

Barry County 4-H Intermediate Dairy Project Record Book Ages 12 - 14



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 4, 5 & 6 of records must be kept for each animal. One set is included in this form. Additional pages relating to your project animal may be copied and added if necessary. If a page or area does not apply to your animal, write **Does not apply** in the blank area.

Records Questionnaire

(Questions refer to the farm or herd where your cow/calf is regularly housed.)

How many cows does the farm where your animal comes from have? _____

Total number of heifers and calves on farm? _____

What percent of the herd are registered animals? _____

Are the registered animals on a classification program? _____

Is the herd on any testing program? _____

If yes above, which program? _____

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. Use additional pages to add pictures of your project and your 4-H experiences.

Management Records

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

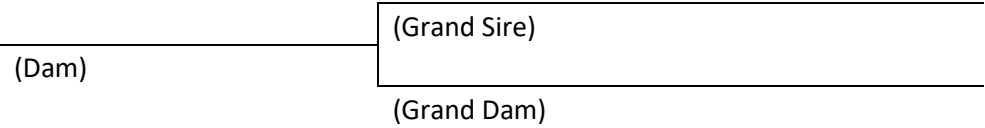
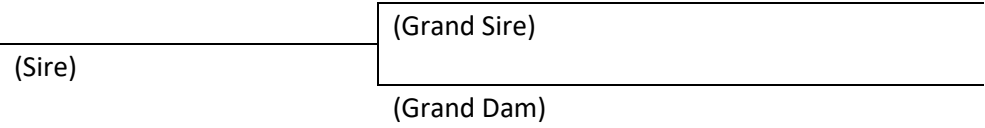
| | | |
|-------------------------------|-----------------------|--|
| Name | Breed | Control or ID Number |
| Date of Birth | Birth Weight | Registration Number (if registered) |
| Calfhood Vaccination | Date Purchased | Tattoo |
| Date: RFID # | Ear Tag # | Left: Right: |

Health and Veterinary Record

Update each year for each animal

| Date | Problem: Dehorn, Extra Teats Removed, Diseases, Ringworm, Warts, Vaccinations, Health Checks, etc | Treatment and/or Remarks |
|-------------|--|---------------------------------|
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Pedigree



Records of Production on Cow

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

Feed Record

1. What types of feed and how much does a heifer eat from birth through one (1) year of age?
2. What types of feed and how much does a heifer eat from one (1) to two (2) years of age?
3. What types of feed and how much does the average mature **Lactating** cow eat **Per Day**?
4. What types of feed and how much does the average mature cow eat during one (1) Year?
5. What nutrients are in Feed; What benefit do they provide; What types of food provide each type of nutrient?
 1. Protein – growth, repairs body tissues, milk production, can get from oil meals, legume hays, and immature grasses.
 2. _____
 3. _____
 4. _____
 5. _____

Show Classes

Draw a line to Match the class titles with the appropriate age class.

| <u>Class Title</u> | <u>Class Age</u> |
|------------------------|---|
| Spring Heifer Calf | Born after March 1 this year |
| Winter Yearling Heifer | Born previous Dec, Jan, Feb this year |
| Fall Heifer Calf | Born Sept, Oct, Nov previous year |
| Summer Yearling Heifer | Born June, July, Aug, previous year |
| Fall Yearling Heifer | Born Mar, April, May previous year |
| Spring Yearling Heifer | Born Dec (year before last) Jan, Feb of previous year |
| Winter Heifer Calf | Born Sept, Oct, Nov year before last |

