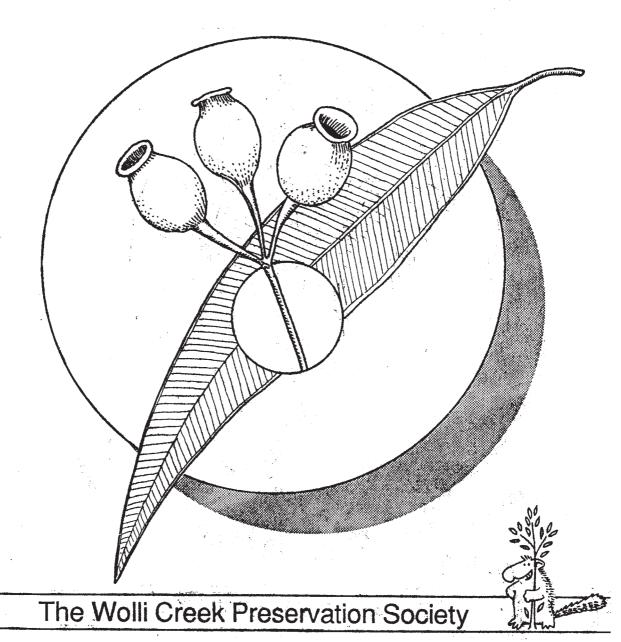
# Trees of Wolli Creek





Tall trees over 8 metres......page 4



Small tress 4-8 metres.....page 7

A facsimile of the original 1987 edition, with corrections.

Wolli Creek Preservation Society Inc. PO Box 270 Earlwood NSW 2206 February 2004



# Trees of Wolli Creek

# Once upon a time...

The original flora of Wolli Creek covered just about every type of general plant community in the Sydney region. Open heath and scribbly gum forest covered the ridge tops. The valley sides were clothed in a rich sclerophyll shrubland scattered with Sydney Red Gums. Nearer to the creek were dense woodlands of Blackbutt, Bangalay, Błoodwood, and Sydney Peppermint. Over the creek flats spread a dense jungle of Swamp Mahoganies, She-oaks, paperbarks and Cabbagetree palms. Beside the salty lower reaches of the creek arose dense stands of Mangrove trees and extensive reedlands and salt-marshes. Meanwhile around the upper freshwater parts of the creek clustered a temperate rainforest of Coachwood and Lilly Pilly.

This is an 1833 description of the forests of the estate of "Bexley" "It is scarcely necessary to state the numerous and valuable quantities of timber
which have been preserved on the Estate, viz., stringy and ironbark, black-butt,
mahogany, shingle-oak, turpentine, red, blue and white gum, honeysuckle for ship
and boat builders, and white wood of a large size, so much used by coach-builders
and others."

So numerous were the Cabbage Tree palms in the area that Wolli Creek was probably known as "Cabbage Tree Creek" at the time.

The industriousness of our ancesters has ensured that little of this richness remains today.

The forests of Wolli which sheltered the Bidjigal people for many thousands of years have now all but vanished. The haunt of bushrangers until the 1840's when the first bridge over Cooks' River speeded settlement and woodcutting in the area, their destruction was sealed following sub-division of the large estates in the 1860's.

Here is an advertisement from 1843 which shows the spirit of the times-

### "MONEY TO BE MADE

by Woodcutters, Farming Men and Persons about Cook's River, Newtown Road and the Neighbourhood. Let every man.....clear the Arncliff Timber into his pocket."

By the 1830's the mangroves which supplied oysters to the squires of Tempe House were already declining. They were incinerated to supply soda for the manufacture of soap. In 1828 there were "two or three Manufactories of Soap" at Botony Bay. As early as 1831 it was reported that "The soap boilers still suffer considerable restriction from the insufficient supply of mangrove ashes."

In 1850 a journalist could write of the area around Tempe - "...aye, and the oyster-growing mangroves temptingly inviting one to partake of their juicy dainties - where are they? Torn down by the ruthless hand of time, destroyed, and almost forgotten."

The native bush areas of Wolli Valley have been subject to almost every form of abuse: woodcutting, clearing, grazing, burning, rabbit infestation, quarrying, garbage dumping, chicken farms, wool-washing, market gardening.

Since the end of agriculture in the 1950's however the remaining bushland areas have regenerated remarkably. In recent years efforts by local councils, residents' groups and the National Trust have assisted this process. The proposed F5 Freeway unfortunately poses a final threat to this bushland. If the current proposed route goes ahead virtually the entire remaining native plant communities in the valley would be destroyed.

# What you can see today

### Girrahween Park

This is rich remnant of dense woodland with rocky heath on its upper parts. Upon entering Girrahween Park you pass several white barked *Eucalyptus pilularis* (Blackbutt) and planted *Eucalyptus robusta* (Swamp Mahogany). You then enter a dense woodland where the main trees are *Angophora costata* (Sydney Red Gum) and *Eucalyptus piperita* (Sydney Peppermint). Less common but still prominent are *Eucalyptus gummifera* (Red Bloodwood) and *Syncarpia glomulifera* (Turpentine). Beneath these tall trees is a rich flora of typical "dry sclerophyll forest" shrubs including Banksias, Geebungs, Hop Bushes and small heathy plants. Scattered amongst the shrubery are several species of paperbarks - remnants from earlier dense stands on the marshy creek flats.

