

Polyphagous shot-hole borer (PSHB) Australian Host List


Species are only added to this list if the identity of the beetle and/or its symbiotic fungus (*Fusarium* sp. [AF-18]) was confirmed by DNA sequencing.

Reproductive host trees

Host trees in which both the beetles and the fungus establish, and where the beetle successfully reproduces. Some reproductive hosts can be killed by PSHB.

Preferred hosts are host trees that have been recorded as reproductive on at least three properties and are typically associated with moderate to heavy infestation levels. Preferred hosts in Western Australia:

- *Acer negundo* - Box elder maple
- *Coprosma repens* - Mirror bush
- *Delonix regia* - Poinciana
- *Erythrina x sykesii* - Coral tree
- *Ficus macrophylla* - Moreton Bay fig
- *Ficus rubiginosa* - Port Jackson fig
- *Morus alba* - White mulberry
- *Morus nigra* - Black mulberry
- *Platanus x acerifolia* - London plane tree
- *Robinia pseudoacacia* - Robinia, mop top robinia, black locust

Scientific name	Common name
<i>Acer negundo</i>	Box elder maple
 Box elder maple (<i>Acer negundo</i>) are highly susceptible reproductive hosts that typically die within two years of PSHB attack. They amplify the PSHB population and increase the risk to surrounding trees.	
<i>Acacia longifolia</i> *	Golden wattle
<i>Acalypha wilkesiana</i>	Copperleaf
<i>Acer buergerianum</i>	Trident maple
<i>Albizia lebbbeck</i> **	Broome raintree, lebbbeck tree
<i>Archontophoenix cunninghamiana</i> *	Bangalow palm, King palm, Illawara palm
<i>Banksia littoralis</i> **	Swamp banksia
<i>Banksia prionotes</i> **	Acorn banksia
<i>Bauhinia variegata</i>	Orchid tree
<i>Bauhinia variegata</i> var. <i>candida</i>	Orchid tree
<i>Bossiaea linophylla</i> **	Narrow-Leaved Bossiaea
<i>Brachychiton acerifolius</i> *	Illawarra flame tree
<i>Brugmansia arborea</i>	Angel's trumpet

Scientific name	Common name
<i>Brugmansia suaveolens</i>	Angel's trumpet
<i>Buxus sempervirens</i>	Caucasian boxwood
<i>Callistemon viminalis</i> ** (syn. <i>Melaleuca viminalis</i>)	Creek bottlebrush
<i>Cassia fistula</i>	Golden shower tree
<i>Castanospermum australe</i> *	Moreton Bay chestnut
<i>Casuarina cunninghamiana</i> *	River sheoak
<i>Casuarina obesa</i> **	Swamp sheoak
<i>Ceratonia siliqua</i>	Carob tree
<i>Cestrum nocturnum</i>	Queen of the night, night jessamine
<i>Citrus x aurantium</i>	Bitter orange, Seville orange
<i>Citrus x latifolia</i>	Tahitian lime
<i>Coprosma repens</i>	Mirror bush
<i>Corymbia calophylla</i> **	Marri
<i>Corymbia ficifolia</i> **	Red flowering gum
<i>Delonix regia</i>	Poinciana
<i>Dombeya tiliacea</i> (syn. <i>Dombeya natalensis</i>)	Cape wedding flower
<i>Dovyalis caffra</i>	Kei apple
<i>Dracaena reflexa</i> var. <i>angustifolia</i>	Song of India
<i>Duranta erecta</i>	Golden dewdrops
<i>Erythrina caffra</i>	African coral tree
<i>Erythrina x sykesii</i>	Coral tree
<i>Eucalyptus cladocalyx</i> *	Sugar gum
<i>Eucalyptus globulus</i> *	Southern blue gum
<i>Eucalyptus diversicolor</i> **	Karri
<i>Eucalyptus robusta</i> *	Swamp mahogany
<i>Eucalyptus rudis</i> **	Flooded gum
<i>Eucalyptus leucoxylon</i> *	South Australian blue gum
<i>Ficus benjamina</i> *	Weeping fig
<i>Ficus carica</i>	Common fig
<i>Ficus elastica</i>	Rubber tree
<i>Ficus macrophylla</i> *	Moreton Bay fig
<i>Ficus microcarpa</i> *	Green Island fig
<i>Ficus rubiginosa</i> *	Port Jackson fig
<i>Ficus sycomorus</i>	Mulberry fig
<i>Fraxinus angustifolia</i>	Narrow-leaf ash
<i>Gleditsia triacanthos</i>	Honey locust
<i>Grevillea robusta</i> *	Silky oak
<i>Ligustrum japonicum</i>	Japanese privet
<i>Liquidambar styraciflua</i>	Sweet gum, liquidambar
<i>Harpephyllum caffrum</i>	Kaffir plum
<i>Heptapleurum actinophyllum</i> (syn. <i>Schefflera actinophylla</i>)*	Australian umbrella tree

