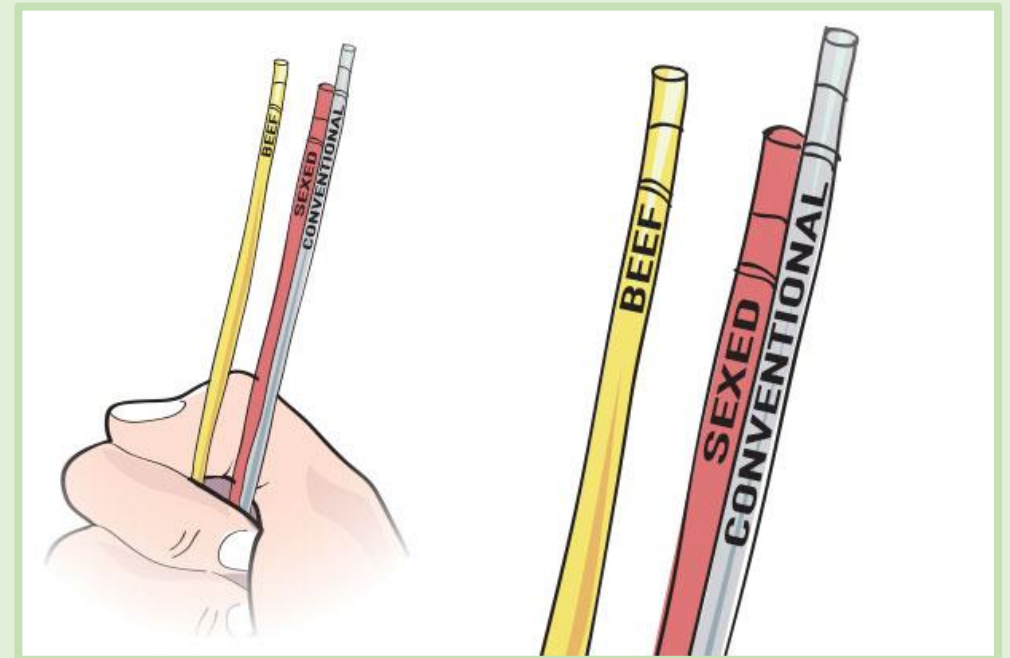


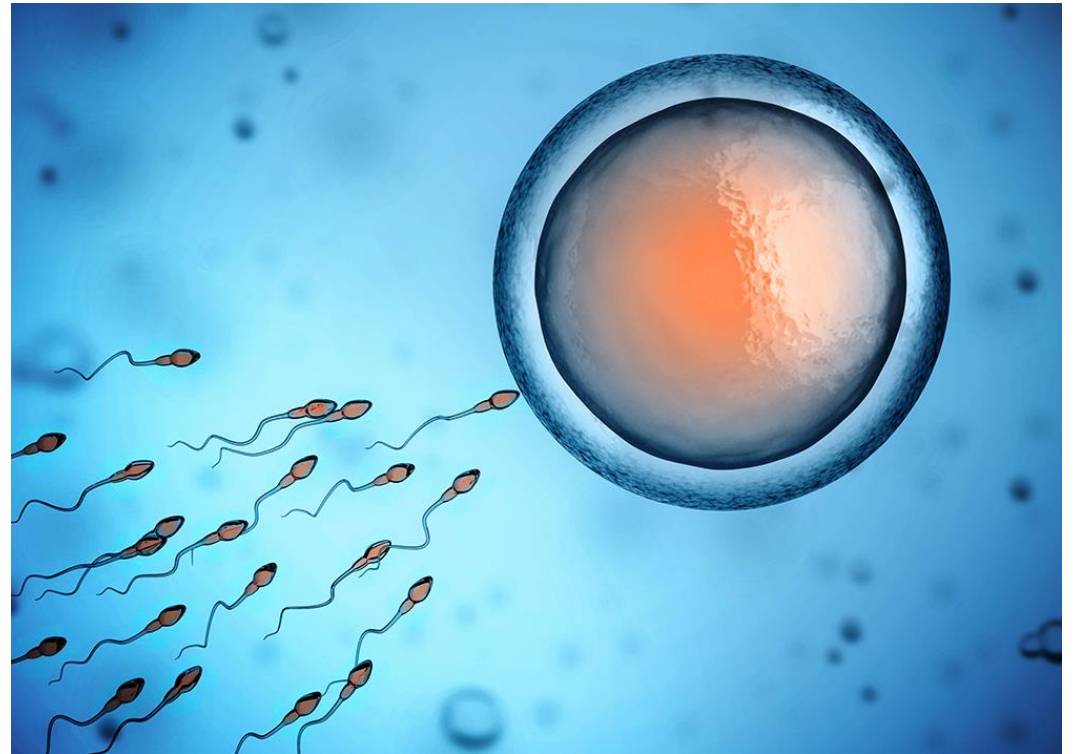
SELECTION OF BULLS, USE OF SEXED SEMEN (Level 1)

