



MINISTRY OF AGRICULTURE & FARMERS WELFARE, DEPT. OF ANIMAL HUSBANDRY, DAIRYING & FISHERIES
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FODDER CROPS CULTIVATION PRACTICE AND FEEDING GUIDE

Sl. No.	Botanical Name	Common Name	Varities	Soil Type	Season	Duration	Seed Rate per acre	Space	Fertilizer requirements	Irrigation	Stage of harvest	Green fodder yield per acre	Protein content	No. of cutting	Fodder requirement per animal per day	Rain fall
1	Zea mays	FODDER GOLD MAIZE	African Tall Vijay composite	Well drained fertile	Entire year	100-200 days	12 Kgs / acre	30 x 25 cms	N:P:K 48:24:20	At sowing & once in a week	Cob milking stage single cut 80-90 day	250 Qtls.	11 %	Single Cut	Green 25 Kgs. dry 6 to 8 Kgs	irrigated
2	Sorghum spp	JOWAR	M.P.Chari P.C-23, CO-11, CO-27	Well drained fertile	May-June Sept-Oct Feb-March	90-110 days	8 Kgs / acre	30 x 15 cms	N:P:K 36:18:18	At sowing & once in 10 days	50% flowering 70-80 day	150 Qtls.	10 %	1 - 3 Cuttings	Green 20 Kgs. dry 6 Kgs	450 mm
3	Pennusetum Perpureum	NAPIER / ELEPHANT GRASS	NB-21, BN-2, CO-1,2,3,	Well drained fertile	Entire year	2 years	16,000 slips per acre	60 x 60 cms	N:P:K 60:30:20	-do-	At 55 days	400 Qtls. per year	7 %	6 Cuttings per year under irrigation	25 - 30 Kgs.	1300 mm
4	Panicum Maximum	FODDER GRASS	Gatton panic, Green panic, Makueni Riverdale, Hamil,	Well drained fertile	Entire year	perennial	16,000 slips or 6 Kg Seed per acre	-do-	N:P:K 60:30:20	-do-	Maximum vegetative pre-flowering	350 Qtls. per year	6-7 %	-do-	25 - 30 Kgs.	1300 mm
5	Cenchrus ciliaris	BUFFEL GRASS	Cloncurry Biloela, Molopo CO-1	Red calcareous soil	At moonson rainfalls	perennial crop	6 Kgs / acre	Broadcasting	N:P:K 60:30:20	At sowing & once in 10 days	-do-	200 Qtls. per year	9 %	6 Cuttings under moderate rainfall	25 - 30 Kgs. (fodder rich incalcium)	350 mm
6	Brachiaria decumbens	FODDER GRASS	Signal, Signal Congo, Narok	Well drained fertile & versatile	May-June Sept-Oct Feb-March	5 years	6 Kgs / acre	60 x 30 cms	N:P:K 60:30:20	At sowing & 15-20 days interval	-do-	300 Qtls. per year	7-9 %	6 Cuttings under irrigation	20 Kgs.	1000 mm
7	Setaria anceps	SETARIA GRASS	Nandi Kazhungula Narok	Well drained fertile & Heavy	June-July Aug-Sept	Annual	5 Kgs / acre	60 x 60 cms	N:P:K 60:30:20	-do-	-do-	300 Qtls. per year	7 %	-do-	15 - 20 Kgs.	900 mm
8	Urochloa mosambicensis	SABI GRASS	Nixon	-do-	-do-	perennial	6 Kgs / acre	60 x 30 cms	N:P:K 60:30:20	At sowing & once in 15 days	-do-	200 Qtls. per year	7 %	-do-	25 Kgs.	900 mm
9	Chloris gayana	FODDER GRASS	Callide Kotembora	perfer heavy soil tolerate salinity to some extent	May-June Sept-Oct Feb-March	perennial	6 Kgs / acre	60 x 30 cms	N:P:K 60:30:20	At sowing & once in 10 days	-do-	400-500 Qtls. per year	9 %	-do-	20 Kgs.	650 mm