### To Nannygoat Hill

After leaving Girrahween Park the path continues east through open heathland with scattered Angophora costata (Sydney Red Gum) and beneath a line of ferny cliffs with Port Jackson Fig (Ficus rubigosa) above. It then enters a dense damp canopy. This is a little "exotic rainforest" produced by nutrient-rich run-off and consisting entirely of introduced species, Pittosporum undulatum\* (Common Pittosporum) and Ligustrum lucidum\* (Large-leaved Privett).

The path to Nannygoat Hill then passes through a floristically rich heath shrubland until the Banks Road Reserve is reached. A detour leads up a steep rocky path to Nannygoat Hill where there are excellent views. This area has retained its species diversity because it surrounds the knoll of Nannygoat Hill and is its own watershed. This has protected it from exotic species invasion because there has been no run-off to increase nutrient levels in the soil. Nannygoat Hill is still known as "Prickly Pear Hill" by many residents, for obvious reasons.

### Below Highcliffe Road.

Crossing the Banks Road Reserve the path leads through a charming low heath with many species not seen in other parts of the valley. A small overgrown quarry nearby shows one of the earlier industries of the area.

To the East of Jackson Place the path goes through some private land and is occasionally difficult to follow. It starts by passing beneath a dense exotic rainforest and then into a heavily invaded dry sclerophyll forest and tall shrubland before emerging above the sewer aqueduct at Unwin Street, Undercliff.

Along the creek flats below the rocky banks are dense mangroves which are a surreal sight with their dense canopy, numerous projecting pneumatophores and masses of plastic containers half buried in the grey oozing mud.

# Trees of Wolli Creek

In alphabetical order by Family

Scientific name	Common name	2000 20	Dare in Welli Ve
Scientific name	Common name	page no.	Rare in Wolli Va
AVICENNIACEAE			
Avicennia marina	Grey Mangrove	15	
CASUARINACEAE	Groy Mangrove	10	
Casuarina glauca	Swamp She-Oak	7	
Casuarina littoralis	Black She-Oak	8	
CUNONIACEAE	Diack One-Cak	0	
Ceratopetalum apetalum	Coachwood	7	Rare
ELAEOCARPACEAE	Ocacimoca	,	Tiale
Elaeocarpus reticulatus	Blue-Berry Ash	12	
FABACEAE	Dide-Delly Asil	12	
Erythrina hybrid species*	Coral Tree	13	
LAURACEAE	Colai Hee	13	
	Compher Lours		
Cinnamonum camphora* MIMOSACEAE	Camphor Laurel	6	
	Parramatta Green Wattle		
Acacia parramattensis  MORACEAE	Parramatta Green wattle	8	
	Dort Indiana Fin	•	
Ficus rubigosa MYRTACEAE	Port Jackson Fig	9	
· ·	L96 - D96 -		_
Acmena smithii	Lilly Pilly	9	Rare
Angophora costata	Sydney Red Gum	6	_
Angophora floribunda	Rough-barked Angophora	6	Rare
Eucalyptus botryoides	Bangalay	4	
Eucalyptus gummifera	Red Bloodwood	4	
Eucalyptus piperita	Sydney Peppermint	5	
Eucalyptus pilularis ssp. pilularis	Blackbutt	5	_
Eucalyptus robusta	Swamp Mahogany	4	Rare
Melaleuca ericifolia	Swamp Paperbark	10	Rare
Melaleuca lineariifolia	Snow-in-Summer	11	
Melaleuca nodosa	Paperbark	-10	_
Melaleuca sieberi	Paperbark	10	Rare
Melaleuca styphelioides	Prickly-leaved Paperbark	10	
Syncarpia glomulifera	Turpentine	5	
Tristaniopsis collina	Water Gum	11	
Tristaniopsis laurina	Water Gum	11	Rare
OLEACEAE			
Ligustrum lucidum*	Large-leaved Privett	13	
PALMAE			
Livistonia australis	Cabbage Tree Palm	15	Extinct in valle
PITTOSPORACEAE			(Livistonia rediscovere
Pittosporum undulatum*	Common Pittosporum	13	
PROTEACEAE	•		
Banksia intregrifolia	Coastal Banksia	<sub>2</sub> .12	
Banksia serrata	Old Man Banksia	12	
SALICACEAE		24.23	
Populus alba*	White Poplar	14	
Salix alba*	White Willow	14	
Salix babylonica*	Weeping Willow	14	

species not native to Wolli Creek Valley (may be native to other parts of Australia)

**Abbreviations** 

Dsf - Dry sclerophyll forest

ssp. - sub-species

# Eucalyptus botryoides

Bangalay, Southern Mahogany

Medium sized tree with spreading crown.

One of the most important trees in coastal areas from east Victoria to north of Newcastle.

It prefers poor sandy soils and often appears just behind the sand-dunes.

Bark rough, deeply fissured, fibrous, reddish inside except the smaller upper branches which are smooth and pale.

Leaves thick and broad, widest towards the base, paler on undersurfaces.

Fruit small, cup-shaped, in tight clusters.

Flowers WHITE. Flowering time: late summer. In Wolli Valley: abundant; a dominant tree in forest areas, esp. Girrahween Park. Family Myrtaceae.

# Swamp Mahogany

Small to medium sized tree with open crown. One of the few Eucalypts that likes marshy ground, it is common near estuaries in marshy coastal areas, often with *Casuarina glauca*. The timber is very durable and is milled for fencing and wharf construction.

