Selecting and Raising Commercial Heifers

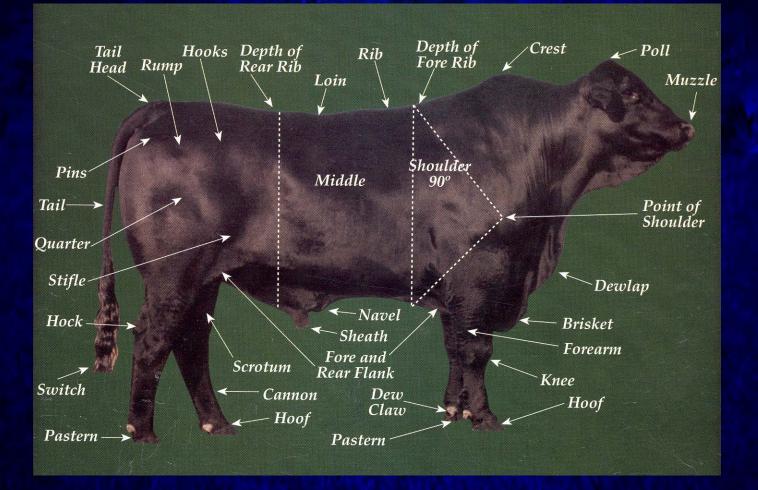
Jason Cleere Extension Beef Cattle Specialist



What breed type???

Match the cow to the environment and utilize a breed of bull that best complements her genetics to produce a calf that will fit a specific market

Selection





Getting Heifers Bred!

Lama V

Heifer Development

- Replacement heifers are long term investments for cow-calf producers
- Productivity of your heifers is important
 - Success of your project
 - Satisfaction of the cow-calf producers that purchase your heifers

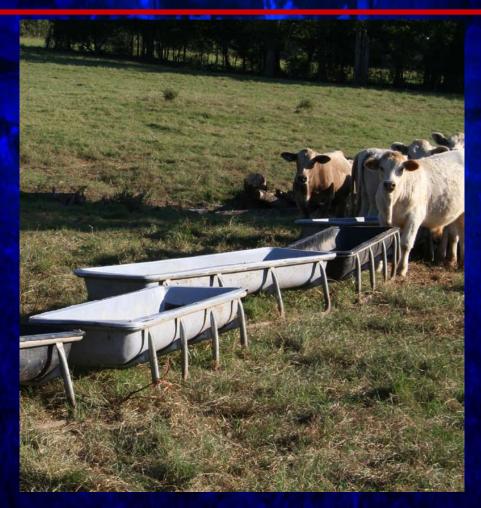
Heifer Development

Management as a yearling has been shown to affect performance as a first calf heifer and subsequent performance as a three and four year old cow

Obtain at least 65% of mature weight by breeding

Obtain at least 85-90% of mature weight by calving

Nutrition will play an important role in determining the success of your project!!!!



When do I feed???

Be consistent!!!!

What do I feed????



Basic Types of Feeds "Grains"

- Grains such as corn, barley, sorghum grain
 - High in energy
 - Energy is important for maintenance and growth
 - "Extra energy" will fatten cattle

Basic Types of Feeds "Protein Supplements"

High Protein Supplements
Used to increase the protein content of the diet
Cottonseed meal
Soybean meal
Canola meal

Basic Types of Feeds "Roughages"

Roughages help to prevent nutritional ailments "safety net"

- acidosis
- bloat
- founder

Heifer Development

- strategies
 - constant gain
 - low gain, high gain
 - high gain, low gain
- target weights
 - breeding
 - 65% of mature weight
 - calving
 - 85-90% of mature weight
- udder sensitivity to excess condition
 - 4 to 10 months

- determining rate of gain
 - weaning wt (7 months)
 - 480
 - mature wt
 - 1200
 - target breeding wt
 - 780
 - breeding age
 - 15 months
 - target ADG
 - 1.25

Heifer Nutritional Requirements (650 lb heifer)

<u>1 lb ADG</u>

- diet
 - 62% TDN
 - 10.5% CP

<u>1.5 lb ADG</u>

• diet

- 68% TDN
- 12.3% CP

What brand do I feed???

- Lone Star
- Lyssy & Eckel Feed
- ACCO
- Nutrena
- Purina
- Martindale Feeds
- The local COOP's feed



Brand name on the bag does not matter!!!!

