





Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1001	Personalities, Trees or Structures	Trees
Name of Tree	<i>Quercus cerris</i>		
Botanical Name	<i>Quercus cerris</i> fam <i>Fagaceae</i> L Europe, (<i>Quercus</i> Latin - Oak, <i>Cerris</i> Latin - Turkey)		
Common Name	Turkey Oak, Mossy Cap		
Distribution	N Africa, W Asia		
N.T. File No.	National Trust Victoria Branch File No. T11297	Level Regional	
Map Location	8		
Brief Description		National Trust - Statement of Significance	
DESCRIPTION	Massive wide spreading branches, deciduous tree to 15m Trunk divides low down		<p>"Location or Context: historic garden or park; Outstanding Size: spread x circumference Very large spreading canopy. Largest known example of species in cultivation in Victoria. Measurements: Spread (m): 32 Girth (m): 3 Height (m): 24 Estimated Age (yrs): 100 Condition: Good"</p> <p>http://vhd.heritage.vic.gov.au/vhd/nattrust</p>
BARK	Deeply ridged, grey-brown, thick and rough		
LEAVES	Distinguished from most other oaks by long narrow stipules (5) around base of leaves, leaves jagged and uneven 12cm, variable toothed dark green above, grey brown hairs below		
FLOWERS	Male yellow green drooping catkins, female inconspicuous early summer		
FRUITS	Mossy acorn cap with scales bent back 2-4cm oblong to ovoid solitary or clustered		
USES	In Britain the fastest growing oak, timber of little value		
			 <p>Quercus cerris</p> <p>Turkey Oak T 11297</p>

Acorns	Spring/Summer	Autumn
		
Photo ID	Photographs by Jennifer Burrell IMG_0951 24/11/2009 = 2, 8/5/2010 = 3	

Sources:

http://www.nattrust.com.au/trust_register and 8/5/2010
Piero Amorati, ICCroce - Casalecchio di Reno, Bugwood.org <http://www.forestryimages.org/browse/detail.cfm?imgnum=1379025>,
IMG_0951_TurkeyOak8.jpg This work is licensed under a Creative Commons Attribution-Noncommercial 3.0 United States License. 'Hortus Third' p933, Lord 'Trees and shrubs for Australian Gardens' p97, Polunin p55 'Horticultural Flora of South-Eastern Australia Vol 1' p152, Polunin p55 Collins p120

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1002	Personalities, Trees or Structures	Trees
Name of Tree	<i>Vitex lucens</i>		
Botanical Name	<i>Vitex lucens</i> fam <i>Berbinaceae</i> T.Kirk (<i>Vitex</i> Life, <i>lucens</i> bright, clear)		
Common Name	Puriri (Maori) New Zealand Oak		
Distribution	New Zealand		
N.T. File No.	National Trust Victoria Branch	File No. T11305	Level Regional
Map Location	1 - Off the map, behind Adam Lindsay Gordon Cottage (Craft Cottage)		

Brief Description

DESCRIPTION	Narrowly spreading evergreen tree
BARK	Grey, smooth
LEAVES	Glossy deep green leathery 3-5cm egg shaped wavy edged
FLOWERS	Sprays of 5-15 bright red or pink 3cm wide, 2 lipped, blooms most of the year
FRUITS	Edible bright red drupe 2cm diameter Tree bi-sexual or unisexual
USES	Highly valued hard wood, strong durable timber used for sleepers, fence posts, house blocks, bridges. First introduced to cultivation from Tolanga Bay N.Z 1769 Wine made from berries

National Trust - Statement of Significance

"Location or Context: historic garden or park; Rare or Localised: 10-50 known specimens; Outstanding Size: height x circumference x spread Rare in cultivation in Victoria. Other examples occur at Portland, Coolart and the Royal Botanic Gardens. Measurements: Spread (m): 8.5 Girth (m): 2 Height (m): 12 Estimated Age (yrs): 50 Condition: Good"
<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Flowers and fruit



Spring/Summer



Photo ID

Photographs by Jennifer Burrell
 IMG_0955 - 24/11/2009

Sources:

http://www.nattrust.com.au/trust_register/
Vitex lucens Purini T 11305, flower and fruit, taken 27 Apr 2010
 'Hortus Third' p1098, Lord 'Trees and shrubs for Australian Gardens' p97, Palmers Manual of Trees Shrubs & climbers p257, 'Horticultural Flora of South-Eastern Australia Vol 4' p15

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1003

Personalities, Trees or Structures

Trees

Name of Tree

Quercus robur

Botanical Name

Quercus robur fam *Fagaceae* L
(*Quercus* Latin for Oak, *Robur* Strong, robust)

Common Name

English Oak, Common European Oak, Pedunculate Oak, Syn pedunculata

Distribution

Europe, N Afr, W Asia

N.T. File No.

National Trust Victoria Branch File No. T11298 Level Regional

Map Location

2 - off the map, behind ALG Cottage

Brief Description

DESCRIPTION Massive wide spreading branches deciduous tree to 15m Trunk divides low down

BARK Grey, furrowed

LEAVES Earlike flaps where leaves meet the stalk, yellow when mature, leaves lobed with 3 shallow lobes each, side hairs on midrib below, dark green above, stalk 4-7mm

FLOWERS Male yellow green catkins, female inconspicuous late spring

FRUITS Acorns 2-4cm oblong to ovoid solitary or clustered

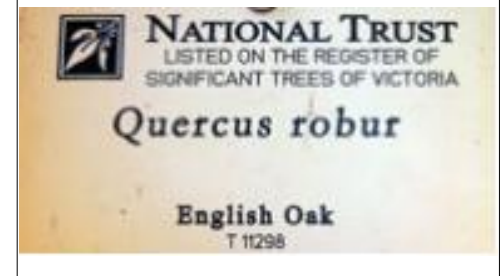
USES Highly valued hard wood. Strong durable timber used for houses, bridges. ship building, furniture. wine barrels. Truffle tree. Oak gall provided the ink used to write the US Constitution. One of the most widely planted trees in Ballarat and worldwide

Planted by the Druids, a Benevolent Lodge, in 1870.