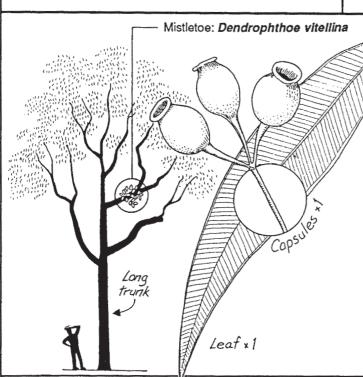
**Bark** similar to *E. botryoides* but it persists to the smallest branches.

Leaves similar to E. botryoides.

Eucalyptus robusta

Fruit large, elongated tubular capsules.

Flowers WHITE. Flowering time: autumn-winter. In Wolli Valley: rare. Once probably occurring in dense stands on the creek flats, it has suffered heavily from clearance so that few specimens remain, scattered through the valley in marshy ground or on creek banks. Several have also been planted near the entrance to Girrahween Park. Family Myrtaceae.



# Eucalyptus gummifera

Red bloodwood

Small to medium tree with tall straight trunk and open crown.

The flowers were known to be sucked by Aborigines for nectar. Common in near-coastal forests, especially on sandy soils, from the Victorian border to southern Queensland. A useful and extremely durable timber, sawn for many uses.

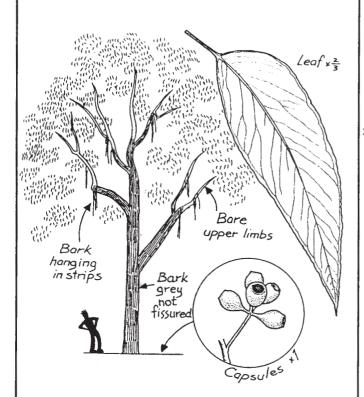
Bark brown, deeply fissured, fibrous; covering all branches.

**Leaves** similar to *E. botryoides*, but smaller and with closer veins.

Fruit large and urn shaped.

Flowers WHITE. Flowering time: autumn. In Wolli Valley: uncommon; found scattered in Dsf eg. Girrahween Park. Family Myrtaceae.





# Eucalyptus piperita

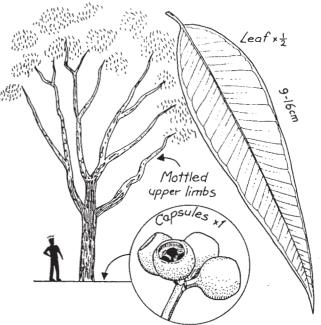
# Sydney Peppermint

Medium sized tree with open crown. Common on forested valley sides in the Sydney region.

Bark fine grey fibrous bark, not fissured except for upper branches where it is smooth and pale and falls in ribbons.

Leaves with distant veins and an intramarginal vein.

Fruit small and globular in dense clusters.
Flowers WHITE. Flowering time: early summer.
In Wolli Valley: fairly plentiful on the lower slopes on Girrahween Park. Family Myrtaceae.



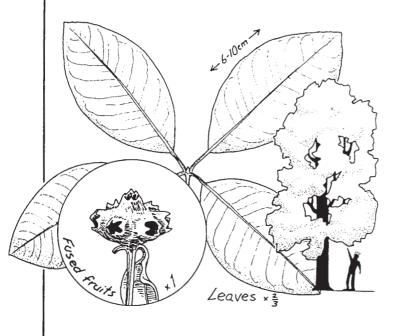
# Eucalyptus pilularis ssp. pilularis Blackbut

Medium to tall tree with open spreading crown.
A common tree in tall coastal forests of NSW and Sthn Queensland. One of the most important commercial hardwoods of Australia. Common name from the blackened trunk bark following fires.

Bark: trunk and lower branches - rough, grey, fibrous, flaky. Upper branches - smooth, pale, mottled.

Leaves thick, drooping, narrow.

Flowers WHITE. Flowering time: early summer. In Wolli Valley: rare; a few specimens along the upper margin and entrance of Girrahween Park. Family Myrtaceae.



# Syncarpia glomulifera Turpentine

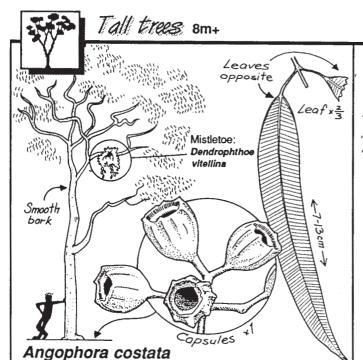
Tall tree, often to over 40m, with straight trunk and dense dull grey-green foliage.

Found in places transitional between tall eucalypt forests and rainforest. It is common in the Sydney Region and ranges from Batemans Bay to the Atherton Tableland in northern Queensland. As a timber it is very resistant to fire damage and very durable in saltwater. It is a pre-eminent Australian timber for structural purposes such as piles, poles, girders, beams and wharf decking.

Bark thick,dark, coarsly fibrous, deeply fissured. Leaves opposite or clustered (*whorled*), glossy grey-green above, thin, stiff, tough, with downturned edges and a layer of fine grey hairs beneath.

Flowers have prominent WHITE filaments and are clustered together in united heads.

Fruits form a distinctive fused woody cluster. In Wolli Valley: plentiful; scattered through all forest areas. Family Myrtaceae.



# Sydney Red Gum, Smooth barked apple

Expressively shaped medium sized tree with attractive bare trunk and sinuous limbs.

One of the loveliest of gums, it is common in the Sydney region as a dominant of open forests on poor sandstone soils but it is also found along much of the NSW coast and over an extensive area of southern Queensland. The timber is rarely milled as it is not very durable.