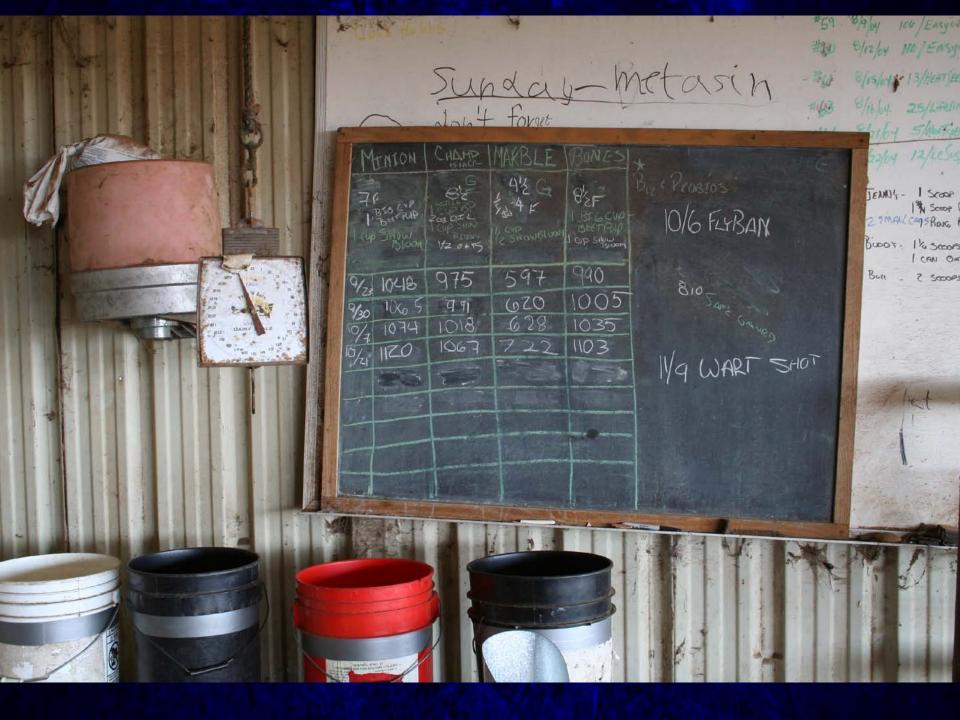
Contents of the bag are most important

- Fresh
- Mixed well
- Consistency from one bag to the next is very important!!!
- If the feed is economical and of good quality it is even better!!!!!

Hay???

Feed at least one block (flake) of medium quality hay daily

- Sudan hay
- Bermudagrass hay
- Bahia hay
- Grass hay



Growth







Hoechst Rouse

ants



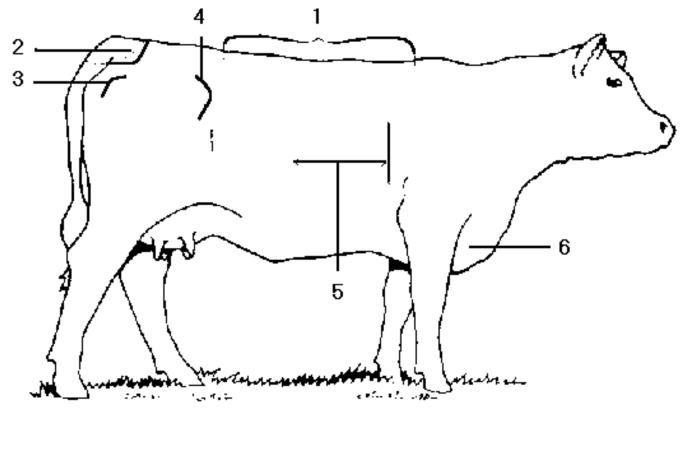
Feeding Heifers DO NOT get heifers too fat!!!!!



Body Condition Scoring of Cattle



Areas to evaluate Body Condition



1. BACK3. PINS5. RIBS2. TAIL HEAD4. HOOKS6. BRISKET

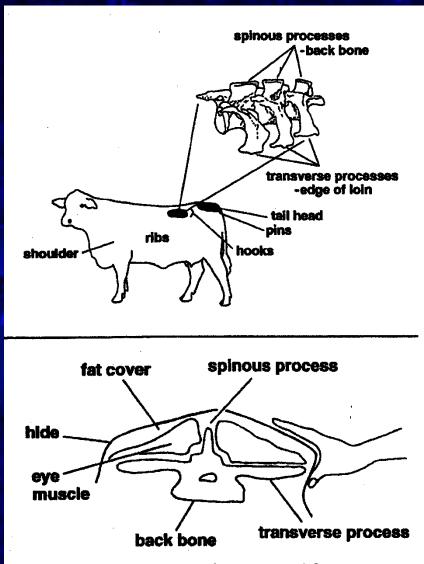


Figure 1. Anatomic areas that are used for scoring body condition in beef cows.