National Trust - Statement of Significance

"Historical Value: cultural group Planted by the Druids of Ballarat on 27 December 1870 at the rear of Adam Lindsay Gordon's Cottage.
Measurements: Spread (m): 27 Girth (m): 3 Height (m): 20 Estimated Age (yrs): 117 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Leaf/acorn



Spring/Summer



Plaque



Photo ID

Photographs by Jennifer Burrell
IMG 0984- 24/11/2009 =2

Sources:

http://www.nattrust.com.au/trust_register/ Photos by Jennifer Burrell
Robert Vidéki, Doronicum Kft., Bugwood.org <http://www.forestryimages.org/browse/detail.cfm?imgnum=5399056> Creative Commons Attribution-Noncommercial 3.0 United States License
'Hortus Third' p935, Lord 'Trees and shrubs for Australian Gardens' p97, Polunin p57 'Horticultural Flora of South-Eastern Australia Vol 1' p161, Newton 'Roots of Civilisation' p221-223 Collins p170

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1004

Personalities, Trees or Structures

Trees

Name of Tree

Sequoia sempervirens

Botanical Name

Sequoia sempervirens fam *Taxodiaceae* (Lamb.) Endl.
Sequoia Cherokee for Opossum, commemorates Sequoia, inventor Cherokee alphabet *Sempervirens* Long-lived

Common Name

Coast Redwood, Californian Redwood

Distribution

North America

N.T. File No.

National Trust Victoria Branch File No. T11299 Level State

Map Location

3 - beside gate, adjacent to Claxton Fountain

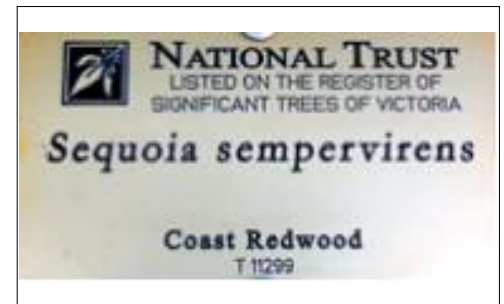
Brief Description

DESCRIPTION	Tall evergreen conifer trunk tapering from broad base
BARK	Red brown 500mm thick, fibrous spongy.
LEAVES	On lateral branchlets 1-2.5cm two ranked narrow
FLOWERS	Male and female on the same tree, M yellow-brown at the ends of shoots, F green in separate clusters
FRUIT	Male cones axillary terminal stalked over whole canopy July to Oct-Nov. Female solitary terminal pendulous 2.5 woody, persistent, minute seeds mature in 12 months
USES	Popular mid 19th century tree for Public spaces, Noted for its size and longevity, massive girth. Durable timber. One of the few conifers which will reshoot from mature wood. The oldest known specimen (felled USA in 1931) was dated at 2200 years.

National Trust - Statement of Significance

"Location or Context: historic garden or park; Outstanding Example of Species Impressive specimen located near the Statue of Autumn. Measurements: Spread (m): 15.5 Girth (m): 6 Height (m): 25 Estimated Age (yrs): 120 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Leaves



Spring/Summer



Photo ID

Photographs by Jennifer Burrell

IMG_0980 -24/11/2009 Note - powerline removed from photo, redwood.jpg - Ballarat Botanical Gardens Education Kit 2002

Sources:

http://www.nattrust.com.au/trust_register/ Forest & Kim Starr, U.S. Geological Survey, Bugwood.org <http://www.forestryimages.org/browse/detail.cfm?imgnum=5399056> Creative Commons Attribution-Noncommercial 3.0 United States License 'Hortus Third' p1038, Lord 'Trees and shrubs for Australian Gardens' p113, Collins Eyewitness p82, 'Horticultural Flora of South-Eastern Australia Vol 1' p301

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1005

Personalities, Trees or Structures

Trees

Name of Tree

Sequoiadendron giganteum

Botanical Name

Sequoiadendron giganteum fam Taxodiaceae (Lindl.) J. Buchholz
(*Sequoiadendron*, tree like a Sequoia, *giganteum*, huge)

Common Name

Sierra Redwood, Giant Sequoia, Big Tree, Wellingtonia (for Duke of Wellington)

Distribution

N.T. File No.

National Trust Victoria Branch File No. T11300 Level Regional

Map Location

Map Location 3A (off map beside toilet block)

Brief Description

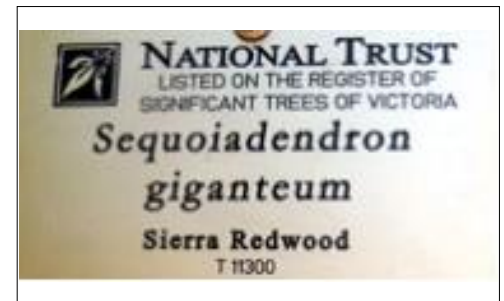
DESCRIPTION Tall evergreen conifer trunk tapering from broad base
BARK 500mm thick red brown, fibrous
LEAVES Tiny pointed scale like leaves on cord like twigs spreading tips deep blue-green
FLOWERS Male and female on the same tree, M yellow at the ends of shoots, F green in separate clusters
FRUIT Elipsoid, 10cm hard, woody, persistent, minute seeds mature in 12 months
USES Popular tree in the mid 19th century for public spaces. Noted for its size and longevity, massive girth, In USA cars were able to drive through the base of the biggest, "General Sherwell".

Avenue first planted c1867

National Trust - Statement of Significance

"Location or Context: historic garden or park; Outstanding Example of Species Impressive specimen located near the Statue of Autumn. Measurements: Spread (m): 15.5 Girth (m): 6 Height (m): 25 Estimated Age (yrs): 120 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Cone & foliage



Photo ID

Photographs by Jennifer Burrell
IMG_0196Sequoia_gCones,-7/8/2009

Spring/Summer



Avenue in North Gardens



Sources:

http://www.nattrust.com.au/trust_register/

Tom DeGomez, University of Arizona, Bugwood.org <http://www.forestryimages.org/browse/detail.cfm?imgnum=5399056> Creative Commons Attribution-Noncommercial 3.0 United States License

'Hortus Third' p1038, Lord 'Trees and shrubs for Australian Gardens' p113, Collins Eyewitness p82, 'Horticultural Flora of South-Eastern Australia Vol 1' p303

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1006	Personalities, Trees or Structures	Trees
Name of Tree	<i>Ulmus glabra</i> 'EXONIENSIS'		
Botanical Name	<i>Ulmus glabra</i> 'EXONIENSIS' fam <i>Ulmaceae</i> cv, Exeter (<i>Ulmus</i> Latin for Elm, 'EXONIENSIS' Exeter)		
Common Name	Exeter Elm		
Distribution	Public and domestic gardens		
N.T. File No.	National Trust Victoria Branch File No. T11321 Level State		
Map Location	4 - in front of Adam Lindsay Gordon Cottage		

Brief Description

DESCRIPTION Medium narrow becoming broadly erect, deciduous tree, occasionally contorted branches in flat sprays

BARK Grey-brown, ridged

LEAVES Rounded, twisted wavy coarsely double serrated rough above pubescent below, dull green

FLOWERS Bi-sexual in large and conspicuous clusters before the leaves no petals, 4-5 stamens

