

For 'lasting Links' field days booklet, Oct 2002

PVI/Dufty species and pruning trial

- Planted in September 1985 at 625 trees/ha
- Randomised block design with three replicates and 16-tree provenance plots
- Every second row was pruned
- Thinned to 310 trees/ha at 8 years
- Large differences in growth and form between species
- Best performing species were *Pinus radiata*, *Corymbia maculata*, *Eucalyptus muellerana*, *E. cypellocarpa*, *E. grandis* and *E. bosistoana*
- Pruning clearly increased the potential for achieving quality sawlogs
- In most cases, pruning reduced diameter growth to some degree
- Overall, pruning had little impact on tree height

Species	Survival (%) at 6.5 years	Ht (m) at 14 years		DBH (cm) at 14 years	
		Unpruned	Pruned	Unpruned	Pruned
<i>Acacia acuminata</i>	42	4.8	3.3	12.5	7.2
<i>Acacia falciformis</i>	15	-	-	-	-
<i>Acacia melanoxylon</i>	100	7.6	7.6	24.5	17.4
<i>Allocasuarina verticillata</i>	90	7.1	7.5	19.7	14.7
<i>Callitris preissii</i>	48	5.3	4.2	12.7	9.3
<i>Casuarina cunninghamiana</i>	94	7.7	8.1	17.4	16.8
<i>Casuarina glauca</i>	96	8.0	8.7	18.0	15.4
<i>Corymbia maculata</i>	85	11.0	11.8	23.5	20.9
<i>Eucalyptus astringens</i>	77	8.6	9.7	16.4	14.9
<i>Eucalyptus bosistoana</i>	92	10.0	11.3	26.2	20.2
<i>Eucalyptus blakeyi</i>	100	7.8	7.8	22.3	13.3
<i>Eucalyptus brockwayi</i>	2	-	-	-	-
<i>Eucalyptus camaldulensis</i> 1	100	8.5	8.1	18.8	14.0
<i>Eucalyptus camaldulensis</i> 2	98	7.9	7.6	16.9	13.0
<i>Eucalyptus camaldulensis</i> 3	90	5.6	5.3	16.9	15.8
<i>Eucalyptus camaldulensis</i> 4	100	5.2	6.0	12.2	10.1
<i>Eucalyptus cornuta</i>	79	5.2	4.9	11.3	8.6
<i>Eucalyptus cypellocarpa</i>	98	11.6	11.6	28.6	20.6
<i>Eucalyptus dendromorpha</i>	17	-	8.0	-	14.8
<i>Eucalyptus dundasii</i>	0	-	-	-	-
<i>Eucalyptus grandis</i>	94	11.8	11.9	24.5	18.4
<i>Eucalyptus gomphocephala</i>	56	6.8	8.9	17.6	18.6
<i>Eucalyptus largiflorens</i>	81	4.3	4.6	10.3	9.3
<i>Eucalyptus leucoxyton</i>	85	8.1	7.5	16.5	12.1
<i>Eucalyptus melliodora</i>	100	7.1	6.4	21.2	12.3
<i>Eucalyptus mollucana</i>	77	7.2	5.8	13.2	8.5
<i>Eucalyptus muellerana</i>	81	10.9	11.3	29.9	22.8
<i>Eucalyptus occidentalis</i>	92	8.6	9.0	15.5	14.0
<i>Eucalyptus paliformis</i>	27	8.0	9.5	17.4	19.7
<i>Eucalyptus paniculata</i>	88	7.9	9.4	19.2	17.4
<i>Eucalyptus punctata</i>	67	6.9	7.2	19.6	13.7
<i>Eucalyptus pilularis</i>	23	6.6	8.7	15.5	15.9
<i>Eucalyptus polyanthemos</i>	98	8.9	9.0	19.4	14.1
<i>Eucalyptus robusta</i>	67	5.7	5.8	16.7	12.7
<i>Eucalyptus sideroxyton</i>	92	7.7	7.9	19.3	16.8
<i>Eucalyptus sieberi</i>	29	11.0	9.4	30.2	19.2
<i>Eucalyptus tereticornis</i>	98	8.4	8.2	23.9	15.1
<i>Eucalyptus wandoo</i>	75	6.9	7.5	18.0	13.9
<i>Pinus halepensis</i>	81	6.9	6.7	18.5	15.9
<i>Pinus radiata</i>	90	10.1	9.9	34.1	24.3