

SUPPLEMENTARY MATERIAL

Serotiny in southern hemisphere conifers

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Supplementary Information including location of collections and morphometric measurements of *Callitris* and *Widdringtonia* specimens.

Species	Latitude, longitude	Number of cones measured	Cone fresh weight (g)	SE	Cone dry weight (g)	SE	Cone length (mm)	SE	Cone width (mm)	SE	Cone scale width (mm)	SE	Total # seeds	SE	# fertile seeds	SE	Total seed weight (g)	SE	Individual fertile seed weight (g)	SE
<i>Callitris (Actinostrobus) acuminata</i> (Parl.) F. Muell. (1)	30 28'13.99", 115 22' 10.78" 31 58'33.56",	23	2.54	0.11	0.95	0.04	21.6	0.3	16.1	0.4	NM		8.5	0.5	0.7	0.2	0.12	0.01	0.03	0.002
<i>C. acuminata</i> (2)	115 59' 36.99" 29 43'57.77",	20	2.63	0.10	1.13	0.0	17.79	0.3	18.1	0.3	NM		11.6	0.3	1.9	0.4	0.13	0.01	0.023	0.001
<i>C. acuminata</i> (3)	115 13' 55.92"	20	3.00	0.10	1.21	0.1	26.61	0.6	18.7		2.8	0.1	8.5	0.7	2.0	0.4	0.13	0.01	0.032	0.002
<i>C. (Actinostrobus) arenaria</i> (C.A. Gardner) J.E. Piggin & J.J. Bruhl *	30 50'30.41", 116 47' 53.59" 29 49'48.90",	17	2.45	0.14	1.23	0.07	16.6	0.3	NM		2.7	0.1	11.8	0.1	6.9	0.3	0.24	0.01	0.025	0.001
<i>C. arenaria</i>	115 14' 20.77"	21	1.70	0.05	0.65	0.02	16.5	0.0	14.5	0.0	1.8	0.1	12.4	0.2	8.4	1	0.23	0.01	0.023	0.001
<i>C. (Actinostrobus) pyramidalis</i> Sweet ex J.E. Piggin & J.J. Bruhl*	32 02'56.79", 115 55' 59.71" 32 02'56.79",	20	1.36	0.04	0.60	0.02	14.9	0.2	14.8	0.2	NM		11.5	0.2	8.5	0.2	0.24	0.01	0.026	0.001
<i>C. pyramidalis</i>	115 55' 59.71"	20	1.43	0.05	0.54	0.02	15.4	0.3	14.8	0.2	NM		NM		NM		0.22		0.007	0.000
<i>C. macleayana</i> (F. Muell.) F. Muell.*	cultivated	16	7.70	0.60	3.20	0.03	27.8	0.7	24.9	0.7	NM		32.3	1.3	2.2	1	0.30	0.02	0.011	0.001
<i>C. roei</i> (Endl.) F. Muell.	NM	22	NM		1.62	0.09	15.2	0.3	18.0	0.4	NM		22.2	0.5	3.8	0	0.05	0.00	0.007	0.000
<i>C. roei</i> *	33 06' 11.91", 118 45' 50.68"	25	2.83	0.22	1.07	0.10	13.3	0.5	15.5	0.6	NM		NM		NM		0.06	0.01	0.007	0.000
<i>C. drummondii</i> (Parl.) F. Muell.	33 37'57.60", 120 09' 33.98"	21	NM		1.11		14.5		15.2		NM		31.7	0.7	4.4	0	0.07	0.02	0.003	0.000
<i>C. tuberculata</i> R.Br. Ex R.T.Baker & H.G. Sm.	31 16'31.14", 119 52' 03.56"	22	NM		2.19	0.10	17.6	0.3	19.0	0.4	NM		42.7	1.0	7.9	2	0.37	0.02	0.008	0.001
<i>C. rhomboidea</i> R.Br. Ex Rich.	41 40' 51.73", 148 16' 45.5" (approximately)	22	NM		1.59	0.05	18.2	0.3	21.3	0.2	NM		46.3	1.1	15.5	2	0.26	0.01	0.010	0.000