FRUITS Large abundant winged seed

USES Ornamental, lawn specimen, timber reputed to be somewhat resistant to Dutch Elm disease. Discovered c1826 in an English nursery

National Trust - Statement of Significance

"Horticultural Value; Location or Context: historic garden or park; Rare or Localised: 1-10 known specimens An upright tree, very densely twigged with leaves twisted. Pre-1826 Exeter. Measurements: Spread (m): 17.5 Girth (m): 3 Height (m): 20 Estimated Age (yrs): 80 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>

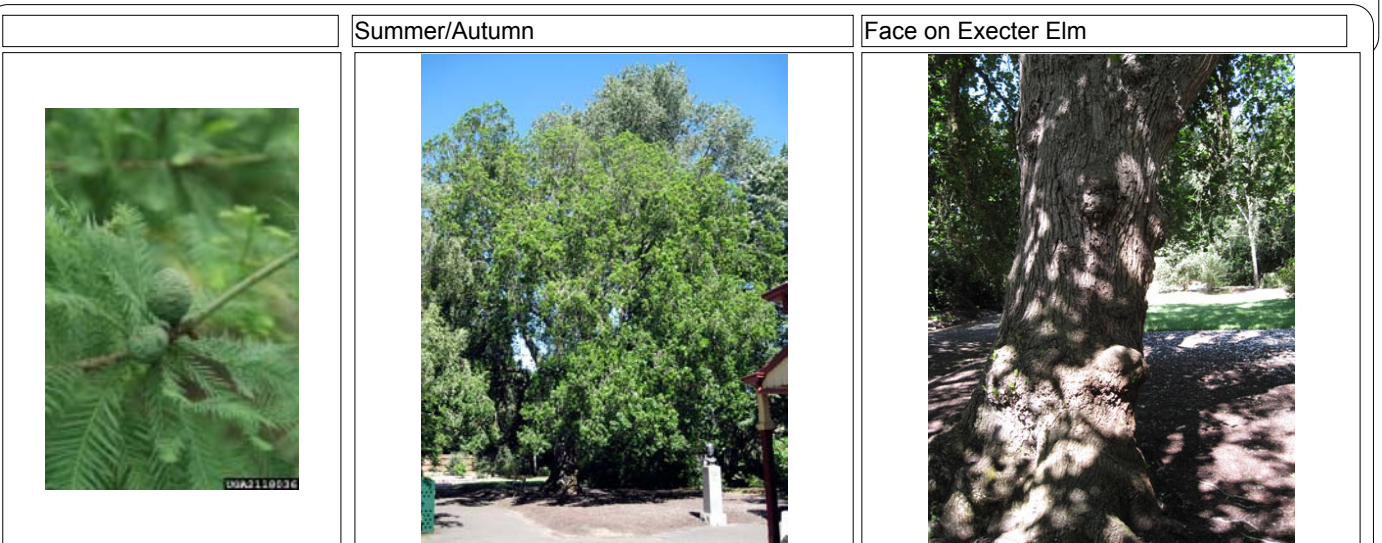
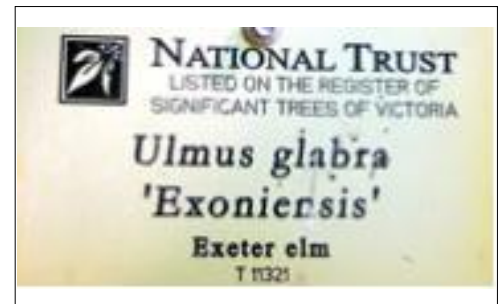


Photo ID

Photographs by Jennifer Burrell
IMG_0958 - 24/11/2009 , MG_0960face_on_Exeter4 copy.jpg-24/11/2009

Sources:

http://www.nattrust.com.au/trust_register/
'Hortus Third' p1137,1138 'Horticultural Flora of South-Eastern Australia Vol 2' p109

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1007

Personalities, Trees or Structures

Trees

Name of Tree

Taxodium distichum

Botanical Name

Taxodium distichum Fam *Taxodiaceae* L. Richards
(*Taxodium* Resembling Yew *distichum* in two ranks)

Common Name

Deciduous Swamp or Bald Cypress

Distribution

South and South East America

N.T. File No.

National Trust Victoria Branch File No. T11303 Level Regional - covers both trees

Map Location

5

Brief Description

DESCRIPTION Large deciduous tree to 40m of rivers and streams

BARK Grey-brown furrowed, rough fibrous shedding in strips

LEAVES Leaf sprays spirally awl shaped, incurved or apressed flat linear to 2cm spreading, feathery both on the same tree Spring tender green, autumn glowing russet, falling as complete sprays

FLOWERS Male green hanging catkins, up to 20cm, female green clusters at the base of the catkins form autumn, open spring

FRUITS Cones 1-3cm rounded green ripening to brown dropping when ripe, seeds have thick warty coats

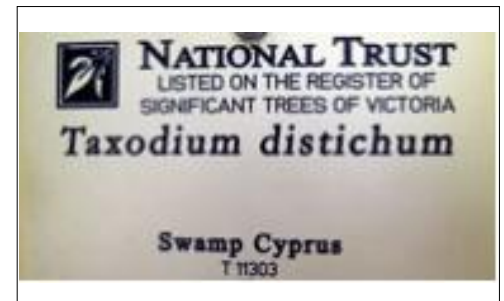
USES None noted

Notable for its buttress trunk and cypress or 'breathing knees' on flooded sites

National Trust - Statement of Significance

"Location or Context: historic garden or park; Aesthetic Value Measurements for N-E tree nearest lake. Measurements for N-W tree are 3m x 13m x 11.8m. Particularly attractive autumn foliage. Measurements: Spread (m): 12 Girth (m): 3 Height (m): 15 Estimated Age (yrs): 50 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Fruit - 7 May 2010



Spring/Summer



Photo - Autumn/Winter



Photo ID

Photographs by Jennifer Burrell. IMG_2145_swampCypress5, IMG_2222SwCyp5.jpg taken 10/5/2010
IMG_2251SwampCyp6.jpg taken 31/5/2010 (IMG 0987Swamp Cypress 5, fruit and autumn foliage, taken 27/4/2010 and 5/8)

Sources:

http://www.nattrust.com.au/trust_register/

Chris Evans, River to River CWMA, Bugwood.org <http://www.forestryimages.org/browse/detail.cfm?imgnum=5399056> Creative Commons Attribution-Noncommercial 3.0 United States License

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1008	Personalities, Trees or Structures	Trees
Name of Tree	<i>Taxodium distichum</i>		
Botanical Name	<i>Taxodium distichum</i> Fam <i>Taxodiaceae</i> L, Richards <i>Taxodium distichum</i> Fam <i>Taxodiaceae</i> L, Richards (<i>Taxodium</i> Resembling Yew <i>Distichum</i> in two ranks)		
Common Name	Swamp Cyprus Deciduous Swamp or Bald Cypress		
Distribution	South and South East America		
N.T. File No.	National Trust Victoria Branch File No. T11303 Level Regional		
Map Location	6		

Brief Description

Both trees covered by the one citation.

