

Table 1(a) Package of practices of increased

Name of crop	Soil	Sowing time	Seed-rate (Kg/ha)	Row/Plant spacing (cm)
1. Jowar (<i>Sorghum vulgare</i>)	Sandy loam to clay	March-July (N) Feb.-Nov. (S)	40-50	25-30
2. Maize (<i>Zea mays</i>)	Do.	April-Aug. (N) Feb.-Nov. (S)	40-40 60-75 (Hybrid)	25-30
3. Bajra (<i>Pennisetum typhoides</i>)	Sandy loam to clay loam	Mar.-Aug (N) Feb.-Nov. (S)	10-12 (rain-fed)	30-40 50-60
4. Teosinte (<i>Euchlaena mexicana</i>)	Loam to clay loam	Do.	35-45	40-50
5. Cowpea (<i>Vigna unguiculata</i>)	Sandy to sandy loam	Do.	30-40	40-50
6. Guar (<i>Cyamopsis tetragonoloba</i>)	Do.	Apr.-Aug. (N) Mar.-Nov. (S)	25-30	30-40
7. Oats (<i>Avena Sativa</i>)	Loamy to clay loam	Mid-October to mid-Nov.	80-90	20-25
8. Berseem (<i>Trifolium alexandrinum</i>)	Do.	Oct.-Nov.	20-25	Broadcast
9. Lucerne (<i>Medicago sativa</i>)	Do.	October first week	15-20	Broadcast

fodder production in cultivated fodder crops

Manuring/ha	Irrigation (Nos)	Harvesting (days)	Number of cuts	Fodder yield (q/ha)	Growth cycle
Farmyard manure— 20-25 tonnes N—60 kg (2 doses) P ₂ O ₅ —30 kg K ₂ O—30 kg	4-7 1-2 (rainfed)	80-90 (late var.) 70-75 (early var.)	One 3-4 (multicut)	300-400 500-700	Annual
Farmyard manure— 25 tonnes N—50-60 kg (2 doses) P ₂ O ₅ —30 kg K ₂ O—20 kg	4-7 1-2 (kharif)	70-80	One	350-450	Annual
Farmyard manure— 10-12 tonnes N—40 kg P ₂ O ₅ —30 kg K ₂ O—30 kg	2-3 (summer)	50-60	2-3 cut at 30-35 day intervals	300-400	Annual
Farmyard manure— 25-30 tonnes N—50 kg (2 splits) P ₂ O ₅ —30 kg K ₂ O—20 kg	4-5 (summer) 1-2 (kharif)	75-80 1st 60-70 2nd 60-70 3rd	2-3 cut at 60-70 days intervals	400-500	Annual
Farmyard manure— 10 tonnes N—20 kg P ₂ O ₅ —40 kg K ₂ O—120 kg	3-4 (summer) 1-2 (kharif)	60-70	2 cuts (summer) 1 cut (kharif)	450 250-300	Annual
Farmyard manure— 5 tonnes N—10 kg P ₂ O ₅ —30 kg K ₂ O—10 kg	2-3 (summer)	60-70	1 cut	250-300	Annual
Farmyard manure— 20 tonnes N—80 kg (2 splits) P ₂ O ₅ —30 kg K ₂ O—20 kg	3-4	70-75, early cut 120 days, single cut	2-3 1 cut	400-450	Annual
Farmyard manure— 25 tonnes N—20 kg P ₂ O ₅ —60 kg K ₂ O—30 kg	Weekly inter- vals	60-70 days Subsequent cut 40 day intervals	4-5	750-800	Annual
Farmyard manure— 20 tonnes N—20 kg P ₂ O ₅ —80 kg K ₂ O—30 kg	8-10 days intervals	70-80 days Subsequent cut at 30-40 day intervals	9-10	800-1000	Perennial

