



Centurion
UNIVERSITY

Session 116: Classification of forage, pastures and green manure crops; pollination behavior



Introduction

The single outstanding exception is alfalfa (syn. lucerne) (*Medicago sativa* L.), which was the first forage crop to be domesticated and has been cultivated for over three millennia as the “**Queen of the Forage Crops**”

The name “alfalfa” can be traced to the old Iranian word meaning “**horse fodder**”

Green undecomposed material used as manure is called **green manure**

Green manuring is growing in the field plants usually belonging to leguminous family and incorporating into the soil after sufficient growth

Application of green leaves and twigs of trees, shrubs and herbs collected from elsewhere is known as **green leaf manuring**



Classification of Forage, Pasture and green manure crops

Sl. No.	Name	Family	Growth habit	Pollination behaviour
1	Sudangrass	Poaceae	Annual	Self pollination
2	Wheat grass	Poaceae	Short lived perennial	
3	Korean Vetch	Fabaceae	Winter annual	
4	Common Vetch	Fabaceae	Winter annual	
5	Berseem/Egyptian clover	Fabaceae	Annual	
6	Cowpea	Fabaceae	Annual	
7	Napier grass/Elephant grass/Meker grass	Poaceae	Robust perennial	Cross pollination
8	Jowar/ sorghum	Poaceae	Annual or short-lived perennial	Self pollination
9	Maize	Poaceae	Annual	Cross pollination
10	Bermuda grass	Poaceae	Perennial	
11	Perennial timothy	Poaceae	Perennial	
12	Canary grass	Poaceae	Perennial	

Classification of Forage, Pasture and green manure crops

Sl. No.	Name	Family	Growth habit	Pollination behaviour
13	Alfalfa /lucernae	Fabaceae	Perennial	Cross pollination
14	Clover(Reed/White)	Fabaceae	Short lived perennial	
15	Sweet clover	Fabaceae	Biennial	
16	Kentucky, Blue grass	Poaceae	Perennial	Largely apomictic
17	Buffal grass/ANJAN GHAS	Poaceae	Perennial , sometimes short-rhizomatous	Apomictic
18	Subabul	Fabaceae	Perennial	Self pollination
19	Sesbania	Fabaceae	Perennial	
20	Guinea grass	Poaceae	Perennial	Cross pollination
21	Chinese cabbage	Brassicaceae	Annual	
23	Bajra	Poaceae	Annual	
24	Oats/barley	Poaceae	Annual	Self pollination

