An Evaluation Of Northern Jarrah Forest Arboreta
For Potential Reafforestaion Species

ATTACHMENT 3

GEORGE UPLAND ARBORETUM - FIELD GUIDE AND 1985 PERFORMANCE ANALYSIS

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GEORGE UPLAND

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INTRODUCTION

This booklet has been designed primarily for use as a directory for observers. It presents location maps, field guides, plot information and results for George Upland Arboretum.

Separate graphs are presented for height, diameter, form, vigour, survival and "Rating" (ie. equal combination of height, diameter, form and vigour). For each parameter measured, plots are presented in logical sequence (starting with plot 1). Hence, travelling through an arboretum the point on the graph corresponding to a particular plot can be readily located and compared with neighbouring plots (means and 95% confidence intervals are supplied for all graphs except that for survival).

Figure GU-1: Location of GEORGE UPLAND

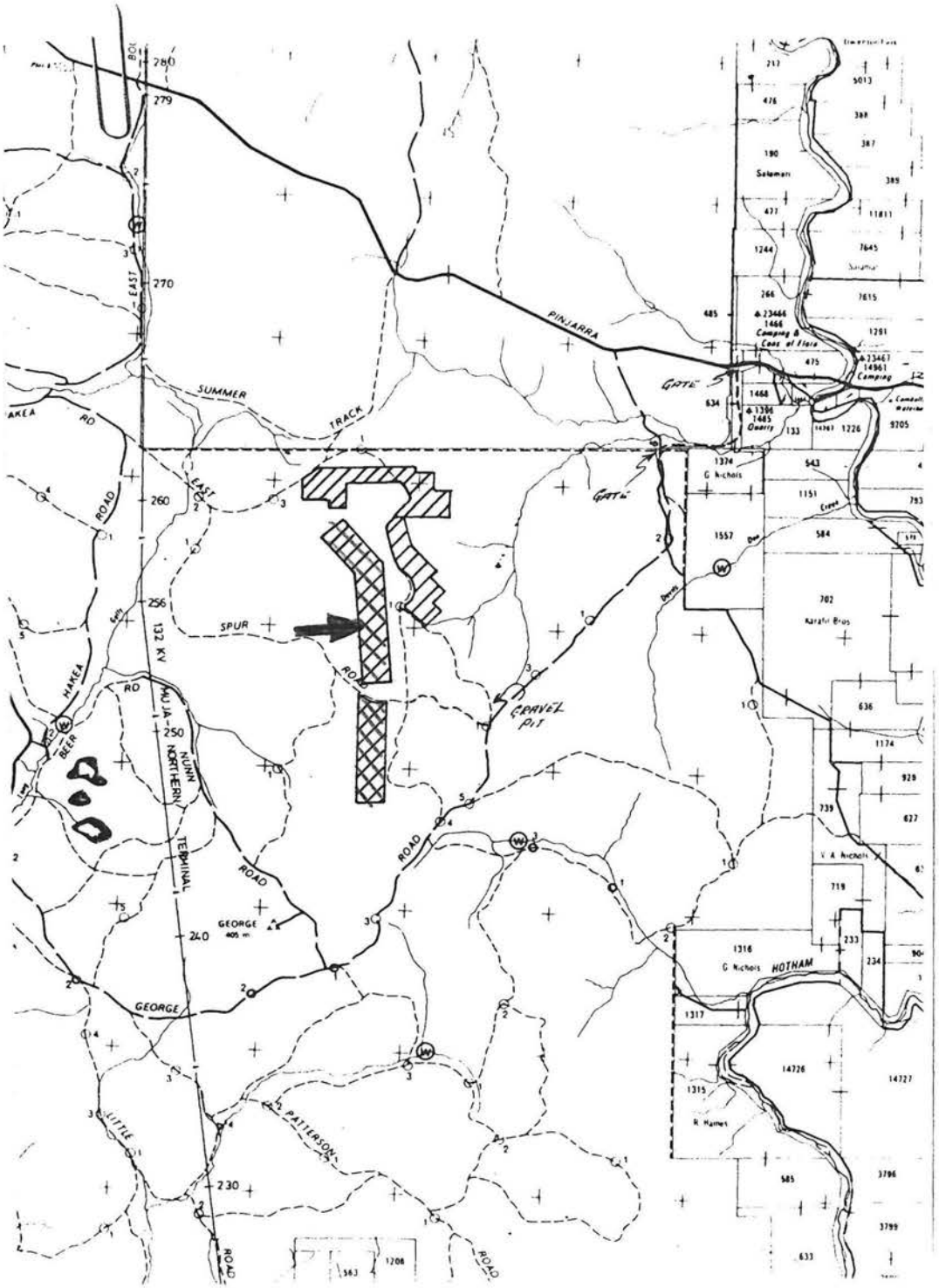


Figure GU-2: Plot Layout of GEORGE UPLAND

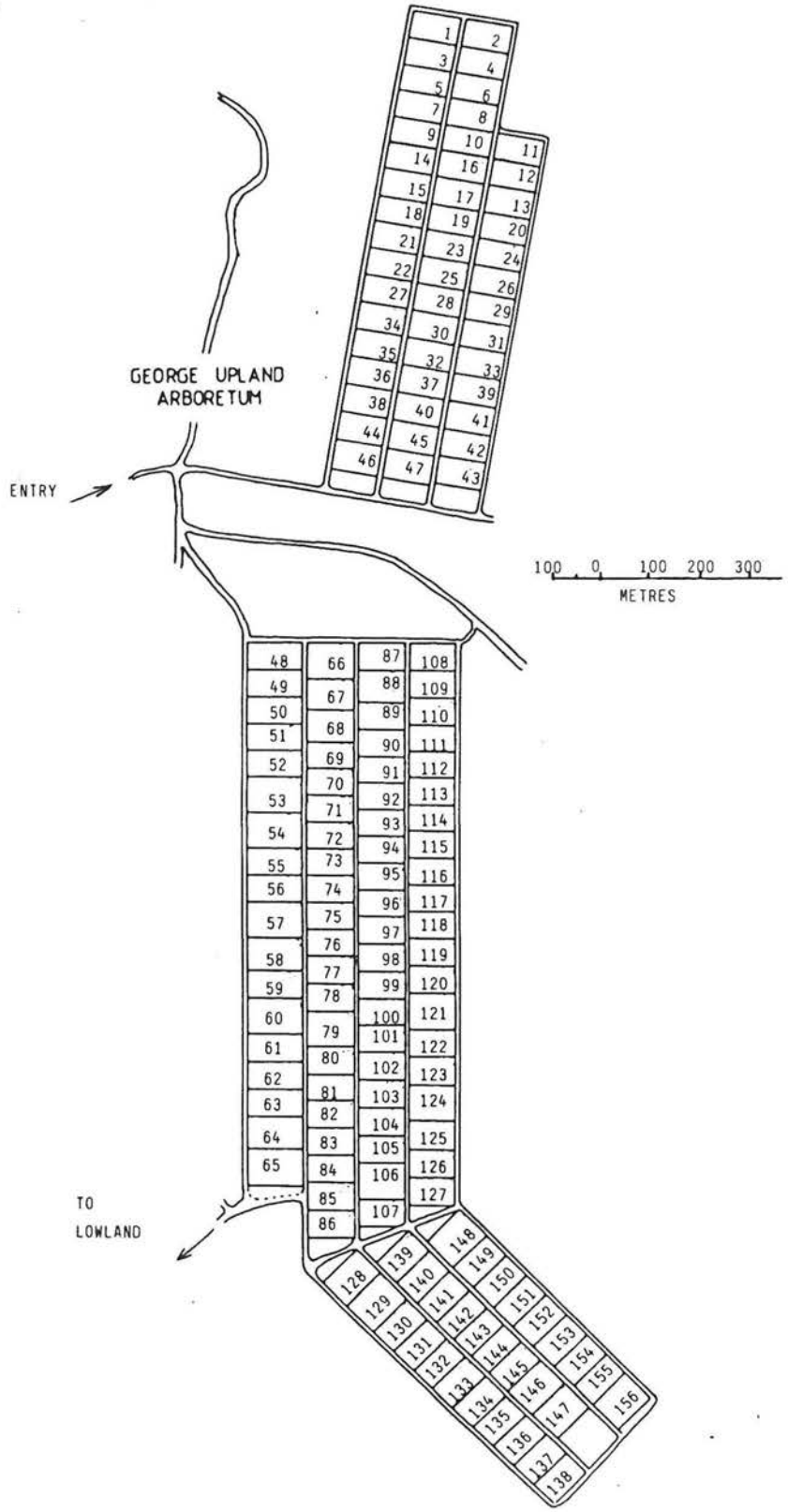


TABLE GU-1 : PROVENANCE INFORMATION FOR GEORGE UPLAND ARBORETUM

Plot	Species	Seedlot	Provenance
1	E.astringins	4716	F.D. Narrogin WA
2	E.astringins	4716	F.D. Narrogin WA
3	E.gomphocephala	6090	Ludlow WA
4	E.gomphocephala	6090	Ludlow WA
5	E.occidentalis	6542	Kalgoorlie (Scadden) WA
6	E.occidentalis	6542	Kalgoorlie (Scadden) WA
7	E.cladocalyx	11834	Gilgandra NSW 280m
8	E.cladocalyx	11834	Gilgandra NSW 280m
9	E.gardenerii	6228	Narrogin F.D. WA
10	E.melliodora	11860	Kambar ACT 600m
11	E.melliodora	11860	Kambar ACt 600m
12	E.melliodora (rosea)	11827	E.Trangie NSW 210m
13	E.melliodora	12640	Beaufort Vic 370m
14	E.maculata	11181	Hunter Valley NSW 20m
15	E.maculata	11181	Hunter Valley NSW 20m
16	E.globulus	6291	Tas?
17	E.globulus	6291	Tas?
18	E.sideroxylon (Tricarpa)	12636	W.Puckapunyal Vic 360m
19	E.sideroxylon (sid.)	11844	S.E.Gilgandra NSW 300m
20	E.sideroxylon (sid.)	11844	S.E.Gilgandra NSW 300m
21	E.resinifera	6011	Gleneagle Arboretum WA
22	E.resinifera	11963	Medowie S.F. NSW 20m
23	E.accedens	6215	Narrogin F.D. WA
24	E.accedens	6215	Narrogin F.D. WA
25	E.wandoo	6218	Narrogin F.D. WA
26	E.wandoo	6218	Narrogin F.D. WA
27	E.resinifera	10962	S.Helenvale Qld 170m
28	E.resinifera	10962	S.Helenvale Qld 170m
29	E.calophylla	6391	Ex Research Como WA
30	E.calophylla	6336	F.D. Narrogin WA
31	E.calophylla	6336	F.D. Narrogin WA
32	E.marginata	6471	George Block & Dwp collection WA
33	E.marginata	6471	George Block & Dwp collection WA
34	E.citriodora	6240	WA Unknown
35	E.citriodora	12012	Dawson Range NSW 180m
36	E.citriodora	11640	Fairview Stn Qld 400m
37	E.citriodora	11640	Fairview Stn Qld 400m
38	E.citriodora	18767	Unknown
39	E.camaldulensis	6966	Angaston SA 640m
40	E.camaldulensis	11910	L.Albacutya Vic 60m
41	E.camaldulensis	11910	L.Albacutya Vic 60m
42	E.camaldulensis	10089	Horsham Vic 150m
43	E.camaldulensis	11340	Minlaton SA 60m
44	Pinus radiata	-	
45	Pinus radiata	-	
46	Pinus pinaster	-	
47	Pinus pinaster	-	
48	E.marginata	6229	Marrinup Block Dwp WA
49	E.marginata	6471	George Block & Dwp collection WA
50	E.patens	6138	From Dwellingup collection? WA
51	E.laeliae	6230	Ex Research Dwellingup WA?
52	E.megacarpa	6451	Kelmscott? WA