Name of crop	Soil	Sowing time	Seed-rate (Kg/ha)	Row/Plant spacing (cm)
10. Senji (<i>Melilotus parviflora</i>)	Loam to clay loam	End of Sept. to October.	25-30	Broadcast
11. Hybrid Napier	Sandy loam to clay loam	Mar.-Aug. (N) Feb.-Nov. (S)	(i) 27,780 (ii) 33,346 (iii) 10,000 rooted slips	(i) 60×60cm (ii) 1 m×30 cm (iii) 1 m × 1m
12. Para grass (<i>Brachiaria mutica</i>)	Loam to clay loam, waterlogged and moist	Mar.-Aug. (N) Feb.-Nov. (S)	(i) 27,780	60 × 60 cm 50 × 60 cm
13. Rhodes grass (<i>Chloris gayana</i>)	Loam to sandy loam	Do.	5-8 or 27,780	60 × 60 cm
14. Guinea (<i>Panicum maximum</i>)	Loam to clay loam	Do.	3-4 kg. or 20,000 rooted slips	1m × 50 cm
15. Sudan grass (<i>Sorghum sudanense</i>)	Loam to sandy loam	Mid.Mar. to Mid.July	20-25	25-30
16. Mustard (<i>Brassica spp.</i>)	Sandy loam to loam	1st week of Sept. to 1st week of Oct.	6-8	30-40
17. Turnip	Loam to sandy loam	1st week of Sept. to 1st week of Oct.	4-5	25-30

Manuring/ha	Irrigation (Nos)	Harvesting (days)	Number of cuts	Fodder yield (q/ha)	Growth cycle
Farmyard manure— 5 tonnes N—10 kg P ₂ O ₅ —30 kg K ₂ O—20 kg	1-2	80-90 days	1-2	250-300	Annual
Farmyard manure— 25 tonnes N—40 kg after each cut P ₂ O ₅ —30 kg K ₂ O—20 kg	10-15 day intervals	1st cut—75 days Subsequent cuts at 45 day intervals	6-8 (N) 8-10 (S) 8-10 (S)	250-300 per 1200-1500 total (N) 2,000-2,500 (S) 2,500-2,800 (Overlapping)	Perennial
Farmyard manure— 25-30 tonnes N—40 kg after each cut P ₂ O ₅ —30 kg	2-3	1st cut—80-85 days Subsequent cuts 30-35 days	4-5 (N) 10-11 (S)	2,000-2,500 1,500-1,750	Perennial
Farmyard manure— 20 tonnes N—20 kg after each cut P ₂ O ₅ —30 kg	1-2	1st cut—80 days Subsequent cuts 30-35 days intervals	5-6 (N) 10-12 (S)	700-800 (N) 1,500-1,750	Perennial
Farmyard manure— 20-25 tonnes N—30-40 kg after each cut P ₂ O ₅ —30 kg	10-15 day intervals, except during the monsoon	1st cut—70-75 days Subsequent cuts at 40-45 days intervals	5-6 10-11	750-850 (N) 1,500-1,600 (S)	Perennial
Farmyard manure— 15-20 tonnes N—30 kg after each cut P ₂ O ₅ —20 kg	15-20 day intervals, except during monsoon	1st cut—50-60 days Subsequent cuts 40-45 days	3-4	400-500 1,000	Biennial
Farmyard manure— 10-15 tonnes N—30 kg	2-3	60-65 days	One	300-350	Annual
Farmyard manure— 10-12 tonnes N—60 kg (2 splits)	4-5	70-80 days	One	300-400	Annual