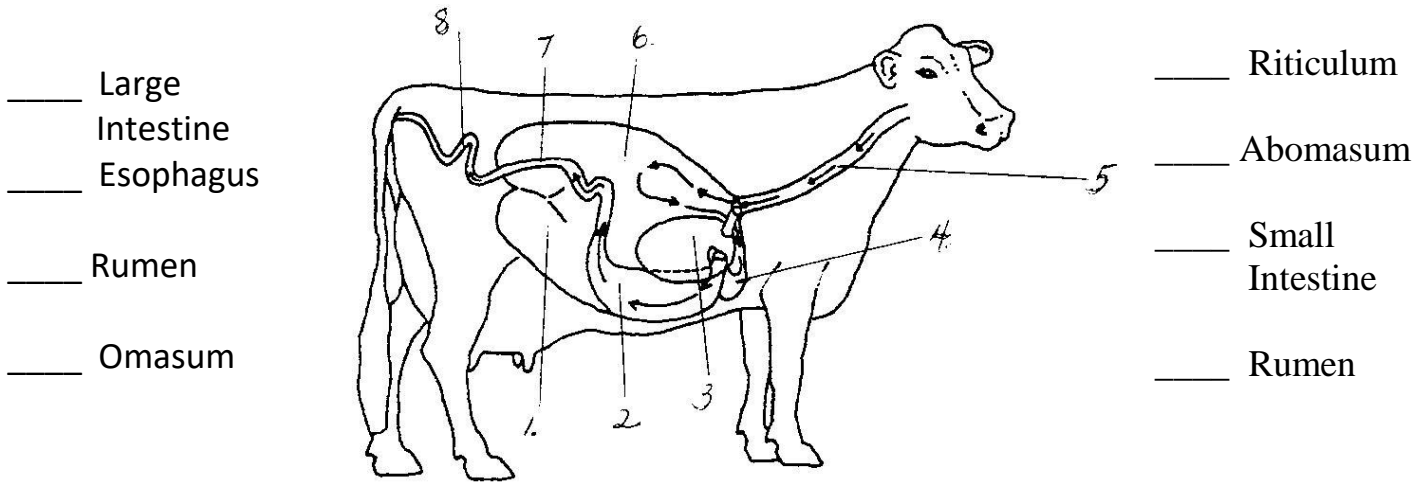
Members Note: *Notice how you work backwards for their age for each year. It may help you understand and remember the classes. It is very important that you become familiar and learn each class. When purchasing an animal for the show, the younger the calf, the more important it is to purchase one that 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.

Bovine Digestion

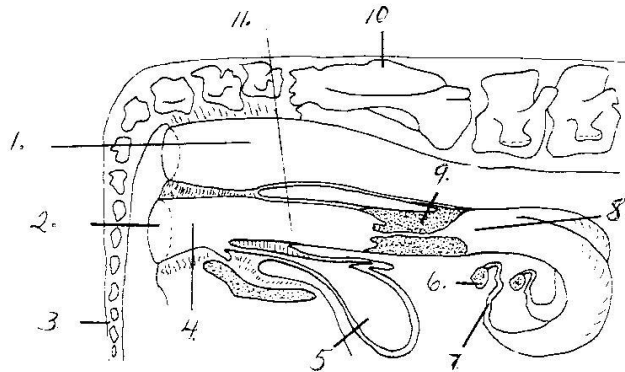
All Ages

Fill in the blank with the matching number



Female Reproductive Parts

Ages 13 & 14

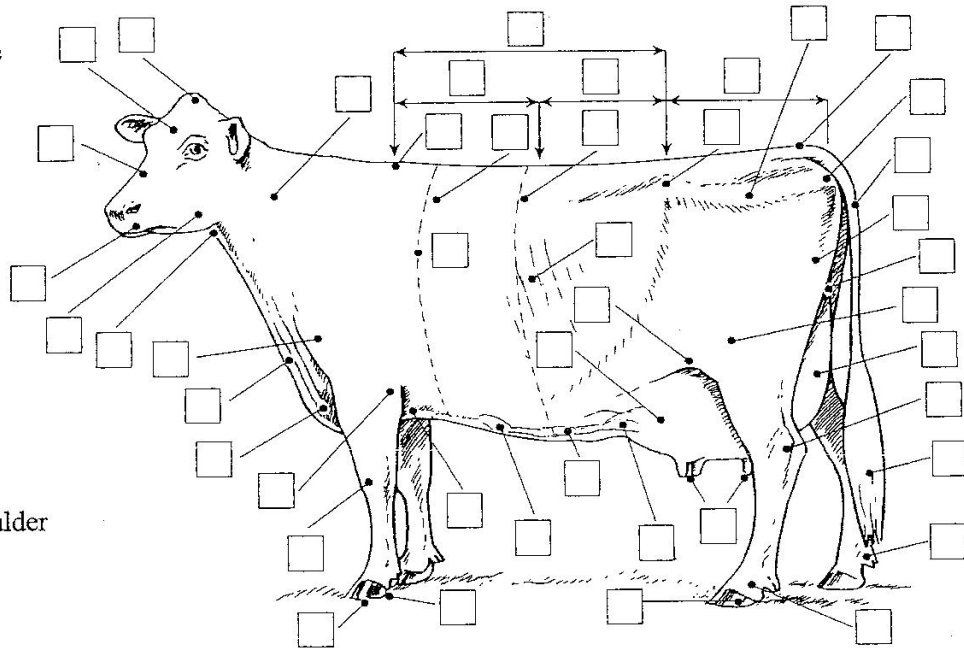


Fill in the blank with the name of each part

- | | |
|-----------|-----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |
| 11. _____ | |