TABLE GU-1 : (continued)

53	E.gomphocephala	6090	Ludlow WA
54	E.rudis	6295	Ex F.D. Kelmscott? WA
55	E.wandoo	4886	Ashcliffe Rd Harvey WA
56	E.wandoo	6218	Narrogin F.D. WA
57	E.accedens	6215	Narrogin F.D. WA
58	E.kondininensis	6203	L.Pallorup Lake Grace WA
59	E.sargentii	6467	Ex F.D. Kalgoorlie WA
60	E.spathulata	6221	Narrogin Arboretum WA
61	E.platypus	6004	2km South Borden WA
62	E.lehmanii	6267	
63	E.salmonophloia	6460	Ex F.D. Kalgoorlie WA
64	E.salubris	6461	S.E. Coolgardie WA
65	E.oleasa	6462	W.Celebration
66	E.longicornis	6463	Ex F.D. Kalgoorlie WA
67	E.flocktoniae	6464	Ex F.D. Kalgoorlie WA
68	E.transcontinentalis	6465	Ex F.D. Kalgoorlie WA
69	E.griffithsii	6466	Ex F.D. Kalgoorlie WA
70	E.aromaphloia	11311	Mt Lonarch Vic
71	E.aromaphloia	12641	N.E. Halls Gap Vic 170m
72	E.dives	8417	Tumut NSW 270m
73	E.dives	10064	Carabost NSW 610m
74	E.goniocalyx	12098	L.George NSW 660m
75	E.goniocalyx	12637	E.Tooborac Vic 410m
76	E.goniocalyx	12643	S.Halls Gap Vic 390m
77	E.macrorrhyncha	11165	Uriarra Forest ACT 150m?
78	E.macrorrhyncha	12630	Lima South Vic 480m
79	E.manifera (maculosa)	12159	Yass NSW?
80	E.radiata (radiata)	11983	Braidwood-Nerriga NSW 820m
81	E.radiata (radiata)	12631	Yass NSW?
82	E.viminalis	8911	Rocky Riv. SA 110m
83	E.viminalis	9320	S.W. Port Lincoln SA?
84	E.viminalis	11823	Eildon Vic 550m
85	E.viminalis	12400	Blue Range Vic 1000m
86	E.rubida	12029	Bothwell Tas 550m
87	E.crebra	12506	W.Emerald Qld 480m
88	E.mellanophloia	6959	N.Charleville Qld 410m
89	E.botryoides	12104	W.Orbost Vic 30m
90	E.botryoides	7509	Bodalla NSW 30m
91	E.robusta	10176	Huskisson NSW 3m
92	E.robusta	10063	Port Stephens NSW 30m
93	E.polyanthermos	10730	Heathcote Vic 240m
94	E.polyanthermos	11307	Glen Maggie Vic 25m
95	E.microcarpa	12638	Tooborac Vic 440m
96	E.microcarpa	12633	Heathcote Vic 240m
97	E.microcarpa	8758	Parkes NSW 270m
98	E.leucoxylon	9598	St.Arnaud Vic 230m
99	E.leucoxylon	9597	Arnaud Vic 230m
100	E.leucoxylon	10100	Meredith Vic 300m
101	E.leucoxylon	9604	Flinders Range SA 460m
102	E.leucoxylon	9602	Williamstown SA 430m
103	E.leucoxylon	9601	Ashbourne Area SA 150m
104	E.cladocalyx	6470	Collie WA?
105	E.cladocalyx	11834	Gilcandra NSW 280m
106	E.huberiana	7248	Williamstown SA 430m
107	E.rubida	12089	Glendale Crossing ACT 800m
108	E.botryoides	12134	Meroo Pt NSW 9m
109	E.paniculata	11600	N. of Raymond Tce NSW 225m

TABLE GU-1 : (continued)

110	E.paniculata	11741	S.W. Grafton NSW 300m
111	E.paniculata	12137	W.Wandandian NSW 213m
112	E.maculata	9448	Kiola S.F. NSW?
113	E.maculata	10728	Beaufort Vic 460m
114	E.maculata	11181	Hunter Valley NSW 20m
115	E.maculata	11965	Coffs Harbour NSW 300m
116	E.maculata	4817	Kirup WA?
117	E.ochrophloia	8584	Tongo NSW 80m
118	E.ochrophloia	11731	S.Quilpie Qld 180m
119	E.crebra	11784	Gilgandra NSW 280m
120	E.crebra	12010	E.Coonabarabran NSW 510m
121	E.radiata	8525	Black Range Vic 210m
122	E.melanophloia	9723	Hebel District Qld 150m
123	E.melanophloia	10783	NE Narrabri NSW 360m
124	E.fasciculosa	7251	Williamstown SA 430m
125	E.loxophleba	6150	F.D. Narrogin WA
126	E.decorticans	10148	Murgon Qld 300m
127	E.falcata	6438	Stokes Block Dryandra S.F.
128	E.drepanophylla	11412	N.Marlborough Qld 120m
129	E.saligna	6234	Williams Spring Arboretum
130	E.microtheca	12538	Murchison R. WA 160m
131	E.microtheca	12497	NE Blackall Qld 283m
132	E.microtheca	11347	NW Coonamble NSW 170m
133	E.intertexta	11630	Nyngan NSW 170m
134	E.intertexta	11736	Girilambone NSW 250m
135	E.intertexta	12470	W. of St George Qld 200m
136	E.largiflorens	10676	L.Aibacutyavic 75m
137	E.largiflorens	11912	L.Aibacutyavic 60m
138	E.largiflorens	12644	N.W. Horsham Vic 100m
139	E.baxterii	10012	Grampian Mts Vic 300m
140	E.baxterii	10091	Grampian Mts Winmera Vic 300m
141	E.baxterii	12642	S.Halls Gap Vic 390m
142	Marginata provinence trial		
143	E.oderata	6703	Wirrabarra SA 240m
144	E.woollsiana	8831	Gilgandra NSW 270m
145	E.woollsiana	12105	West Wyalong NSW?
146	E.mollucana	10154	Coxs Gap NSW 550m
147	E.crebra	8756	Dubbo NSW 340m
148	E.gardenerii	6228	Dryandra Western Section
149	E.cypellocarpa	12390	N of Erica Vic?
150	E.cypellocarpa	9440	Fitzroy Falls NSW 760m
151	E.pilularis	12136	Meroo Pt. Road NSW 40m
152	E.pilularis	12158	S.Port Stephens NSW 30m
153	E.albens	8827	Tooraweenah NSW 335m
154	E.albens	10457	Gilgandra NSW 290m
155	E.albens	12632	Tongio Gap Vic 720m
156	E.resinifera	10431	N. of Woolgoolga NSW 6m

RESULTS

Plot by plot results detailing means, upper and lower 95% confidence limits for height, diameter, form,vigour and rating are listed in Table GU-3 towards the end of this booklet. Survival, and the presence/absence of evidence of stem borers, termites and cambial splits within each plot is also noted in Table GU-3.

Comparing the mean rating of each of the plots, the top 20 plots (ranked from best to worst) are listed in Table GU-2.
Plots which have had the caprock shattered with explosives have been excluded.

Comparing the mean rating of each of the plots, the top 10 plots (ranked from best to worst) are listed in Table GU-2, below.

The following figures display plot-by-plot graphs of mean and 95% confidence interval for height (Figure GU-3), diameter (Figure GU-4) form (Figure GU-5), vigour (Figure GU-6) and mean for survival (Figure GU-7).

Figure GU-8 presents a plot-by-plot graph of Rating (ie combination of height, diameter, form and vigour).

TABLE GU-2 LISTING OF TOP 20 PLOTS (IN ORDER OF RATING)

PLOT	SPECIES	SEEDLOT	DEFECT	
				B E S T
90	E.botryoides	7509		
16	E.globulus	6291		
104	E.cladocalyx	6470	C	
105	E.cladocalyx	11834	C	
108	E.botryoides	12134		
89	E.botryoides	12104		
129	E.saligna/botryoides	6234		
149	E.cypellocarpa	12390		
7	E.cladocalyx	11834		
151	E.pilularis	12136	B	
78	E.macrorhyncha	12630		
3	E.gomphocephala	6090	C	
44	Pinus radiata	5086/7		
107	E.rubida	12089	C	
106	E.huberiana	7248	C	
152	E.pilularis	12158	B	
156	E.resinifera	10431	B	
116	E.maculata	4817		
82	E.viminalis	8911		
115	E.maculata	11965		

SYMBOLS : B = BORER OCCURRENCE NOTED IN PLOT
T = TERMITE OCCURRENCE NOTED IN PLOT
C = CAMBIAL SPLITS NOTED IN PLOT
S = SURVIVAL LESS THAN 50%

TABLE GU-3 :

