



## Barry County 4-H

# Senior Dairy Project Record Book Ages 15 - 19

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

Address: \_\_\_\_\_

Name of 4-H Club: \_\_\_\_\_

Project Leader Name: \_\_\_\_\_ Years in project: \_\_\_\_\_

A Dairy Notebook is required for all Dairy projects. Notebooks must be presented by the exhibitor for judging at the fair during Non-Livestock judging. Failure to present a notebook for judging will disqualify dairy animal from participating in the Barry County Fair and receiving funds from the Gallon of Milk. In the event of extenuating circumstances, another 4-H member may present the notebook for judging with an absentee form and can result in a lower award.

The notebook must include proof of contact to three sponsors of the Gallon of Milk.

Notebook may be typed or handwritten in neat and clear penmanship. Your notebook should be displayed in a hard cover notebook that contains each year's notebook from the time you started exhibiting a 4-H Dairy project.

Project pictures are a required part of the notebook.

**Please Note:** Records must be kept on EACH animal exhibited at the fair. All records cover the lifetime of the animal. Pages 6, 7 & 8 of this notebook are one set. Additional pages may be copied and added as needed. If a page or area does not apply to your animal, write **Does Not Apply** in the blank or area.

### **First Year Questions**

1. List the five components of milk.
2. What does USDA stand for?
3. What does DHIA stand for?
4. What are the parts of the Mammary gland in a dairy cow?

### **Second Year Questions**

1. The female reproductive system has two major roles, what are they?
2. List a few breed characteristics of Holstein, and why they would be good in a dairy herd.
3. What are some of the signs of Estrus(heat)?
4. Name three ways that female dairy animals can be bred.

### Third Year Questions

1. What does AI stand for?
2. List a few breed characteristics of Brown Swiss, and why they would be good in a dairy herd.
3. What is the primary function of the ovaries?
4. Name the major organs of the male dairy animal reproductive system.

### Fourth Year Questions

1. List the breed characteristics of Jersey and why they would be good in a dairy herd.
2. List the percentages for each of the five major classifications on the Dairy Cow Unified Score Card.
  - a) Frame \_\_\_\_\_
  - b) Dairy Strength \_\_\_\_\_
  - c) Rear Feet and Legs \_\_\_\_\_
  - d) Udder \_\_\_\_\_
3. What is the primary function of the uterus and the cervix?
4. List some of the possible reproductive problems that can occur in dairy animals and what may cause them and how to prevent or treat.

## Fifth Year

List the percentage attributed to each of the traits below, and major criteria's for each on the PDCA Dairy Cow Unified Scorecard.

1. Frame

2. Dairy Strength

3. Rear Feet and Legs

4. Udder

## **Project Story**

The project story should be a summary of what you have learned from your dairy experience. It might include past awards, interesting experiences, club stories, show experiences, etc. These are only suggestions. Remember, you can explain a lot of things in your Project Story. Additional pages may be added if necessary.

## Management Records

(One record for each animal you are showing at fair)

<b>Name</b>	<b>Breed</b>	<b>Control or ID Number</b>
<b>Date of Birth</b>	<b>Birth Weight</b>	<b>Registration Number (if registered)</b>
<b>Calfhood Vaccination</b>	<b>Date Purchased</b>	<b>Tattoo</b>
<b>Date:</b> _____ <b>Ear Tag #</b> _____		<b>Left:</b> _____ <b>Right:</b> _____
<b>RFID #</b> _____		

## Health and Veterinary Record

Update each year for each animal

<b>Date</b>	<b>Problem:</b> Dehorn, Extra Teats Removed, Diseases, Ringworm, Warts, Vaccinations, Health Checks, etc.	<b>Treatment and/or Remarks</b>

# Pedigree

(Sire)	(Grand Sire)
	(Grand Dam)

(Dam)	(Grand Sire)
	(Grand Dam)

## Records of Production on Cow

<u>Date</u>	<u>Age</u>	<u>Days</u>	<u>Milk</u>	<u>% Fat</u>	<u>Fat</u>	<u>% Protein</u>	<u>Protein</u>
<u>Fresh</u>							


## Breeding & Calving Record

### Breeding Record

	Date in heat before breeding	Date in heat before breeding	Date Bred	Date Bred	Date Bred	Date Bred	Breeding Fees*	Service Sire, Name or ID	Date Due
1st Calving									
2nd Calving									
3rd Calving									
4th Calving									