BCS of 2



Little evidence of fat deposition. The spinous processes feel sharp to touch.

BCS of 3



Beginning of fat cover over the loin back and foreribs. Spinous processes can be identified by touch and may be visible.





Foreribs are not noticeable, 12th and 13th ribs can be seen. Individual spinous processes not visible. Hooks and pins not as sharp.

BCS of 4



BCS of 5



12th and 13th ribs are no longer visible. Areas on each side of the tail head are fairly well filled. Hooks and pins are not as prominent. Hindquarters are beginning to fill.



BCS of 5 to 6



Ribs are fully covered. Hindquarters are plump and full. Beginning to take on an overall smooth appearance.

BCS of 5 to 6



BCS of 6 to 7



Smooth appearance. Abundance of fat cover on either side of the tail head. Begin to see patchiness develop.

BCS of 6 to 7



BCS of 8



Animal begins to take on a smooth, blocky appearance. No longer can see the bone structure. Fat cover is thick and patchy.

BCS of 8



BCS of 9



Bone structure not seen or easily felt. "Globs of fat" down the top, around the tail head, and down the rump.









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- Important to keep your project healthy to maximize performance
- Consult with your veterinarian
- Vaccinate upon arrival and booster
 - Blackleg
 - Respiratory Complex (IBR, PI3, BVD, BRSV)
 - Safe for pregnant females
- Vaccinate upon arrival and booster
 - Leptosporosis
- Vaccinate heifers
 - Brucellosis







Know how to identify when your calf is sick

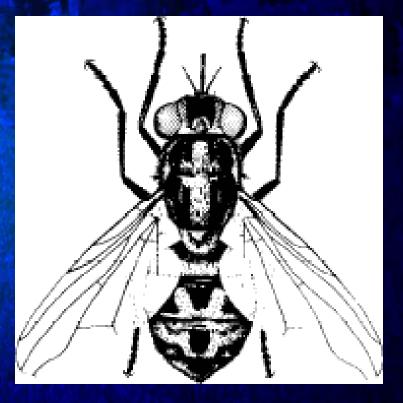
- Invest in a thermometer (\$6.99)
 - 101-102 degrees normally
 - 103 degrees, getting sick





Control internal parasites – Deworm upon arrival and every three months thereafter

Control external parasitesHealth of the animalAnimal performance



Final note!!!

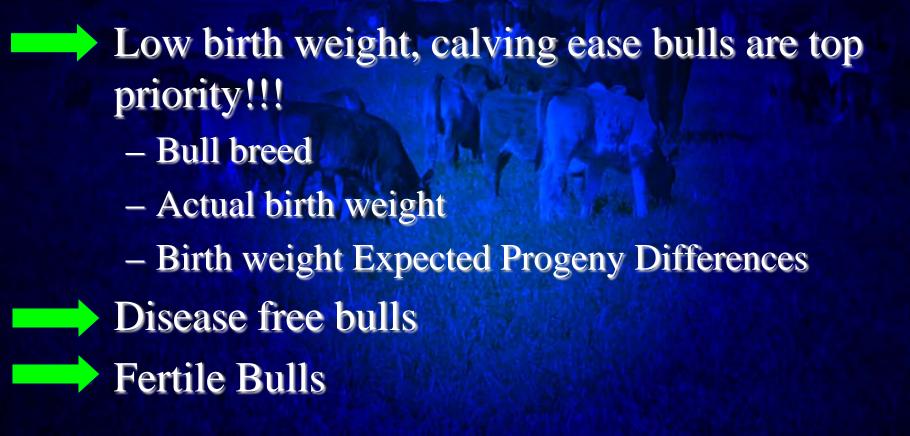
- Observe your cattle carefully and watch for:
 - Bloat
 - Founder
 - Acidosis
 - Nasal discharge
 - Acting different!!!

Calving difficulty

First calf heifers have a higher risk for dystocia than mature cows
University of Nebraska data indicated that two year old first calf heifers are 3 to 4 times more likely to experience dystocia
Two major causes of dystocia in heifers include:

- Heavy birth weights
- Underdeveloped heifers

Bull Selection



55th Annual Texas A&M Beef Cattle Short Course August 2-4, 2010





Thank You

jjcleere@ag.tamu.edu

beef.tamu.edu