

Tables (Supplemental material)

Table 1. Details of 46 provenances

N° Ibi	N° CSIRO	Provenance	Region	Type of provenance	Latitude	Longitude	Alt. (m)	Nb of mother trees
M1	18249	CAPTAIN BILLY ROAD	QLD	Natural	11.41.00 S	142.42.00 E	100	5
M2	20045	PASCOE RIVER	QLD	Natural	12.34.00 S	143.09.00 E	20	30
M3	13229	CLAUDIE RIVER	QLD	Natural	12.47.00 S	143.17.00 E	20	21
M4	16679	BLOOMFIELD-AYTON	QLD	Natural	15.52.00 S	145.20.00 E	20	5
M5	19279	REX-CASSOWARY	QLD	Natural	16.31.00 S	145.24.00 E	60	83
M6	18764	KURANDA	QLD	Natural	16.44.00 S	145.30.00 E	390	7
M7	17703	TULLY-MISSION BEACH	QLD	Natural	17.55.00 S	146.05.00 E	20	23
M8	15700	S OF CARDWELL	QLD	Natural	18.32.00 S	146.05.00 E	55	11
M9	20637	SSO KENNEDY/MEUNGA Hybrid	QLD	SSO	18.12.00 S	145.53.00 E	50	3
M10	20761	SSO KENNEDY/MEUNGA Hybrid	QLD	SSO	18.12.00 S	145.53.00 E	50	20
M11	20783	SSO CARDWELL/DAMPER PNG	QLD	SSO	18.24.00 S	146.06.00 E	20	30
M12	19705	SSO CARDWELL/DAMPER PNG	QLD	SSO	18.16.00 S	146.02.00 E	60	32
M13	20863	SSO DAMPER PNG	QLD	SSO	18.24.00 S	146.06.00 E	20	45
M14	20871	SSO KURANDA FNQ	QLD	SSO	16.45.00 S	145.71.00 E	400	5
M15	20865	SSO KURANDA PNG	North QLD	SSO	16.45.00 S	145.70.00 E	400	40
M16	20784	SSO LANNERCOST PNG	North QLD	SSO	18.38.00 S	145.52.00 E	90	25
M17	20127	LAKE MURRAY	PNG	Natural	07.00.00 S	141.33.00 E	50	-
M18	19863	AIAMBAK FLY RIVER WP	PNG	Natural	07.20.35 S	141.15.53 E	30	34
M19	19231	UPPER ARAMIA	PNG	Natural	07.56.00 S	142.35.00 E	15	40
M20	19611	MAKAPA	PNG	Natural	07.56.00 S	142.35.00 E	15	100
M21	20129	MIDDLE-ARAMIA	PNG	Natural	08.00.00 S	142.45.00 E	15	-
M22	19133	KINI	PNG	Natural	08.06.00 S	142.58.00 E	15	5
M23	16937	BALIMO DISTRICT	PNG	Natural	08.17.00 S	142.52.00 S	10	40
M24	19232	WASUA	PNG	Natural	08.19.00 S	143.02.00 E	10	40
M25	20131	LOWER FLY	PNG	Natural	08.19.00 S	143.02.00 E	10	-
M26	18214	KAPAL VILLAGE/ORIOMO	PNG	Natural	08.37.00 S	142.47.00 E	40	130