DESCRIPTION Large deciduous tree to 40m of rivers and streams

BARK Grey-brown furrowed, rough fibrous shedding in strips

LEAVES Leaf sprays spirally awl shaped, incurved or appressed flat linear to 2cm spreading, feathery both on the same tree Spring tender green, Autumn glowing russet, falling as complete sprays

FLOWERS Male green hanging catkins, up to 20cm, female green clusters at the base of the catkins form autumn, open spring

FRUITS Cones 1-3cm rounded green ripening to brown dropping when ripe, seeds have thick warty coats

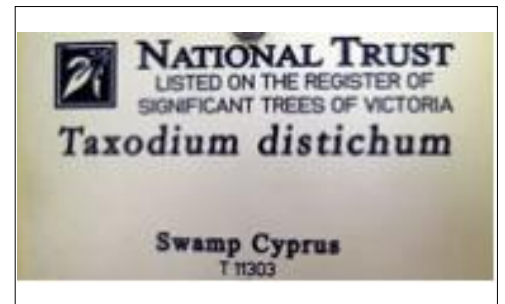
USES None noted

Notable for its buttress trunk and cypress or 'breathing knees' on flooded sites

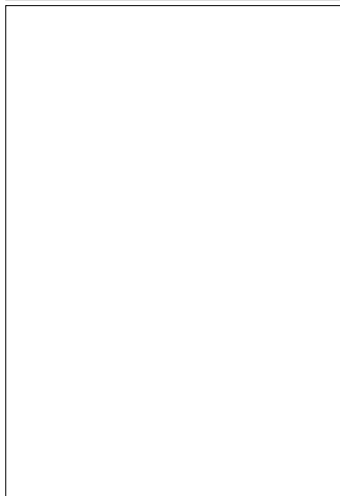
National Trust - Statement of Significance

"Location or Context: historic garden or park; Aesthetic Value Measurements for N-E tree nearest lake. Measurements for N-W tree are 3m x 13m x 11.8m. Particularly attractive autumn foliage. Measurements: Spread (m): 12 Girth (m): 3 Height (m): 15 Estimated Age (yrs): 50 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/natrust>



Cone



Spring/Summer



Autumn



Photo ID

Photographs by Jennifer Burrell
Swamp Cypress 5, fruit and autumn foliage, taken 27/4/2010 IMG_0952 - 27/2/2010

Sources:

http://www.natrust.com.au/trust_register/

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1009	Personalities, Trees or Structures	Trees
Name of Tree	<i>Fraxinus excelsior</i> 'PENDULA'		
Botanical Name	<i>Fraxinus excelsior</i> 'PENDULA' fam <i>Oleaceae</i> Linnaeus (<i>Fraxinus</i> (Latin) <i>excelsior</i> - Taller, PENDULA, drooping, pendulous)		
Common Name	Green Weeping European Ash		
Distribution	Europe & Britain		
N.T. File No.	National Trust Victoria Branch File No. T11306 Level Regional		
Map Location	7		

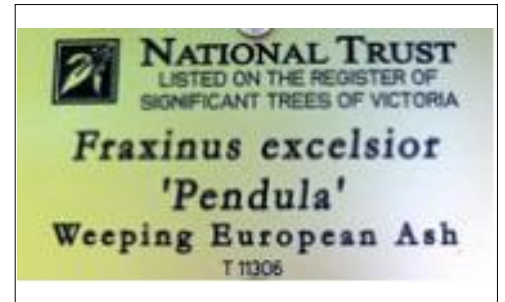
Brief Description

DESCRIPTION Medium deciduous tree to 30m,
BARK Smooth at first, yellow-brown, becoming fissured
LEAVES Winter buds black, young shoots pale yellow brown, Pinnate to 30cm, 9-15 leaflets
FLOWERS October before the leaves, cream or purple, no petals or sepals
FRUIT Mostly 3-4cm, seed often half the length of the wing, wing pointed or notched
USES Leaves used as fodder, wood does not splinter easily, used as sports equipment tool handles, easily bent.
 Possibly descended from taking grafts of a tree at 'Gamlingay' Cambridgeshire in mid 18th century.

National Trust - Statement of Significance

"Location or Context: historic garden or park Attractive lawn specimen.
 Measurements: Spread (m): 12.8 Girth (m): 2 Height (m): 11 Estimated Age (yrs): 80 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/natrust>




Leaf	Spring/Summer	Autumn/Winter
		

Photo ID

Photographs by Jennifer Burrell. I
 MG_0962 -24/11/2009

Sources:

http://www.natrust.com.au/trust_register/
 'Hortus Third' p1485, Lord 'Trees and shrubs for Australian Gardens' p73, Polunin p161, Collins eye witness p229 'Horticultural Flora of South-Eastern Australia Vol 3' p228

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1010	Personalities, Trees or Structures	Trees
Name of Tree	<i>Ulmus glabra</i> 'PENDULA'		
Botanical Name	<i>Ulmus glabra</i> 'PENDULA' fam <i>Ulmaceae</i> cv (<i>Ulmus</i> Latin for Elm, <i>Glabra</i> Hairy <i>PENDULA</i> Weeping)		
Common Name	Syn Horizontalis, Weeping Scotch Elm		
Distribution	Origin - Perth, Scotland, now garden/park specimen		
N.T. File No.	National Trust Victoria Branch File No. T11304 Level Regional		
Map Location	9		

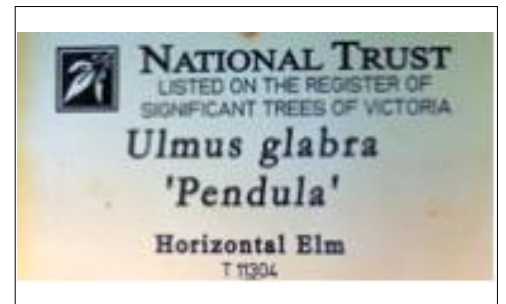
Brief Description


DESCRIPTION	Large weeping, deciduous tree to 20m down, sweeping branches in flat sprays
BARK	Grey, fissured
LEAVES	Tapered dark green
FLOWERS	Bi-sexual in small inconspicuous clusters before the leaves no petals, 4-5 stamens
FRUITS	Green red or purple acene
USES	Ornamental, lawn specimen, timber much prized by craftsmen. Elm burrs are produced by viral infection causing uncontrolled cancer-like growth in the living wood distorting the grain. <i>Glabra</i> is used for grafting because it is non-suckering

