2024 Herdsman Practicum and Quiz
Study Guide and Answer Sheets
**Rules**

Junior, intermediate and seniors will complete sections as noted in the following pages of this document.

Tie breakers will be determined based on the individual components of the contest starting with:

1. Quiz Score
2. Overall Practicum
3. Stalling Area
4. Feedstuff
5. Equipment

If a tie still exists after each tiebreaker, a scenario question relating to the beef industry will be administered after the quiz/practicum is completed.

References are found in this packet.

Either photographs or actual items will be used in the practicum.
1. Practicum

A. Beef (external, wholesale and retail cuts) Identification

The following charts highlight the external, wholesale and retail meat cuts.

**Responsibility:**
- **Juniors** – External Parts of the Beef Animal
- **Intermediates** – External Parts of the Beef Animal and Wholesale Cuts
- **Seniors** – External Parts of the Beef Animal, Wholesale Cuts of Beef and Retail Cuts of Beef

Figure 1. External Parts of the Beef Animal
Examples of each cut can be found at the following site:

https://edis.ifas.ufl.edu/pdf%5C4H%5C4H38000.pdf

<table>
<thead>
<tr>
<th>Section</th>
<th>Examples</th>
</tr>
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<tbody>
<tr>
<td>Chuck</td>
<td>Blade Roast, 7 Bone Steak, 7 Bone Roast, Mock Tender Steak, Mock Tender Roast, Chuck Eye Roast Boneless, Flat Iron Steak</td>
</tr>
<tr>
<td>Rib</td>
<td>Rib Roast, Large End, Rib Steak, Small End, Rib Eye Steak, Rib Eye Roast</td>
</tr>
<tr>
<td>Loin</td>
<td>T-bone Steak, Porterhouse Steak, Top Sirloin Steak Boneless, Tenderloin Steak Boneless, Tri-Tip Roast</td>
</tr>
<tr>
<td>Round</td>
<td>Bottom Round Steak, Bottom Round Roast, Top Round Steak, Top Round Roast, Rump Roast Boneless, Eye Round Steak</td>
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<tr>
<td>Shank</td>
<td>Cross Cuts, Cross Cuts Boneless</td>
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<tr>
<td>Brisket</td>
<td>Brisket Whole Boneless, Flat Half, Brisket Corned</td>
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<tr>
<td>Plate</td>
<td>Short Ribs, Skirt Steak</td>
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<tr>
<td>Flank</td>
<td>Flank Steak</td>
</tr>
<tr>
<td>Variety</td>
<td>Tongue, Liver, Heart, Kidney, Ox Tails</td>
</tr>
<tr>
<td>Other</td>
<td>Hamburger, Cubed Steak, Beef For Stew</td>
</tr>
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</table>

Figure 2. Wholesale Cuts of the Beef Animal
B. Beef Breeds, Origins and Important Characteristics

Responsibility:
Juniors – Beef Breed Identification
Intermediates – Beef Breed Identification and Origin
Seniors – Beef Breed Identification, Origin and Characteristics/Traits

