Dairy Project
Record Book
Senior (Age 15 – 19)
2018

Name: ____________________________________________________

4-H Club: __________________________________________________

4-H Leader: ________________________________________________

Age as of (1/1/18) _______ 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

1.
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. (2018)
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? _______________________________________

__________________________________________________________________________________

__________________________________________________________________________________
PARTS OF A DAIRY COW
(WRITE THE NAME OF THE PART NEXT TO THE CORRECT NUMBER BELOW)

*Courtesy OSU Dairy Learning Laboratory Kit

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. _______________________________

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

5. (2018)
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 (what would you change if you could): ____________________
______________________________________________________________________________________
______________________________________________________________________________________
______________________________________________________________________________________

VACCINATION RECORD

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<th>DATE</th>
<th>VACCINE</th>
<th>REMARKS</th>
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PEDIGREE CHART: 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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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.

7 (2018)
**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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<th>Date of Birth or Age:</th>
<th>RFID (required)</th>
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- What housing/shelter does your animal have?

- What type of feed(s) do you use for your project animal?

- Do you milk your own dairy project? If so, how often? If someone else milks your dairy project, how often do they do so?

- 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)*

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- How often do you clean the pen/barn your animal stays in? How do you do this?
**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>
<thead>
<tr>
<th>Starting Date of Week</th>
<th>Care Given</th>
<th>Care Giver</th>
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</thead>
<tbody>
<tr>
<td>EX: 12/1/2017</td>
<td>Worked on leading with a halter</td>
<td>Me</td>
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</table>

Dairy ANIMAL Record of Care

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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? Do you help feed the animals, water the animals, clean the pens, help with other animals, etc. Even if it is your parent’s farm, you should have chores.

<table>
<thead>
<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

Name two external parasites of cattle: ______________________, _________________________

Name two internal parasites of cattle: ________________________, _________________________

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

Is grain or forage more important in rumen development and proper calf nutrition? _______

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: ____________________________, ____________________________, 
________________________, ________________________, ________________________________.

Name 4 of the 6 classes of nutrients in a feed program: ________________________________,
______________________________, ________________________, ____________________________.
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%
DEGREE OF DISCRIMINATION

Write the appropriate letter on the line that defines the defect.

Are the following defects:
no discrimination (N), slight to serious discrimination (S), or disqualification (D)

- Blindness in one eye
- Total Blindness
- Wry Face
- Cropped Ears
- Parrot Jaw
- Overconditioned
- Freemartin Heifers
- Weak Udder Attachment
- Blind quarter (udder)
- Side Leak (udder)
- Lack of Size
- Lameness (apparently permanent & interfering with normal function).
- Toe Out
- Signs of tampering to conceal faults in conformation
- Weak Pastern
- Capped Hip (that does not effect mobility)
- Winged Shoulders
- Evidence of fluid in hocks
- Wry Tail
- Temporary or minor injuries (blemishes or injuries of a temporary character not affecting animal’s usefulness.

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?
   ______________________________________________________________________________
   ______________________________________________________________________________
   ______________________________________________________________________________
Your ideal Cow or Heifer

If you owned your own dairy farm:
What would be your ideal breed and why: ________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

Your ideal cow heifer would look /be built how: __________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

Problem Solving

Assume the milk market is struggling. Come up with an idea that marketers could use to encourage people to buy more milk:
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

Your dairy animal has milk fever. What causes milk fever and what symptoms might the animal show? What is a proper treatment for this disease?
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
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You’ve always wanted to work in the dairy industry, whether it be a dairy farmer or another type of career that may relate to a dairy career. What is it and why might it interest you?
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
WRITE THE CORRECT NAME OF THE PART ON THE LINE

The Ruminant Digestive System

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></th>
<th>Symptoms</th>
<th>Treatment</th>
<th>Cause</th>
<th>Prevention</th>
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<tr>
<td><strong>Diarrhea (Scours)</strong></td>
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<td><strong>Foot rot</strong></td>
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<td><strong>Mastitis</strong></td>
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<td><strong>Ringworm</strong></td>
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<td><strong>Udder Edema</strong></td>
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<td><strong>Bloat</strong></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.