National Trust - Statement of Significance

Location or Context: historic garden or park One of the tallest known examples of the species. Measurements: Spread (m): 20 Girth (m): 4 Height (m): 21 Estimated Age (yrs): 120 Condition: Good Originally 3 trees.- 1 removed 2009

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



	Spring/Summer	Autumn/Winter
		
Photo ID	Photographs by Jennifer Burrell. IMG_1040 - 1/12/2009	

Sources:

http://www.nattrust.com.au/trust_register
'Hortus Third' p935, 'Horticultural Flora of South-Eastern Australia Vol 2' p110 'Celtic Flora' p195, 198

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1011

Personalities, Trees or Structures

Trees

Name of Tree

Araucaria bidwillii

Botanical Name

Araucaria bidwillii fam *Aracariaceae* HOOKER
(*Araucaria* - Araucan Chilean Tribe, Bidwillii - Bidwill (Governor of Qld))

Common Name

Bunya Bunya Pine (Derived from local indigenous name for same)

Distribution

North Eastern Qld forests

N.T. File No.

National Trust Victoria Branch File No. T11293

Map Location

10 - closest to Robert Clark Conservatory

Brief Description

DESCRIPTION: Large symmetrical domed tree to 45m, generally smaller in cultivation, branches sweep to the ground

BARK Greyish-black warty wrinkled like an elephant hide

LEAVES Juvenile spreading two rows sharp pointed at tips, adult overlapping spiral, larger branch-like leaves on each side of branchlet 5cm by 1cm.

FLOWERS Male reddish, female green borne in separate clusters same branch late spring

FRUIT Male cones cylindrical 18cm, tips hang from ends of upper branches Sept-Oct (largest male cone), female cone massive and similar in appearance weighing up to 10kg, seeds highly prized as food and said to taste like parsnips

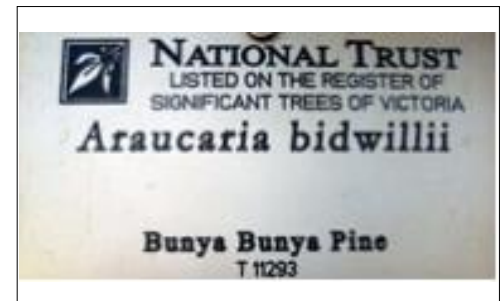
USES Commercial timber

Major landscape feature in 19th century gardens, resistant to salt spray, cuttings from lower branches tend to grow horizontally

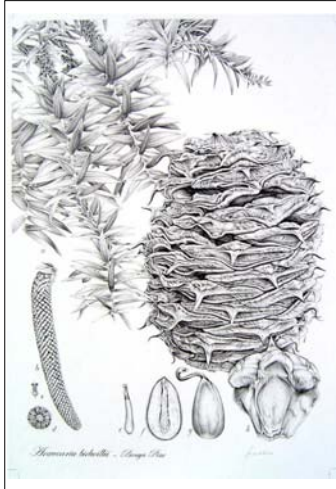
National Trust - Statement of Significance

"Location or Context: historic garden or park Measurements taken from the tallest specimen, left of Statue of Spring. Leaning tree has trunk circumference of 5.45m. Measurements: Spread (m): 18 Girth (m): 4 Height (m): 14 Estimated Age (yrs): 100 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/natrust>



Cone and foliage



Spring/Summer



Photo ID

Photographs by Jennifer Burrell

lara-bidw.jpg, Heidi Willis 2006, MG_0994 - 1/12/2009, bunya.jpg - Ballarat Botanical Gardens Education Kit 2002

Sources:

http://www.natrust.com.au/trust_register/

'Hortus Third' p98, Gardening Australia Floras Native Plants p216, 'Horticultural Flora of South-Eastern Australia Vol 1' p147, Lord 1967 p99

'The book of trees' Alfred Carl Hottes p360

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1012

Personalities, Trees or Structures

Trees

Name of Tree

Araucaria bidwillii

Botanical Name

Araucaria bidwillii fam *Aracariaceae* HOOKER
(*Araucaria* - Araucan Chilean Tribe, Bidwillii - Bidwill (Governor of Qld))

Common Name

Bunya Bunya Pine (Derived from local indigenous name for same)

Distribution

North Eastern Qld forest

N.T. File No.

National Trust Victoria Branch File No. T11293

Map Location

11 - next to 10 in the PM Avenue

Brief Description

DESCRIPTION: Large symmetrical domed tree to 45m, generally smaller in cultivation, branches sweep to the ground

BARK Greyish-black warty wrinkled like an elephant hide

LEAVES Juvenile spreading two rows sharp pointed at tips, adult overlapping spiral, larger branch-like leaves on each side of branchlet 5cm by 1cm.

FLOWERS Male reddish, female green borne in separate clusters same branch late spring

FRUIT Male cones cylindrical 18cm, tips hang from ends of upper branches Sept-Oct (largest male cone), female cone massive and similar in appearance weighing up to 10kg, seeds highly prized as food and said to taste like parsnips

USES Commercial timber

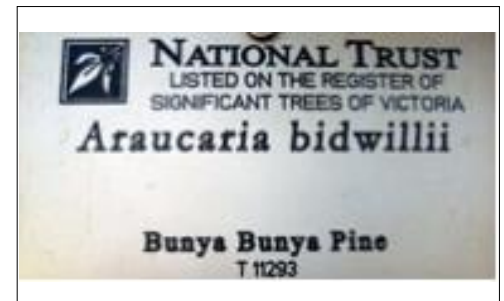
Major landscape feature in 19th century gardens, resistant to salt spray, cuttings from lower branches tend to grow horizontally

Refer I.D. 1011

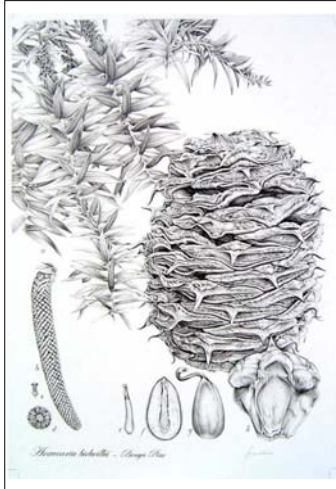
National Trust - Statement of Significance

"Location or Context: historic garden or park Measurements taken from the tallest specimen, left of Statue of Spring. Leaning tree has trunk circumference of 5.45m. Measurements: Spread (m): 18 Girth (m): 4 Height (m): 14 Estimated Age (yrs): 100 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/natrust>



Cone and foliage



Spring/Summer



Photo ID

Photographs by Jennifer Burrell

llara-bidw.jpg - Heidi Willis 2006, 002MG_0949 -24/11/2009, bunya.jpg - Ballarat Botanical Gardens Education Kit

Sources:

http://www.natrust.com.au/trust_register/

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1013

Personalities, Trees or Structures

Trees

Name of Tree

Araucaria bidwillii

Botanical Name

Araucaria bidwillii fam *Aracariaceae* HOOKER
(*Araucaria* - Araucan Chilean Tribe, Bidwillii - Bidwill (Governor of Qld))

Common Name

Bunya Bunya Pine (Derived from local indigenous name for same)

Distribution

North Eastern Qld forest

N.T. File No.

