

APPENDICES

Appendix 1

Morphological Comparison of *Amorphophallus* spp. Found.

Table Ai: Morphological comparison of *Amorphophallus* spp. found

Species	Corm				Leaf				
	Shape	Color	Diameter	Surface	Shape	Color	Diameter	Surface	Height
<i>A.paeoniifolius</i>	depressed-globose	dark brown, inside light brown	28cm	many rootscars	solitary, leaflets rounded ovate, acuminate	pale green to dark green with spots	1-7cm	Corrugate to strongly echinate-verrucate	10-200cm
<i>A.prainii</i>	depressed globose	dark brown, orangish inside	7cm	rotscars annuliform	solitary, occasionally paired, leaflets elongate elliptic	whitish, greenish or reddish brown with green spots	0.5-10 cm	smooth	10-210cm
<i>A.elegans</i>	Globose, sub-globose	brown	5-10cm	few rootscars	solitary, leaflets elongate elliptic	mid green with shades of dark green with grey spots	1-3cm	smooth but slightly rugulose at the base with large and small white spots	10-100cm

<i>A. oncophyllus</i> syn. <i>muellerii</i>	globose, depressed globose	dark brown, dull yellow inside	5-15cm	smooth, few root scars	solitary, some times two	olive green, green with numerous spots	1-4cm	smooth	10- 70cm
<i>A. elatus</i> syn. <i>variabilis</i>	elongate	Dirty whitish	4 cm	smooth	solitary, leaflets oblong-elliptic	uniformly pale green, with many blackish green spots	3.5-8 cm	smooth	50-100 cm
<i>A. bufo</i>	globose	light brown	5cm	few root scars	solitary	grey- greenish, dark reddish brown in several shades	3cm	smooth with rounded white spots	8-55cm

Species	Inflorescence				Fruit	
	Peduncle	Color	Spathe	Spadix	Shape	Color
<i>A.paeoniifolius</i>	Short	dark maroon outside, pale yellow inside	broad	Longer than spathe	elongate-ellipsoid	green, red when ripe
<i>A.prainii</i>	Short	pale white	broadly ovate	longer than spathe	elongate-ellipsoid	ripening red or orange red
<i>A.elegans</i>	Long	reddish-brown	elongate triangular	longer than spathe	unknown	unknown
<i>A.uncophyllus</i> syn. <i>muellerii</i>	Long	pale green outside, bright pale green inside	broad	longer than spathe	unknown	unknown
<i>A.elatus</i> syn. <i>variabilis</i>	Long	pale green or pale dirty pinkish	ovate triangular	longer than spathe	unknown	unknown
<i>A.bufo</i>	Long	reddish purple	narrowed towards the base	shorter than spathe	unknown	unknown

Appendix 2

Raw data: PCQ Method Analysis

Table Aii: Raw data for site 1 (Jerantut, Pahang) : Season 1

Species, i	n_i	Relative Density RD_i	Absolute Density D_i	No of points with species J_i	Frequency F_i	Relative Frequency RF_i	Total area covered A_i	Coverage C_i	Relative Coverage RC_i	Importance Value IV_i
<i>Eugenia</i>	1	0.0357	0.0136	1	0.1429	0.0357	50.27	0.6829	0.0325	0.1039
<i>Amorphophallus</i>	4	0.1429	0.0543	4	0.5714	0.1429	75.61	1.0271	0.0489	0.3346
<i>Durio</i>	3	0.1071	0.0408	3	0.4286	0.1071	495.85	6.7359	0.3204	0.5347
<i>Lansium</i>	3	0.1071	0.0408	3	0.4286	0.1071	142.18	1.9315	0.0919	0.3062
<i>Alocasia</i>	4	0.1429	0.0543	4	0.5714	0.1429	61.47	0.8350	0.0397	0.3254
<i>Caryota</i>	2	0.0714	0.0272	2	0.2857	0.0714	78.55	1.0671	0.0508	0.1936
<i>Calamus</i>	3	0.1071	0.0408	3	0.4286	0.1071	37.9	0.5149	0.0245	0.2388
<i>Hevea</i>	2	0.0714	0.0272	2	0.2857	0.0714	85.03	1.1551	0.0549	0.1978
<i>Nephelium</i>	1	0.0357	0.0136	1	0.1429	0.0357	314.2	4.2683	0.2030	0.2744
<i>Artocarpus</i>	1	0.0357	0.0136	1	0.1429	0.0357	19.64	0.2668	0.0127	0.0841
<i>Areca</i>	2	0.0714	0.0272	2	0.2857	0.0714	47.92	0.6510	0.0310	0.1738
<i>Arenga</i>	1	0.0357	0.0136	1	0.1429	0.0357	50.27	0.6829	0.0325	0.1039
<i>Grewia</i>	1	0.0357	0.0136	1	0.1429	0.0357	88.76	1.2058	0.0574	0.1288
Total	28				4.0000		1547.65	21.0242		