Scientific name	Common name
<i>Heptapleurum arboricola</i> (syn. <i>Schefflera arboricola</i>)	Dwarf umbrella tree
<i>Hibiscus mutabilis</i>	Confederate rose
<i>Hibiscus rosa-sinensis</i>	Chinese hibiscus
<i>Inga edulis</i>	Ice-cream-bean
<i>Koelreuteria paniculata</i>	Golden rain tree
<i>Macadamia integrifolia</i> *	Macadamia nut
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Mangifera indica</i>	Mango
<i>Melaleuca quinquenervia</i> *	Paper bark
<i>Melaleuca raphiophylla</i> **	Swamp paperbark
<i>Melaleuca teretifolia</i> **	Banbar
<i>Morus alba</i>	White mulberry
<i>Morus alba</i> 'Pendula'	Weeping mulberry
<i>Morus nigra</i>	Black mulberry
<i>Persea americana</i>	Avocado
<i>Platanus x acerifolia</i>	London plane tree
<i>Platanus occidentalis</i>	American sycamore
<i>Plumeria rubra</i>	Common frangipani
<i>Plumeria</i> sp.1	Frangipani
<i>Populus deltoides</i>	Eastern cottonwood
<i>Populus nigra</i>	Black poplar
<i>Populus simonii</i>	Simon's poplar
<i>Prunus cerasifera</i>	Cherry plum
<i>Pyrus calleryana</i>	Callery pear
<i>Quercus petraea</i>	Durmast oak
<i>Quercus robur</i>	English oak
<i>Quercus suber</i>	Cork oak
<i>Rhaphiolepis loquata</i> (syn. <i>Eriobotrya japonica</i>)	Loquat
<i>Ricinocarpos pinifolius</i> *	Wedding bush
<i>Ricinocarpos tuberculatus</i> x <i>cyanescens</i> **	Ricinocarpos bridal star, wedding bush.
<i>Ricinus communis</i>	Castor oil
<i>Robinia pseudoacacia</i>	Robinia, mop top robinia, black locust
<i>Salix babylonica</i>	Weeping willow
<i>Salix matsudana</i>	Corkscrew willow
<i>Salix humboldtiana</i>	Humboldt's willow
<i>Sapindus saponaria</i> subsp. <i>drummondii</i>	Western soap berry
<i>Spyridium globulosum</i> **	Basket bush
<i>Syzygium smithii</i> *	Lilly pilly
<i>Talipariti tiliaceum</i> (syn. <i>Hibiscus tiliaceus</i> *)	Sea hibiscus, cottonwood
<i>Triadica sebifera</i> (syn. <i>Sapium sebiferum</i>)	Chinese tallow
<i>Ulmus glabra</i>	Wych elm, Scots elm