National Trust Victoria Branch File No. T11293

Map Location

Not shown on map - SW cnr on intersection at the end of PM Avenue

Brief Description

DESCRIPTION: Large symmetrical domed tree to 45m, generally smaller in cultivation, branches sweep to the ground

BARK Greyish-black warty wrinkled like an elephant hide

LEAVES Juvenile spreading two rows sharp pointed at tips, adult overlapping spiral, larger branch-like leaves on each side of branchlet 5cm by 1cm.

FLOWERS Male reddish, female green borne in separate clusters same branch late spring

FRUIT Male cones cylindrical 18cm, tips hang from ends of upper branches Sept-Oct (largest male cone), female cone massive and similar in appearance weighing up to 10kg, seeds highly prized as food and said to taste like parsnips

USES Commercial timber

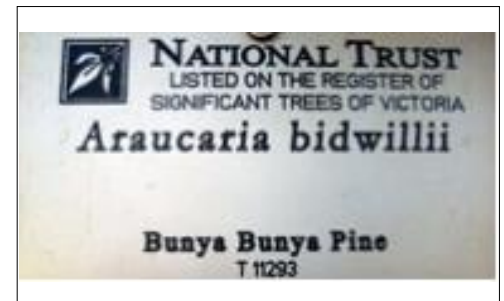
Major landscape feature in 19th century gardens, resistant to salt spray, cuttings from lower branches tend to grow horizontally

Refer I.D. 1011

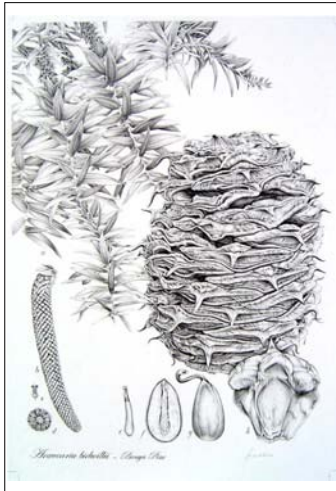
National Trust - Statement of Significance

"Location or Context: historic garden or park Measurements taken from the tallest specimen, left of Statue of Spring. Leaning tree has trunk circumference of 5.45m. Measurements: Spread (m): 18 Girth (m): 4 Height (m): 14 Estimated Age (yrs): 100 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Cone and foliage



Spring/Summer

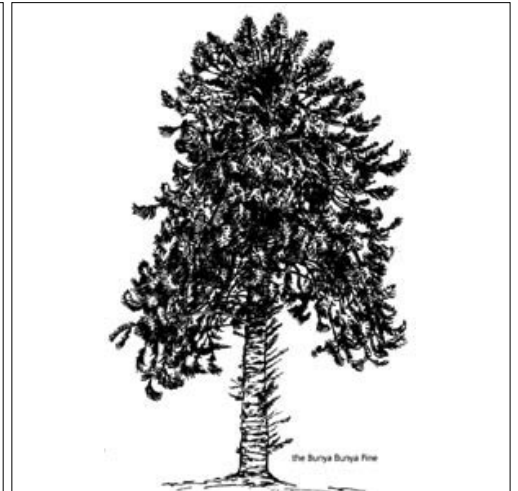


Photo ID

Photographs by Jennifer Burrell

lllara-bidw.jpg - Heidi Willis 2006, MG_1008 - 1 /12/2009, bunya.jpg - Ballarat Botanical Gardens Education Kit

Sources:

http://www.nattrust.com.au/trust_register/

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1014	Personalities, Trees or Structures	Trees
Name of Tree	<i>Araucaria bidwillii</i>		
Botanical Name	<i>Araucaria bidwillii</i> fam <i>Aracariaceae</i> HOOKER (<i>Araucaria</i> - Araucan Chilean Tribe, Bidwillii - Bidwill (Governor of Qld))		
Common Name	Bunya Bunya Pine (Derived from local indigenous name for same)		
Distribution	North Eastern Qld forest		
N.T. File No.	National Trust Victoria Branch File No. T11293 Level State		
Map Location	Not on map - is in Western Walk north of Blue Gum		

Brief Description

Map locations 15 and 16 are not shown on map - are two Bunyas side by side without NT plaques, and are not classified look younger, near floral clock.

DESCRIPTION: Large symmetrical domed tree to 45m, generally smaller in cultivation, branches sweep to the ground

BARK Greyish-black warty wrinkled like an elephant hide

LEAVES Juvenile spreading two rows sharp pointed at tips, adult overlapping spiral, larger branch-like leaves on each side of branchlet 5cm by 1cm.

FLOWERS Male reddish, female green borne in separate clusters same branch late spring

FRUIT Male cones cylindrical 18cm, tips hang from ends of upper branches Sept-Oct (largest male cone), female cone massive and similar in appearance weighing up to 10kg, seeds highly prized as food and said to taste like parsnips

USES Commercial timber

Major landscape feature in 19th century gardens, resistant to salt spray, cuttings from lower branches tend to grow horizontally

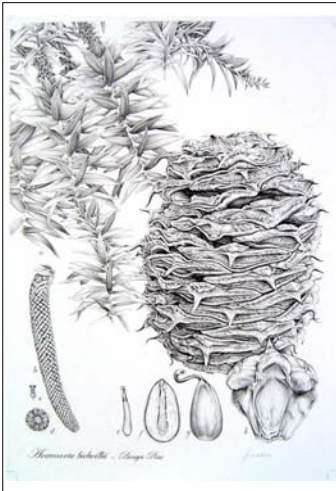
National Trust - Statement of Significance

"Location or Context: historic garden or park Measurements taken from the tallest specimen, left of Statue of Spring. Leaning tree has trunk circumference of 5.45m. Measurements: Spread (m): 18 Girth (m): 4 Height (m): 14 Estimated Age (yrs): 100 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/natrust>