Table Aiii: Raw data for site 1 (Jerantut, Pahang): Season 2

Species	n_i	Relative Density RD_i	Absolute Density D_i	No of points with species J_i	Frequency F_i	Relative Frequency RF_i	Total area covered A_i	Coverage C_i	Relative Coverage RC_i	Importance Value IV_i
<i>Amorphophallus</i>	9	0.3214	0.0961	9	1.2857	0.3214	140.03	1.4957	0.0946	0.7374
<i>Alocasia</i>	6	0.2143	0.0641	6	0.8571	0.2143	157.11	1.6781	0.1061	0.5347
<i>Lansium domesticum</i>	3	0.1071	0.0320	3	0.4286	0.1071	233.46	2.4936	0.1577	0.3719
<i>Naphelium lappacium</i>	1	0.0357	0.0107	1	0.1429	0.0357	314.2	3.3560	0.2122	0.2836
<i>Caryota mitis</i>	2	0.0714	0.0214	2	0.2857	0.0714	107.2	1.1450	0.0724	0.2152
<i>Areca sp.</i>	2	0.0714	0.0214	2	0.2857	0.0714	98.19	1.0488	0.0663	0.2092
<i>Calamus</i>	3	0.1071	0.0320	3	0.4286	0.1071	99.96	1.0677	0.0675	0.2818
<i>Grewia globulifera</i>	2	0.0714	0.0214	2	0.2857	0.0714	330.7	3.5323	0.2233	0.3662
Total	28	1.0000			4.0000			15.8172		

Table Aiv: Raw data for site 1 (Jerantut, Pahang): Season 3

Species	n_i	Relative Density RD_i	Absolute Density D_i	No of points with species J_i	Frequency F_i	Relative Frequency RF_i	Total area covered A_i	Coverage C_i	Relative Coverage RC_i	Importance Value IV_i
<i>Lansium domesticum</i>	3	0.1071	0.0472	3	0.4286	0.1071	126.47	1.9885	0.0466	0.2609
<i>Amorphophallus</i>	11	0.3929	0.1730	11	1.5714	0.3929	207	3.2546	0.0763	0.8620
<i>Caryota</i>	2	0.0714	0.0314	2	0.2857	0.0714	37.9	0.5959	0.0140	0.1568
<i>Grewia</i>	2	0.0714	0.0314	2	0.2857	0.0714	82.67	1.2998	0.0305	0.1733
<i>Alocasia</i>	5	0.1786	0.0786	5	0.7143	0.1786	89.75	1.4111	0.0331	0.3902
<i>Calamus</i>	2	0.0714	0.0314	2	0.2857	0.0714	26.71	0.4200	0.0098	0.1527
<i>Areca</i>	1	0.0357	0.0157	1	0.1429	0.0357	45.37	0.7133	0.0167	0.0882
<i>Arenga</i>	1	0.0357	0.0157	1	0.1429	0.0357	962.24	15.1292	0.3548	0.4262
<i>Nephelium</i>	1	0.0357	0.0157	1	0.1429	0.0357	1134.26	17.8339	0.4182	0.4896
Total	28	1.0000			4.0000			42.6464		