PLOT BY PLOT TABLE OF RESULTS

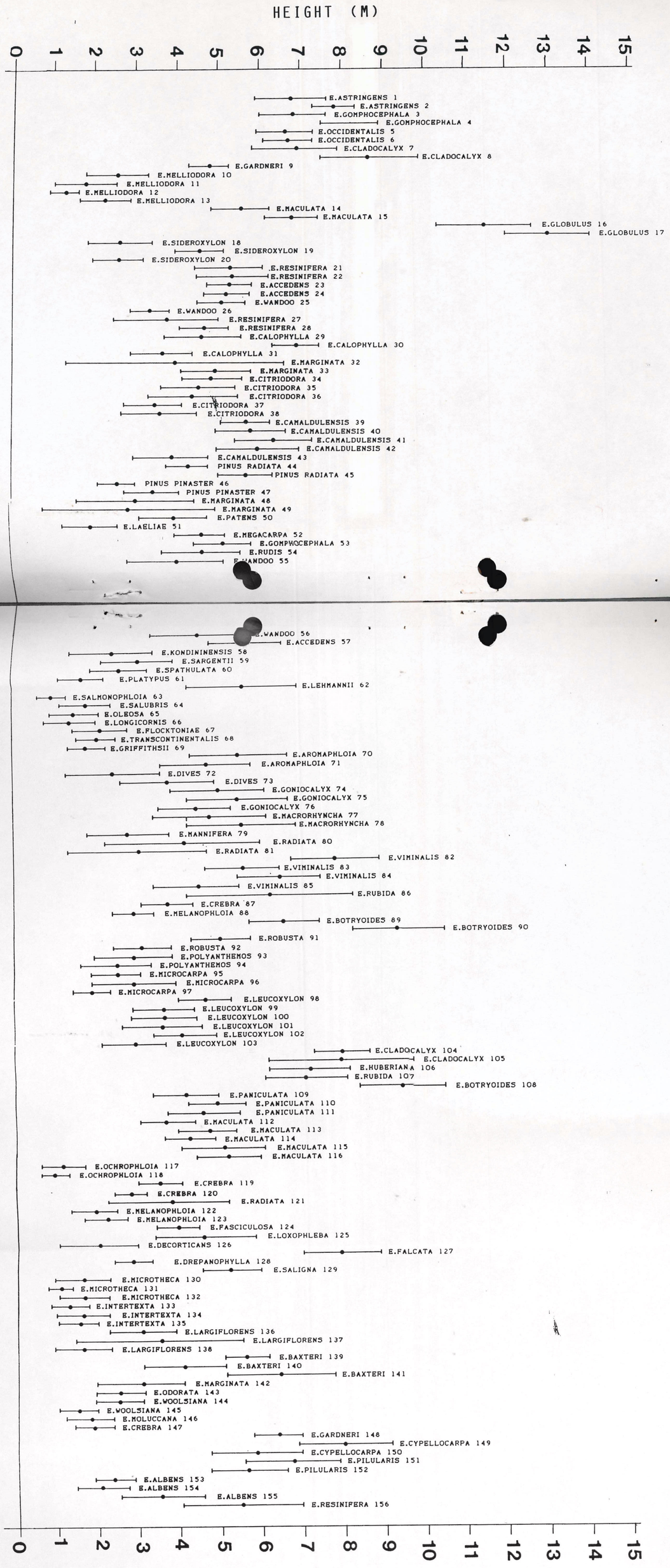
-MEANS AND 95% CONFIDENCE INTERVALS-

PLOT NO	SPECIES & SEEDLOT	ARB	SURV (%)	BORER	TERM	STEM SPLIT	HEIGHT ^cu	HEIGHT vcu	HEIGHT x	DIAMETER ^cu	DIAMETER vcu	DIAMETER x	FORM ^cu	FORM vcu	FORM x	VIGOUR ^cu	VIGOUR vcu	VIGOUR x	RATING ^cu	RATING vcu	RATING x
1	E.ASTRINGENS 4716	GU	66			Y	7.61	5.87	6.74	8.7	6.5	7.6	0.65	0.14	0.39	2.62	2.27	2.55	37.1	28.2	32.6
2	E.ASTRINGENS 4716 ****	GU	98	Y	Y		8.33	7.30	7.81	9.2	7.7	8.4	0.32	0.04	0.18	2.81	2.27	2.54	37.2	29.3	33.3
3	E.GOMPHOCEPHALA 6090	GU	87			Y	7.64	6.03	6.83	9.3	7.1	8.2	1.30	0.70	1.00	2.64	2.14	2.39	41.3	30.7	36.0
4	E.GOMPHOCEPHALA 6090****	GU	94	Y	Y	Y	8.91	7.51	8.21	12.2	9.8	11.0	1.31	0.64	0.97	2.57	2.14	2.35	43.9	35.6	39.6
5	E.OCCIDENTALIS 6542	GU	85				7.28	5.95	6.61	7.5	5.9	6.7	1.04	0.44	0.74	2.33	1.90	2.11	35.7	26.6	31.1
6	E.OCCIDENTALIS 6542 ****	GU	89				7.28	6.14	6.71	10.3	8.1	9.2	1.11	0.54	0.82	2.78	2.22	2.50	40.2	32.6	36.4
7	E.CLADOCALYX 11834	GU	61				7.90	5.83	6.86	11.2	7.6	9.4	1.61	0.96	1.29	3.23	2.39	2.81	49.1	34.0	41.6
8	E.CLADOCALYX 11834 ****	GU	60				9.87	7.52	8.69	15.2	11.5	13.4	1.27	0.52	0.89	3.39	2.72	3.05	51.9	40.6	46.3
9	E.GARDNERI 6226	GU	96	Y			5.24	4.29	4.76	5.7	4.2	4.9	0.06	-0.03	0.03	2.36	1.86	2.11	28.6	17.3	22.9
10	E.MELLIODORA 11860 ****	GU	74				3.26	1.80	2.53	5.6	2.8	4.2	0.09	-0.03	0.03	1.99	1.33	1.65	20.9	12.7	16.8
11	E.MELLIODORA 11860	GU	46				2.33	1.02	1.78	5.5	1.7	3.6	0.00	0.00	0.00	2.03	1.26	1.65	19.5	10.4	14.9
12	E.MELLIODORA 11827	GU	57				1.56	0.90	1.24	2.5	1.2	1.8	0.19	-0.06	0.06	1.53	1.03	1.28	13.6	8.4	11.0
13	E.MELLIODORA 12640	GU	74				2.87	1.64	2.25	4.4	2.6	3.5	0.24	0.01	0.13	1.77	1.29	1.53	18.8	12.4	15.6
14	E.MACULATA 11181	GU	95				6.27	4.85	5.56	8.0	5.8	6.9	1.35	0.76	1.06	2.56	2.03	2.29	38.0	28.2	33.1
15	E.MACULATA 11181 ****	GU	87				7.42	6.14	6.78	11.1	8.7	9.9	2.16	1.56	1.86	2.81	2.26	2.54	47.6	39.6	43.6
16	E.GLOBULUS 6291	GU	81				12.63	10.37	11.50	13.1	10.1	11.6	2.44	1.74	2.09	2.89	2.32	2.61	56.3	47.3	52.8
17	E.GLOBULUS 6291 ****	GU	94				14.06	11.98	13.02	17.2	14.3	15.8	2.50	1.83	2.17	2.98	2.30	2.64	64.9	52.9	58.9
18	E.SIDEROXYLON 12636	GU	64				3.38	1.83	2.61	4.8	2.6	3.7	0.11	-0.04	0.04	1.76	1.27	1.52	19.5	11.8	15.7
19	E.SIDEROXYLON 11844 ****	GU	88				5.14	3.98	4.56	8.8	6.4	7.6	0.66	0.21	0.44	1.97	1.56	1.77	29.6	21.1	25.4
20	E.SIDEROXYLON 11844	GU	87				3.17	1.97	2.57	5.0	3.1	4.1	0.14	-0.02	0.06	1.75	1.28	1.52	16.0	12.3	15.9
21	E.RESINIFERA 6011	GU	90	Y			6.09	4.45	5.27	8.9	6.4	7.7	1.69	0.96	1.33	2.04	1.60	1.82	37.9	26.4	32.2
22	E.RESINIFERA 11963	GU	82				6.24	4.50	5.37	9.0	6.3	7.7	1.62	1.02	1.32	2.13	1.56	1.86	37.3	27.6	32.4
23	E.ACCEDENS 6215 ****	GU	97			Y	5.82	4.77	5.30	9.0	7.0	8.0	0.32	0.07	0.20	2.10	1.71	1.90	31.1	20.7	25.9
24	E.ACCEDENS 6215	GU	88		Y	Y	5.77	4.71	5.24	8.2	6.6	7.4	1.16	0.56	0.86	2.28	1.90	2.09	35.0	26.3	30.7
25	E.WANDOO 6218 ****	GU	88				5.66	4.51	5.10	8.4	6.5	7.4	0.04	0.02	0.03	1.98	1.62	1.80	29.6	17.6	23.5
26	E.WANDOO 6218	GU	91				3.85	2.87	3.36	5.7	4.2	4.9	0.09	-0.03	0.03	1.81	1.43	1.62	21.6	14.6	18.1
27	E.RESINIFERA 10962	GU	66				5.04	2.46	3.76	7.2	3.4	5.3	1.39	0.24	0.81	2.15	1.35	1.75	32.4	16.9	24.6
28	E.RESINIFERA 10962 ****	GU	85			Y	5.28	4.11	4.69	8.1	5.7	6.9	1.31	0.57	0.94	1.74	1.33	1.53	31.1	22.2	26.7
29	E.CALOPHYLLA 6391	GU	64	Y			5.58	3.74	4.66	9.7	6.8	8.1	1.23	0.40	0.81	2.21	1.50	1.86	35.2	22.3	28.7
30	E.CALOPHYLLA 6336 ****	GU	82	Y		Y	7.50	6.41	6.96	12.4	10.2	11.3	1.28	0.61	0.94	2.44	2.06	2.25	41.1	34.1	37.6
31	E.CALOPHYLLA 6336	GU	88				4.38	2.90	3.64	6.5	4.3	5.4	0.50	0.10	0.30	1.91	1.38	1.64	24.6	16.7	20.6
32	E.MARGINATA 6471 ****	GU	31				6.69	1.31	4.00	10.4	1.9	6.2	0.52	-0.25	0.33	3.98	0.89	2.33	45.6	7.1	26.3
33	E.MARGINATA 6471	GU	66				5.81	4.17	4.99	10.7	7.4	9.1	0.40	-0.07	0.17	2.64	1.91	2.28	34.1	22.8	28.4
34	E.CITRIODORA 6240	GU	79			Y	5.62	4.16	4.89	6.1	4.2	5.2	1.19	0.55	0.87	1.92	1.44	1.68	30.1	21.7	25.9
35	E.CITRIODORA 12012	GU	70				5.46	3.67	4.56	6.0	3.7	4.9	1.45	0.87	1.06	1.94	1.43	1.69	32.0	20.9	26.4
36	E.CITRIODORA 11640	GU	56				5.52	3.34	4.43	7.2	3.9	5.6	1.69	0.79	1.24	2.19	1.41	1.80	35.8	21.4	28.6
37	E.CITRIODORA 11640 ****	GU	55				4.15	2.75	3.45	3.8	2.2	3.0	1.48	0.42	0.95	1.42	0.95	1.20	24.6	13.0	19.8
38	E.CITRIODORA 10767	GU	47				4.51	2.69	3.60	5.8	3.2	4.5	0.79	0.03	0.41	2.06	1.23	1.65	26.2	15.0	20.6
39	E.CAMALDULENSIS 6566	GU	82				6.30	5.13	5.72	7.3	5.6	6.6	0.64	0.21	0.43	1.73	1.37	1.55	28.0	20.9	24.4
40	E.CAMALDULENSIS11910****	GU	88				6.69	5.02	5.86	6.7	4.5	5.6	0.59	0.14	0.36	1.51	1.10	1.31	25.6	18.4	22.0
41	E.CAMALDULENSIS 11910	GU	86				7.30	5.48	6.39	6.6	4.3	5.5	0.75	0.19	0.47	1.55	1.09	1.32	28.2	18.5	23.4
42	E.CAMALDULENSIS 10089	GU	91				7.00	5.03	6.02	7.2	5.0	6.1	0.45	0.08	0.26	1.71	1.16	1.43	27.3	18.1	22.7
43	E.CAMALDULENSIS 11340	GU	74				4.81	3.00	3.91	6.1	3.5	4.8	0.00	0.00	0.00	1.79	1.18	1.48	22.6	12.8	17.7
44	P.RADIATA 5086/7	GU	89				4.79	3.81	4.30	5.7	4.3	5.0	2.74	2.15	2.44	2.00	1.36	1.78	39.0	31.8	35.4
45	P.RADIATA 5086/7 ****	GU	86				6.32	5.08	5.70	7.0	5.3	6.1	2.35	2.22	2.58	1.85	1.41	1.63	42.3	33.6	38.0
46	P.PINASTER 5083	GU	83				3.00	2.11	2.56	5.4	4.1	4.8	2.00	1.07	1.54	1.64	1.19	1.41	29.8	20.4	25.1
47	P.PINASTER 5083 ****	GU	52				4.08	2.80	3.44	5.8	3.7	4.8	3.12	2.14	2.63	2.39	1.53	1.97	42.5	30.5	36.5
48	E.MARGINATA 6229	GU	41				4.44	1.60	3.02	7.9	2.5	5.2	0.66	0.01	0.33	2.54	1.24	1.89	32.6	10.3	21.4
49	E.MARGINATA 6471	GU	30				4.95	0.74	2.85	8.5	1.9	5.2	1.06	-0.06	0.50	3.22	0.78	2.00	38.5	7.5	23.0
50	E.PATENS 6138	GU	73				4.75	3.17	3.96	9.6	6.3	7.9	0.93	0.33	0.63	2.40	1.62	2.11	33.7	22.6	28.2
51	E.LAELIAE 6230	GU	68				2.60	1.30	1.95	4.6	2.1	3.4	0.32	-0.02	0.15	1.86	1.18	1.52	19.6	10.7	15.1
52	E.MEGACARPA 6451	GU	66			Y	5.19	4.03	4.61	8.3	6.3	7.3	0.68	0.22	0.45	2.67	2.05	2.36	34.5	23.4	28.9

