

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-2
- 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 aftersowing(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 grooves*

- Season & varieties
 - Thru' year – FD 275 from IGFR
- 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 muconioides*
- Red clover
 - *Trifolium pratense*
- White clover
 - *Trifolium repens*
- Sweet clover
 - *Melilotus alba*