<table>
<thead>
<tr>
<th>Breed</th>
<th>Type</th>
<th>Origin</th>
<th>Characteristics/Traits</th>
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</thead>
<tbody>
<tr>
<td>Angus</td>
<td>English</td>
<td>Scotland</td>
<td>1. Known for their carcass quality, milking, mothering, and reproductive ability</td>
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<tr>
<td></td>
<td>Bos Taurus</td>
<td></td>
<td>2. Early maturing, high marbling</td>
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<td></td>
<td></td>
<td></td>
<td>3. Polled, black, smooth coat</td>
</tr>
<tr>
<td>Red Angus</td>
<td>English</td>
<td>Scotland</td>
<td>1. Same as Angus with the only difference being color</td>
</tr>
<tr>
<td></td>
<td>Bos Taurus</td>
<td></td>
<td>2. Polled, red, smooth coat</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3. Because it is red, it can tolerate warmer temperatures compared to angus</td>
</tr>
<tr>
<td>Shorthorn</td>
<td>English</td>
<td>England</td>
<td>1. Noted for their good disposition and mothering and milking abilities</td>
</tr>
<tr>
<td></td>
<td>Bos Taurus</td>
<td></td>
<td>2. Have been used in the bloodlines of more than 30 other recognized beef breeds</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3. Can be red, white, or roan in color</td>
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<tr>
<td>Hereford</td>
<td>English</td>
<td>England</td>
<td>1. Known for their foraging ability, vigor, hardiness and quiet dispositions</td>
</tr>
<tr>
<td></td>
<td>Bos Taurus</td>
<td></td>
<td>2. White faces and red bodies</td>
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<tr>
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<td></td>
<td>3. White face is a dominant gene when crossbreeding</td>
</tr>
<tr>
<td>Polled Hereford</td>
<td>English</td>
<td>United States</td>
<td>1. Same as Hereford without horns</td>
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<tr>
<td>Charolais</td>
<td>Continental</td>
<td>France</td>
<td>1. Noted for their fast growth and lean meat</td>
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<tr>
<td></td>
<td>Bos Taurus</td>
<td></td>
<td>2. Heavy muscled in the round and loin</td>
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<td>3. Large and white</td>
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<tr>
<td>Limousin</td>
<td>Continental</td>
<td>France</td>
<td>1. Noted for carcass leanness and large loin area</td>
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<td></td>
<td>Bos Taurus</td>
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<td>2. Solid-to golden-red in color with lighter circles around the eyes and muzzle</td>
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<tr>
<td>Simmental</td>
<td>Continental</td>
<td>Switzerland</td>
<td>1. Noted for their fast growth and milking ability</td>
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<tr>
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<td>Bos Taurus</td>
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<td>2. White to light straw faces with red to dark red, spotted bodies. Can also be black in color</td>
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<tr>
<td>Breed</td>
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<td>Country</td>
<td>Properties</td>
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<tr>
<td>Gelbvieh</td>
<td>Continental</td>
<td>Germany</td>
<td>1. General-purpose breed with good milking abilities</td>
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<tr>
<td></td>
<td>Bos Taurus</td>
<td></td>
<td>2. Medium weight and size, single colored, solid cream to reddish-yellow in color or black</td>
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<tr>
<td>Chianina</td>
<td>Continental</td>
<td>Italy</td>
<td>1. Known for working, mothering and beef producing abilities</td>
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<td></td>
<td>Bos Taurus</td>
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<td>2. Probably the largest breed of cattle in the world</td>
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<td></td>
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<td>3. White with black skin pigmentation</td>
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<td>Longhorn</td>
<td>Continental</td>
<td>Spain</td>
<td>1. Known for their longevity, hardiness, resistance to disease and parasites</td>
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<tr>
<td></td>
<td>Bos Taurus</td>
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<td>2. Long horns and different color patterns</td>
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<tr>
<td>American Brahman</td>
<td>India</td>
<td>United States</td>
<td>1. Known for its ability to withstand heat and insects</td>
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<tr>
<td></td>
<td>Bos Indicus</td>
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<td>2. Later maturing</td>
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<td>3. Very light grey, red to almost black</td>
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<td>4. Noted by having a distinctive hump and long ears, loose skin</td>
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<tr>
<td>Brangus</td>
<td>American</td>
<td>United States</td>
<td>1. Good mothering ability, feed efficiency and produce a desirable carcass</td>
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<td>Bos Indicus</td>
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<td>2. Solid black, polled, slight hump, short ears, loose skin</td>
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<td></td>
<td>3. 3/8 Brahman and 5/8 Angus</td>
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<tr>
<td>Santa Gertrudis</td>
<td>American</td>
<td>United States</td>
<td>1. Known for their growth rate, long life and hardiness</td>
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<td>Bos Indicus</td>
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<td>2. Developed on the King Ranch</td>
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<td>3. Cherry red, horned slight hump, loose skin</td>
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<td>4. 3/8 Brahman and 5/8 Shorthorn</td>
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</table>
Angus

Red Angus
Shorthorn

Hereford
Polled Hereford

Charolais
Limousin

Simmental
Gelbvieh

Chianina
Longhorn

American Brahman
Brangus

References:
1. 4-H Beef Resource Handbook (4-H 117R)
2. Modern Livestock and Poultry Production Text Book

Santa Gertrudis

BL
C. Livestock Equipment

Responsibility:

Juniors – Identify equipment
Intermediates – Identify equipment and how it is used
Seniors – Identify equipment and how it is used

References:
1. Nasco Farm & Ranch Catalog (Catalogs can be obtained free of charge from Nasco’s website)
   http://www.enasco.com/farmandranch/
2. Livestock Equipment slide set at http://bradford.ifas.ufl.edu