53	E.GOMPHOCEPHALA 6030	GU	83	_ _ _	5.63	4.48	5.16	8.1	5.6	6.5	0.72	0.28	0.50	2.25	1.70	1.97	31.6	22.7	27.1
54	E.RUDIS 6295	GU	88	_ _ _	5.56	3.72	4.64	7.5	4.9	6.2	0.34	-0.01	0.17	2.18	1.48	1.83	29.7	16.2	22.9
55	E.WANDOO 4886	GU	88	_ _ _	5.13	2.68	4.00	7.9	4.6	6.3	0.69	0.03	0.36	2.29	1.42	1.86	30.8	16.3	23.6
56	E.WANDOO 6218	GU	87	Y _ _	5.64	3.37	4.51	7.7	4.6	6.1	0.97	0.21	0.59	1.83	1.23	1.53	29.4	17.4	23.4
57	E.ACCEDENS 6215	GU	96	_ _ _	6.54	4.75	5.65	9.5	6.5	8.0	0.72	0.18	0.45	2.38	1.72	2.05	36.2	21.6	28.9
58	E.KONDININENSIS 6203	GU	72	_ _ _	3.38	1.42	2.40	4.0	2.0	3.0	0.00	0.00	0.00	2.09	1.24	1.67	20.2	11.0	15.6
59	E.BARBENTII 6467	GU	85	_ _ _	3.94	2.21	3.08	4.4	2.4	3.4	0.00	0.00	0.00	1.96	1.11	1.54	22.1	9.4	15.8
60	E.SPATHULATA 6221	GU	62	_ _ _	3.26	1.93	2.59	4.5	2.5	3.5	0.00	0.00	0.00	1.74	1.13	1.44	19.7	9.6	14.6
61	E.PLATYPUS 6004	GU	60	_ _ _	2.41	1.18	1.79	3.9	1.7	2.8	0.00	0.00	0.00	2.05	1.22	1.64	19.0	9.5	14.3
62	E.LEHMANNII 6357	GU	86	_ _ _	6.89	4.46	5.67	8.2	5.2	6.7	0.00	0.00	0.00	3.25	2.00	2.63	38.5	16.7	26.6
63	E.SALMONOPHLOIA 6480	GU	57	_ _ _	1.26	0.59	0.92	2.0	0.9	1.5	0.00	0.00	0.00	1.13	0.72	0.92	5.4	5.7	7.5
64	E.SALUBRIS 6451	GU	41	_ _ _	2.38	1.17	1.78	3.5	1.8	2.7	0.00	0.00	0.00	2.03	1.08	1.56	15.6	8.0	13.8
65	E.OLEOSA 6462	GU	69	_ _ _	2.09	0.93	1.51	3.3	1.3	2.4	0.00	0.00	0.00	2.03	1.08	1.56	17.6	6.8	13.2
66	E.LONGICORNIS 6463	GU	51	_ _ _	2.00	0.76	1.38	3.5	1.2	2.3	0.00	0.00	0.00	1.91	0.98	1.44	16.5	7.9	12.2
67	E.FLOCKTONIAE 6464	GU	42	_ _ _	2.78	1.48	2.13	3.6	1.6	2.7	0.60	0.00	0.30	2.55	1.25	1.90	25.7	10.7	18.2
68	E.TRANSCONTINENTAL. 6465	GU	57	_ _ _	2.46	1.56	2.01	2.9	1.6	2.2	0.00	0.00	0.00	1.14	0.86	1.00	12.4	7.9	10.1
69	E.GRIFFITHSII 6466	GU	65	_ _ _	2.24	1.35	1.79	2.5	1.3	1.9	0.00	0.00	0.00	1.68	0.98	1.33	15.3	6.2	11.6
70	E.AROMAPHLOIA 11311	GU	82	_ _ _	6.68	4.34	5.51	11.0	5.8	8.4	1.16	0.41	0.73	2.55	1.73	2.14	35.8	23.6	31.7
71	E.AROMAPHLOIA 12641	GU	68	_ _ _	5.80	3.64	4.72	10.2	5.6	8.0	0.34	-0.01	0.17	2.43	1.68	2.06	33.0	15.0	26.0
72	E.DIVES 8417	GU	69	_ _ _	3.58	1.30	2.44	5.5	2.1	3.8	0.00	0.00	0.00	2.02	0.98	1.50	22.6	8.0	15.3
73	E.DIVES 10064	GU	94	_ _ _	4.69	2.68	3.78	7.0	3.8	5.4	0.71	0.03	0.37	2.28	1.51	1.89	30.2	15.3	22.8
74	E.GONIOCALYX 12098	GU	83	_ _ _	6.11	3.90	5.00	9.1	5.3	7.2	0.92	0.20	0.56	2.31	1.57	1.94	34.7	20.2	27.4
75	E.GONIOCALYX 12637	GU	97	_ _ _	6.69	4.23	5.47	10.4	5.9	8.1	0.88	0.23	0.56	2.22	1.45	1.83	34.2	21.8	28.0
76	E.GONIOCALYX 12643	GU	91	_ _ _	5.26	3.57	4.42	7.5	5.2	6.5	0.34	0.02	0.18	2.61	1.86	2.24	32.0	15.3	25.6
77	E.MACRORHYNCHA 11165	GU	78	_ _ _	6.14	3.51	4.82	11.0	5.3	8.3	1.20	0.26	0.73	2.37	1.44	1.91	38.7	19.2	28.9
78	E.MACRORHYNCHA 12630	GU	74	_ _ _	6.86	4.28	5.57	11.2	6.6	8.9	2.48	1.19	1.83	2.41	1.53	2.00	48.0	27.7	37.8
79	E.MANNIFERA 12159	GU	63	_ _ _	3.78	1.66	2.62	5.4	2.3	3.9	0.16	-0.03	0.07	1.70	1.20	1.45	19.8	11.5	15.6
80	E.RADIATA 11983	GU	42	_ _ _	6.00	2.25	4.13	9.5	3.1	6.3	0.32	-0.10	0.11	2.94	1.50	2.22	34.9	13.8	24.3
81	E.RADIATA 12631	GU	28	_ _ _	4.71	1.33	3.02	7.4	2.5	5.1	0.72	-0.22	0.25	1.86	0.89	1.36	26.5	5.0	17.8
82	E.VIMINALIS 8911	GU	87	_ _ _	8.88	6.76	7.82	10.5	7.9	9.2	1.06	0.30	0.68	2.35	1.74	2.05	39.8	26.0	33.9
83	E.VIMINALIS 9320	GU	87	_ _ _	6.46	4.69	5.57	9.1	6.5	7.8	0.53	0.12	0.32	2.52	1.95	2.24	33.6	24.3	28.9
84	E.VIMINALIS 11823	GU	89	_ _ _	7.43	5.47	6.45	9.2	6.7	7.9	1.41	0.64	1.03	2.25	1.75	2.00	39.2	27.1	33.2
85	E.VIMINALIS 12400	GU	82	_ _ _	5.45	3.43	4.44	8.1	4.7	6.4	1.06	0.33	0.71	2.36	1.52	1.94	34.1	19.8	26.9
86	E.RUBIDA 12029	GU	56	_ _ Y	8.22	4.25	6.23	10.0	5.4	7.7	1.69	0.14	0.92	2.53	1.47	2.00	41.9	22.1	32.0
87	E.OREBRA 12506	GU	68	_ _ _	4.35	3.12	3.74	6.3	4.5	5.4	0.64	0.11	0.38	1.60	1.15	1.38	23.2	16.1	19.6
88	E.MELANOPHLOIA 6959	GU	83	_ _ _	3.40	2.42	2.91	4.9	3.2	4.0	0.20	-0.01	0.10	1.36	1.03	1.19	17.2	12.0	14.6
89	E.BOTRYOIDES 12104	GU	67	_ _ _	7.42	5.72	6.57	9.8	7.2	8.5	2.38	1.67	2.03	3.22	2.57	2.89	51.0	40.1	45.6
90	E.BOTRYOIDES 7509	GU	74	_ _ _	10.44	8.29	9.37	12.9	9.5	11.2	2.90	2.32	2.61	3.33	2.55	2.94	61.4	45.2	53.3
91	E.ROBUSTA 10176	GU	82	_ _ _	5.70	4.30	5.00	7.4	5.2	6.3	1.54	0.69	1.11	2.62	1.93	2.28	38.0	26.4	32.2
92	E.ROBUSTA 10063	GU	68	_ _ _	3.79	2.47	3.13	5.4	3.3	4.5	1.36	0.39	0.88	2.04	1.38	1.71	28.8	17.7	23.3
93	E.POLYANTHEMOS 10730	GU	78	_ _ Y	3.82	1.98	2.90	5.9	2.8	4.4	0.82	-0.02	0.40	2.31	1.42	1.87	26.3	13.7	21.0
94	E.POLYANTHEMOS 11307	GU	80	_ _ _	3.32	1.64	2.48	4.8	1.9	3.3	0.56	-0.03	0.27	2.31	1.42	1.87	24.6	13.0	18.8
95	E.MICROCARPA 12638	GU	58	_ _ Y	3.05	1.90	2.48	4.6	3.0	3.8	0.00	0.00	0.00	2.10	1.42	1.76	20.2	13.5	16.8
96	E.MICROCARPA 12633	GU	88	_ _ _	3.91	1.91	2.91	5.3	2.8	4.1	0.37	-0.12	0.13	2.26	1.35	1.81	24.6	12.8	18.7
97	E.MICROCARPA 8758	GU	87	_ _ _	2.33	1.46	1.89	3.9	2.5	3.3	0.00	0.00	0.00	1.52	0.98	1.25	15.0	5.9	12.4
98	E.LEUCOXYLON 9598	GU	84	_ _ Y	5.28	3.99	4.64	7.6	5.8	6.7	0.00	0.00	0.00	2.77	2.26	2.53	23.5	23.8	26.8
99	E.LEUCOXYLON 9597	GU	74	_ _ Y	4.35	2.86	3.61	7.2	4.7	5.9	0.00	0.00	0.00	2.78	2.06	2.42	28.1	20.1	24.1
100	E.LEUCOXYLON 10100	GU	53	_ _ Y	4.39	2.85	3.62	6.6	4.0	5.3	0.13	-0.04	0.04	2.04	1.35	1.70	23.5	15.1	15.3
101	E.LEUCOXYLON 9604	GU	80	_ _ Y	4.55	2.86	3.81	6.4	3.9	5.2	0.17	-0.03	0.07	2.44	1.71	2.07	26.3	17.1	21.7
102	E.LEUCOXYLON 9602	GU	82	_ _ Y	4.84	3.37	4.10	6.8	5.1	6.0	0.00	0.00	0.00	2.55	1.93	2.24	26.9	20.2	23.6
103	E.LEUCOXYLON 9601	GU	86	_ _ Y	3.67	2.14	2.90	5.9	3.6	4.7	0.00	0.00	0.00	2.13	1.49	1.81	22.2	14.7	18.4
104	E.CLADOCALYX 6470	GU	77	_ _ Y	8.60	7.30	7.95	11.4	9.1	10.2	2.58	1.88	2.23	3.11	2.66	2.89	54.5	45.6	50.0
105	E.CLADOCALYX 11834	GU	69	_ _ Y	9.65	6.22	7.93	14.2	8.9	11.6	2.14	0.58	1.36	4.04	2.69	3.36	59.2	37.8	48.5
106	E.HUBERANA 7248	GU	91	_ _ Y	8.20	6.19	7.19	9.3	7.0	8.3	1.34	0.66	1.00	2.29	1.91	2.10	39.2	30.3	34.7
107	E.RUBIDA 12089	GU	93	_ _ Y	8.05	6.13	7.09	9.1	6.8	7.9	1.69	0.89	1.29	2.13	1.82	1.97	40.5	30.4	35.4
108	E.BOTRYOIDES 12134	GU	78	_ _ _	10.39	8.35	9.37	12.5	9.7	11.1	2.18	1.45	1.82	2.70	2.19	2.45	52.7	41.5	47.1
109	E.PANICULATA 11600	GU	92	_ _ _	4.90	3.60	4.25	6.4	4.4	5.4	1.77	0.97	1.37	1.57	1.40	1.68	33.7	23.1	28.4
110	E.PANICULATA 11741	GU	87	_ _ _	5.60	4.23	4.91	7.3	5.3	6.3	1.03	0.36	0.69	2.37	1.83	2.10	33.1	23.7	28.4
111	E.PANICULATA 12137	GU	84	_ _ _	5.50	3.71	4.60	7.2	4.5	5.8	1.36	0.51	0.94	2.58	1.92	2.25	35.2	24.9	30.1
112	E.MACULATA 9448	GU	52	_ _ _	4.37	3.04	3.70	4.9	3.2	4.0	0.92	0.31	0.62	1.99	1.44	1.72	26.5	17.7	22.1
113	E.MACULATA 10726	GU	94	_ _ _	5.35	3.95	4.65	6.6	4.4	5.5	2.08	1.26	1.67	2.36	1.76	2.06	38.7	27.6	33.2
114	E.MACULATA 11181	GU	95	_ _ _	4.85	3.63	4.25	5.6	4.0	4.8	1.51	0.76	1.15	1.88	1.44	1.66	30.5	22.1	26.3

