



NSW Agriculture

Farm Forestry NSW: trees for coastal regions and nearby ranges

Agnote DPI-377, 1st Edition, September 2001
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This list provides a guide for tree planting for farm forestry. It focuses mostly on those species which have value for production of timber products.

For general tree planting advice - especially for biodiversity or land rehabilitation - see also Greening Australia, DLWC or NPWS for lists of locally endemic species. CSIRO publication *Trees for Saltland* provides a good guide for tree planting in saline discharge areas.

Height is the typical expected maximum on a suitable site and may be significantly lower on marginal sites and taller on best sites. Growth rates will vary, but those species showing better indications of relative performance are in bold.

Seed source - provenance - for growing stock is important for survival, growth, and form. Source appropriate provenances from good suppliers.

Adequate site preparation and establishment techniques are vital for tree growth.

DISCLAIMER

The information contained in this publication is based on knowledge and understanding at the time of writing (September 2001). However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of New South Wales Department of Agriculture or the user's independent adviser.

The products named in this publication are supplied on the understanding that no preference between equivalent products is intended and that the inclusion of a product name does not imply endorsement by NSW Agriculture over any equivalent product from another manufacturer.

Professional advice. This list is a general guide for consideration only and comprises those species that show reasonable potential for survival and growth on a range of sites. Landholders should obtain the specific advice of a professional forestry consultant before making significant investments in farm forestry.

REFERENCES

A series of Farm Forestry Agnotes is available, or in production. They include:

- Agnote DPI-374 FarmForestry: Suggested reading and web sites.
- Agnote DPI-375 Farm Forestry: Trees for the western slopes and plains - NSW.
- Agnote DPI-376 Farm Forestry: Trees for the Tablelands of NSW.
- Agnote DPI-377 Farm Forestry: Trees for the coast and adjacent ranges of NSW.
- Agnote DPI-378 Farm Forestry: Recommended tree planting times.
- Agnote DPI-379 Farm Forestry: Training and education NSW.
- Agfact P6.1.1 Farm Forestry: Planning*
- Agfact P6.1.2 Farm Forestry: Silviculture*

* In production, September 2001.

For a complete list of NSW Agriculture Agfacts, Agnotes and Farm Enterprise Budgets on the Web, please see:

www.agric.nsw.gov.au/publications

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Species	Common name	Height (m)	Min. rainfall (mm)	fodder	useful timber?	honey bees?	tolerant of...	prefers...	avoid...	Comment
Native trees										
<i>Acacia aulacocarpa</i> var. <i>aulacocarpa</i>	brown salwood	15	900		c	P	range of soils	subtropical - tropical climate	frost	A. aulacocarpa varieties may now be divided into a number of different species. Acacias fix nitrogen.
<i>Acacia auriculiformis</i>	N. black wattle	14	1000		c, fw	P	salt winds, slightly saline soil, clay	tropical climate	alkaline soils	Planted overseas. Short-lived, but fast growth. Coppices.
<i>Acacia falciformis</i>	broad leaved hickory wattle	12	600		c, fw	P	range of soils, moderate drought, upper slope position, exposed sites, frost	coarser soils	any water-logging or poor drainage	
<i>Acacia mearnsii</i>	black wattle	15	600		c, fw	P	range of soils, moderate drought, poor drainage, exposed sites, frost	sandy, acid soils, especially shales and slates. E to S aspect.		
<i>Acacia melanoxylon</i>	black-wood	15	700		s, c, fw	P	moderate drought	deep, fertile, acid clay loam, >750mm rainfall	open growth for timber production, infertile soils or heavy clay	long lived for an Acacia, may require nurse trees to achieve good form
<i>Allocasuarina littoralis</i>	black she-oak	10	750	M	c, fw	P	moderate drought	good drainage	frost	fodder - useful as drought supplement
<i>Allocasuarina torulosa</i>	forest she-oak	16	1000		c, fw	P	range of soils	summer rain	frost	sole feed tree for listed species - glossy black cockatoo
<i>Alphitonia excelsa</i>	red ash	12	700	M	c				fire sensitive	Bright orange-red timber. Slow to germinate, but grows from cuttings
Key Useful timber: * = fast growth/versatile products, s= sawlogs, c= cabinet timber & panelling, v=veneer, f=fencing material (durable in-ground), fw=firewood. Listed product categories indicate possible use, but does not imply significant existing markets, or economic profitability. Those species listed in bold are those showing most promise.						Fodder: y= useful fodder, m=fodder marginal - supplementary value only, blank = no or unknown fodder value Honey bees: h= honey, p=pollen Ñ listed if moderate to good production.			Height is the typical expected maximum on a suitable site and may be significantly lower on marginal sites and taller on best sites. Growth rates will vary, but those species showing better indications of relative performance are in bold. Seed source for growing stock is important for survival, growth, and form - source appropriate provenances from good suppliers.	

