Technical Working Party on Testing Methods and Techniques T

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GRADING CRITERIA OF ANTHURIUM DUS QUANTITATIVE CHARACTERISTICS BY MULTIPLE COMPARISON

Document prepared by an expert from China

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The annex to this document contains a copy of a presentation "Grading Criteria of Anthurium DUS quantitative characteristics by multiple comparison", to be made by an expert from China, at the third session of the TWM.

[Annex follows]

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ANNEX





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Table 1. Variation	ns of quantitat	ive characte	ristics or	n <i>Anthuriu</i> i	<i>m.</i>	
	Minimum	Maximum	Mean	Median	Average SD	Intra-Variety CV/%
Plant size (cm)	22.95	67.175	39.99	39.34	2.87	7.18
Leaf blade length (cm)	10.36	38.53	19.95	18.84	1.44	7.22
Leaf blade width (cm)	5.25	22.08	11.58	11.09	0.90	7.77
Petiole length(cm)	7.59	49.21	21.86	19.65	2.21	10.11
Peduncle length (cm)	13.40	61.72	31.08	28.97	2.98	9.59
Peduncle thickness (mm)	2.08	6.93	3.91	3.82	0.38	9.72
Spathe size (cm)	4.46	16.29	9.23	9.32	0.83	8.99
Spadix length (cm)	2.13	9.55	4.37	4.17	0.40	9.15
spadix thickness (mm)	3.71	10.30	6.32	6.35	0.44	6.96

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2.Test of Normality of Quantitative Characteristics

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Characteristic			Negative Difference	K-S Value	Sigma Value	
Plant: size	0.078	0.078	-0.035	0.078	0.001	
Leaf blade: length	0.098	0.098	-0.063	0.098	0.000	
Leaf blade: width	0.081	0.081	-0.043	0.081	0.000	
Petiole: length	0.152	0.152	-0.082	0.152	0.000	
Peduncle: length	0.099	0.099	-0.054	0.099	0.000	
Peduncle: thickness	0.065	0.065	-0.035	0.065	0.013	
Spathe :size	0.034	0.034	-0.032	0.034	0.200	
Spadix: length	0.116	0.116	-0.067	0.116	0.000	
Spadix: thickness	0.044	0.044	-0.029	0.044	0.200	

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Table 4. The state interval established b	by three methods,	respectively.	
	Multiple Comparison Method	SD Method	LSD _{0.05} Method
Plant:size(cm)	6.60-7.00	5.70	5.60
Leaf blade: length(cm)	3.20-3.90	2.90	2.70
Leaf blade: width(cm)	2.10-2.50	1.80	1.80
Petiole: length(cm)	5.00-5.90	4.40	4.30
Peduncle: length(cm)	7.10-7.60	5.90	5.80
Peduncle: thickness(mm)	0.86-1.03	0.75	0.70
Spathe:size(cm)	2.49-2.60	1.70	2.00
Spadix: length(cm)	0.90-1.00	0.80	0.77
Spadix: thickness at the middle(mm)	1.00-1.10	0.87	0.84

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5.Effectiveness of Two Grading Cri Method	teria Se	et by SD	Metho	d and N	Iultiple (Comparis	ion 🕡	」」 STIANGIAI ACADEMY	良業件月 OF AGRICULTURAL	
Table 5. Grading ran	ge of q	uantitati [,]	ve chara	acteristi	cs of Ani	thurium.				
Cri	iteria 1(SD method)				Criteria 2(Multiple comparison)					
Note	1	2	3	4	5	6	7	8	9	
Dianticiza (ana)	19.0	26.0	32.9	39.6	46.4	53.0	60.0	67.0	74.0	
Plant.size(CIII)	13.5	19.2 ♦	25.0	30.7	36.5	42.2	48.0	53.7	59.5	
Leaf blade:length(cm)	13.1	16.3	19.6	23.1	26.6	30.5	34.0	37.5	41.0	
	11.6	14.5	17.4	20.3	23.1	26.0	28.9	31.8	38.7	
Leaf blade:width(cm)	4.1	6.2	8.5	10.7	12.9	15.1	17.5	19.6	22.1	
	6.6	8.4	10.2	12.0	13.8	15.6	17.4	19.2	22.1	
Petiole:length(cm)	7.1	12.2	17.4	23.0	28.0	33.1	38.3	43.4	49.3	
	8.6	13.0	17.4	21.9	26.3	30.7	35.1	39.6	49.3	
Peduncle: length(cm)	9.5	16.5	24.3	31.3	38.3	45.3	53.0	62.0	69.0	
	14.1	20.0	26.0	31.9	37.9	43.9	49.8	55.8	61.8	
Peduncle:thickness(mm)	1.5	2.4	3.26	4.12	5.0	5.9	6.93	7.83	8.73	
	1.9	2.7	3.4	4.2	4.9	5.7	6.4	7.2	7.9	
Spathe:size(cm)	1.2	3.7	6.2	8.71	11.2	13.7	16.3	18.8	21.3	
	5.1	6.8	8.5	10.2	11.8	13.5	15.1	16.8	18.4	
Creadivy Largeth (and)	1.96	2.86	3.8	4.8	5.7	6.7	7.7	8.7	9.7	
Spadix: length(cm)	2.2	3.0	3.8	4.6	5.4	6.2	7	7.8	8.6	
Creadivy thickness at the reidal (rere)	3.6	4.61	5.61	6.71	7.73	8.8	9.8	10.8	11.9	
Spadix: thickness at the middle(mm)	4.2	5.0	5.9	6.8	7.7	8.5	9.4	10.3	11.2	



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