

TREE SPECIES PERFORMANCE STUDY

A study has been made of the performance of a number of tree species with respect to their value in reforesting sites affected by jarrah dieback.

The tables that follow have been prepared to summarize the results to date in two respects.

The first set give detailed actual performance in plots examined in the four northern divisions of Mundaring, Kelmscott, Dwellingup and Harvey.

The expanded table embraces a wider range of species in relation to position in the dieback landscape and suitability for a number of specific applications such as commercial timber production, aesthetic effect, tolerance to salt etc.

The final diagram represents one way to apply the results of the investigations.

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CODE

Site Suitability

- 1 - Ridge and Shallow Soil
- 2 - Ridge and Floaters = u/s
- 3 - Gravel Slopes M + L/S
- 4 - Flats and Valleys
- 5 - Sandy Soils
- 6 - Gravel Pits

Commercial Use

- F = Firewood
- Pl = Poles
- Ps = Posts
- R = Rails
- Pe = Pergolas
- L = Logs
- S = Strainers
- Th = Tool Handles
- Tb = Tan Bark
- C = Chips
- Cw = Chipwood
- Cb = Chipboard
- Fr = Fence rails
- Sc = Scantlings
- Pw = Pulpwood

Aesthetic = Aes.

Recreation = Recn.

Fire Resistance = L = Low
M = Moderate
H = High

Salt Tolerance = L = Low
M = Medium
H = High

Flowering Periods

J = January
F = February
M = March
A = April
Ma = May
J = June
Ju = July
Au = August
S = September
O = October
N = November
D = December

Provenance Hybrids = put in full

Coppice Ability = Wk = Weak
F = Fair
M = Moderate
U = Unknown

Form - Good
Variable
Conical
Bushy

Comments - put in full

(H) Eucalyptus occidentalis not included above

* Good honey potential

SPECIES SUITABLE FOR DIEBACK REHABILITATION PLANTING

SPECIES & COMMON NAME	SITE SUITABILITY	COMMERCIAL USE	AESTHETIC RECREATION	FIRE RESISTANCE	SALT TOLERANCE	FLOWERING PERIODS	PROVENANCES HYBRIDS ETC	COPPICE ABILITY	FORM	COMMENTS
<u>Acacia elata</u> Cedar Leaf Wattle	2,3,5	F	✓	✓	-	D-J	-	Wk	Good	
<u>Acacia decurrens</u> Black Wattle	2,3,5	F	✓	-	-	S-O	-	F	Good	
<u>Acacia pycnantha</u> Golden Wattle	2,3,5	-	✓	-	-	S-N	-	M	Variable	
<u>Angophora lanceolata</u> Smooth barked Apple	2,3,5	F	✓	-	-	Ma-J	-	U	Good	Honey (?)
<u>Agonis flexuosa</u> W.A. Peppermint	3,4,5	-	✓	M	L	N-D,J	Dwarf variety occurs on coast	F	Variable	Strong flavoured honey
<u>Cupressus arizonica</u> Arizona Cypress	3,5	-	✓	-	-	J-M	-	-	Good	
<u>Eucalyptus accedens</u> * Powder Bark Wandoo	1,2,3,6	F	Aes. Recn.	-	-	D-A (P)	-	✓	Variable	Honey flow limited
<u>Euc. botyroides</u> * False Mahogany	1,2,3,4,5	F	Recn.	✓	✓	F-M	Var. <u>lyneii</u> more suited forest tree			To be confirmed or Willow Springs Arboretum
<u>Euc. calophylla</u> * Marri or Red Gum	2,3,4,5	Pl,Ps,R, Pe,L(?)	Recn.	✓	-	F-M (H) (P)	-	✓	Good	May be odd crossed with Mtn. Gum on Scarp (honey)
<u>Euc. calophylla</u> var. <u>rosea</u> . Pink Flowered Marri	2,3,4,5	R,Ps,Pc	Aes.	✓	-	F-M (H) (P)	-	✓	Good	Honey