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<i>Angophora floribunda</i>	rough barked apple	30	650	M		P	lopping, moderate drought			fodder - useful as drought supplement
<i>Angophora subvelutina</i>	rough barked apple	20	750	M		P	drought			fodder - useful as drought supplement
<i>Araucaria cunninghamii</i>	hoop pine	35	1000		s, c, v			fertile soils, sheltered location	fire sensitive	improved stock available, especially from Qld.
<i>Castanospermum australe</i>	black bean, Morton Bay chestnut	20	1100		c, v			subtropical - tropical climate	frost, fire sensitive	Very dark, prized timber. Poisonous seeds
<i>Casuarina cunninghamiana</i>	river oak	20	500	M	c, fw	P	slightly alkaline soils, moderate drought, frost	slightly acid to neutral soils, river banks		largest of the she-oaks. Casuarinas fix nitrogen.
<i>Casuarina glauca</i>	swamp oak	12	350	M	c, fw	P	wet sites, salinity, drought	heavy soils - clay loams	sandy soils	useful drought fodder. Provenance (seed source) may be important for growth and form. High culling ratio
<i>Castanospermum australe</i>	black bean, Morton Bay chestnut	20	1100		c, v			subtropical - tropical climate	frost, fire sensitive	Very dark, prized timber. Poisonous seeds
<i>Corymbia maculata</i> (was <i>Eucalyptus maculata</i>)	spotted gum	30	650	M	* s, c, fw	HP	range of soils, including heavy or poorer soils			Seed source important to drought and frost tolerance. Relatively resistant to insect attack.
<i>Eucalyptus botryoides</i>	bangalay, southern mahogany	20	700		s, fw	HP	wide range of soils, poor drainage, salinity, moderate drought	acid to neutral pH		moderate to high susceptibility to leaf insects and borers
<i>Eucalyptus cloeziana</i>	Gympie messmate	30	700		* s, f		range of sites	sands to loams, at least moderate fertility, mid to lower slopes in north NSW	heavy frost, poor drainage, calcareous soils	variable species - provenance likely to be important. Heavy, durable timber

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<i>Eucalyptus dunnii</i>	Dunn's white gum	30	1000		* s, c, v		Will tolerate heavy soils if well drained. moderate frost.	moist, well drained, deep fertile loams - lower slopes in north NSW.	poor drainage	similar sites to flooded gum, but more frost tolerant
<i>Eucalyptus globulus</i>	Tasmanian blue gum	30	600		s, v, c, fw	HP		winter rainfall (ie S. NSW), good, well drained soils	heavy frost when young	
<i>Eucalyptus grandis</i>	flooded gum, rose gum	30	1000		* s, v, c, fw	P	light frost if from suitable provenance. Will tolerate heavy soils if well drained.	moist, well drained, deep fertile loams - lower slopes	poor drainage, high water tables	Capable of very fast growth on good sites, but may be prone to wallaby browsing and insect attack. Rose coloured timber.
<i>Eucalyptus leavopinea</i>	silvertop stringybark	25	800		* s, fw	HP	moderate drought, moderate frost	good soils, sites above 500m altitude	calcareous soils	Relatively good growth rates Ñ may be a better option for areas with slightly higher altitude.
<i>Eucalyptus pilularis</i>	coastal blackbutt	30	750		* s, c, v, fw	HP	range of soils	good drainage, moderate to good fertility	poor drainage, alkaline soils	Versatile in growth and timber qualities. Wallaby browsing often a problem in plantations.
<i>Eucalyptus resinifera</i>	red mahogany	30	1000		s, c, f, fw	P		warm humid climate, summer rainfall, better soils	frost	deep red, attractive timber
<i>Eucalyptus saligna</i>	Sydney blue gum	35	800		* s, c, v, fw	HP	moderate frost (relatively) if from suitable provenance	Well-drained, sandy loam to clay loam. moderate to good fertility.		Fast grower on good sites. Rose coloured timber.
<i>Grevillea robusta</i>	silky oak	25	750		c, v	HP	range of soils, including low pH (acid subsoils)			Allelopathic effects when grown in numbers. May be semi-deciduous. Potential borer problems.
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Exotic trees										
<i>Betula verrucosa</i>	silver birch	15	750		c, fw		wet sites			Deciduous.
<i>Juglans nigra</i>	black walnut	22	750	M	c	P		deep, fertile, well-drained soils, sheltered site	poor drainage, heavy clay, shallow soils	Prized timber, but slow growth.
<i>Paulownia spp</i>	paulownia	12	800	Y	s,c,v	H		deep, fertile, moist but well-drained soils	not drought tolerant	Several species and varieties available. Deciduous. Fast growth, but only on suitable sites. Like many species, little current market in Australia.
<i>Pinus elliotii</i>	slash pine	22	800		* s, v		Poor soils. More tolerant of fire and poor drainage than other pines.	Summer rainfall.	frost	Commercial hybrids available.
<i>Pinus taeda</i>	Loblolly pine	22	800		* s, v			better soils than slash pine	frost	
<i>Pinus caribaea var. hondurensis</i>	Caribbean pine	25	900		* s, v		shallower soils	Summer rainfall & better soils than slash pine	frost	Commercial hybrids available.
<i>Populus deltoides</i>	cottonwood, Carolina poplar	20	800	Y	s,v		wet sites, frost	moist, good soil, summer rainfall	poplar types that sucker, not drought tolerant	Limited market. Several hybrids available. Deciduous.



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