	E.MADULATA 11965	BU	70	_ _ _	6.05	4.03	5.04	6.5	4.4	5.3	2.01	0.99	1.50	2.55	1.68	2.21	40.0	27.0	33.5
116	E.MADULATA 4817	BU	73	_ _ _	5.94	4.40	5.17	8.3	6.2	7.2	1.95	0.95	1.47	2.35	1.78	2.07	36.7	26.6	34.1
117	E.OCHROPHLOIA 8584	BU	48	_ _ _	1.68	0.62	1.15	2.4	0.9	1.7	0.00	0.00	0.00	1.20	0.80	1.00	10.6	6.4	8.5
118	E.OCHROPHLOIA 11731	BU	51	_ _ _	1.30	0.61	0.95	2.7	1.1	1.9	0.00	0.00	0.00	1.35	0.83	1.09	11.5	6.5	9.0
119	E.OREBRA 11764	BU	92	_ _ _	4.01	3.01	3.51	5.7	4.2	4.9	0.41	-0.01	0.20	1.86	1.45	1.65	22.6	16.7	19.7
120	E.OREBRA 12010	BU	82	_ _ _	3.17	2.44	2.80	5.1	3.7	4.4	0.13	-0.02	0.05	2.01	1.57	1.79	20.7	15.8	18.3
121	E.RADIATA 8525	BU	59	Y _ _	5.15	2.25	3.70	7.6	3.0	5.3	1.02	-0.02	0.50	2.39	1.21	1.60	31.3	14.3	22.8
122	E.MELANOPHLOIA 9723	BU	80	_ _ _	2.42	1.33	1.87	3.2	1.6	2.4	0.00	0.00	0.00	1.60	1.03	1.31	14.9	9.2	12.1
123	E.MELANOPHLOIA 10783	BU	74	_ _ _	2.71	1.70	2.21	3.7	2.3	3.0	0.00	0.00	0.00	1.71	1.09	1.40	16.5	10.6	13.5
124	E.FASCICULOSA 7251	BU	90	_ _ _	4.45	3.43	3.94	6.5	4.8	5.7	0.00	0.00	0.00	2.55	1.95	2.27	28.2	20.5	23.3
125	E.LUXOPHLEBA 6150	BU	68	_ _ _	5.78	3.39	4.59	7.2	3.7	5.5	0.21	-0.07	0.07	1.85	1.05	1.50	25.4	13.9	19.6
126	E.DECORTICANS 10148	BU	75	_ _ _	2.91	1.06	1.98	4.2	1.2	2.7	0.58	-0.08	0.25	1.79	1.08	1.44	20.8	8.7	14.6
127	E.FALCATA 6438	BU	88	_ _ _	8.85	7.02	7.94	9.0	6.8	7.9	0.60	0.18	0.39	2.39	1.95	2.17	35.2	26.8	32.0
128	E.DREPANOPHYLLA 11412	BU	71	_ _ _	3.54	2.41	2.97	5.3	3.3	4.3	0.21	-0.03	0.09	1.75	1.25	1.50	20.1	13.4	16.8
129	E.SALIGNA/BOTRY. 6234	BU	74	_ _ _	5.96	4.56	5.26	8.4	6.3	7.3	2.89	2.21	2.55	3.04	2.38	2.71	50.0	40.2	45.1
130	E.MICROTHECA 12538	BU	46	_ _ _	2.26	0.95	1.61	3.4	1.3	2.3	0.23	-0.07	0.08	1.39	0.77	1.08	14.4	7.2	10.8
131	E.MICROTHECA 12497	BU	70	_ _ _	1.36	0.80	1.08	2.1	1.2	1.6	0.00	0.00	0.00	1.12	0.88	1.00	10.0	6.9	8.5
132	E.MICROTHECA 11347	BU	65	_ _ _	2.25	1.05	1.65	2.8	1.5	2.2	0.00	0.00	0.00	1.36	0.78	1.07	12.3	7.1	10.0
133	E.INTERTEXTA 11630	BU	80	_ _ _	1.74	0.86	1.30	4.5	1.7	3.1	0.00	0.00	0.00	1.98	0.34	1.46	18.1	7.8	12.3
134	E.INTERTEXTA 11736	BU	92	_ _ _	2.26	0.95	1.62	4.0	1.7	2.9	0.00	0.00	0.00	1.60	1.03	1.31	15.4	8.8	12.1
135	E.INTERTEXTA 12470	BU	70	_ _ _	1.98	1.10	1.54	4.3	2.3	3.3	0.00	0.00	0.00	2.15	1.25	1.70	18.6	11.0	14.8
136	E.LARGIFLORENS 10675	BU	69	_ _ _	3.86	2.29	3.07	5.5	3.1	4.3	0.27	-0.08	0.09	1.63	0.92	1.27	20.6	10.5	15.5
137	E.LARGIFLORENS 11912	BU	50	_ _ _	5.47	1.46	3.46	7.9	2.8	5.3	0.00	0.00	0.00	2.81	1.19	2.00	33.1	8.3	20.7
138	E.LARGIFLORENS 12644	BU	61	_ _ _	2.30	0.93	1.62	3.2	1.2	2.2	0.00	0.00	0.00	1.39	0.77	1.08	13.4	6.8	10.1
139	E.BAXTERI 10012	BU	95	_ _ _	6.14	5.12	5.63	9.5	7.8	8.9	1.01	0.35	0.68	2.53	2.11	2.32	36.5	28.9	32.7
140	E.BAXTERI 10091	BU	77	_ _ _	5.09	3.11	4.10	8.3	4.7	6.5	0.25	-0.04	0.11	2.50	1.71	2.11	28.9	18.7	23.8
141	E.BAXTERI 12642	BU	85	_ _ _	7.74	5.12	6.43	11.9	7.1	9.5	0.53	-0.03	0.25	2.46	1.77	2.13	39.4	21.0	30.2
142	E.MARGINATA (VARIOUS)	BU	84	_ _ _	4.12	1.99	3.05	8.4	4.2	6.3	0.18	-0.06	0.05	2.47	1.53	2.00	29.5	13.6	21.6
143	E.ODORATA 6703	BU	55	_ _ _	3.12	1.98	2.55	5.1	3.3	4.2	0.00	0.00	0.00	2.01	1.44	1.72	21.3	12.5	16.9
144	E.WOOLLSIANA 8831	BU	87	_ _ _	3.06	1.91	2.48	5.1	3.6	4.3	0.00	0.00	0.00	2.33	1.56	1.94	22.9	13.7	18.3
145	E.WOOLLSIANA 12105	BU	79	_ _ _	1.95	1.09	1.52	3.3	2.0	2.6	0.00	0.00	0.00	2.17	1.27	1.72	18.8	9.9	14.3
146	E.MOLLUCCANA 10154	BU	81	_ _ _	2.35	1.26	1.81	4.6	2.7	3.7	0.00	0.00	0.00	2.05	1.29	1.67	13.4	11.0	15.2
147	E.OREBRA 8756	BU	87	_ _ _	2.32	1.41	1.86	3.6	2.1	2.8	0.21	-0.03	0.09	1.78	1.22	1.50	17.4	10.8	14.1
148	E.GARDNERI 6228	BU	89	_ _ _	6.90	5.83	6.37	7.8	6.4	7.1	0.59	0.18	0.38	2.68	2.15	2.41	35.6	25.4	31.0
149	E.CYPELLOCARPA 12390	BU	92	_ _ _	9.10	6.83	7.97	11.5	8.6	10.3	2.27	1.53	1.90	2.72	2.08	2.40	50.9	38.0	44.5
150	E.CYPELLOCARPA 9440	BU	86	_ _ _	6.90	4.77	5.84	9.3	6.1	7.7	1.72	0.88	1.30	2.28	1.62	1.95	41.2	28.7	33.4
151	E.PILULARIS 12136	BU	54	Y _ _	7.62	5.82	6.72	9.3	6.4	7.8	2.54	1.57	2.05	2.61	1.92	2.26	46.1	34.6	41.4
152	E.PILULARIS 12138	BU	89	Y _ _	6.55	4.74	5.64	9.7	6.7	8.2	1.47	0.72	1.05	2.67	1.87	2.27	41.1	27.6	34.4
153	E.ALBENS 8827	BU	97	_ _ _	2.67	1.91	2.39	5.0	3.4	4.2	0.16	-0.05	0.05	2.05	1.43	1.74	20.3	13.9	17.1
154	E.ALBENS 10457	BU	89	_ _ _	2.74	1.48	2.11	4.2	2.2	3.2	0.00	0.00	0.00	1.84	1.16	1.50	18.1	10.2	14.1
155	E.ALBENS 12632	BU	66	_ _ _	4.32	2.54	3.53	6.1	3.4	4.7	0.70	-0.03	0.33	2.34	1.49	1.92	28.2	15.8	22.0
156	E.RESINIFERA 10431	BU	82	Y _ _	6.92	4.09	5.50	9.6	5.7	7.8	1.81	0.69	1.25	2.62	1.78	2.20	43.0	25.7	34.4

