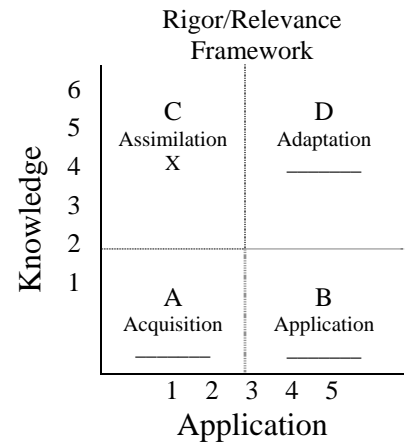


**Dairy Cattle Evaluation
Body Capacity
Lesson 6**

Area and/or Course: Animal Science/Dairy

Teacher Goal(s):

1. Students to gain exposure to the components of body capacity.
2. Students to understand why body capacity is important in the assessment of dairy cattle.
3. Students to have the ability to describe body capacity using proper terminology.



Lesson Title: Body Capacity

The student will be able to (TSWBT). (OR Skill Set numbers in parentheses at the end of the objective statement.)

1. Master the parts of the dairy cow. (AGPC 01.05.04.01)
2. Demonstrate understanding of body capacity in relation to dairy cattle evaluation. (AGPC 01.05.04.02)
3. Gain experience in terms related to body capacity to be used for oral reasons. (AGPC 01.05.04.04)

CIM/CAM Standard met by Objectives:

<u>Page</u>	<u>Category</u>	<u>Subject</u>	<u>Common Curr. Goal</u>	<u>Benchmark & Number</u>
1. E-20	English	Communication	Tech. Speak	10:1
2. S-6	Science	Life Science	Organisms	8:1,4
3. S-8	Science	Life Science	Heredity	8:1,2,3

Materials, Equipment, Audio-visual aids:

1. Power Point
2. Dairy Breeds Quiz
3. Class handout
4. Reasons note page

References:

1. Hoards Dairyman
2. American Jersey Cattle Club
3. Holstein Foundation
4. Oregon State University Dairy Cattle Evaluation Extension Publication
5. World Holstein Friesian Association

Quiz on feet and legs

Review Yesterday's Lesson:

During our last meeting, we talked about feet and legs and why they are important in reference to evaluation. What are the 4 components of feet and legs?

1. Feet
2. Hock
3. Pasterns
4. Rear legs

What are the two different views we use to evaluate rear legs?

At this time we will give our reasons from our last meeting when we placed the classes using feet and leg traits.

Set:

Today we will be covering the last of the 5 traits. Does anyone know what it might be?

Why is body capacity important?

If you were to think about body capacity in conjunction with what you have already learned, what might some components of body capacity be?

1. Chest
2. Barrel

Summary:

At the completion of the class today, you will be able to:

- 1 Describe the components of body capacity.
2. Understand why body capacity is an important part of the assessment of dairy cattle.
3. Describe body capacity using proper terminology.

<p>5. Chest</p> <ul style="list-style-type: none"> a. Deep and wide floor b. Well sprung fore ribs blending into the shoulder <p>6. Trait Pictures</p> <p>7. Body Capacity Terms</p> <ul style="list-style-type: none"> a. She is deeper through her heart, fore & rear rib. b. She shows more openness of rib when viewed from side & more spring of rib when viewed from the rear. c. She shows more length, depth and overall capacity to her barrel. <p>8. Body Capacity Terms</p> <ul style="list-style-type: none"> a. More width and strength throughout b. More width and strength in the chest c. Fuller behind the shoulders d. Deeper in the chest <p>9. Body Capacity Terms</p> <ul style="list-style-type: none"> a. More spring of rib b. More spring of fore rib c. Deeper in the barrel d. Fuller in the heart <p>10. Body Capacity Terms</p> <ul style="list-style-type: none"> a. Wider through the chest floor b. Deeper in the rear rib 	<p>Q: Where is the chest floor measured?</p> <p>A: Between the front legs.</p> <p><i>Picture on right is ideal.</i></p> <p>Q: What other trait talked about strength?</p> <p>A: Frame</p> <p>Q: What other trait included fullness behind the shoulder?</p> <p>A: Frame-Crops</p>
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c. A stronger, more powerful cow

11. Body Capacity Terms

- a. A cow with more strength and power
- b. More powerful through the front end

12. Summary

- a. What are the 2 components of body capacity?
- b. Why is body capacity important?

13. Time to Practice

- a. Place the following classes
- b. Take notes and prepare reasons

14. Placing

- Brown Swiss
 - 1-3-4-2 with cuts of 2-5-2
- Guernsey
 - 4-1-2-3 with cuts of 3-1-3

1. Barrel

2. Chest

Allows room to store, eat, digest food.

You will find scores based off of various placings in the back of the Instructor Manual under “Contest #1”.

Closure: Summary or Conclusion

(Go back through the pictures for a review of identification)

Body capacity is important in that it dictates the animals' ability to consume large quantities of forage. This is the last of our evaluation lessons. Our next and final lesson will be on Linear Evaluation.

Evaluation: (Authentic Forms of Evaluation, Quizzes, Written Exam – something you grade).

<u>Item</u>	<u>Obj. Number</u>
1. Complete the quiz	1-3

Assignments: (Student Activities involved in lesson/designed to meet objectives but not graded).

<u>Item</u>	<u>Obj. Number</u>
1. Complete the handout	1-3

Attachments:

1. Quiz
2. Class handout
3. Power Point
4. Reasons notes handout