Fruit



Spring/Summer

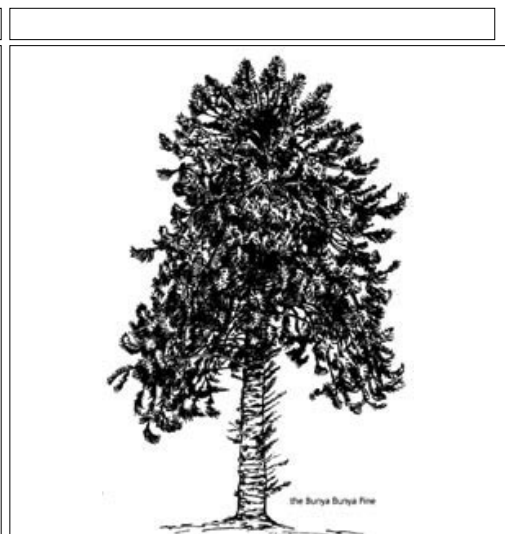


Photo ID

Photographs by Jennifer Burrell
IMG_1003 - 1/12/2009

Sources:

http://www.natrust.com.au/trust_register/

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1015	Personalities, Trees or Structures	Trees
Name of Tree	<i>Pinus ponderosa</i>		
Botanical Name	<i>Pinus ponderosa</i> fam Pinaceae Lawson (<i>Pinas</i> pine (Latin word for fat, produces pitch and tar) <i>ponderosa</i> heavy)		
Common Name	Western Yellow Pine		
Distribution	Western North America		
N.T. File No.	National Trust Victoria Branch File No. T11294 Level Regional		
Map Location	12		

Brief Description

DESCRIPTION: Medium large tree to 50m, straight trunk and narrow crown

BARK Yellow brown, plates, jigsaw like

LEAVES Needle-like mostly in threes, stiff and sharp pointed

FLOWERS Male deep purple female red separate clusters, young shoots

FRUIT Cones ovoid 7-15cm, pale becoming reddish brow. Scales thin with stout hooked prickle. Seeds mottled winged 2.5cm

USES Lumber, building, major source of pitch and rosin for stringed instruments.

Most widespread native tree in North America.

National Trust - Statement of Significance

"Location or Context: historic garden or park; Outstanding Size: height Imposing specimen and the tallest tree in the Botanic Gardens. Measurements: Spread (m): 19 Girth (m): 4 Height (m): 41 Estimated Age (yrs): 100 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Bark

Spring/Summer

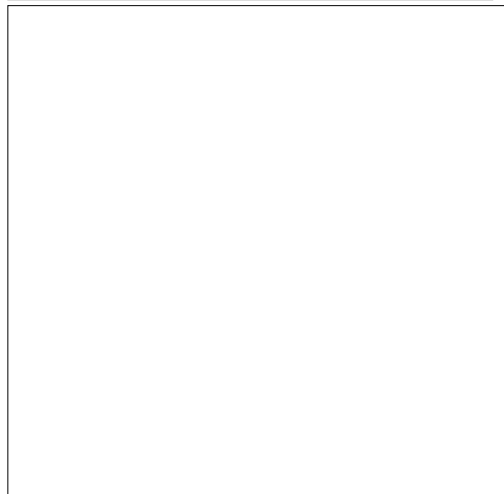
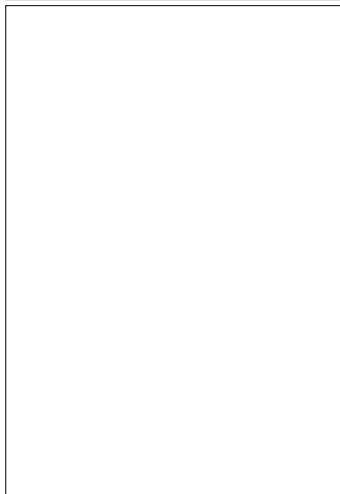


Photo ID

Photographs by Jennifer Burrell
IMG_0948 - 24/12/ 2009

Sources:

http://www.nattrust.com.au/trust_register/

'Hortus Third' p876, Collins Eyewitness p73, Polunin p19 'Horticultural Flora of South-Eastern Australia Vol 1' p262

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1016	Personalities, Trees or Structures	Trees
Name of Tree	<i>Picea sitchensis</i>		
Botanical Name	<i>Picea sitchensis</i> syn <i>P. menziesi</i> fam <i>Pinaceae</i> Pauci (Koster) (<i>Picea</i> pitch, resin (Pix-Latin) <i>sitchensis</i> Sitka Alaska)		
Common Name	Silver Spruce		
Distribution	Western North America		
N.T. File No.	National Trust Victoria Branch File No. T 11296 Level Regional		
Map Location	14		

Brief Description

DESCRIPTION Narrow conical tree to 50m

BARK Dark brown, scaly ages to purplish

LEAVES Young shoots pale brown to orange-yellow, buds 5mm sometimes resinous, leaves 2cm flat tapered stiff and prickly

FLOWERS Male reddish, female green, borne in separate clusters same branch late spring

FRUIT Cones cylindrical 4-9cm, yellowish becoming pale brown, scales thin and papery, seeds black 2mm with 1cm wing

USES Commercial timber known as Silver Spruce, light, fine grained and strong, major source of paper pulp

Grows naturally on damp coastal slopes and swampy soils, copes with soil salinity, fastest growing spruce, 1-1.5m/year.
Largest spruce in these gardens.

National Trust - Statement of Significance

"Location or Context: historic garden or park Attractive and well-formed specimen within a fine collection of conifers. Measurements: Spread (m): 20 Girth (m): 4 Height (m): 32 Estimated Age (yrs): 120 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>




	Spring/Summer	
		

Photo ID

Photograph by Jennifer Burrell
IMG_1038 - 1/12/2009

Sources:

http://www.nattrust.com.au/trust_register/
'Hortus Third' p872, Collins Eyewitness p63, Polunin p7 'Horticultural Flora of South-Eastern Australia Vol 1' p239, Lord 1967 p111

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D. 1017

Personalities, Trees or Structures

Trees

Name of Tree

Eucalyptus globulus Subsp. *globulus*

Botanical Name

Eucalyptus globulus fam *Myrtaceae* *Labilliere*
(Eu-Well Calypt - Covered (Latin) cap covering the stamens, Globulus - globular

Common Name

Tasmanian Blue Gum, Blue Gum

Distribution

Southern Australia

N.T. File No.