<i>C. oblonga</i> Rich.	41 53' 44.64", 148 15' 25.67"	22 NM		1.79 0.09	22.9 0.5	20.7 0.5 NM		54.4 2.0	13.7 2	0.23 0.02	0.005 0.000
<i>C. muelleri</i> (Parl.) F. Muell.	33 44' 50.73", 150 22' 39.08"	25	6.85 0.25	3.03 0.11	22.0 0.6	25.5 0.4 NM		39.5 1.0	9.8 2	0.90 0.04	0.023 0.001
<i>C. gracilis</i> ssp. <i>murrayensis</i> (J. Garden) K.D. Hill	35 13' 19.21", 138 29' 38.28"	12 NM		3.90 0.00	21.5 1.0	24.9 1.1 NM		76.3 1.7	8.3 2	0.72 0.12	0.010 0.001
<i>C. endlicheri</i> (Parl.) F.M. Bailey	NSW	13 NM		1.11 0.09	18.0	NM NM		38.6 1.2	9.5 2	0.24 0.02	0.01 0.001
<i>C. intratropica</i> R.T. Baker & H.G Sm.	13.10403 130.79395	25 NM		0.72 0.02	12.2 0.2 NM		2.0 0.1	32.0 1.2	3.8 0	0.35 0.05	0.009 0.001
<i>C. glaucophylla</i> J. Thompson & L.A.S. Johnson	30 28' 13.99", 115 22' 10.78"	13	2.70 0.24	1.20 0.12	22.5 0.6	21.5 0.7	5.0 0.2	33.0 1.5	4.2 1	0.25 0.04	0.011 0.00
<i>C. preissii</i> Miq.	31 15' 21.35", 11 32 02' 56.79",	10 NM		5.00 0.19	30.6 2.2	33.5 2.5 NM		45.2 0.7	15.7 1	0.90 0.02	0.014 0.000
<i>C. preissii</i> *	115 55' 59.71", 30 59' 9.34",	23	12.87 0.50	6.70 0.26	25.8 0.6	30.0 0.4	7.8 0	56.7 1.4	21.2 2	0.75 0.03	0.011 0.000
<i>C. preissii</i>	121 09' 20.08", 30 28' 54.72",	25	4.35 0.32	2.65 0.19	19.5 0.6	20.6 0.6	4.4 0.2	44.7 1.4	11.9 1	0.51 0.04	0.010 0.000
<i>C. preissii</i>	119 33' 32.31", 30 59' 9.34",	20	3.43 0.26	2.15 0.17	18.0 0.5	19.6 0.5	4.6 0.1	41.6 0.9	6.0 1	0.37 0.04	0.007 0.000
<i>C. verucosa</i> (A.Cunn. Ex Endl.) F. Muell.	121 09 20.08"	17	2.80 0.30	1.50 0.02	17.0 0.5	17.4 0.5	4.3 0.2	41.5 2.2	6.5 1	0.20 0.00	0.008 0.000
<i>C. canescens</i> (Parl.) S.T. Blake (1)	31 22' 54.73", 118 43' 43.98"	20	2.50 0.14	1.70 0.90	15.9 0.4	16.3 0.3	4.2 0	32.5 1.3	10.7 2	0.16 0.02	0.005 0.000
<i>C. canescens</i> (2)	31 22' 30.75", 118 43' 08.97", 22 06' 27.06", 166 30'	10 NM		1.55 0.05	17.1 0.3	16.5 0.4 NM		34.9 1.8	7.1 1	0.15 0.01	0.006 NM
<i>C. sulcata</i> (Parl.) Schltr.	40.66"(approximately) 33 58' 56.22",	7	0.50 0.05	0.21 0.01	8.9 0.2	9.7 0.7	3.2 0	9.7 0.7	0.4 0	0.02 0.00	0.006 0.000
<i>W. nodiflora</i> (L.) Endl.	18 26' 4.10", 33 34' 16.73",	25	10.80 0.50	4.43 0.21	26.1 0.4	26.8 0.5 NM		24.8 0.9	9.6 1	0.30 0.02	0.020 0.001
<i>W. nodiflora</i> *	19 08' 18.47", 32 08' 27.01", 18 56' 17.33"	22	8.21 0.48	4.08 0.22	23.6 0.5	24.5 0.7	8.7 0	22.3 1.1	4.1 1	0.16 0.01	0.018 0.001
<i>W. cedarbergensis</i> Marsh	(approximately) 33 30' 43.67",	25	10.40 0.40	3.60 0.20	24.4 0.4	27.8 0.4 NM		10.8 0.9	4.8 1	0.88 0.05	0.090 0.005
<i>W. schwartzii</i> (Marloth) Mast*	23 38' 28.83"	23	6.39 0.35	2.67 0.17	23.0 0.5	21.5 0.9	6.4 0	16.0 0.5	11.4 1	0.28 0.01	0.021 0.001

All measurements are means
* species and sample used in the heat trial
SE= standard error