Equipment

1. Artificial insemination gun – Breeding/Reproduction
2. Bowl waterer – Feeding/Nutrition
3. Balling gun – Animal Health
4. Barnes dehorner – Animal Health
5. Fire branding iron – Identification
6. Cattle clippers – Grooming
7. Cow magnet – Animal Health
8. Currycomb – Grooming
9. Disposable syringes – Animal Health
10. Drench gun – Animal Health
11. Ear notcher – Identification
12. Ear tag applicator – Identification
13. Elastrator – Castration
14. Electric branding iron – Identification
15. Electric dehorner – Animal Health
16. Emasculatome (Burdizzo) – Castration
17. Emasculator – Castration
18. Fencing pliers – Farm Management
19. Foot trimming shears – Animal Health
20. Freeze branding iron – Identification
21. Hemostat – Animal Health
22. Implant gun – Feeding/Nutrition
23. Multi-dose syringe/pistol grip syringe – Animal Health
24. Nose lead – Animal Restraint
25. Bull nose ring – Animal Restraint
26. Obstetrical chain – Breeding/Reproduction
27. Obstetrical hooks – Breeding/Reproduction
28. Paint stick – Identification
29. Sweat scrape – Grooming
30. Tattoo pliers – Identification
31. Tube dehorner – Animal Health
32. Scotch comb – Grooming
33. Show stick – Exhibition
34. Beef weight tape – Feeding/Nutrition
35. Shoulder length gloves – Breeding/Reproduction
36. Ear tag – Identification
37. Clipper blade – Grooming
38. Blower dryer – Grooming
39. Grooming chute – Grooming
40. Show halter – Exhibition
41. CIDR – Breeding/Reproduction
42. Heat detector – Breeding/Reproduction
43. Fence stretcher – Farm Management
44. Needles (various gauges) – Animal Health
45. Liquid nitrogen tank – Breeding/Reproduction
46. Trocar – Animal Health
47. Lead rope – Exhibition
48. Feed bucket – Feeding/Nutrition
49. Feed scoop – Feeding/Nutrition

Equipment uses

A. Animal Health
B. Animal Restraint
C. Breeding/Reproduction
D. Castration
E. Exhibition
F. Farm Management
G. Feeding/Nutrition
H. Grooming
I. Identification
D. Feedstuffs Identification

Responsibility:
Juniors – All listed
Intermediates – All listed
Seniors – All Listed

References:
1. Feedstuff slide show

1. Alfalfa Hay
2. Bahia Grass
3. Bermuda Grass
4. Citrus Pulp
5. Clover
6. Corn
7. Cracked Corn
8. Cornmeal
9. Corn Gluten Pellets
10. Steam Flaked Corn
11. Whole Cottonseed
12. Cottonseed Meal
13. Cottonseed Hulls
14. Grain Sorghum
15. Ground Limestone
16. Liquid Limestone
17. Millet
18. Oats
19. Crimped Oats
20. Steam Rolled Oats
21. Rye
22. Salt
23. Soybean Hulls
24. Soybean Meal
25. Steam Rolled Barley
26. Trace Mineral
27. Triticale
28. Urea
29. Wheat
30. Wheat Bran
E. Weed ID

1. Nightshade - Toxic to Livestock

2. Tropical Soda Apple - Toxic to Livestock
3. Dogfennel- Not Toxic to livestock

4. Goatweed- Not Toxic to livestock
5. Thistles - Not toxic to Livestock

6. Horsenettle - Toxic to Livestock
7. Coffee Senna- Toxic to Livestock

8. Sicklepod- Toxic to Livestock
9. Sedges- Not Toxic to Livestock

10. Broomsedge- Not Toxic to Livestock
11. Smutgrass - Not Toxic to Livestock

12. Chinese Tallow - Toxic to Livestock
13. Pickly Pear Cactus- Not Toxic to Livestock

14. Vaseygrass- Not Toxic to Livestock
15. Chickweed- Not Toxic to Livestock

16. Spiny Pig Weed- Not Toxic to Livestock

Photo credit: University of Florida
17. Lantana - Toxic to Livestock

18. Fireweed - Toxic to Livestock
19. Red Sorrel - Toxic to Livestock

Red sorrel grows in acidic, low-nutrient soils and blooms in the spring. Photo credit: Carrie Stevenson, UF IFAS Extension

Up close, one can observe the delicate, pink, buckwheat-shaped flowers of a female red sorrel plant. The stem and leaves of this plant have a lemony flavor. Photo credit: Carrie Stevenson, UF IFAS Extension
20. Elderberry- Toxic to Livestock

Elderberry fruit. Photo Credit: Edward F. Gilman, UP/IFAS

Elderberry Leaves
### Weed ID Section on Test

<table>
<thead>
<tr>
<th></th>
<th>Juniors, Intermediate &amp; Seniors</th>
<th>Seniors</th>
</tr>
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<tbody>
<tr>
<td><strong>Weed ID</strong></td>
<td><strong>Toxic or Not Toxic</strong></td>
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</tbody>
</table>

### 2. Quiz

**Responsibility:**
- **Juniors** – Questions 1 - 10
- **Intermediates** – Questions 1 – 20
- **Seniors** – Questions 1 - 30