FIGURE GU-2 : GRAPH OF GEORGE UPLAND MEAN PLOT HEIGHTS



GEORGE UPLAND

FIGURE GU-4 : GRAPH OF GEORGE UPLAND MEAN PLOT DIAMETERS

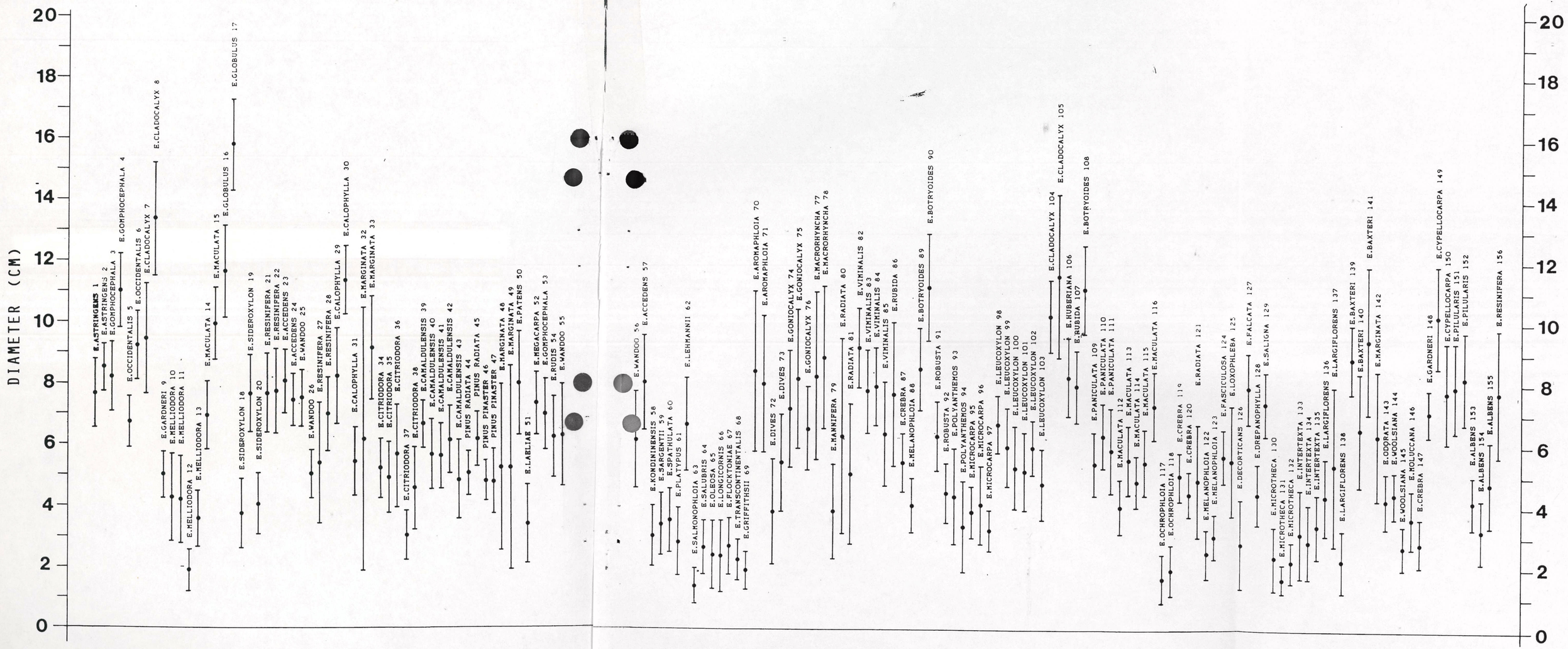
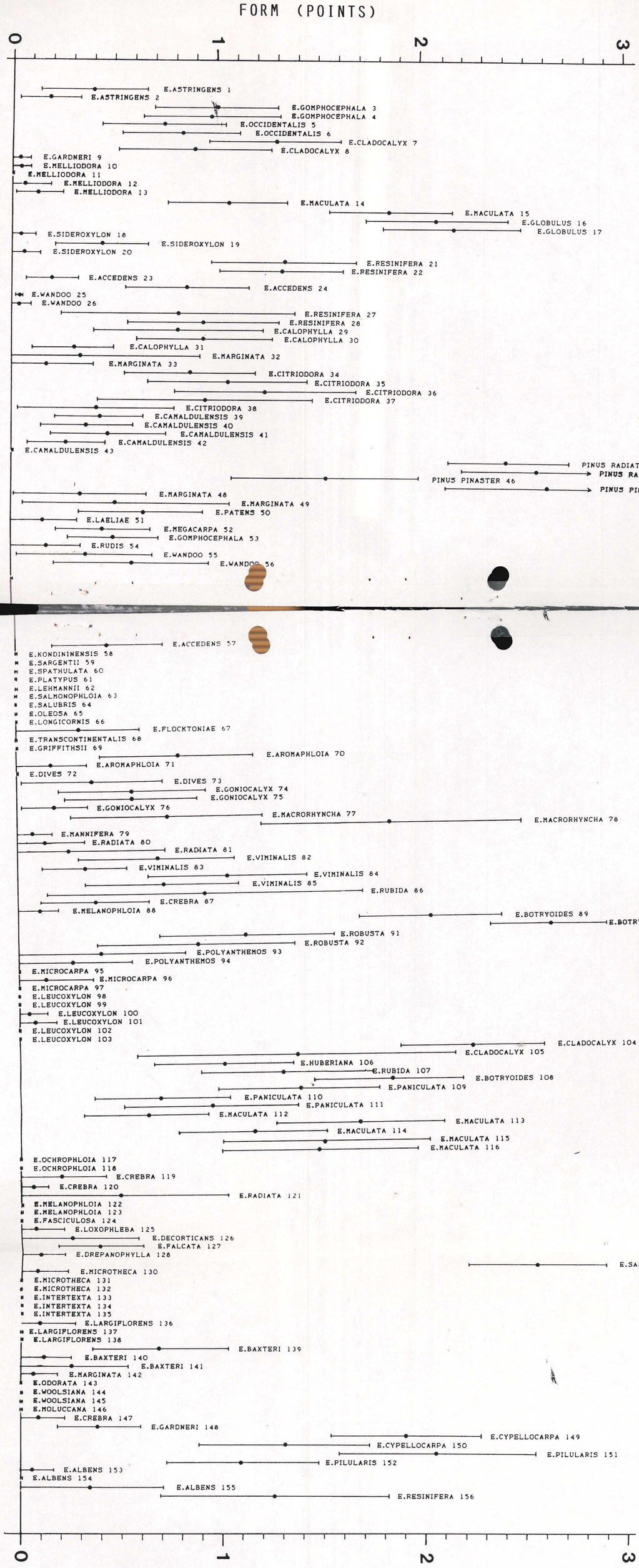

DIAMETER (CM)
0
2
4
6
8
10
12
14
16
18
20
E.ASTRINGENS 1
E.ASTRINGENS 2
E.GOMPHOCEPHALA 3
E.GOMPHOCEPHALA 4
E.OCCIDENTALIS 5
E.OCCIDENTALIS 6
E.CLADOCALYX 7
E.CLADOCALYX 8
E.GARDNERI 9
E.MELLIODORA 10
E.MELLIODORA 11
E.MELLIODORA 12
E.MELLIODORA 13
E.MACULATA 14
E.MACULATA 15
E.GLOBULUS 16
E.GLOBULUS 17
E.SIDEROXYLON 18
E.SIDEROXYLON 19
E.SIDEROXYLON 20
E.RESINIFERA 21
E.RESINIFERA 22
E.ACCEDENS 23
E.ACCEDENS 24
E.WANDOO 25
E.WANDOO 26
E.RESINIFERA 27
E.RESINIFERA 28
E.CALOPHYLLA 29
E.CALOPHYLLA 30
E.CALOPHYLLA 31
E.MARGINATA 32
E.MARGINATA 33
E.CITRIODORA 34
E.CITRIODORA 35
E.CITRIODORA 36
E.CITRIODORA 37
E.CITRIODORA 38
E.CAMALDULENSIS 39
E.CAMALDULENSIS 40
E.CAMALDULENSIS 41
E.CAMALDULENSIS 42
E.CAMALDULENSIS 43
PINUS RADIATA 44
PINUS RADIATA 45
PINUS PINASTER 46
PINUS PINASTER 47
E.MARGINATA 48
E.MARGINATA 49
E.PATENS 50
E.LAELIAR 51
E.MEGACARPA 52
E.GOMPHOCEPHALA 53
E.RUDIS 54
E.WANDOO 55
E.WANDOO 56
E.ACCEDENS 57
E.KONDININENSIS 58
E.SARGENTII 59
E.SPATHULATA 60
E.PLATYPUS 61
E.LEHMANNII 62
E.SALMONOPHLOIA 63
E.SALUBRIS 64
E.OLEOSA 65
E.LONGICORNIS 66
E.FLOCKTONIAE 67
E.TRANSCONTINENTALIS 68
E.GRIFFITHSII 69
E.AROMAPHLOIA 70
E.AROMAPHLOIA 71
E.DIVES 72
E.DIVES 73
E.GONIOCALYX 74
E.GONIOCALYX 75
E.GONIOCALYX 76
E.MACRORHYNCHA 77
E.MACRORHYNCHA 78
E.MANNIFERA 79
E.RADIATA 80
E.RADIATA 81
E.VIMINALIS 82
E.VIMINALIS 83
E.VIMINALIS 84
E.VIMINALIS 85
E.RUBIDA 86
E.CREBRA 87
E.MELANOPHLOIA 88
E.BOTRYOIDES 89
E.BOTRYOIDES 90
E.ROBUSTA 91
E.ROBUSTA 92
E.POLYANTHEMOS 93
E.POLYANTHEMOS 94
E.MICROCARPA 95
E.MICROCARPA 96
E.MICROCARPA 97
E.LEUCOXYLON 98
E.LEUCOXYLON 99
E.LEUCOXYLON 100
E.LEUCOXYLON 101
E.LEUCOXYLON 102
E.LEUCOXYLON 103
E.CLADOCALYX 104
E.CLADOCALYX 105
E.HUBERIANA 106
E.RUBIDA 107
E.BOTRYOIDES 108
E.PANICULATA 109
E.PANICULATA 110
E.PANICULATA 111
E.MACULATA 112
E.MACULATA 113
E.MACULATA 114
E.MACULATA 115
E.MACULATA 116
E.OCHROPHLOIA 117
E.OCHROPHLOIA 118
E.CREBRA 119
E.CREBRA 120
E.RADIATA 121
E.MELANOPHLOIA 122
E.MELANOPHLOIA 123
E.FASCICULOSA 124
E.LOXOPHLEBA 125
E.DECORTICANS 126
E.FALCATA 127
E.DREPANOPHYLLA 128
E.SALIGNA 129
E.MICROTHECA 130
E.MICROTHECA 131
E.MICROTHECA 132
E.INTERTEXTA 133
E.INTERTEXTA 134
E.INTERTEXTA 135
E.LARGIFLORENS 136
E.LARGIFLORENS 137
E.LARGIFLORENS 138
E.BAXTERI 139
E.BAXTERI 140
E.BAXTERI 141
E.MARGINATA 142
E.ODORATA 143
E.WOOLSIANA 144
E.WOOLSIANA 145
E.MOLUCCANA 146
E.CREBRA 147
E.GARDNERI 148
E.CYPELLOCARPA 149
E.CYPELLOCARPA 150
E.PILULARIS 151
E.PILULARIS 152
E.RESINIFERA 156
E.ALBENS 153
E.ALBENS 154
E.ALBENS 155