**Bark** smooth, mottled; orange after summer shedding, becoming pink in winter.

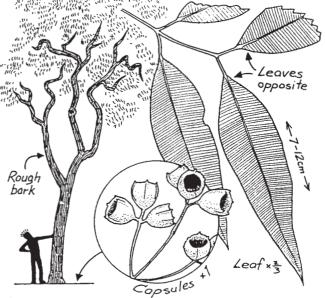
**Leaves** opposite, *Eucalytpus*-like with very close lateral veins.

Fruit a large ribbed capsule, hence the latin species name ("costa"=rib). Flowers cream.

Flowering time: spring and summer.

In Wolli Valley: abundant; in all Dsf areas, occasionally with the mistletoe *Dendrophthoe* 

vitellina. Family Myrtaceae.



### Angophora floribunda

# Rough-barked Angophora

Handsome medium sized tree with sinuously contorted upper branches.

Common in coastal forests in southern NSW and further inland in northern NSW and southern Queensland, mainly along watercourses. It has its best development in deep valleys of the mountains where its magnificently expressive limbs make it a memorable sight. The timber is rarely milled.

Bark brown, fibrous on all limbs.

Leaves opposite, *Eucalyptus*-like with very close lateral veins.

Fruit capsules ribbed but much smaller than A. costata.

Flowers WHITE. Flowering time: spring and summer.

In Wolli Valley: rare; a few specimens found between Girrahween Park and Nannygoat Hill. Family Myrtaceae.



# Cinnamonum camphora\*

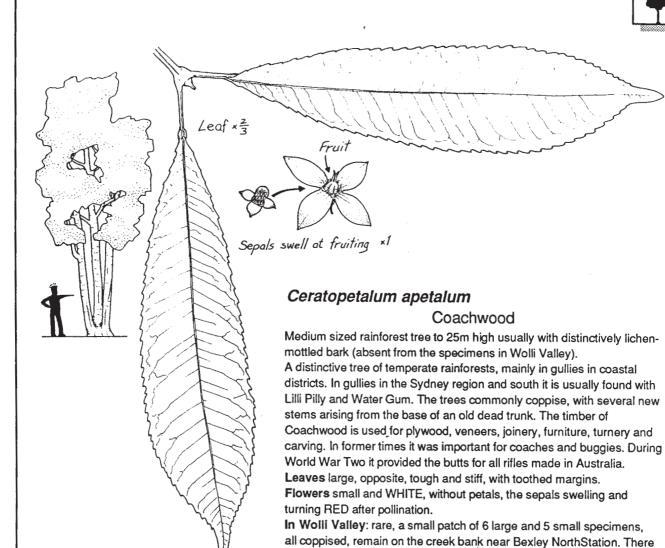
# Camphor Laurel

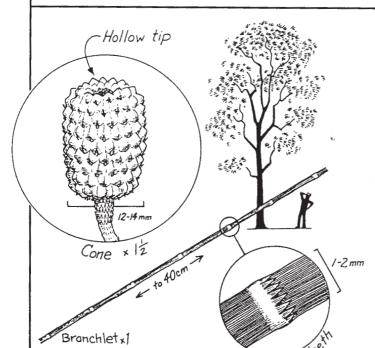
A large fragrant tree that is common in gardens and parks, and a serious pest in bush areas. Introduced from China and Japan.

Leaves to about 8cm long are glossy, thin and easily recognized by having three main veins extending from near the base. Leaves release a rich camphor odour when crushed.

In Wolli Valley: the tree is plentiful and established in many situations throughout the valley. Family Lauraceae.







### Casuarina glauca

was another patch near the old swimming pool but they were mistakenly destroyedduring council track clearing in about 1978. Without their usual

mottling, the stems are easily mistaken for Large-leafed Privett.

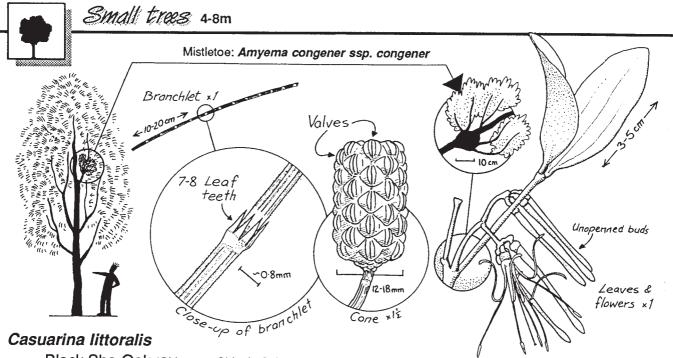
Grey She-Oak, Swamp She-Oak

Small to large tree to 20metres high, prefering marshy brackish sites. Usually a tall but scraggly-shaped tree. Distinguish from *C. littoralis* by shape of fruit. Flowers unisexual (*dioecious*). A common tree in brackish marshes and estuary banks north from Eden, usually growing in dense stands and often just inland from mangroves.

Branchlets have 12-16 miniature leaf-teeth per ioint.

In Wolli Valley: grows beside the creek on its lower salty parts, just inland from the mangrove zone. Family Casuarinaceae.

Family Cunoniaceae.



