Lucerne - *Medicago sativa*
- **Season & varieties**
  - Thru’ year, CO 1
  - Not suitable for very hot and cold climate
- **Field preparation**
  - Apply 12.5 t FYM
  - Beds & channels 10-20m
- **Seed rate**
  - 20 kg/ha of cuscuta free seeds
- **Spacing**
  - 25cm with solid row
- **Fertilizer**
  - 25-120-40 NPK
- **Harvest**
  - First cut at 75-80 DAS, subsequent cut at 25-30 days
  - Green fodder
    - 70-80 t in 10 cuttings

**Hedge Lucerne – *Desmanthus virgatus (Velimasal)***
- **Season & varieties**
  - Thru’ year, Velimasal
- **Field preparation**
  - Apply 12.5 t FYM
  - Ridges & Furrows
- **Seed rate**
  - 20 kg/ha
- **Spacing**
  - 50cm with solid row
- **Fertilizer**
  - 10-60-30 NPK - to be applied below the seed rows
- **Harvest**
  - First cut at 90 DAS at 50cm ht, subsequent cut at 45 days
  - Green fodder
    - 125 t

**Hedge Lucerne +Grasses**
- Grasses suitable are Guinea and BN Hybrids
- Ratio - 3:1
- First cut at 50 DAS and further at 45 d
- Cutting height of velimasal is 50cm
- Additional fodder yield of 100-125t
- Nutritious proportion
Stylo – *Stylosanthes scabra* (*Muyal masal*)
- **Season & varieties**
  - Jun, July to Sep, Oct, *S. hamata* annual & *S. scabra* perennial
- **Field preparation**
  - Apply 12.5 t FYM
  - Beds & channels
- **Seed rate**
  - 6 kg /ha
- **Spacing**
  - 30 x 15cm
- **Fertilizer**
  - 20-60-15 NPK - to be applied below the seed rows
- **Harvest**
  - First cut at 75 DAS at flowering, subsequent cuts
  - Green fodder
    - First year low subsequent years 30 t/annum

*Fodder Cowpea*
- **Season & varieties**
  - Jun, July – CO 5
- **Field preparation**
  - Apply 12.5 t FYM
  - Beds & channels
- **Seed rate**
  - 40 kg /ha
- **Spacing**
  - 30 x 10 cm
- **Fertilizer**
  - 25-40-20 NPK - to be applied below the seed rows
- **Harvest**
  - 50-55 days after sowing (50% flowering)
  - Green fodder
    - 18-20 t/ha

Grass leaf Desmodium
*Desmodium tortuosum*
- So palatable, nutritious “alfalfa” of the tropics
- There are two useful species for fodder
  - Grass leaf desmodium – *D. tortuosum*
  - Silver leaf desmodium – *D. uncinatum*
- **Tortuosum**
  - Erect perennial legume
  - Versatile in soil adoption & tolerant to acid condition
  - They combine well with many grasses
  - They fix atmospheric N
  - Readily eaten by animals
  - Propagation by seeds
  - Suitable for coconut groves
Leucaena leucocephala

- **Season & varieties**
  - Thru’ year – FD 275 from IGFRI
- **Harvest**
  - As soon flowering starts

Leucaena leucocephala

- **Season & varieties**
  - Jun, July – Hawaiian giant, CO 1
  - Sep-Oct – K8, Giant Ipil, CO1
- **Field**
  - Ridges & furrows
  - Spacing: 100 x 20 cm
- **Seed rate**
  - 10 kg for fodder; 1.25 kg for fuel
- **Nutrient**
  - 10-60-30 NPK all basal
- **Harvest**
  - 6 months after sowing, repeated after 40-50 days
  - Yield: 80-100 t of green fodder
  - *It can be mixed with NB hybrids for protein value*

Berseem *Trifolium alexandriannium*

- **Season**
  - Rabi – Oct – Nov
- **Soil**
  - All soils with mild cold winter
  - Tolerant to alkali
- **Seeds & sowing**
  - Seed rate – 20-25kg
  - Spacing – 20 x 20cm
- **Manures**
  - Responds well to P
  - 20-40-0
- **Harvest**
  - 45 days after sowing & subsequent at 30 days
  - Number of harvest depends up on winter season
  - 50-100 t green fodder

Sirrato - *Macroptilium atropurpureum*

- Drought tolerant pasture
- Compatibility with cereals & grass
- Native of C & S America
- Deep rooted perennial
- Trailing, hairy stems
- Can tolerate grazing pressure
- Can tolerate shade
- Wide range of soils

Other legume fodders
- Glycine
  - *Neonotonia javanica*
- Centro / Butterfly pea
  - *Centrosema pubescens*
- Calopo
  - *Calopogonium muconoides*
- Red clover
  - *Trifolium pratense*
- White clover
  - *Trifolium repens*
- Sweet clover
  - *Melilotus alba*