FIGURE GU-5 : GRAPH OF GEORGE UPLAND MEAN PLOT FORM



GEORGE UPLAND

FIGURE GU-6 : GRAPH OF GEORGE UPLAND MEAN PLOT VIGOUR

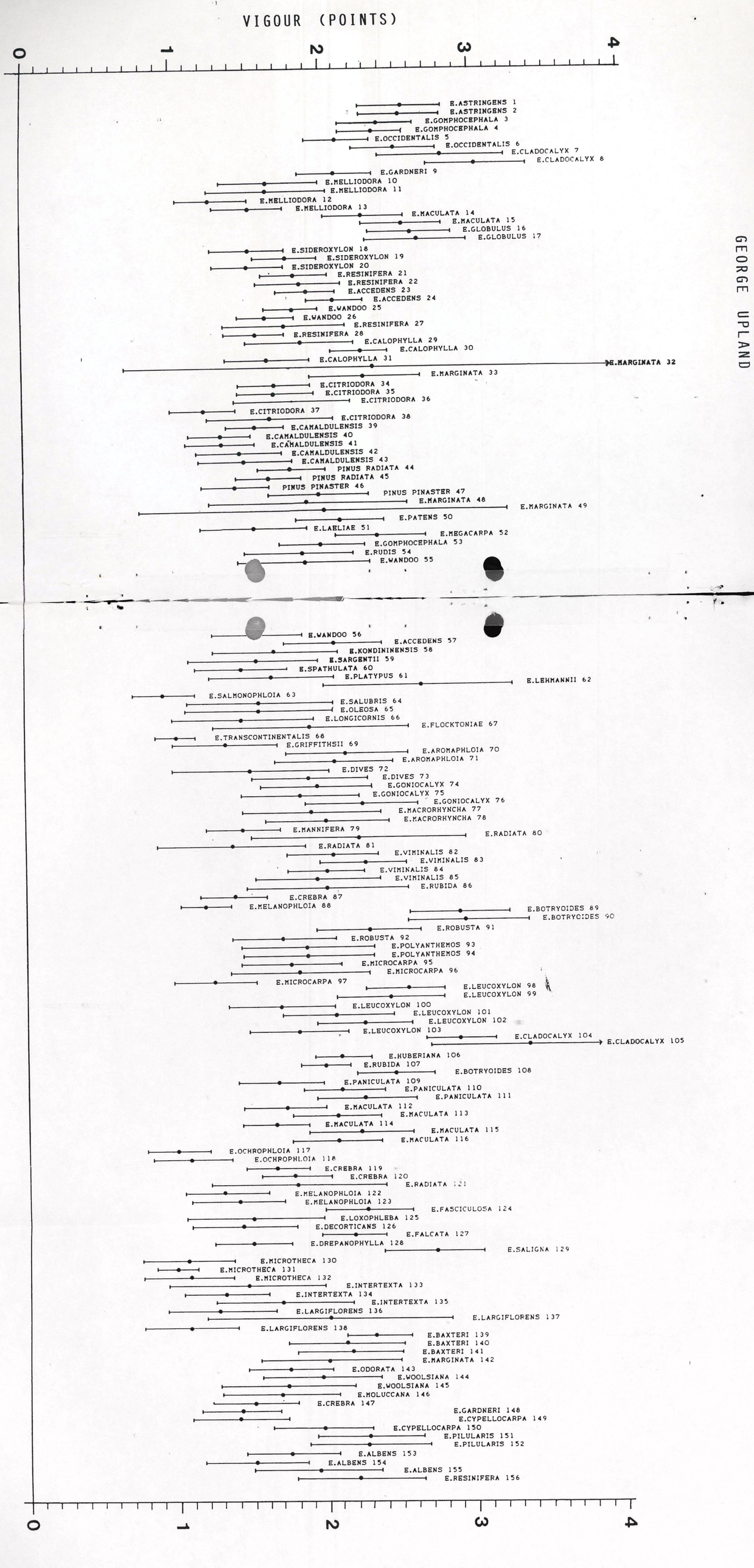
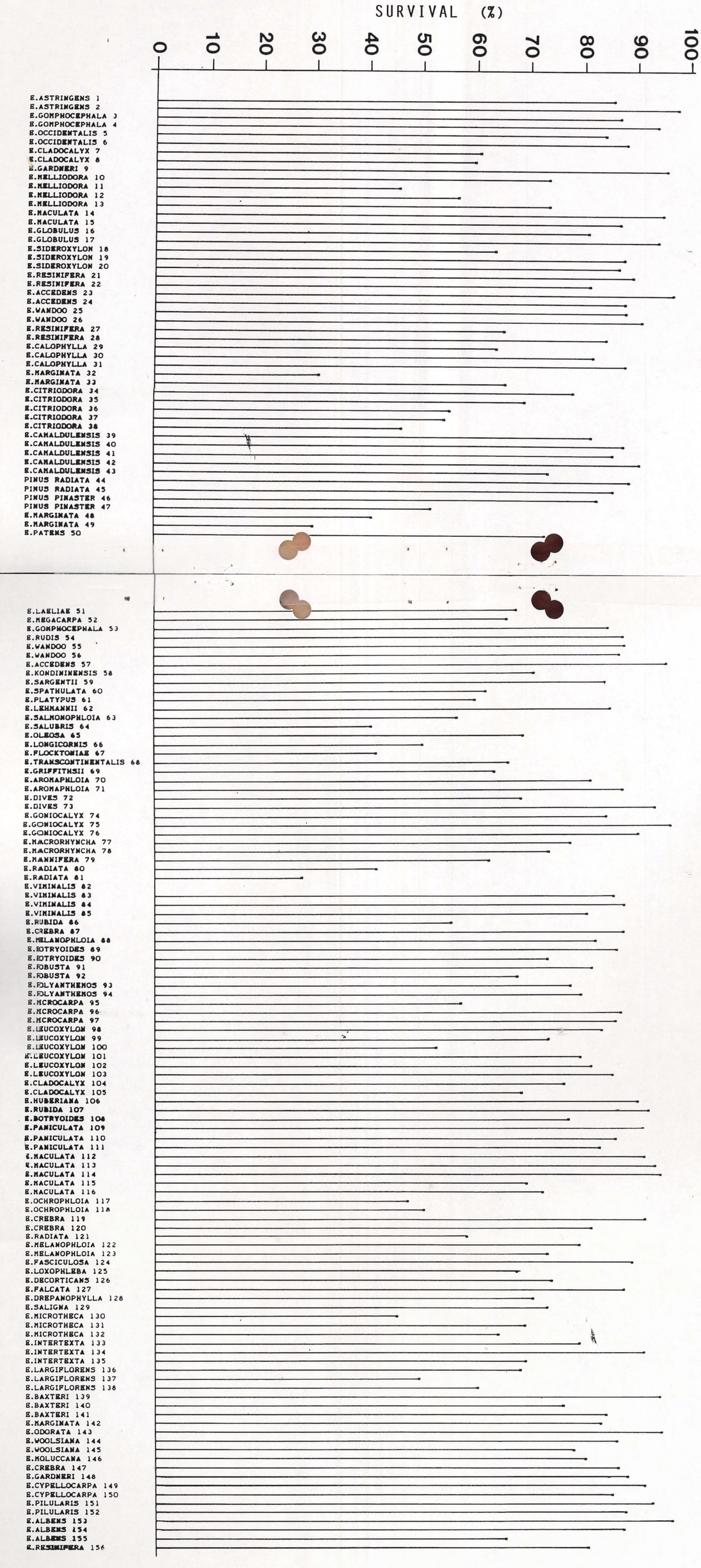
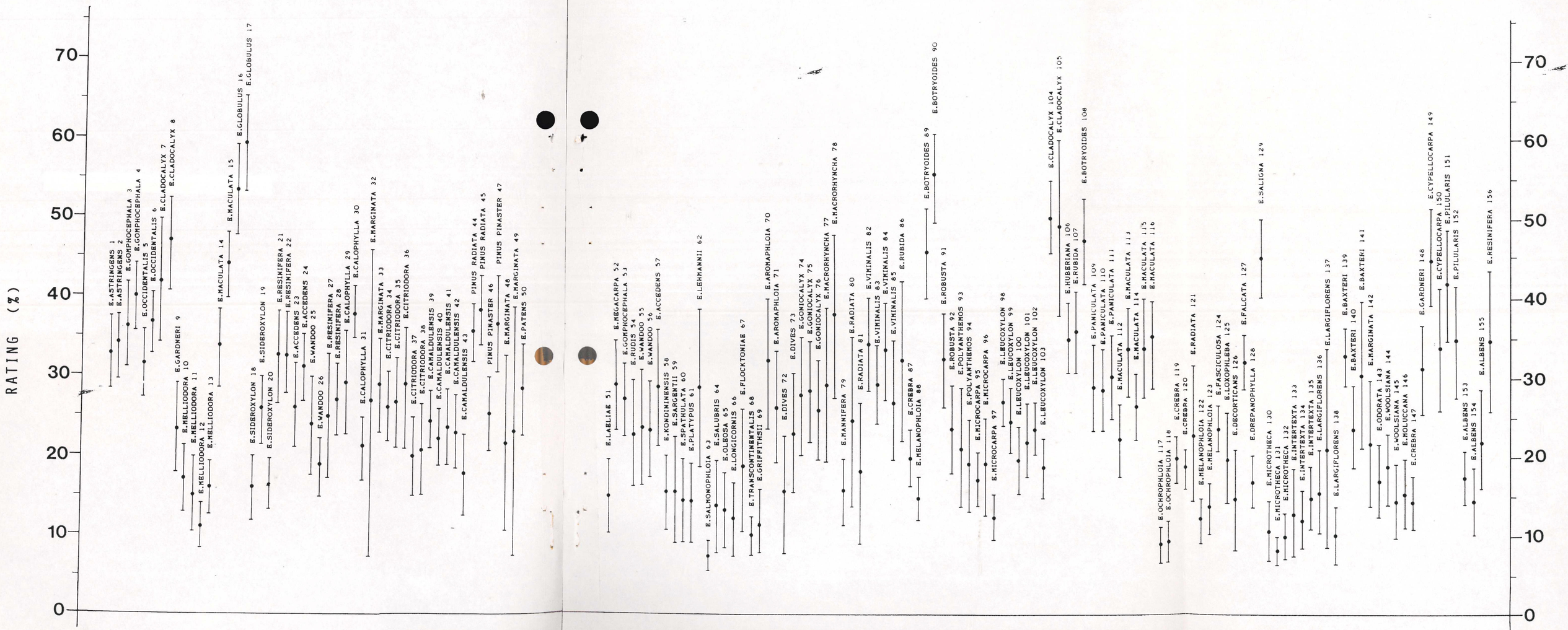