10	Crotalaria juncea	SUN HEMP	-	Well drained fertile & Heavy	June-July Sept-Oct	90 days	5 Kgs / acre	60 x 30 cms	N:P:K 8:24:20	At sowing & once in 10 days	-do-	300 Qtls. per year	18 %	Single cutting	5 Kgs.	irrigated
11	Calopogonium mucunoides	CALOPO	-	-do-	June-Oct	Annual	15 Kgs / acre	60 x 30 cms	N:P:K 60:30:20	At sowing & once in 20 days	flowering / pod stage	250 Qtls.	16 %	3 - 4 cutting	5 Kgs.	1200 mm
12	Vigna sinensis	FODDER GOLD COWPEA	EC 4216 Bundel 1,2, Co.5.	-do-	June-July Sept-Oct Feb-March	75 days	15 Kgs / acre	30 x 10 cms	N:P:K 60:30:20	At sowing & once in 20 days	flowering / pod stage	300 Qtls.	18 %	Single cutting	5 Kgs.	irrigated
13	Sesbania spp.	SESBANIA	-	Well drained fertile	Entire year	2 years	pure crop 3Kgs/acre Inter crop 1Kg/acre	3 x 2 mtrs	N:P:K 60:30:20	-do-	Maximum vegetative period	300 Qtls. 5 Kg/plant/cut	20 %	6 cutting	3 Kgs.	900 mm
14	Leucaena leucocephala	SUBABUL	Hawaiiin Salvador Peruvian types	-do-	-do-	perennial crop	3 Kgs / acre	100 x 50 cms	N:P:K 60:30:20	At sowing & once in 15 days	flowering stage	400 Qtls.	20-30 %	6 cutting	5 Kgs.	750 mm
15	Medicago sativa	LUCERNE	Co-1, T-9 Anand-2	Well drained fertile	Oct-Nov	-do-	6 Kgs / acre	50 cms row to row, shallow sowing	N:P:K 60:30:20	At sowing & once in 10 days	budding stage	350 Qtls.	20 %	7-8 cutting	5 Kgs.	irrigated
16	Stylosanths spp.	FODDER GOLD STYLO	Hamata & Scabra	Well drained versatile	June-July Nov-Dec	perennial auto-seeding	6 Kgs / acre	Broadcasting	N:P:K 60:30:20	At sowing & once in 15 days	flowering stage	250 Qtls.	18 %	5-6 cutting	5 Kgs.	450 - 800 mm
17	Macroptilium atropurpurem	SIRATRO	-	-do-	June-July Oct-Dec	perennial	3 Kgs / acre	-do-	N:P:K 60:30:20	-do-	-do-	250 Qtls.	18 %	6 cutting	5 Kgs.	600 mm

COMMON PRACTICES : 1. Plough the land & pulvarise the soil to have good tilth. 2. Apply well de-composed farmyard manure not less than 10 tons/acre and mix with the soil during last ploughing. 3. All the seeds and fertilizers must be applied within the row, adopting line sowing, 4. All the grass and legume seeds, being tiny, should be sown at 3 cms, deep and should not be sown deeply. 5. All the legume seeds Sl.No.-10-17 must be treated with Rhizobium culture, which is available with The University of Agricultural Sciences, Bangalore. 6. Buffel grass and Rhodes grass seeds may be mixed with mud cowdung slurry with less water, dry in shade and make crumbles by hand. individual crumbles will carry the seeds for easy sowing. 7. Napier grasses contains more of oxalates deplete calcium leading to kidney disorder, must be fed with lucerne / subabul / cowpea etc. to counteract calcium depletion. 8. Feed dry fodder always alongwith green fodder & legumes for more milk fat and to avoid digestive complications.

Fodder Revolution leads to Milk Revolution