Body Parts

1. Poll
2. Pin Bones
3. Tail
4. Forehead
5. Neck
6. Tailhead
7. Bridge of Nose
8. Thurl
9. Thigh
10. Stifle
11. Heel
12. Rump
13. Muzzle
14. Rear Udder Attachment
15. Jaw
16. Hip
17. Dewclaw
18. Throat
19. Heart Girth
20. Point of Shoulder
21. Ribs
22. Dewlap
23. Barrel
24. Teats
25. Point of Elbow
26. Brisket
27. Rear Udder
28. Loin
29. Knee
30. Sole
31. Back
32. Chest Floor
33. Pastern
34. Chine
35. Milk Wells
36. Flank
37. Crops
38. Fore Udder



39. Milk Veins
40. Withers
41. Fore Udder Attachment
42. Hock
43. Switch
44. Hoof

All Ages do All Parts.

Dairy Questions

Age 12

1. Milk contains what body builder?
2. Large silver-brown dairy breed?
3. Cow's first milk?
4. What process kills harmful bacteria in milk?
5. Dairy breed from Scotland?
6. What breaks up milk fat?
7. What organ that produces milk?

Age 13

1. Which dairy breed generally has the highest level of milk production?
2. An inflammation or infection of the mammary gland is called?
3. What causes milk fever and what symptoms might the animal show?
4. What process removes sediment from milk?
5. The addition of nutrients to milk is called?

6. What is the gestation period of a female dairy animal?

Age 14

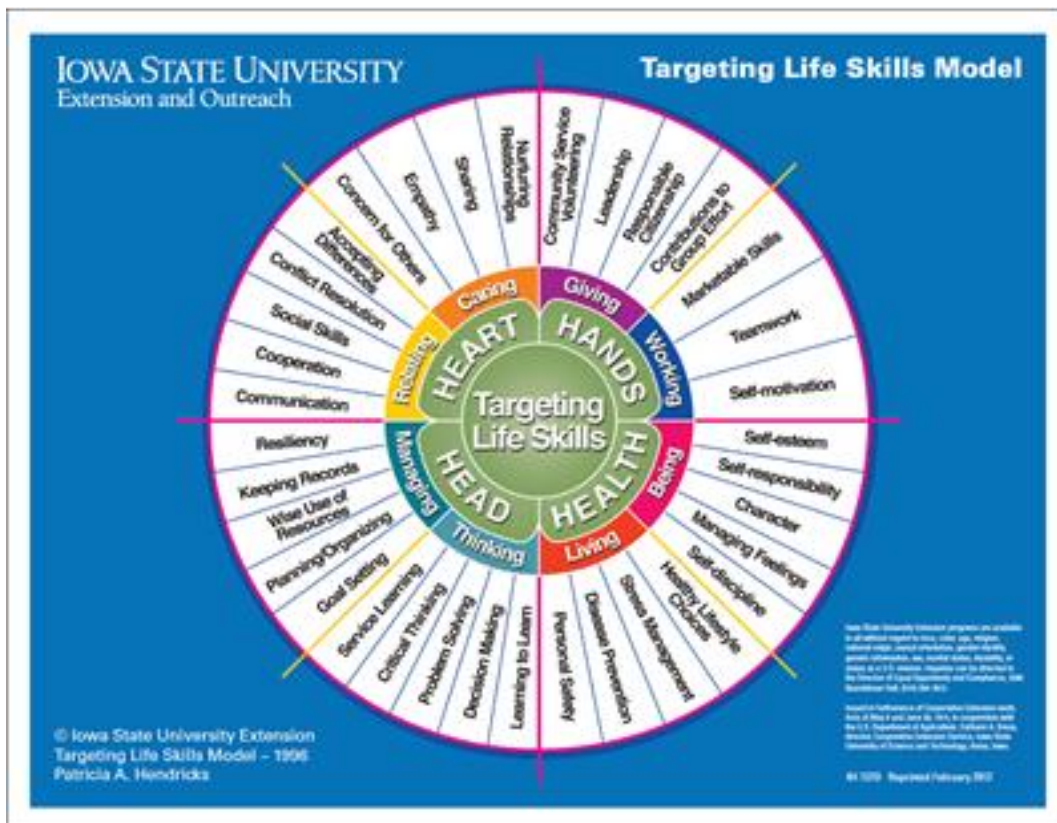
1. Describe a ruminant animal.

2. What is the average body temperature of a cow?

3. Name two dairy breeds and explain why a dairy farm might choose one over the other?

4. Why did you choose the animal(s) you chose? What were their good points and what would you change about them if you could?

5. What goal(s) are you hoping to achieve with your 4-H Dairy project and/or 4-H involvement?



4-H Life Skills

Using the Targeting Life Skills model on the right, pick one life skill and talk about how 4-H has helped to build that skill. Pick a new skill for each year.