VIGOUR (POINTS)
0
1
2
3
4
E.ASTRINGENS 1
E.ASTRINGENS 2
E.GOMPHOCEPHALA 3
E.GOMPHOCEPHALA 4
E.OCCIDENTALIS 5
E.OCCIDENTALIS 6
E.CLADOCALYX 7
E.CLADOCALYX 8
E.GARDNERI 9
E.MELLIODORA 10
E.MELLIODORA 11
E.MELLIODORA 12
E.MELLIODORA 13
E.MACULATA 14
E.MACULATA 15
E.GLOBULUS 16
E.GLOBULUS 17
E.SIDEROXYLON 18
E.SIDEROXYLON 19
E.SIDEROXYLON 20
E.RESINIFERA 21
E.RESINIFERA 22
E.ACCEDENS 23
E.ACCEDENS 24
E.WANDOO 25
E.WANDOO 26
E.RESINIFERA 27
E.RESINIFERA 28
E.CALOPHYLLA 29
E.CALOPHYLLA 30
E.CALOPHYLLA 31
E.MARGINATA 32
E.MARGINATA 33
E.CITRIODORA 34
E.CITRIODORA 35
E.CITRIODORA 36
E.CITRIODORA 37
E.CITRIODORA 38
E.CAMALDULENSIS 39
E.CAMALDULENSIS 40
E.CAMALDULENSIS 41
E.CAMALDULENSIS 42
E.CAMALDULENSIS 43
PINUS RADIATA 44
PINUS RADIATA 45
PINUS PINASTER 46
PINUS PINASTER 47
E.MARGINATA 48
E.MARGINATA 49
E.PATENS 50
E.LAELIAE 51
E.MEGACARPA 52
E.GOMPHOCEPHALA 53
E.RUDIS 54
E.WANDOO 55
E.WANDOO 56
E.ACCEDENS 57
E.KONDININENSIS 58
E.SARGENTII 59
E.SPATHULATA 60
E.PLATYPUS 61
E.LEHMANNII 62
E.SALMONOPHLOIA 63
E.SALUBRIS 64
E.OLEOSA 65
E.LONGICORNIS 66
E.FLOCKTONIAE 67
E.TRANSCONTINENTALIS 68
E.GRIFFITHSII 69
E.AROMAPHLOIA 70
E.AROMAPHLOIA 71
E.DIVES 72
E.DIVES 73
E.GONIOCALYX 74
E.GONIOCALYX 75
E.GONIOCALYX 76
E.MACRORHYNCHA 77
E.MACRORHYNCHA 78
E.MANNIFERA 79
E.RADIATA 80
E.RADIATA 81
E.VIMINALIS 82
E.VIMINALIS 83
E.VIMINALIS 84
E.VIMINALIS 85
E.RUBIDA 86
E.CREBRA 87
E.MELANOPHLOIA 88
E.BOTRYOIDES 89
E.BOTRYOIDES 90
E.ROBUSTA 91
E.ROBUSTA 92
E.POLYANTHEMOS 93
E.POLYANTHEMOS 94
E.MICROCARPA 95
E.MICROCARPA 96
E.MICROCARPA 97
E.LEUCOXYLON 98
E.LEUCOXYLON 99
E.LEUCOXYLON 100
E.LEUCOXYLON 101
E.LEUCOXYLON 102
E.LEUCOXYLON 103
E.CLADOCALYX 104
E.CLADOCALYX 105
E.HUBERIANA 106
E.RUBIDA 107
E.BOTRYOIDES 108
E.PANICULATA 109
E.PANICULATA 110
E.PANICULATA 111
E.MACULATA 112
E.MACULATA 113
E.MACULATA 114
E.MACULATA 115
E.MACULATA 116
E.OCHROPHLOIA 117
E.OCHROPHLOIA 118
E.CREBRA 119
E.CREBRA 120
E.RADIATA 121
E.MELANOPHLOIA 122
E.MELANOPHLOIA 123
E.FASCICULOSA 124
E.LOXOPHLEBA 125
E.DECORTICANS 126
E.FALCATA 127
E.DREPANOPHYLLA 128
E.SALIGNA 129
E.MICROTHECA 130
E.MICROTHECA 131
E.MICROTHECA 132
E.INTERTEXTA 133
E.INTERTEXTA 134
E.INTERTEXTA 135
E.LARGIFLORENS 136
E.LARGIFLORENS 137
E.LARGIFLORENS 138
E.BAXTERI 139
E.BAXTERI 140
E.BAXTERI 141
E.MARGINATA 142
E.ODORATA 143
E.WOOLSIANA 144
E.WOOLSIANA 145
E.MOLUCCANA 146
E.CREBRA 147
E.GARDNERI 148
E.CYPELLOCARPA 149
E.CYPELLOCARPA 150
E.PILULARIS 151
E.PILULARIS 152
E.ALBENS 153
E.ALBENS 154
E.ALBENS 155
E.RESINIFERA 156
GEORGE UPLAND

FIGURE GU-7 : GRAPH OF GEORGE UPLAND MEAN PLOT SURVIVAL



GEORGE - UPLAND

FIGURE GU-8 GRAPH OF RATING


RATING (%)
0
10
20
30
40
50
60
70
E.ASTRINGENS 1
E.ASTRINGENS 2
E.GOMPHOCEPHALA 3
E.GOMPHOCEPHALA 4
E.OCCIDENTALIS 5
E.OCCIDENTALIS 6
E.CLADOCALYX 7
E.CLADOCALYX 8
E.GARDNERI 9
E.MELLIODORA 10
E.MELLIODORA 11
E.MELLIODORA 12
E.MELLIODORA 13
E.MACULATA 14
E.MACULATA 15
E.GLOBULUS 16
E.GLOBULUS 17
E.SIDEROXYLON 18
E.SIDEROXYLON 19
E.SIDEROXYLON 20
E.RESINIFERA 21
E.RESINIFERA 22
E.ACCEDENS 23
E.ACCEDENS 24
E.WANDOO 25
E.WANDOO 26
E.RESINIFERA 27
E.RESINIFERA 28
E.CALOPHYLLA 29
E.CALOPHYLLA 30
E.CALOPHYLLA 31
E.MARGINATA 32
E.MARGINATA 33
E.CITRIODORA 34
E.CITRIODORA 35
E.CITRIODORA 36
E.CITRIODORA 37
E.CITRIODORA 38
E.CAMALDULENSIS 39
E.CAMALDULENSIS 40
E.CAMALDULENSIS 41
E.CAMALDULENSIS 42
E.CAMALDULENSIS 43
PINUS RADIATA 44
PINUS RADIATA 45
PINUS PINASTER 46
PINUS PINASTER 47
E.MARGINATA 48
E.MARGINATA 49
E.PATENS 50
E.LAELIAE 51
E.MEGACARPA 52
E.GOMPHOCEPHALA 53
E.RUDIS 54
E.WANDOO 55
E.ACCEDENS 57
E.KONDININENSIS 58
E.SARGENTII 59
E.SPATHULATA 60
E.PLATYPUS 61
E.LEHMANNII 62
E.SALMONOPHLOIA 63
E.SALUBRIS 64
E.OLEOSA 65
E.LONGICORNIS 66
E.FLOCKTONIAE 67
E.TRANSCONTINENTALIS 68
E.GRIFFITHSII 69
E.AROMAPHLOIA 70
E.AROMAPHLOIA 71
E.DIVES 72
E.DIVES 73
E.GONIOCALYX 74
E.GONIOCALYX 75
E.GONIOCALYX 76
E.MACRORHYNCHA 77
E.MACRORHYNCHA 78
E.MANNIFERA 79
E.RADIATA 80
E.RADIATA 81
E.VIMINALIS 82
E.VIMINALIS 83
E.VIMINALIS 84
E.VIMINALIS 85
E.RUBIDA 86
E.CREBRA 87
E.MELANOPHLOIA 88
E.BOTRYOIDES 89
E.BOTRYOIDES 90
E.ROBUSTA 91
E.ROBUSTA 92
E.POLYANTHEMOS 93
E.POLYANTHEMOS 94
E.MICROCARPA 95
E.MICROCARPA 96
E.MICROCARPA 97
E.LEUCOXYLON 98
E.LEUCOXYLON 99
E.LEUCOXYLON 100
E.LEUCOXYLON 101
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E.LEUCOXYLON 103
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E.MACULATA 113
E.MACULATA 114
E.MACULATA 115
E.MACULATA 116
E.OCHROPHLOIA 117
E.OCHROPHLOIA 118
E.CREBRA 119
E.CREBRA 120
E.RADIATA 121
E.MELANOPHLOIA 122
E.MELANOPHLOIA 123
E.FASCICULOSA 124
E.LOXOPHLEBA 125
E.DECORTICANS 126
E.FALCATA 127
E.DREPANOPHYLLA 128
E.SALIGNA 129
E.MICROTHECA 130
E.MICROTHECA 131
E.MICROTHECA 132
E.INTERTEXTA 133
E.INTERTEXTA 134
E.INTERTEXTA 135
E.LARGIFLORENS 136
E.LARGIFLORENS 137
E.LARGIFLORENS 138
E.BAXTERI 139
E.BAXTERI 140
E.BAXTERI 141
E.MARGINATA 142
E.ODORATA 143
E.WOOLSIANA 144
E.WOOLSIANA 145
E.ROLUCCANA 146
E.CREBRA 147
E.GARDNERI 148
E.CYPELLOCARPA 149
E.CYPELLOCARPA 150
E.PILULARIS 151
E.PILULARIS 152
E.ALBENS 153
E.ALBENS 154
E.ALBENS 155
E.RESINIFERA 156