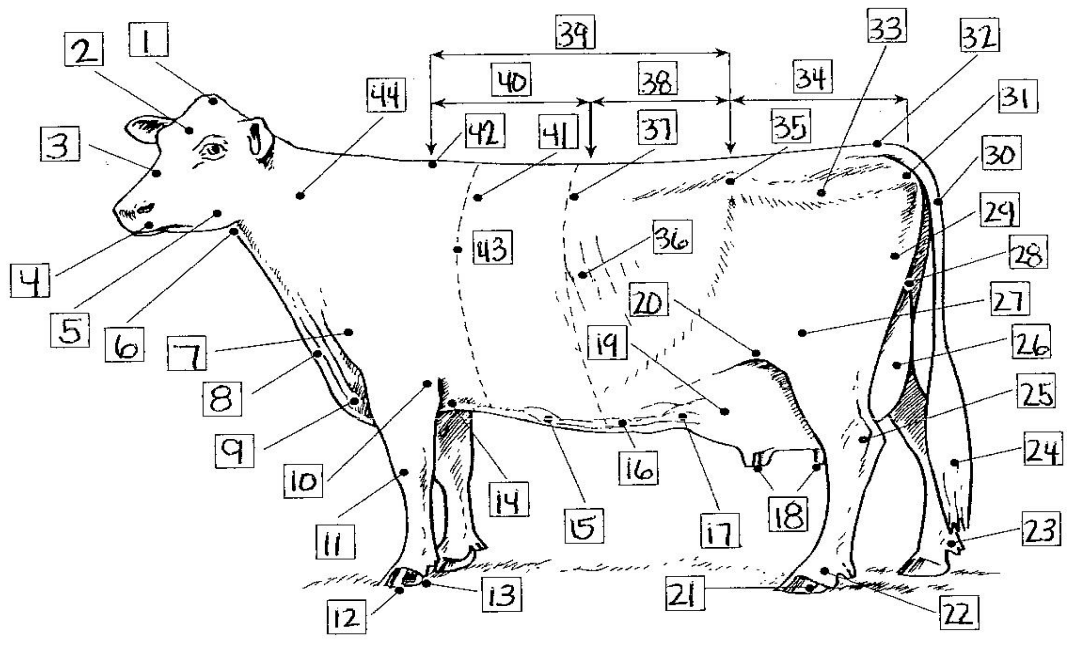
Total Breeding Fees: \$ -

\*In breeding fees, include semen costs, technician fees, synchronization expenses, breeding supply expenses.

### Calving Record

	Date of Calving	Male or Female	Calf ID	Calf Name	Date Bred	Comments (sold, calving difficulties, calf description, etc.)
1st Calving						
2nd Calving						
3rd Calving						
4th Calving						





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- 2 \_\_\_\_\_
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- 42 \_\_\_\_\_
- 43 \_\_\_\_\_
- 44 \_\_\_\_\_

### Feed Knowledge

Answer the following questions relating to feeding of dairy animals.

1. After colostrums, what do you feed, for how long and why?
2. After weaning your calf, what feeding program will be continued?
3. What part of a heifer's ration should be changed once she becomes bred and why?
4. Do the nutrient requirements for lactating cows stay the same throughout their lactation? Why or why not?
5. List 3 minerals and tell what their purpose is, (add new minerals each year).

**Show Classes**

Fill in the blank with the Class title that matches the Class age.

<b><u>Class Title</u></b>	<b><u>Class Age</u></b>
_____	Born on or after March 1 this year.
_____	Born previous Dec, Jan, Feb, this year.
_____	Born Sept, Oct, Nov previous year.
_____	Born June, July, August previous year
_____	Born March, April, May previous year
_____	Born Dec (year before last) Jan, Feb of previous year.
_____	Born Sept, Oct, Nov (year before last)

**Members Note:** Notice *how you work backwards for their age for each year. It may help you understand and remember the classes. It is very important that you become familiar and learn each class. When purchasing an animal for the showing, the younger the calf, the more important it is to purchase one that is at the beginning age of its class. Size isn't the only thing that matters but it is important. Some judges don't take the time to ask their age or make it important as to where he places you.*

State the age class of your showmanship animal and why you chose that age animal.

**Diseases:**

Pick a disease: list its cause, characteristics and treatment (add a new disease each year).

**Disease**

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

Characteristics & Treatment: \_\_\_\_\_

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