Black She-Oak (Old name: Shingle Oak)

Pine-like tree or shrub usually 3-6m tall. Heavily cut in the past as a shingle timber. A common understory tree in dry mountain and coastal forests in eastern Australia. The plants are *dioecious* (i.e. unisexual flowers occur on different plants). The male plants turn rusty brown when flowering due to the numerous tiny flowers concealed behind the leafteeth. Casuarinas are amoungst the few large plants with wind-borne pollen. The family is very distinctive and relations with other families are unclear. Casuarinas are mostly endemic to Australia with a few species being found on Pacific islands and SE Asia

**Branchlets** are jointed and ridged with a circlet of 6-8 tiny leaf-teeth at each joint.

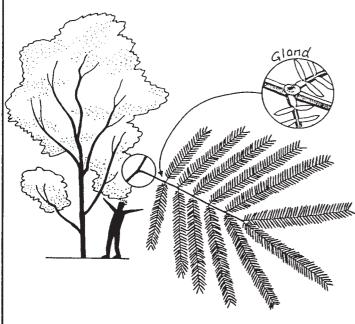
In Wolli Valley: plentiful and widely scattered in heathy and Dsf locations throughout the Valley. Family Casuarinaceae.

# Amyema congener ssp. congener Mistletoe

Parasitic shrub. The berries are edible when ripe, bearing a very sticky, gelatinous, sweet pulp around a single seed. The berries are popular with birds and the stickyness helps the seeds to adhere to the branches of trees when the birds are finished with them. A fairly common species, parasitic on non-Eucalyptus trees.

Leaves opposite, thick, fleshy, yellowish.
Flowers very attractive, with narrow recurved green petals and bright red anthers and style.
Flowering time: spring.

In Wolli Valley: plentiful; on Casuarina littoralis in Girraween Park and on Nannygoat Hill. Family Loranthaceae.



# Acacia parramattensis

### Parramatta Green Wattle

Tall shrub or small tree with soft feathery foliage. An occasional under-story tree in open-forests on dry shallow soils in coastal and mountain areas from Sydney to South of Nowra.

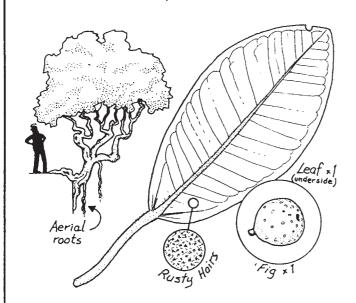
Leaves *bipinnate*, dark-green, with very fine blunt leaflets and glands at the base of each division with smaller ones sometimes in between.

Flower-heads globular, pale-yellow. Flowering time: summer.

In Wolli Valley: uncommon; found sparsely in Girrahwen Park.

Family Mimosaceae.





thick and tough, with visible oil dots.

Flowering time: summer.

Flowers small, cream, in dense inflorescenses.

Fruit a large crisp succulent pink or white berry which although somewhat sour is quite edible.

In Wolli Valley: rare; there are a few large old specimens in Girrahween Park. Family Myrtaceae.

# Ficus rubigosa Port Jackson Fig

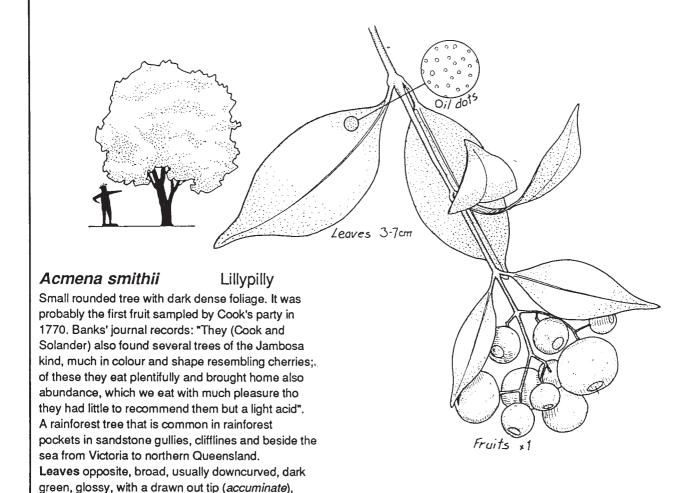
Small fig tree. Commonly found on the sides of gullies where it attaches itself to rock faces by a massive system of coalesced roots. Distinguish from other species of figs in the Sydney region by rusty leaf undersides and absence of buttresses on trunk. Leaves usually but not always with a furry layer of rusty coloured hairs on the lower surface [always found on young leaves], fairly thick and tough with a thick leaf-stem (petiole) 20-60mm long.

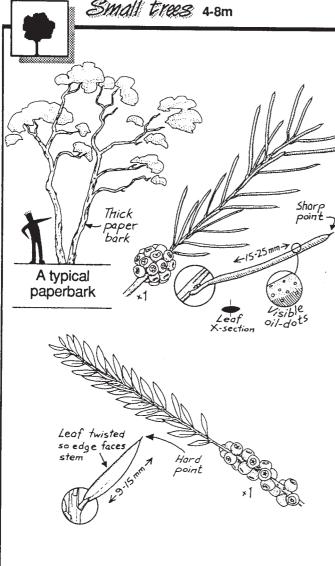
Flowers are 'invaginated' on the interior of the fig. The agent of fertilization is a species of tiny wasps which force their way through an entrance at the apex of the fig.

**Mature figs** are about 10mm diameter, yellow with warty markings.

In Wolli Valley: abundant; fairly common along sandstone cliffs and terraces.

Family Moraceae.







Erect shrub usually to 6m high with thick paper bark. Most common in heath and Dsf near the coast. The nectar-rich flowers of several species of Melaleuca were soaked in water by aboriginals to produce a sweet beverage.