National Trust Victoria Branch File No. T 11312 Level Regional

Map Location

17

Brief Description

DESCRIPTION Medium large tree to 70m,
BARK Smooth, white, yellow, grey, with sock of unpeeled bark at base
LEAVES Juvenile opposite, stalkless, stem clasping, mealy
 Adult dark green sickle shaped, aromatic
FLOWERS June-Nov, White, large warty cap covered in waxy bloom
FRUIT Stalkless, broad, ridged, top shaped disc to 3cm
USES Fresh leaves for eucalyptus oil, dried leaves for medicinal use. Timber- tool handles, farm implements, boat building, wood pulp

Noted as the fastest growing tree of all and now planted worldwide. This tree is the remnant of the original 1860's windbreak planted on the western edge of the gardens. Canopy now cable braced.

National Trust - Statement of Significance

"Location or Context: historic garden or park; Outstanding Size Remnant of original windbreak planting. Measurements: Spread (m): 26 Girth (m): 7 Height (m): 33 Estimated Age (yrs): 120 Condition: Good"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Hollow



Spring/Summer



Photo ID

Photographs by Jennifer Burrell

[hollow.jpg](#), Ballarat Botanical Gardens Education Kit 2002, [IMG_1012globulus17](#) - 1/12/2009, [IMG_1010globulusNT17](#)

Sources:

http://www.nattrust.com.au/trust_register/

'Hortus Third' p452, Lord 'Trees and shrubs for Australian Gardens' p36, Wrigley and Fagg 'Australian Plants for Gardens' p417, 'Horticultural Flora of South-Eastern Australia Vol 3' p372

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1019	Personalities, Trees or Structures	Trees
Name of Tree	<i>Ulmus x hollandica</i> 'WREDEI'		
Botanical Name	<i>Ulmus x hollandica</i> 'WREDEI' fam <i>Ulmaceae</i> cv. MILL (<i>Ulmus</i> Latin for Elm, x <i>Hollandica</i> Holland 'WREDEI')		
Common Name	Dutch Elm		
Distribution	Holland		
N.T. File No.	National Trust Victoria Branch File No. T 11320 Level Regional		
Map Location	18		

Brief Description

DESCRIPTION Broad pyramid shaped tree, drooping, suckering from the trunk.

BARK Grey-brown, ridged

LEAVES Young smooth alternate crowded deeply-toothed asymmetrical yellowish crisped

FLOWERS Tiny red in clusters early spring

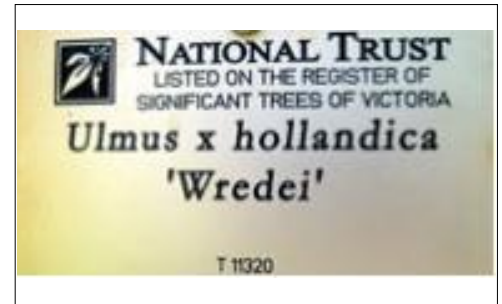
FRUITS Samara winged seed in spring before leaves

USES Ornamental, lawn specimen. Timber tough, heavy and impossible to split. Durable. Used in water, jetties. Inner bark mucilage used in homeopathy for ringworm. Subject to Dutch Elm disease - *Ceratostomell ulmi*

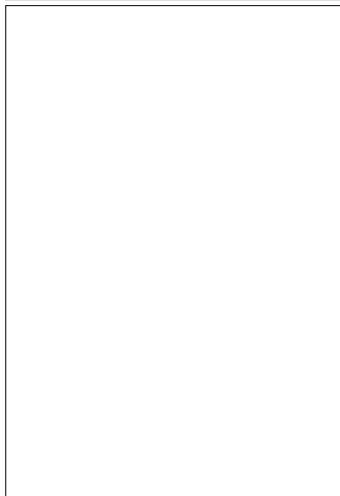
National Trust - Statement of Significance

"Horticultural Value; Location or Context: historic garden or park; Rare or Localised: 1 -10 known specimens Rare in cultivation in Victoria. Only other known examples occur in the Royal Botanic Gardens, Melbourne, and Central Park, Malvern. Measurements: Spread (m): 13.3 Girth (m): 3 Height (m): 17 Estimated Age (yrs): 60 Condition: Fair"

<http://vhd.heritage.vic.gov.au/vhd/nattrust>



Winged Seed



Spring/Summer



Autumn



Photo ID

Photographs by Jennifer Burrell I
MG_0991 Elm Wredei 18, autumn foliage- 27/4/2010 IMG_2152, - 7/5/2010

Sources:

http://www.nattrust.com.au/trust_register/
Hortus third p1137,1138 'Horticultural Flora of South-Eastern Australia Vol 2' p111, Collins Eye Witness p308, Polunin 'Trees of Britain and Europe' p196, p62

Friends of Ballarat Botanical Gardens History Group

Significant Trees - HERITAGE LISTED

I.D.	1018	Personalities, Trees or Structures	Trees
Name of Tree	<i>Eucalyptus globulus</i> Subsp. <i>globulus</i>		
Botanical Name	<i>Eucalyptus globulus</i> fam <i>Myrtaceae</i> <i>Labilliere</i> (Eu-Well Calypt - Covered (Latin) cap covering the stamens, Globulus - globular		
Common Name	Tasmanian Blue Gum, Blue Gum		
Distribution	Southern Australia		
N.T. File No.	National Trust Victoria Branch File No. T 11311 Level Regional		
Map Location			
Brief Description		National Trust - Statement of Significance	
<p>DESCRIPTION Medium large tree to 70m,</p> <p>BARK Smooth, white, yellow, grey, with sock of unpeeled bark at base</p> <p>LEAVES Juvenile opposite, stalkless, stem clasping, mealy Adult dark green sickle shaped, aromatic</p> <p>FLOWERS June-Nov, White, large warty cap covered in waxy bloom</p> <p>FRUIT Stalkless, broad, ridged, top shaped disc to 3cm</p> <p>USES Fresh leaves for eucalyptus oil, dried leaves for medicinal use. Timber- tool handles, farm implements, boat building, wood pulp</p> <p>Noted as the fastest growing tree of all and now planted worldwide. This tree is the remnant of the original 1860's windbreak planted on the western edge of the gardens. Canopy now cable braced.</p> <p>We are not sure of the location of this tree or even if it is still alive.</p>		<p>"Location or Context: historic garden or park; Outstanding Size Remnant of original windbreak planting. Measurements: Spread (m): 30 Girth (m): 5 Height (m): 30 Estimated Age (yrs): 120 Condition: Good"</p> <p>http://vhd.heritage.vic.gov.au/vhd/nattrust</p>	
Gumnut, bark	Spring/Summer		
Photo ID		Photographs by Jennifer Burrell	

Sources:

http://www.nattrust.com.au/trust_register/
 'Hortus Third' p452, Lord 'Trees and shrubs for Australian Gardens' p36, Wrigley and Fagg 'AustralianPlants for Gardens'p417, 'Horticultural Flora of South-Eastern Australia Vol 3' p372