Topic	Training & information Content
6.1	Selection of bulls, use of sexed semen, feeding management of dry cows
6.2.1	The calving process
6.2.2	Use of equipment around calving
6.2.3	Care of cow and calf after calving
6.2.4	Colostrum management
6.3	Milk (replacer) feeding schedule
6.4	From birth to weaning
6.5	From weaning to pregnancy
6.6	Disease and health management
6.7	Handling of calves after difficult birth
6.8	Young stock rearing info and Key Performance Indicators



1. You will learn about (learning objectives):

- ☐ Sexed semen:
 - Importance of bull selection in case of artificial insemination (AI).
 - Variety of bulls and breeds available.
 - Qualities of the different breeds.
 - Use of sexed semen in virgin heifers to improve herd's genetic potential.
 - How to treat/handle sexed semen.
 - The technical results of using sexed semen.



2. Background

- Herd improvement (breeding) involves first looking at your cows and setting goals.



Look at your cows.
What is your goal?



3. Setting breeding objectives

Your goal can be:

- Milk
- Calves
- Beef



Calves



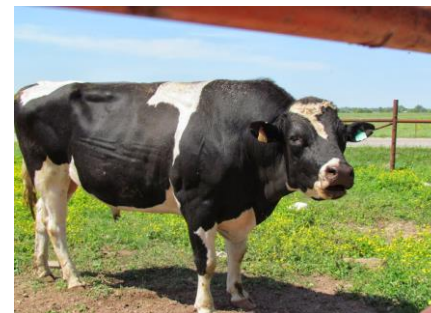
Milk



Beef

4. Selecting the breed

- Which breed suits your goal?



5. Selecting Dairy breeds



More milk

6. Cattle breed bulls: Jersey



Jersey cattle bull

Advantages	Disadvantages
High milk fat and protein	Agressive at older age.
Calves with ease	Milk fever sensitive.
High feed conversion efficiency	



7. Cattle breed bulls: Holstein Friesian



Holstein bull

Vulnerable
to heat
stress



Advantages

High milk potential.

Good udder conformation.



Higher susceptibility
to sun burns.

8. Cattle breed bulls: Ayrshire



Ayrshire
bull



Advantages

- Disease resistant.
- High quality drinking milk.
- Good udder conformation.

Disadvantages

- High feed requirement.



9. Selecting Beef breeds



More Calves



More Beef

10. Cattle breed bulls: Boran



Beef



Calves



Boran bull

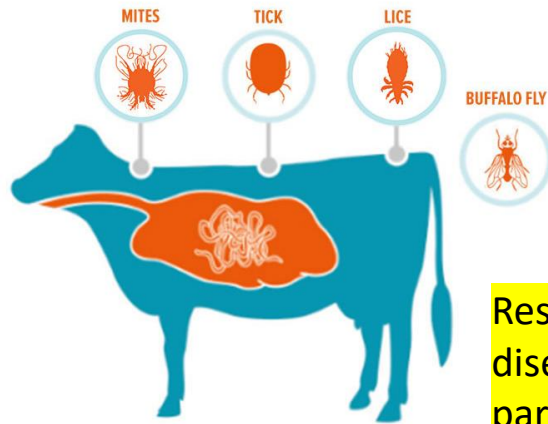


Low milk potential

11. Cattle breed bulls: Brahman



High heat tolerance;
High growth rate



Resistance to diseases and parasites



Low milk potential



Brahman bull

12. Breeding techniques



Natural insemination



Artificial insemination (AI)

13. Sexed semen

- Involves separating male and female semen cells.

Advantages of using sexed semen

- i. Certainty of heifer calves for replacement or growth
- ii. Less difficult births
- iii. Higher turnover and growth
- iv. Faster genetic progress



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