



CPVO

Community Plant Variety Office

DISCLAIMER

The present version of the national guideline has been accepted by the President of the CPVO for its use in technical examinations carried out on behalf of the CPVO or for the take-over of reports serving as a basis for a CPVO decision.

Simplified standard protocol

Examination office	CREA DC	
Reference of the protocol	National protocol	
Date of preparation of the protocol	01/01/2018	
Date of entry into force of the protocol	01/01/2018	
Botanical taxon:	<i>Cynodon x magennisii</i> Hurcombe (syn. <i>Cynodon dactylon x Cynodon transvaalensis</i> Burt-Davy)	
Common Name (when known):	Bermudagrass	
Way of propagation of the plants to be examined	Self or cross-pollinated seed propagated <input type="checkbox"/> Vegetatively propagated <input checked="" type="checkbox"/>	
Number of growing cycles:	1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> Other <input type="checkbox"/> specify Click or tap here to enter text.	
List of grouping characteristics	Yes <input type="checkbox"/> if yes put as annex No <input checked="" type="checkbox"/>	
Minimum number of plants in trial	Vegetative:80	Seed: Click or tap here to enter text.
Minimum number of plants observed by measuring or counting:	Vegetative:60	Seed: Click or tap here to enter text.
Give description of when observations should take place	The observations take place from June to October and in the next spring for each cycle of trial.	

Uniformity:

Cynodon x magennisii Hurcombe (syn. *Cynodon dactylon* x *Cynodon transvaalensis* Burt-Davy) is a vegetatively propagated species. Therefore, the assessment of uniformity of varieties belonging to this species will be based on the following criteria:

1. For qualitative and pseudo-qualitative characteristics: a population standard of 1% with an acceptance probability of 95% is applied. In case of a sample size of 80, the maximum number of off-types allowed is 2.
2. For quantitative characteristics measured on continue scale: the uniformity will be assessed through the calculation of standard deviation of each characteristic. Data obtained are subjected to ANOVA with the definition of DMS with $p < 0,05$. For quantitative characteristics measured on discontinue scale, , homogeneity is based on the assessment of the frequency distributions. Generally, the homogeneity requirement is satisfied when one modal class or two contiguous classes are clearly present.

Table of characteristics	Present <input checked="" type="checkbox"/> Not available <input type="checkbox"/>
Literature (when present, please annex to this document)	Present <input type="checkbox"/> Absent <input checked="" type="checkbox"/>



Table of characteristics

National n.	Characteristics	Test **	Note	Reference variety
1.	Ploidy	C QL		
	Diploid		2 <input type="checkbox"/>	
	Triploid		3 <input type="checkbox"/>	
	Tetraploid		4 <input type="checkbox"/>	
2.	Leaf sheath: hairness	VS A QN		
	Absent o very weak		1 <input type="checkbox"/>	
	Weak		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Strong		7 <input type="checkbox"/>	
	Very strong		9 <input type="checkbox"/>	
3.	Ligule: shape	VS A PQ		
	Rigid		1 <input type="checkbox"/>	
	membranous		2 <input type="checkbox"/>	
	Fringed		3 <input type="checkbox"/>	
4.	Ligule: anthocyanin coloration	VS A QN		
	Absent o very weak		1 <input type="checkbox"/>	
	Weak		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Strong		7 <input type="checkbox"/>	
	Very strong		9 <input type="checkbox"/>	
5.	Plant: time of inflorescence emergence	MS A QN		
	Early		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Late		7 <input type="checkbox"/>	
6.	Inflorescence: number of spikes	MS A QN		
	Low		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	High		7 <input type="checkbox"/>	
7.	Inflorescence: grow habit of the spikes	VS A QN		
	Upright		1 <input type="checkbox"/>	
	Horizontal		2 <input type="checkbox"/>	
	Patent		3 <input type="checkbox"/>	
8.	Inflorescence: anthocyanin coloration of spike rachis	VS A QN		
	Absent o very weak		1 <input type="checkbox"/>	
	Weak		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Strong		7 <input type="checkbox"/>	
	Very strong		9 <input type="checkbox"/>	
9.	Flag leaf: green color (at flowering time)	VS A QN		
	Light		3 <input type="checkbox"/>	Bayshore



National n.	Characteristics	Test **	Note	Reference variety
	Medium		5 <input type="checkbox"/>	
	Dark		7 <input type="checkbox"/>	Everglades, Floraturf
	Dark bluish		9 <input type="checkbox"/>	Ormond
10.	Flag leaf: hairness (at flowering time)	VS A QN		
	Absent o very weak		1 <input type="checkbox"/>	
	Weak		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Strong		7 <input type="checkbox"/>	
	Very strong		9 <input type="checkbox"/>	
11.	Flag leaf: growth habit (at flowering time)	VS A QN		
	Erect		1 <input type="checkbox"/>	
	Semi-erect		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Semi-prostrate		7 <input type="checkbox"/>	
	Prostrate		9 <input type="checkbox"/>	
12.	Flag leaf: length (at flowering time)	MS A QN		
	Short		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Long		7 <input type="checkbox"/>	
13.	Flag leaf: width (at flowering time)	MS A QN		
	Narrow		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Broad		7 <input type="checkbox"/>	
14.	Plant: growth habit of the tuft (at flowering time)	VS A QN		
	Erect		1 <input type="checkbox"/>	
	Semi-erect		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Semi-prostrate		7 <input type="checkbox"/>	
	Prostrate		9 <input type="checkbox"/>	Floraturf
15.	Plant: natural height (at flowering time)	MS A QN		
	Very short		1 <input type="checkbox"/>	
	Short		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Tall		7 <input type="checkbox"/>	
	Very tall		9 <input type="checkbox"/>	
16.	Plant: length of longest stem, inflorescence included (at flowering time)	MS A QN		
	Very short		1 <input type="checkbox"/>	
	Short		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Tall		7 <input type="checkbox"/>	
	Very tall		9 <input type="checkbox"/>	



National n.	Characteristics	Test **	Note	Reference variety
17.	Plant: shape of the longest stem in the middle part of the upper internode (at flowering time)	VS A PQ		
	Flat		1 <input type="checkbox"/>	
	Oval		2 <input type="checkbox"/>	
	Round		3 <input type="checkbox"/>	
18.	Plant: density of the tuft (at flowering time)	VS A QN		
	Lax		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Dense		7 <input type="checkbox"/>	
19.	Main stolon: length (at the end of flowering time)	MS A QN		
	Short		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Long		7 <input type="checkbox"/>	
20.	Main stolon: number of nodes	MS A QN		
	Low		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	High		7 <input type="checkbox"/>	
21.	Main stolon: antocyanin pigmentation	VS A QN		
	Absent o very weak		1 <input type="checkbox"/>	
	Weak		3 <input type="checkbox"/>	
	Medium		5 <input type="checkbox"/>	
	Strong		7 <input type="checkbox"/>	
	Very strong		9 <input type="checkbox"/>	

Legend:

A = observation on single spaced plants in field

C = laboratory analysis on plant material (young apex and leaves) collected from spaced plants in field.

VS: visual assessment by observation of individual plants or parts of plant

MS: measurement of a number of individual plants or parts of plant