Table Av: Raw data for site 2 (Kuala Kangsar, Perak): Season 1

Species, i	n_i	Relative Density RD_i	Absolute Density D_i	No of points with species J_i	Frequency F_i	Relative Frequency RF_i	Total area covered A_i	Coverage C_i	Relative Coverage RC_i	Importance Value IV_i
<i>Baccauria</i>	2	0.0714	0.1853	2	0.2857	0.0714	512.9300	47.5266	0.1390	0.2819
<i>Lansium</i>	6	0.2143	0.5559	6	0.8571	0.2143	675.5300	62.5927	0.1831	0.6116
<i>Mangifera</i>	2	0.0714	0.1853	2	0.2857	0.0714	355.0500	32.8979	0.0962	0.2391
<i>Amorphophallus</i>	4	0.1429	0.3706	4	0.5714	0.1429	84.2500	7.8064	0.0228	0.3085
<i>Alpinia</i>	2	0.0714	0.1853	2	0.2857	0.0714	16.6900	1.5464	0.0045	0.1474
<i>Hevea</i>	3	0.1071	0.2780	3	0.4286	0.1071	258.4300	23.9454	0.0700	0.2843
<i>Durio</i>	2	0.0714	0.1853	2	0.2857	0.0714	706.9500	65.5040	0.1916	0.3344
<i>Areca</i>	2	0.0714	0.1853	2	0.2857	0.0714	106.8300	9.8986	0.0290	0.1718
<i>Artocarpus</i>	3	0.1071	0.2780	3	0.4286	0.1071	356.6200	33.0434	0.0966	0.3109
<i>Nephelium</i>	1	0.0357	0.0927	1	0.1429	0.0357	415.5300	38.5018	0.1126	0.1840
<i>Cocos nucifera</i>	1	0.0357	0.0927	1	0.1429	0.0357	201.0900	18.6324	0.0545	0.1259
Total	28				4.0000			341.8957		

Table Avi: Raw data for site 2 (Kuala Kangsar, Perak): Season 2

Species, i	n_i	Relative Density RD_i	Absolute Density D_i	No of points with species J_i	Frequency F_i	Relative Frequency RF_i	Total area covered A_i	Coverage C_i	Relative Coverage RC_i	Importance Value IV_i
<i>Durio</i>	5	0.1786	0.0510	5	0.7143	0.1786	1626.77	16.5891	0.2814	0.6386
<i>Baccauria</i>	1	0.0357	0.0102	1	0.1429	0.0357	63.63	0.6489	0.0110	0.0824
<i>Amorphophallus</i>	11	0.3929	0.1122	11	1.5714	0.3929	239.6	2.4433	0.0414	0.8272
<i>Hevea</i>	3	0.1071	0.0306	3	0.4286	0.1071	2490.23	25.3942	0.4308	0.6451
<i>Alpinia</i>	1	0.0357	0.0102	1	0.1429	0.0357	7.07	0.0721	0.0012	0.0727
<i>Lansium</i>	1	0.0357	0.0102	1	0.1429	0.0357	78.55	0.8010	0.0136	0.0850
<i>Areca</i>	2	0.0714	0.0204	2	0.2857	0.0714	249.01	2.5393	0.0431	0.1859
<i>Artocarpus</i>	2	0.0714	0.0204	2	0.2857	0.0714	88.76	0.9051	0.0154	0.1582
<i>Cocos</i>	1	0.0357	0.0102	1	0.1429	0.0357	804.35	8.2024	0.1391	0.2106
<i>Theobroma</i>	1	0.0357	0.0102	1	0.1429	0.0357	132.75	1.3537	0.0230	0.0944
Total					4.0000			58.9491		

Table Aviii: Raw data for site 2 (Kuala Kangsar, Perak): Season 3

Species, i	n_i	Relative Density RD_i	Absolute Density D_i	No of points with species J_i	Frequency F_i	Relative Frequency RF_i	Total area covered A_i	Coverage C_i	Relative Coverage RC_i	Importance Value IV_i
<i>Amorphophallus</i>	13	0.4643	0.1258	13	1.8571	0.4643	142.14	1.3750	0.0583	0.9869
<i>Baccauria</i>	1	0.0357	0.0097	1	0.1429	0.0357	63.63	0.6155	0.0261	0.0975
<i>Alpinia</i>	1	0.0357	0.0097	1	0.1429	0.0357	7.07	0.0684	0.0029	0.0743
<i>Hevea</i>	4	0.1429	0.0387	4	0.5714	0.1429	816.52	7.8988	0.3351	0.6208
<i>Micrococus</i>	1	0.0357	0.0097	1	0.1429	0.0357	78.55	0.7599	0.0322	0.1037
<i>Artocarpus</i>	1	0.0357	0.0097	1	0.1429	0.0357	7.07	0.0684	0.0029	0.0743
<i>Areca</i>	1	0.0357	0.0097	1	0.1429	0.0357	153.96	1.4894	0.0632	0.1346
<i>Lansium</i>	4	0.1429	0.0387	4	0.5714	0.1429	234.08	2.2644	0.0961	0.3818
<i>Durio</i>	2	0.0714	0.0193	2	0.2857	0.0714	933.96	9.0349	0.3832	0.5261
Total	28	1			4.0000			23.5747		

Appendix 3

Poster Presentation in The 3rd Regional Conference on Natural Resources in The Tropics (NRTrop3): 3rd-5th August 2009



Figure Ai: Poster on distribution of *Amorphophallus* spp. in Peninsular Malaysia