

**NORTH WEST DEPARTMENT OF AGRICULTURE  
AND RURAL DEVELOPMENT  
D: AGRICULTURAL DEVELOPMENT SERVICES-  
DRKKD  
SD: AGRICULTURAL RESEARCH SERVICES**  
Date : 18-20 March 2024  
Venue : Moretele Kgora FTC  
Presenter :EM. Mokuu  
PASTURE DIVISION  
ARS  
POTCHEFSTROOM  
**Plant identification**

## Leaf shapes



- Folded
- Rolled
- Flat
- Keeled

## Different inflorescence



- Spike
- Raceme
- Panicle

## The spikelet and the flower



- Awn
- Stigma
- Palea
- Stamen
- Lemma
- Glumes
- Stalk

## Structure of the grass plant



- Inflorescence
- Penduncle
- Leaf blade
- Leaf sheath
- Internode
- Node
- Stolon
- Rhizome
- Roots

## Different types of ligules



- Membrane
- Membrane with hairy margins
- Membrane with ring of hairs

### Leaf apices



- Drip tip
- Tapering
- Rounded
- Blunt
- Notched
- mucronate

### Leaf base



- Rounded
- Cordate
- Oblique
- Tapering
- Square

### Leaf margins



- Entire (smooth)
- Toothed (dentate)
- Toothed (serrate)
- Scalloped (crenate)

### Leaf shapes



- Linear
- Oblong
- Elliptic
- Oval
- Round
- Lanceolate
- Ovate
- Cordate
- Oblanceolate
- Spatulate
- Obovate

### Leaf arrangement



- Alternate
- Opposite
- Whorled
- Tufted (fascicled)

### Simple leaves



## Compound leaves



- Bifoliate
- Trifoliate
- Palmately compound
- Imparipinnate
- Paripinnate
- Bipinnately compound