Leaves narrow, stiff, pungent pointed, fairly crowded.

Flowers in globular clusters with CREAMY YELLOW filaments. Flowering time: October.

Fruit in dense spherical clusters.

In Wolli Valley: abundant; in shrublands and Dsf areas. Several large mature specimens may be seen near the picnic area in Girrawheen Park. Family Myrtaceae.

### Melaleuca sieberi Paperbark

Small tree to 5m with thick paper bark. Found in coastal districts usually on swampy ground. Leaves small, crowded with hard tips, spirally arranged on the stem. Each leaf is twisted so that its edge faces the stem.

Flowers CREAM, in short spikes. Flowering time: summer.

Fruit small capsules 3-4mm wide, with a pale sheeny surface.

In Wolli Valley: rare, a few specimens scattered in Girrahween Park. Family Myrtaceae.



### Swamp Paperbark

Small rounded tree with thick paper bark and dense foliage. A common tree in swampy ground near estuaries, streams and lagoons. Also common as a street and garden shrub.

Leaves tiny, narrow, recurved, fairly soft. Flowers in spikes with WHITE filaments. Flowering time: spring and early summer. In Wolli Valley: rare; a few specimens grow in the brackish marsh below Jackson Place. Family Myrtaceae.

# Melaleuca styphelioides

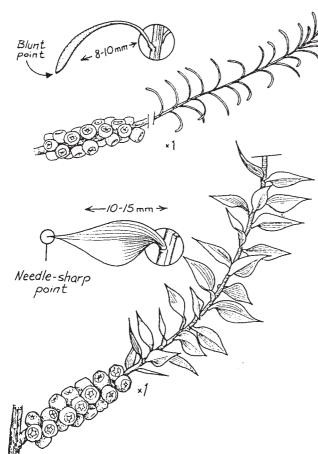
### Prickly-leaved Paperbark

Small tree with thick paper bark. Found in marshy ground in mountain gullies and in swamp forests at lower altitudes.

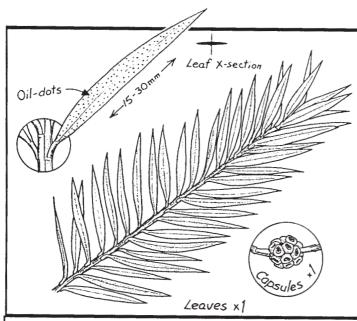
Leaves stiff, twisted, pungent pointed, crowded along the stems.

Flowers in dense spikes with WHITE filaments. Flowering time: mid-summer.

In Wolli Valley: uncommon; a few specimens grow in cleared land near the creek and in Girrahween Park? but it is not clear whether these have been planted or not. Family Myrtaceae.







### Melaleuca lineariifolia

# Snow-in-summer, Paperbark

Small tree to 8m high with thick paper bark.

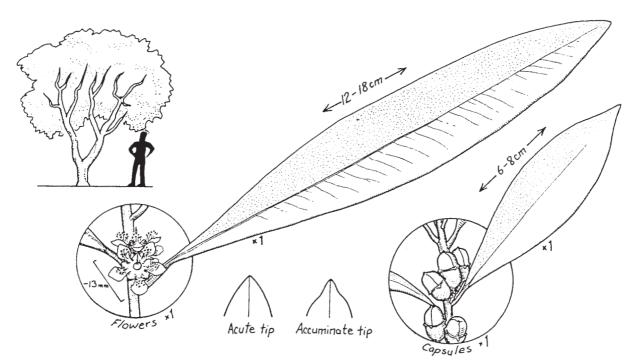
Common in marshy places in forests and gullies.

Leaves narrow, opposite, crowded, fairly soft and thin.

Flowers with YELLOWISH-WHITE stamens.

Capsules in small globular clusters.

In Wolli Valley: fairly plentiful but sparsely scattered; found in Girrahween Park, near Highcliffe Road and other places. Family Myrtaceae.



### Tristaniopsis laurina

### Water Gum, Kanooka

Small spreading tree usually 4-6m high with handsome foliage and distinctive pale bare sheeny bark. A common tree throughout eastern Australia. It is found beside rivers in mountain valleys and in sandstone gullies in coastal plateaus, where it commonly occurs with Lilly Pilly and Coachwood. Also a popular street tree.

Leaves to 14cm long, hairless, satin, never with a drawn out (accuminate) tip, pale beneath.

Flowers YELLOW, numerous, in leaf-joint inflorescences, with prominent staminal bundles (claws). Flowering time: Dec-Jan. Fruit a 3 valved non-woody capsule.

In Wolli Valley: rare, 5 mature specimens are scattered with *Ceratopetalum apetalum* (Coachwood) on the creek bank near Bexley North Station. Family Myrtaceae.

### Tristaniopsis collina

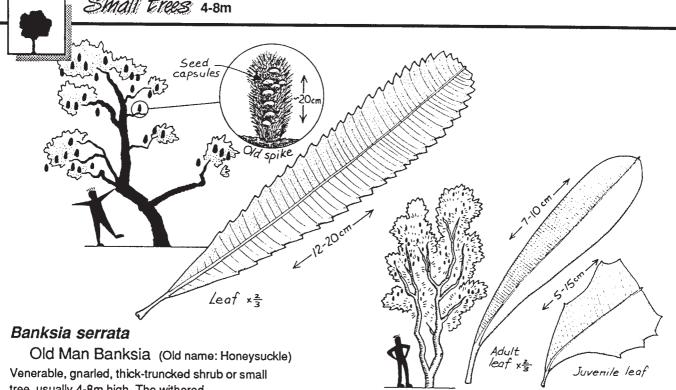
### Water Gum, Kanooka

Attractive tall shrub or small tree with pale sheeny bark. Usually found on sheltered valley slopes. Both species have a few old bright red leaves which are about to fall.

