**Grasses and Their Management** 

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The primarily grass refers to the natural botanical family known as Gramineae or poaceae. The primary



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definition of grass as herbage in general or the plants on which grazing animals pasture or which are cut and dried as hay.

In popular term, the grass includes all the plants that are grazed by livestock. Grass belongs to the seed plant sun-kingdom Spermatophyta and there under (1)

to the sub divisional of angiosperms *i.e.* Angiospermae with rudimentary seeds (2) to the class monocotyledons,

the embryo of which have one cotyledons. Economically the grasses are probably of greater important than any other family plants. The common and most vital role of grasses is its use as fodder and pasture for the domestic animals more particularly ruminants.

Major forage genera exhibiting forage biodiversity include grasses like *Bothriochloa*, *Dichanthium*, *Cynodon*, *Panicum*, *Pennisetum*, *Cenchrus*, *Lasiurus*, etc. and browse plants such as *Leucaena*, *Sesbania*, *Albizia*, *Bauhinia*, *Cassia*, *Grewia*, etc. These genera besides many others form an integral part of feed and fodder resources of the country. For the people of lower classes and at the time of scarcity the seeds of certain

Table 1: Detail information of different grasses and their management					
Crops	Botanical name	Origin	Family	Time of sowing	Method of sowing
Napier grass	Pennisetum purpureum	South Africa	Gramineae	Pre monsoon in the month of June-July	By transplanting Stem cutting and rooted slips
Blue panic grass	Panicum antidotale	Rajasthan and north western region of India	Gramineae	Break of monsoon in the months of June and July	By raising seedlings and by propagation with rooted slips
Guinea grass	Panicum maximum	Africa	Gramineae	In June-July on set of monsoon	By transplanting Stem cutting and rooted slips
Dashrath grass (Hedge lucem)	Desmanthus virgatus	India	Gramineae	It can be sown in any season	By transplanting Stem cutting and rooted slips
Marvel grass (Jinjvo)	Dichanthium annulatum	India	Gramineae	In June-July on set of monsoon	By transplanting rooted slips
Anjan grass	Cenchrus ciliaris L.	India	Gramineae	In June-July on set of monsoon	By drill method and also by planting method
Dharaf grass	Chrysopogon fulvus	India	Gramineae	In June-July on set of monsoon	By direct seed sowing and by raising seedlings and then transplanting
Shaniyar grass	Sehima nervosum	India	Gramineae	Before on set of monsoon	By transplanting Stem cutting and rooted slips

Contd... Table 1

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Table 1 contd. Manure and fertilizer Yield Seed rate Spacing Varieties 10,000 stem cutting or root 100 x 100 cm Apply 10 t/ha of FYM, 2000-2500 q/ha per Pusa Giant Napier, Gajraj, Hybrid Napier slips for one hactare 50-30-30 NPK as basal dose 21, Pusa Napier-1 and 2, APBN-1 spacing year Apply 15 to 20 CL/ha of 1500-2000 q/ha per For raising seedlings, 400 to 60 x 60 cm Local Varieties, S-297 500 g of seed and 27777 root spacing is FYM, 40-00-00 NPK as basal vear slips for transplanting required dose 3 kg/ha, 10,000 stem cutting 100 x 100 cm Apply 10 t/ha of FYM, 1000 to 1500 q/ha Hamil, Coloniol, Galton or root slips for one hectare spacing required 40-40-30 NPK as basal dose green fodder in seven cutting 8 to 10 kg/ha 50 x 15 cm Apply 25 CL/ha of FYM, 75-80 t/ha green Local varieties spacing required 50-100-00 NPK basal fodder Seed rate Apply 20 t/ha of FYM, 1,60,000 to 2,50,000 rooted 50 x 25 cm 150-200 q/ha dry Local varieties slips are required/ha spacing is 15-00-00 NPK as basal dose grass required Irrigated crop gives 2 to 3 kg/ha seed rate 60 x 75 cm or Apply 10 t/ha of FYM, Pusa Giant, Anjan, Pusa yellow Anjan, Co-30-30-00 NPK as basal dose 75 x 75 cm 400 to 500 q/ha per 1,IGFRI-1, 1649, 2214, CAZRI-1, CAZRIyear green forage 76, CAZRI-413 4 to 5 kg/ha seed required 45 x 30 cm Apply 40 kg N/ha in two 200-400 g/ha in GAUD-1 (Gujarat Dharaf-1), Local Dhari equal splits. three cuts Dharaf spacing For seed sowing 4 to 5 kg 45 x 30 cm or Basal dose of 30 Kg N and 30 to 40 g dry Local variety and Gujarat Shaniyar-1 seeds/ha, and for 30 x 60 cm 10 Kg P2O5/ha be applied at fodder per hectare transplanting, 2 to 3 kg seed the time of sowing spacing are /ha required

other grasses such as common millet, broom corn millet,



Japanese millet and African millet have played an important role. Also seeds are used as feed for domestic animals.

Forage grasses are used for hay, pasture, soiling and silage. In addition there is natural grass grown in regular forest areas. Although, the total estimates of

grass produced through various sources in the state are

not available, the department of forest is developing fodder

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as a resource to be used for drought years. It maintains on average stock of 50 lakh metric tonns which is a quantity kept as a buffer stock for drought year and the figure is based on previous experience of

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requirement of fodder during drought year.



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