING ALVEOLI
- MAJOR DUCT
- TEAT CISTERN
- TEAT MEATUS
<table>
<thead>
<tr>
<th>Disease</th>
<th>Symptoms</th>
<th>Treatment</th>
<th>Cause</th>
<th>Prevention</th>
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<tbody>
<tr>
<td>Coccidiosis</td>
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<td>Pneumonia (viral or bacterial)</td>
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<td>Grass Tetany</td>
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<td>Lice</td>
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<td>Mastitis</td>
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**4-H INFORMATION**

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

**The 4-H Pledge**

I pledge....

___________________________________________________________________________.

___________________________________________________________________________.

___________________________________________________________________________.

___________________________________________________________________________.

___________________________________________________________________________.

___________________________________________________________________________.

The 4-H Motto:

___________________________________________________________________________.

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

___________________________________________________________________________.

___________________________________________________________________________.

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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<thead>
<tr>
<th>DATE:</th>
<th>LOCATION:</th>
<th>SIGNATURE OF LEADER:</th>
<th>NOTES: (anything that you may want to remember about this meeting)</th>
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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.