**Leaves** satin, dark green above, very pale beneath, hairless, with drawn out (*accuminate*) tips and obscure venation.

Flowers and fruit: as for T. laurina

In Wolli Valley; uncommon; isolated individuals or small stands in Girrahween Park, east of Jackson Place and near Unwin Street. Family Myrtaceae.



tree, usually 4-8m high. The withered inflourescences were immortalized as the evil "Banksia-men" by May Gibbs in her "Sugglepot and Cuddlepie" stories. The lumpy tubercles on the trunk are ligno-tubers, food storage mechanisms which also allow quick regeneration from burning. This species' resistance to severe fire accounts for its

even and abundant distribution throughout its habitat. It is common in heaths and forests on poor soils along the eastern seabord and is especially characteristic of the Sydney Region.

Leaves are large, stiff, leathery, evenly serrated, glossy and dark green above and dull and pale green below.

Flowers DOVE-GREY, in huge dense spikes 10-20cm high. Flowering time: summer (Dec-Mar). In Wolli Valley: plentiful; evenly spread through Dsf areas. Family Proteaceae.

# Banksia integrifolia

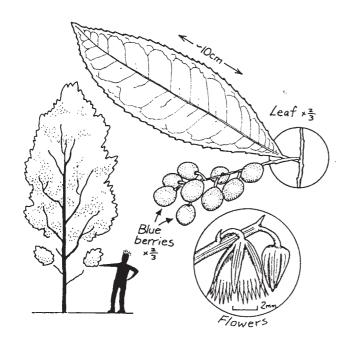
Coastal Banksia (Old name: Honeysuckle) Tall shrub or small tree 6-10m high. A common coastal tree often abundant in dune successions, on headlands and beside estuaries.

Leaves entire, stiff, leathery, erect (toothed only in juvenile stage), dark green, hairless above, white below due to a layer of fine white felty hairs which cause the tree to shimmer silver in the wind.

Flowers in a PALE YELLOW spike to 12cm long.

Flowering time: mainly winter.

In Wolli Valley: uncommon; a few specimens scattered on open slopes above the creek eg. below Nannygoat Hill. Family Proteaceae.



### Elaeocarpus reticulatus

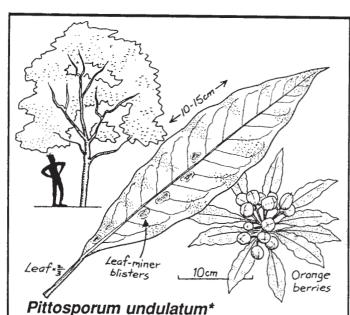
### Blue-Berry Ash

This is a small straight tree usually 4-8 metres tall. The genus name means "Olive-fruited" and the plant has drooping bunches of blue olive-like berries for much of the year. A common understory tree in dry forests on poor soils. Recognized by the presence of scattered bright red leaves (they turn red before falling with age).

Leaves are hard, thin, toothed and with prominent reticulation (small veins).

Flowers WHITE, drooping and with fringed petals, resembling little lampshades. Flowering time: summer.

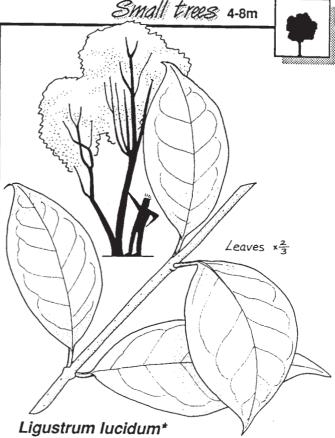
In Wolli Valley: plentiful; scattered in heathy shrublands and sclerophyll forests throughout the Valley. Family Elaeocarpaceae.



# Native Daphne, Mock Orange

Common shrub or small tree, usually to 3-10m high. Widely distributed along the eastern seaboard. The plant is very opportunistic, colonising disturbed areas enriched by run-off. Although a native plant it is usually found where it shouldn't be and grows to the detriment of the original understory. At least it competes with Privett. Seeds were ground as food by Aborigines in the Sydney area.

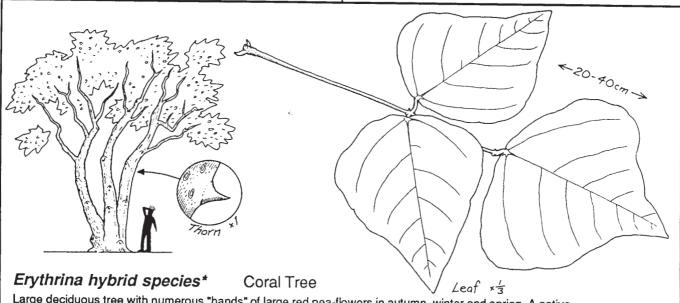
Leaves glossy above, thin, light to mid green, usually with undulate margins, recognized by lines of brown blisters along the leaf-surface [these are excavations of tiny Pittosporum Leaf Miner grubs]. Flowers WHITE, very sweet-fragrant, in large terminal inflorescences. Flowering time: Sept. In Wolli Valley: abundant; common and often dense in all areas. With Ligustrum lucidum\* it forms a canopy in the wet exotic forests and with Kunzea ambigua it forms a closed shrubland in drier parts of the valley. Family Pittosporaceae.