**References:**
1. 4 H Beef Resource Handbook (4-H 117R)

**NOTE:** Both of these reference materials are available for use at the Bradford County Extension Office.

**Example Questions:**

1. _______ Which of the following beef breeds was developed the United States?
   - A. Hereford  
   - B. Brahman  
   - C. Angus  
   - D. Shorthorn

2. _______ The dressed body of a slaughtered meat animal is called the:
   - A. Scale  
   - B. Carcass  
   - C. Breed type  
   - D. Dock
3. ______ Which of the following is a form of identification for beef animals?
   A. Ear tagging   B. Vaccination   C. Dehorning   D. Feeding

4. ______ The amount of fat cover a market animal possesses is called:
   A. Finish   B. Substance   C. Balance   D. Structural Correctness

5. ______ The comfortable space animals develop around them is called:
   A. Point of balance   B. Comfort or flight zone   C. Blind spot   D. Handler position
Score Sheet – Equipment

1. Artificial insemination gun
2. Bowl waterer
3. Balling gun
4. Barnes dehorner
5. Fire branding iron
6. Cattle clippers
7. Cow magnet
8. Currycomb
9. Disposable syringes
10. Drench gun
11. Ear notcher
12. Ear tag applicator
13. Elastrator
14. Electric branding iron
15. Electric dehorner
16. Emasculatome (Burdizzo)
17. Emasculator
18. Fencing pliers
19. Foot trimming shears
20. Freeze branding iron
21. Hemostat
22. Implant gun
23. Multi-dose syringe/pistol grip syringe
24. Nose lead
25. Bull nose ring
26. Obstetrical chain
27. Obstetrical hooks
28. Paint stick
29. Sweat scrape
30. Tattoo pliers
31. Tube dehorner
32. Scotch comb
33. Show stick
34. Beef weight tape
35. Shoulder length gloves
36. Ear tag
37. Clipper blade
38. Blower dryer
39. Grooming chute
40. Show halter
41. CIDR
42. Heat detector
43. Fence stretcher
44. Needles (various gauges)
45. Liquid nitrogen tank
46. Trocar
47. Lead rope
48. Feed bucket
49. Feed scoop

Equipment uses

A. Animal Health
B. Animal Restraint
C. Breeding/Reproduction
D. Castration
E. Exhibition
F. Farm Management
G. Feeding/Nutrition
H. Grooming
I. Identification

<table>
<thead>
<tr>
<th>Jr. Int. &amp; Sr. Equipment</th>
<th>Int. &amp; Sr. Only Uses</th>
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<tbody>
<tr>
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</table>
### Score Sheet – Beef Breeds, Origins and Important Characteristics

**Beef Breeds**

1. Angus  
2. Brahman  
3. Brangus  
4. Charolais  
5. Chianina  
6. Gelbvieh  
7. Hereford  
8. Limousin  
9. Polled Hereford  
10. Red Angus  
11. Santa Gertrudis  
12. Shorthorn  
13. Simmental  
14. Longhorn

**Origin**

A. Scotland  
B. France  
C. Italy  
D. Germany  
E. England  
F. United States  
G. Switzerland  
H. Spain

**Description**

Will be provided on the day of the test

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<th>Breed</th>
<th>Origin</th>
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</tbody>
</table>
## Score Sheet - Feedstuffs Identification

1. Alfalfa Hay  
2. Bahia Grass  
3. Bermuda Grass  
4. Citrus Pulp  
5. Clover  
6. Corn  
7. Cracked Corn  
8. Cornmeal  
9. Corn Gluten Pellets  
10. Steam Flaked Corn  
11. Whole Cottonseed  
12. Cottonseed Meal  
13. Cottonseed Hulls  
14. Grain Sorghum  
15. Ground Limestone  
16. Liquid Molasses  
17. Millet  
18. Oats  
19. Crimped Oats  
20. Steam Rolled Oats  
21. Rye  
22. Salt  
23. Soybean Hulls  
24. Soybean Meal  
25. Steam Rolled Barley  
26. Trace Mineral  
27. Triticale  
28. Urea  
29. Wheat  
30. Wheat Bran

<table>
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## Score Sheet – Beef (external, retail and wholesale cut) Identification

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<th>Seniors ONLY Retail Cuts</th>
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A word bank will be available at the time of the contest for this section.
Score Sheet - Stockman's Quiz

Junior will answer questions 1-10, Intermediates 1-20 and Seniors 1-30. Place the appropriate letter in the box next to the proper number.

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This informational guide was developed by Lizzie Whitehead, Tim Wilson, & Charlotte Emerson.