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<u>Eucalyptus citriodora</u> Lemon Scented Gum	3,5	R,Ps,F	Aes.	-	-	J-Ju (H) (P)	Crosses with <u>Euc. maculata</u> readily	✓	Good	Not frost tolerant in U.S.A. (Texas).
<u>Euc. camaldulensis</u> * River Gum	3,4,5	Ps,R,F.	Aes. Rec ⁿ .	L	H	S-J (H) (P)	Wide range of Provenance	✓	Variable	Arboretum provenances in Sthn. Cross. Not frost tolerant trees.
<u>Euc. cladocalyx</u> * Sugar Gum	1,2,3,6	Pl,R,Pe, F,L.	Rec ⁿ .	-	-	J-F (H)	Port Lincoln			SEE ATTACHED (Honey)
<u>Euc. diversicolor</u> * Karri	2,3,4,5	Pl,R,F,S, Th.	✓	L-M	L	D-A (H) (P)	-	✓	Good	Honey
<u>Euc. falcata</u> White Mallet	1,2,3,5	R,Ps,Tb, Th.	Aes.	-	-	N-D (H)	-	✓	Conical	Honey
<u>Euc. globulus</u> Tasmanian Blue Gum	2,3,4,5	Pl,R,S, L,C	Aes. Rec ⁿ .	-	-	S-N	-			Prolonged flowering at low intensity
<u>Euc. gardneri</u> Blue Mallet	1,2,3,5,6	Tb,F, Th.	Aes.	-	-	Mc-J (H)	-	✓	Conical	White honey flow
<u>Euc. kruseana</u> Kruse's Mallee	2,3,5	-	Aes.	-	-	A-J	-	✓	Conical	
<u>Euc. laeliae</u> Darling Range Ghost Gum	1,2,3,4	Th,F,Ps, R.	Aes. Rec ⁿ .	L-M	L	D-A	-	U	Good	
<u>Euc. maculata</u> Spotted Gum	2,3,4,5, 6	Th,R,Pl, Cw,L,F,Pe	Aes. Rec ⁿ .	L	-	Ju-S-0		SEE ATTACHED		Honey Flow. S. Africa

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<u>Eucalyptus melliodora</u> * Yellow Box	2,3,5	F,Ps,R,S.	✓	✓	-	N-F (H) (P)	-	✓	Variable	Good Honey Flow
<u>Euc. microcorys</u> Tallow Wood	3,4,5	L,Pl,R, Ps,F,Th.	Rec ⁿ .	✓	-	Ju-N				
<u>Euc. patens</u> * W.A. Blackbutt	3,4,5,6	L,R,Pl,Ps, F,Th.	Rec ⁿ .	✓	✓	N-F (P)	-	✓	Good	Possibly same H.
<u>Euc. platypus</u> * Round Leafed Moort	1,2,3,4,5	-	Aes.	-	L-M	J-O (H) (P)	Red flowered varieties available	Wk	Variable	Var. <u>heterophylla</u> worked by as flowered in Jan. 76.
<u>Euc. resinifera</u> * Red Mahogany	1,2,3,4,5	F,R, Pl, Pc	Rec ⁿ .	✓	-	N-J	-			
<u>Euc. robusta</u> Swamp Mahogany	1,2,3,4,5	F,Cw	Rec ⁿ .	✓	H	N-M	-	✓	Variable	
<u>Euc. wandoo</u> * Coastal Wandoo	2,3,4,6	F,L,R,Ps, S,Pl.	Rec ⁿ .	L	L	M-J (H) D-Ma	-	✓	Variable	Honey flows S.Afr.
<u>Euc. saligna</u> Sydney Blue Gum	3,4,5	L,Pl,R, F,Cw	Aes. Rec ⁿ .	L	-	J-M				Honey flows S.Afr.
<u>Euc. spathulata</u> Swamp Mallet	3,4,5	F	Rec ⁿ .	-	M-H	Ju (H)	-	✓ Wk	Conical	Possibly similar to <u>Euc. annulata</u>

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<u>Eucalyptus sideroxylon</u> var. <u>rosea</u> Mugga Ironbark	2, 3, 5	F, Sc, R, Ps.	Aes. Rec ⁿ .	✓	-	Ma-J	-	U	Good	
<u>Pinus pinaster</u> Maritime Pine	1, 2, 3, 4, 5	Pw, Cb, Ps, Fr.	Rec ⁿ .	L	-	J-F	Variety of provenances	✓	Good	See clone orchards and seed orchards
<u>Pinus elliotii</u> Slash Pine	2, 3, 4, 5	Pw, Cb, L, Ps, Fr.	Rec ⁿ .	L	-	" M	" "	U	Good	See Arboretums
<u>Pinus taeda</u> Loblolly Pine	2, 3, 4, 5	Pw, Cb, L, Ps, Fr.	Rec ⁿ .	L	-	" "	" "	U	Good	See Arboretums