Classification of Forage, Pasture and green manure crops

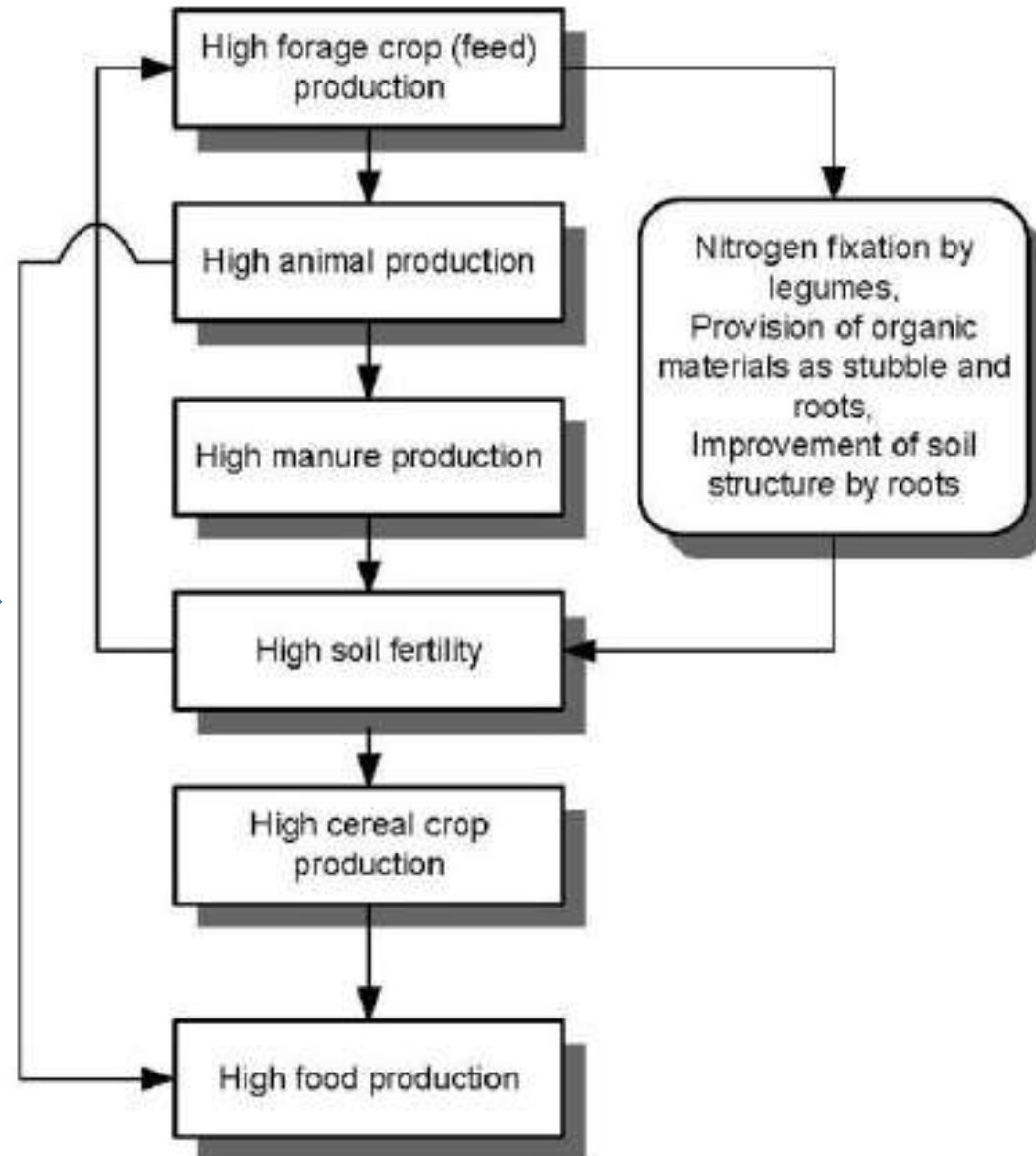
Sl. No.	Name	Family	Growth habit	Pollination behaviour
25	JOB'S TEAR (COIX)	Poaceae	Robust annuals	Both self and cross pollination occur, with the latter being predominant(Schaaffhausen, 1952; Jansen, 2006)
26	NAPIER × BAJRA HYBRID	Poaceae	Perennial	Cross pollination
27	DINANATH GRASS	Poaceae	Annual or perennial	Apomictic
28	SUDAN GRASS	Poaceae	Annual	Self pollinated
29	SAEN GRASS (SEHIMA NERVOSUM)	Poaceae	Herbaceous annual, or perennial	-
30	BLACK SPEAR GRASS	Poaceae	Erect perennial	-
31	TALL FESCUE	Poaceae	Short rhizomes	Cross pollination
32	MARVEL GRASS	Poaceae	Perennial	-
33	GUAR (CLUSTER BEAN)	Fabaceae	Annual	Self pollination

Classification of Forage, Pasture and green manure crops

Sl. No.	Name	Family	Growth habit	Pollination behaviour
34	Sunhemp	Fabaceae	Perennial	Self pollination
35	Cassia	Fabaceae	Perennial	-
36	Gliricidia	Fabaceae	Perennial	Cross pollination
37	Pongania	Fabaceae	Perennial	
38	Neem	Meliaceae	Perennial	
39	Gulmohur	Fabaceae	Perennial	
40	Ipomoea	Convolvulaceae	Annual and perennial	
41	Cluster bean	Fabaceae	Annual	Self pollination
42	SEM (LABLAB BEAN)	Fabaceae	Annual or biennial	Self pollination
43	HEDGE LUCERNE	Fabaceae	Herbaceous perennial	Cross pollination
44	SENJI (INDIAN CLOVER)	Fabaceae	Annual or biennial	Cross pollination

Cereal-livestock integration

A diagrammatic representation of cereal-livestock integration through forage crops in mixed farming





Centurion
UNIVERSITY

Thank
you