M27	20133	BITURI	PNG	Natural	08.40.00 S	142.43.00 E	45	-
M28	19235	MOREHEAD-TOKWA	PNG	Natural	08.41.00 S	141.51.00 E	15	12
M29	18206	ARUFI VILLAGE WP	PNG	Natural	08.43.00 S	141.55.00 E	25	70
M30	19233	WIPIM-ORIOMO	PNG	Natural	08.49.00 S	143.00.00 E	10	40
M31	19732	WIPIM-ORIOMO AREA	PNG	Natural	08.49.00 S	142.54.00 E	45	500
M32	13460	ORIOMO	PNG	Natural	08.50.00 S	143.05.00 E	10	40
M33	19388	PODARI	PNG	Natural	08.52.00 S	142.48.00 E	30	12
M34	20135	POHATURI	PNG	Natural	08.52.00 S	142.53.00 E	40	-
M35	17550	BENSBACH WP	PNG	Natural	08.53.00 S	141.17.00 E	25	10
M36	20134	BINATURI	PNG	Natural	09.00.00 S	141.54.00 E	20	-
M37	20434	SSO KURANDA	PNG	SSO	16.45.00 S	145.30.00 E	400	20
M38	20827	SSO LINGAO	CHINE	SSO	19.34.00 N	109.26.00 E	50	100
M39	20874	GCSO CHIONA	CHINE	GCSO	22.40.00 N	113.20.00 E	150	40
M40	20683	SSO FIDJI	FIDJI	SSO	18.00.00 S	178.00.00 E	10	105
M41	19152	MLAY SABAH	MALAYSIA	Artificial	06.47.00 S	117.07.00 E	50	10
M42	19689	SPA MALAYSIA/PNG	MALAYSIA	SPA	-	-	-	10
M43	20825	SPA BELDEROL	PHILIPPINE	SPA	08.09.00 N	125.04.60 E	801	12
M44	20824	SSO SILOO	PHILIPPINE	SSO	08.25.00 N	124.57.00 E	600	49
M45	20819	SPA MINDORO	PHILIPPINE	SPA	12.50.60 N	121.27.00 E	23	90
M46	20829	SPA DONG HA	VIETNAM	SPA	16.47.00 N	107.02.00 E	50	109

Legend : PNG : Papua New Guinea / QLD : Queensland, Australia / SPA : seed production area / SSO : seedling seed orchard / GSCO : Grafted clonal seed orchard / Natural: provenance of natural area (harvest in natural forest) / Artificial : harvested in plantation.

Table 2. Provenance means for diameter and height

Provenance	lsmeans (DBH	StdErr	Provenance	lsmeans (height	StdErr
e	(cm))		e	(m)	
26	10.2954	5.3926	25	7.5081	1.6729
25	13.0405	5.3921	26	8.8009	1.6746
44	14.8262	1.5802	45	9.9179	0.5565
28	14.9576	1.3158	24	10.2493	0.6071
45	15.0411	1.5312	28	10.4110	0.4979
24	17.5014	1.7356	44	10.6070	0.5476
30	17.8232	2.7263	13	11.0627	0.4492
8	17.9987	1.1741	8	11.1865	0.4806
16	18.0243	1.0395	30	11.2704	0.9150
9	18.0270	1.0686	4	11.2769	0.5629
27	18.0641	1.3516	35	11.4217	0.4958
4	18.1036	1.4859	38	11.4500	0.5402
13	18.1831	1.0407	15	11.4523	0.4304
15	18.2477	1.0162	10	11.5412	0.4740
21	18.5344	1.0220	16	11.5507	0.4482
29	18.5724	1.0763	14	11.6455	0.4597
11	18.7754	1.2679	22	11.6658	0.4623
14	18.9097	1.0929	17	11.6972	0.5140
22	19.0471	1.0893	27	11.7539	0.5146
17	19.2566	1.3149	9	11.8131	0.4433
38	19.2599	1.3586	31	11.8977	0.4543
7	19.3229	1.2810	29	11.9402	0.4641
5	19.3661	1.2028	21	11.9501	0.4410
35	19.3932	1.2534	23	11.9546	0.4916
23	19.4394	1.2259	33	12.0321	0.4359
33	19.5687	0.9929	1	12.0941	0.4944
6	19.8376	1.2853	2	12.1192	0.4421
34	19.8764	1.0509	41	12.1557	0.5082
12	19.9176	1.1622	36	12.1720	0.4744
39	20.0397	1.2540	34	12.1812	0.4460
20	20.0664	1.0516	11	12.2294	0.5289
10	20.1249	1.1496	40	12.2459	0.4444
36	20.4198	1.1159	5	12.2575	0.4979
19	20.4401	0.9410	43	12.2609	0.4902
3	20.5305	1.2387	7	12.2948	0.5076
41	20.9641	1.2346	37	12.3361	0.4417
46	21.0360	1.2585	3	12.4037	0.5108
18	21.0640	1.0664	46	12.4138	0.5101
31	21.1017	1.1621	12	12.4667	0.4948
32	21.1793	1.3066	39	12.4742	0.5049
40	21.3682	1.0555	32	12.6164	0.4977

1	21.6404	1.2513	6	12.6470	0.5035
37	21.7728	1.1362	18	12.6525	0.4465
2	21.8264	1.0968	19	12.7122	0.4198
42	21.9645	1.2254	42	12.7659	0.4893
43	23.0764	1.2240	20	12.7936	0.4405

The least squares means are ranked from top to bottom in ascending order.