Theme 5: Fertility and Breeding CONFORMATION, TYPE CLASSIFICATION AND JUDGING (Level 2)

Торіс	Training & information Content
5.1	Dairy Cattle Breeds and Breeding
5.2	Breeding program for a dairy farm (medium & large)
5.3	Conformation, Type classification and judging
5.4	Cow handling
5.5	Milk production recording
5.6	Heat Detection
5.7	Artificial Insemination
5.8	Pregnancy Diagnosis
5.9	Fertility Management
5.10	Cows with abnormal discharge
5.11	Fertility disease recording
5.12	Calving recording
5.13	Use of Key Performance Indicators



1. You will learn about (learning objectives):

- Importance of body parts of a cow in judging cattle
- Key body parts to evaluate when judging cattle



2. Background

- The exterior look (conformation) of the cow is for many farmers, not the most important part to emphasize when it comes to cattle judging.
- Cattle judging is important in influencing decision making e.g. during selection. Judging entails evaluating and ranking/scoring cattle based on their closeness to 'ideal' dairy conformation.
- Of course, breeding values are much more reliable, but in case breeding values are not available more emphasis should be given to linear traits of the cow and bull.



3. Parts of a dairy cow

• Familiarizing with (thorough knowledge of) the body parts of a cow is a key step in successful cattle judging.



4. Classification of body parts

- The judging exercise can be broken down into major classes that entail specific body parts to be evaluated and ranked/scored namely;
 - Udder. = Tilted, Nice texture, Slightly deep
 - Fertility. = Steep rump angle, strong loin.
 - Capacity. = Wide and Deep, low stature.



Feet & Legs. = Straight and coarse

5. Body frame

• It is important to have an impression of the body of the cow. This is done by assessing the <u>Rump height</u>.



6. Udder

• Major consideration is given to the traits that contribute to high milk yield and a long productive life.





(Fore) udder should be firmly attached with moderate length and ample capacity

6.1 Udder cont'd: Floor and depth



6.2 Udder cont'd: Suspensory ligament and Udder attachment



6.3: Udder cont'd: Front and rear teats placement



Front Teat Placement.

Rear Teat Placement.

6.4 Udder cont'd: Teat length and Udder texture



Teat Length.

Udder Texture.

6.5 Udder cont'd: Rear udder height and width



Rear Udder Hight.

Rear Udder Width.

7. Fertility

ertility







Assessing Thurl placement



Assessing Rump angle

Fertility relates to calving with ease and having annual calving



7.1 Fertility cont'd: Thurl placement and Rump angle



7.2 Fertility cont'd: Rump width and Loin strength



8. Capacity





1 litre milk

=



400 litre blood circulation





Chest width relates to enough space for heart and lungs



Body depth relates with enough capacity to consume roughages 8.1 Capacity cont'd: Chest width and body depth



8.2 Capacity cont'd: Angularity and Body Condition Score



Body Condition Score.

9. Legs and feet



Foot angle and heel depth are evaluated

Degree of curvature is considered for Rear Leg Set side view













Desired trait eases locomotion, equals walking in comfortable pair of shoes





Locomotion is also given consideration

9.1 Legs and feet cont'd: Rear leg set view



Rear Leg Set Hind View.

9.2 Legs and feet cont'd: Bone quality and locomotion



long stride.

9.3 Legs and feet cont'd: Foot angle and heel depth



1; Shallow. 5; Intermediate. 9; Steep.

10. Example of a cattle judging



Udder	=	-
Fertility	=	0
C apacity	=	++
Feet & Legs	=	+



Udder	=	
Fertility	=	+
C apacity	=	
Feet & Legs	=	+