Know Your Turfgrass

Common Bermudagrass (Cynodon dactylon) Author: Vivek Govindasamy



This is a series of basic management guidelines for the different tropical turfgrass species.

More details are available in CUGE Standard CS B01:2010 Guidelines for Tropical Turfgrass Establishment and Maintenance, please visit:

http://www.cuge.com.sg/research/ catalog.php

Maintenance Practices for Cynodon dactylon

1. Lawn Construction

Necessary pre-plant operations: grading, drainage, rootzone soil modification, soil testing, starter fertiliser & soil amendment application - refer to CUGE Research Technical Note "Tropical Turfgrass Establishment: Lawn Construction" (RTN 01-2010)

2. Planting¹

Vegetative Methods:

- · Close turfing: irregular, small sod pieces placed togeth-
- Open turfing (plugging): 50 70 mm diameter rooted pieces planted on 300 mm centres
- · Close and open turfing result in irregular turf surface, requiring at least 2 post-plant topdressings and rollings
- Sodding: uniformly thick, cut turf sheets or rolls placed together. Roll after planting. Results in high quality, level turf surface

Seeding: 5 – 8 kg live seed/1000 square metres. Post seeding mulch required.

3. Mowing²

Streetscapes:

- · Not recommended for use in areas covered by tree canopies
- Height: 45 60 mm
- Frequency: 14 21 days
- Mower: Rotary or Flail (Backpack in irregular, obstructed areas)

Parks:

- Height: 25 40 mm
- Frequency: 7 12 days³
- Mower: Rotary or Flail (Backpack in irregular, obstructed areas)

Event and sports lawns:

- Height: 20 30 mm
- Frequency: 6 8 days
- Mower: Reel, Rotary or Flail (Backpack should not be used)

Checklist for Cynodon dactylon	
Turf Characteristics	Level
Density	High
Colour	Dark Green
Texture	Fine
Establishment	Fast
Fertility Requirement	High
Uses	
Streetscapes	Medium Maintenance
Parks	Medium Maintenance
Events/Sport Lawn	High Maintenance
Tolerance to:	
Traffic (trampling)	Good
Shade	Poor
Drought	Good
Wet Soil	Moderate
Diseases/ Insects	Moderate
Salinity	Good

4. Fertilisation⁴

Streetscapes: Not recommended for use in areas covered by tree canopies. 0.1 – 0.2 kg N/100 square metres/month Parks: 0.3 – 0.4 kg N/100 square metres/month Event and sports lawns: 0.5 – 0.7 kg N/100 square metres/month

5. Aerification (Hollow Or Solid Tining)⁵

Streetscapes: Not recommended for use in these areas Parks: Annually (low use) – every 1 to 3 months (high use) Event and sports lawns: Monthly

6. Topdressing

Streetscapes: If needed to repair and level field Parks: If needed to repair and level field

Event and sports lawns: Apply following aerification. Use either mature compost or coarse sand



Inflorescence details

7. Vertical Mowing

Annually (low use) - Every 6 months (high use)

Footnotes:

- 1. For more detailed planting instructions, including seedbed preparation, post seeding mulching, fertilisation, and irrigation, see RTN "Tropical Turfgrass Establishment: Planting" (RTN 02-2010)
- 2. For more detailed mowing instructions, see RTN "Tropical Turfgrass Mowing" (RTN 03-2010)
- 3. Mowing frequency and height are positively related, i.e. longer frequencies require greater heights.
- 4. Use turfgrass type fertiliser, with basic N-P-K ratio of 4-1-2 or 4-1-1. Properly calibrate spreader or sprayer to apply above rates on the basis of N (nitrogen), NOT total fertiliser (ex. urea is 45% N, therefore 1 kg N = 2.2 kg urea). For more detailed fertilisation instructions, see RTN "Tropical Turfgrass Fertilisation" (RTN 01-2011)
- 5. Either solid or hollow tines may be used. To be effective, penetration depth must be at least 70 mm. Actual depth of penetration needed will depend on extent and depth of soil compaction. To aid penetration, aerification should be done when soil is moist, but not wet (aerifying wet soils increases soil compaction)