Scientific name	Common name
<i>Ulmus</i> sp. 1 cf. <i>glabra</i> or <i>minor</i>	Elm (Wych/Scots or Field)
<i>Wisteria floribunda</i>	Japanese wisteria
<i>Wisteria sinensis</i>	Chinese wisteria
<i>Wisteria</i> sp. 1	Wisteria
<i>Xylomelum occidentale</i> **	Western woody pear
<i>Zelkova serrata</i>	Zelkova, Japanese elm

* Australian native, ** Western Australian native

Non-reproductive host trees

Host trees that are attacked but the beetles do not establish breeding galleries. The fungus may or may not cause disease. Trees are generally not expected to die.

Scientific name	Common name
<i>Acacia retinodes</i> *	Silver wattle
<i>Acacia saligna</i> **	Orange wattle, golden wattle
<i>Acer palmatum</i>	Japanese maple
<i>Agonis flexuosa</i> **	Willow myrtle
<i>Albizia julibrissin</i>	Persian silk tree
<i>Aleurites moluccanus</i>	Candlenut
<i>Allocasuarina decussata</i> **	Karri she-oak
<i>Annona reticulata</i>	Bullocks heart
<i>Banksia grandis</i> **	Bull banksia
<i>Banksia integrifolia</i> *	Coast banksia
<i>Banksia menziesii</i> **	Menzie's banksia
<i>Bougainvillea</i> sp.	Bougainvillea
<i>Brachychiton populneus</i> *	Kurrajong, bottle tree
<i>Calodendrum capense</i>	Cape-chestnut
<i>Camellia japonica</i>	Common camellia
<i>Camellia oleifera</i>	Tea-oil camellia
<i>Carya illinoensis</i>	Pecan
<i>Casuarina equisetifolia</i> *	Coastal sheoak
<i>Celtis sinensis</i>	Chinese hackberry
<i>Cercis canadensis</i>	Eastern redbud
<i>Citharexylum spinosum</i>	Spiny fiddlewood
<i>Citrus x limon</i>	Lemon
<i>Citrus x meyeri</i>	Meyer / Eureka lemon
<i>Citrus paradisi</i>	Grapefruit
<i>Cordyline stricta</i> *	Narrow-leaf palm-lily
<i>Dombeya acutangula</i>	Bois bete
<i>Dracaena</i> sp.	Dracaena
<i>Elaeocarpus</i> sp.	Elaeocarpus
<i>Erythrina crista-galli</i>	Cockspur coral tree
<i>Erythrina lysistemon</i>	Common coral tree
<i>Erythrina variegata</i>	Indian coral tree
<i>Eucalyptus camaldulensis</i> **	Red river gum
<i>Eucalyptus gomphocephala</i> **	Tuart
<i>Eucalyptus polyanthemus</i> *	Redbox gum
<i>Euphorbia tirucalli</i>	African milkbush, naked lady, firesticks
<i>Fatsia japonica</i>	Japanese aralia
<i>Ficus benghalensis</i>	Indian banyan
<i>Ficus racemosa</i> *	Cluster fig

