

Lec.7 SILVIPASTURE SYSTEM

The production of woody plants combined with pasture is referred to Silviculture system. The trees and shrubs may be used primarily to produce fodder for livestock or they may be grown for timber, fuelwood, fruit or to improve the soil.

This system is classified in to three categories

- i) Protein bank
- ii) Livefence of fodder trees and hedges
- iii) Trees and shrubs on pasture

i) Protein bank

In this Silvicultural system, various multipurpose trees(protein rich trees) are planted on or around farmlands and range lands for cut and carry fodder production to meet the feed requirement of livestock during the fodder deficit period in winter

Example: *Acacia nilotica*, *Albizia lebbek*, *Azadirachta indica*, *Leucaena leucocephala*, *Gliricidia sepium*, *Sesbania grandiflora*

ii) Livefence of fodder trees and hedges

In this system, various fodder trees and hedges are planted as live fence to protect the property from stray animals or other biotic influences.

Example: *Gliricidia sepium*, *Sesbania grandiflora*, *Erythrina sp*,
Acacia sp.

iii) Trees and shrubs on pasture

In this system, various tree and shrub species are scattered irregularly or arranged according to some systemic pattern to supplement forage production.

Example: *Acacia nilotica*, *Acacia leucophloea*, *Tamarindus indica*, *Azadirachta indica*.