Table 1 (b). Package of practices

Name of crop	Rainfall (mm)	Soil	Sowing time	Seed-rate (Kg/ha)	Row/Plant spacing (cm)
1. Anjan (<i>Cenchrus ciliaris</i>)	125-1250	Light to medium well-drained	June-July (N) Feb.-Nov.(S)	5-6	50 × 30 75 × 50
2. Anjan (<i>Cenchrus setigerus</i>)	125-1250	Sandy to sandy loam	—do—	8-10	50 × 30 75 × 50
3. Marvel (<i>Dichanthium annulatum</i>)	300-2000	Medium to heavy	—do—	4-5	50 × 30 40 × 40
4. Dinanath (<i>Pennisetum pedicellatum</i>)	800-2000	Clay loam to sandy loam	—do—	8-9	50 × 30 60 × 40
5. Kasungla (<i>Setaria sphacelata</i>)	900-2000	Loam to clay loam	March-Aug. (N) Feb.-Nov. (S)	1.5-2.5 or 27,000-42000 seedlings	50 × 50 75 × 40
6. Sain (<i>Schima nervosum</i>)	300-2000	Red, dark, grey, gravelley	June-July	7-8	50 × 40 50 × 30
7. Siratro (<i>Marcopitium atropurpureum</i>)	500-1500	Sandy to sandy loam	June-July	7-8	50 × 30
8. Stylo (<i>Stylosanthes humilis</i>)	500-1500	Sandy surface soil	June-July	6-8	50 × 40 50 × 30
9. S. guianensis	900-2000	Sandy surface heavy soil	—do—	7-8	—do—
10. Bankulih (<i>Alylosia scarabaeoides</i>)	300-1000	Sandy loam, well-drained gravelley	June-July	10-12	50 × 30
11. Field bean (<i>Dolichos lablab var. lignosus</i>)	500-1000	Sandy to sandy loam	—do—	20-25	50 × 40 50 × 30
12. Butterfly pea (<i>Clitoria ternatea</i>)	300-1500	Sandy to	—do—	15-20	50 × 40

for pasture grasses and legumes

Manuring/ha	Weedings	No. of cuts	Cutting height (cm)	Cutting frequency (days)	Fodder yield (q/ha)	Growth cycle
Farmyard manure— 5 tonnes N—45 kg P ₂ O ₅ —20 kg K ₂ O—20 kg	One or two	One out—1st 2nd year 2-3 cuts	6-10	50-60	300-350	Perennial
—do—	—do—	—do—	—do—	—do—	250-300	Perennial
Farmyard manure— 5 tonnes N—60 kg P ₂ O ₅ —20 kg K ₂ O—20 kg	—do—	1st year, 1 cut 2nd year 2-3	6-8	40-50	200-250	Perennial
Farmyard manure— 10 tonnes N—90 kg P ₂ O ₅ —30 kg K ₂ O—20 kg	Two	1st—90 days 2nd—60 days	6-10	50-60	750-800 (W) 1000 (E)	Annual
Farmyard manure— 25 tonnes N—40 kg after each cut P ₂ O ₅ —30 kg	One or two	1st—70-80 days later 45-60 days	6-8	45-50	750-800 (N) (5 cuts) 1500 (S) (10 cuts)	Perennial
Farmyard manure— 10 tonnes N—60 kg P ₂ O ₅ —20 kg	One or two	1st year—1 cut 2nd—2-3	6-8	45-50	250-300	Perennial
Farmyard manure— 10 tonnes N—10 kg P ₂ O ₅ —40 kg	Two	1st year—1 cut 2nd year—2 cuts	8-10	60-70	200-250	Perennial
Farmyard manure— 10 tonnes N—10 kg P ₂ O ₅ —40 kg	Two	1st year—70-80 days 2nd year—60 days	6-8	60-70	200-250	Annual
—do—	Two	—do—	—do—	—do—	250-300	Perennial
Farmyard manure— 5 tonnes N—10 kg P ₂ O ₅ —40 kg	Two	1st year—1 cut 2nd year—2 cuts	8-10	50-60	70-125	Perennial
Farmyard manure— 15 tonnes N—10 kg P ₂ O ₅ —60 kg	One	1st year—1 cut 2nd year—60 days	8-10	—do—	200-250	Biennial
—do—	Two	—do—	8-10	—do—	150-200	Perennial