Scientific name	Common name
<i>Fraxinus angustifolia</i> subsp. <i>oxycarpa</i>	Claret ash
<i>Fraxinus griffithii</i>	Himalayan ash tree, evergreen ash
<i>Fraxinus</i> sp.	Ash tree
<i>Grevillea banksii</i> *	Red silky oak
<i>Grevillea olivacea</i> **	Olive grevillea
<i>Grewia occidentalis</i>	Crossberry
<i>Hakea multilineata</i> **	Grass-leaf hakea
<i>Hakea prostrata</i>	Harsh Hakea
<i>Harpullia pendula</i> *	Moreton Bay tulipwood
<i>Hibiscus martianus</i>	Heartleaf rose-mallow
<i>Howea forsteriana</i> *	Kentia palm
<i>Jacaranda mimosifolia</i>	Jacaranda
<i>Kigelia africana</i>	Sausage tree
<i>Lagunaria patersonia</i> *	Norfolk Island hibiscus
<i>Lambertia orbifolia</i> **	Roundleaf honeysuckle
<i>Lantana viburnum</i>	Wayfaring tree
<i>Ligustrum ovalifolium</i>	Privet
<i>Ligustrum sinense</i>	Chinese privet
<i>Ligustrum vulgare</i>	Common privet
<i>Magnolia figo</i>	Banana shrub
<i>Malus</i> sp. 1 'Crab apple'	Crab apple
<i>Morus rubra</i>	Red mulberry
<i>Olea europaea</i>	European olive
<i>Oncoba spinosa</i>	Snuff-box tree
<i>Pararchidendron pruinosum</i> *	Snow wood
<i>Paulownia tomentosa</i>	Empress tree
<i>Platanus orientalis</i>	Oriental plane
<i>Prunus armeniaca</i>	Apricot
<i>Prunus caroliniana</i>	Carolina cherry laurel
<i>Rosa</i> sp. 'Restless'	<i>Rosa</i> sp. 'Restless'
<i>Salix alba</i>	White willow
<i>Schotia brachypetala</i>	Drunken parrot tree
<i>Stenocarpus sinuatus</i> *	Firewheel tree
<i>Sterculia quadrifida</i> **	Orange-fruit kurrajong
<i>Strelitzia nicolai</i>	Bird of paradise tree, wild banana
<i>Styphnolobium japonicum</i>	Weeping saphora / sappora
<i>Syzygium cumini</i>	Java plum
<i>Tecoma capensis</i>	Cape honeysuckle
<i>Tecoma stans</i>	Yellow trumpet tree
<i>Templetonia retusa</i> **	Cockie's tongue
<i>Tetrapanax papyrifer</i>	Chinese rice-paper plant

Scientific name	Common name
<i>Tipuana tipu</i>	Tipa
<i>Toona ciliata</i>	Australian red cedar, toon tree
<i>Ulmus minor</i>	Field elm
<i>Ulmus pumila</i>	Siberian elm

* Australian native, ** Western Australian native

Updates register

New hosts / host reproductive statuses in Western Australia:

Scientific name	Host Status	
	Version 21.0, 31 May 2024	Version 22.0, 30 June 2024
<i>Acacia longifolia</i> *	Non-reproductive	Reproductive
<i>Allocasuarina decussata</i> **	-	Non-reproductive
<i>Eucalyptus camaldulensis</i> **	Reproductive	Non-reproductive
<i>Eucalyptus diversicolor</i> **	-	Reproductive
<i>Lantana viburnum</i>	-	Non-reproductive
<i>Plumeria rubra</i>	Non-reproductive	Reproductive
<i>Prunus caroliniana</i>	-	Non-reproductive

Host ID clarification in Western Australia:

Scientific name	Host Name	
	Version 21.0, 31 May 2024	Version 22.0, 30 June 2024
<i>Eucalyptus diversicolor</i> **	<i>Eucalyptus camaldulensis</i> **	<i>Eucalyptus diversicolor</i> **
<i>Eucalyptus leucoxylon</i>	<i>Eucalyptus</i> sp.1 cf. <i>leucoxylon</i>	<i>Eucalyptus leucoxylon</i>
<i>Lantana viburnum</i>	<i>Lantana camara</i>	<i>Lantana viburnum</i>
<i>Prunus caroliniana</i>	<i>Prunus cerasifera</i>	<i>Prunus caroliniana</i>
<i>Quercus suber</i>	<i>Quercus chrysolepis</i>	<i>Quercus suber</i>
<i>Ricinocarpos pinifolius</i> *	<i>Grevillea rosmarinifolia</i> *	<i>Ricinocarpos pinifolius</i> *
<i>Toona ciliata</i>	<i>Cedrela</i> sp.	<i>Toona ciliata</i>

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