# Large-leaved Privett

Tall shrub to 6m high with smooth grey bark. It has a tenacious root system which makes it hard to eradicate. Introduced from China and Japan as a garden shrub, now a pest in native areas near habitation.

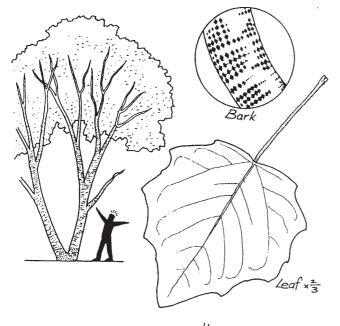
Leaves opposite, hairless, to 12cm long, moderately thick and tough, glossy, downcurving. Flowers WHITE and numerous. Fruit black-purple in large bunches. In Wolli Valley: abundant; but mostly resticted to wet exotic forest patches where it is a dominant species. Family Oleaceae (Olives).



Large deciduous tree with numerous "hands" of large red pea-flowers in autumn, winter and spring. A native of northern Australia and South-East Asia, but now found throughout SE Australia, both planted and wild. **Leaves** large, tri-foliate.

In Wolli Valley: several specimens grow in waste places and parks. Family Fabaceae (Peas).



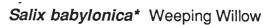


# Populus alba\* White poplar

Medium sized deciduous tree with silvery foliage. Introduced from North America as a park tree, now naturalised in many places. The tree loses its leaves in April.

Leaves shallowly lobed, dark-green above, white below due to to a dense layer of white felty hairs. Trunk white with a distinctive pattern of diamondshaped fissures.

In Wolli Valley: plentiful; growing often densely beside the creek in many places above the weir. Family Salicaceae.



Small deciduous tree with long drooping whip-like branches. Introduced from Asia, now a common sight throughout settled areas. Prefers marshy creekbanks.

**Leaves** narrow, finely toothed, thin and soft, drooping.

In Wolli Valley, abundant along the creek banks and fresh-water marshes above the weir. Family Salicaeae.

# Salix alba\*

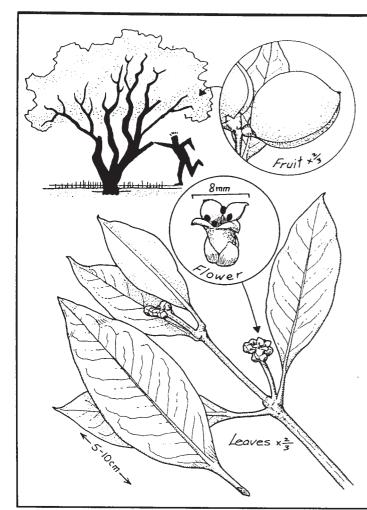
Leaf x=

# White Willow

Medium-sized tree with spreading branches. Introduced from Europe, now wild in many places near fresh water. Very similar to *S. babylonica* but lacking the weeping habit. Leaves are lost in May. Leaves similar to *S. babylonica*.

In Wolli Valley: abundant; on creek banks and in freshwater marshes. Family Salicaceae.





# Avicennia marina Grey Mangrove

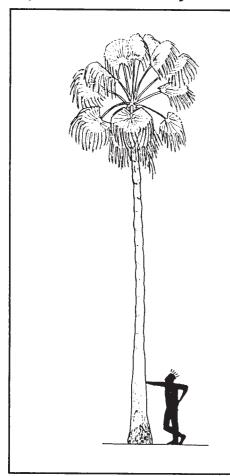
A small stout tree, usually about 4-6m high, the dominant mangrove plant in coastal NSW. The tree grows in dense single-species groves in the intertidal zone of estuaries. Its roots breathe by means of fibrous woody "pneumatophores" which arise from the mud around the tree. The seeds often sprout on the tree and fall to be carried by the tide to a new resting place (these are the large swollen green split objects often seen floating on the tide). The seeds formed an important part of the diet of Aborigines in northern Australia. The tree is a ready colonizer of mudbanks and its dense roots have a role in purifying estuarine waters. The plant has a wide range, growing from South Australia to the Northern Territory.

**Leaves** are opposite, thick, tough, hairless, shiny above.

**Flowers** are small and gold, producing a rich honey nectar.

In Wolli Creek: it forms dense groves on the lower parts of the Valley where it provides protection for numerous water birds and is the basis of a minature ecosystem of mud-dwelling worms, crabs, barnacles and smaller organisms. Family Avicenniaceae.

# Special honorary mention



### Livistonia australis

### Cabbage-tree Palm

Tall palm tree, unmistakeable were it not extinct in the valley. Originally very common in the thick "jungles" on the marshy lowlands of the valley the palm suffered from clearing until the last plant was removed probably in the 1920's. The palm was so common that in 1833 Wolli Creek was known as "Cabbage Tree Creek".

Notes: both Aborigines and early settlers consumed the bud at the top of the tree as a vegetable, unfortunately this practice leads to the death of the tree. The tough, shiny leaves were once used for hat-making, the result being the cabbage tree hats well known in the last century. The most southerly of palms, the Cabbage-tree Palm grows from Orbost in Victoria to Fraser Island in Queensland. Around Sydney it is found in damp gullies near the sea. It is resistant to all but very severe fires. Family Palmae.

(L. australis was rediscovered in Girrahween Park in 2002.)

