

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
- *Delonix regia* - Poinciana
- *Erythrina x sykesii* - Coral tree
- *Ficus macrophylla* - Moreton Bay fig
- *Ficus rubiginosa* - Port Jackson fig
- *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>Acalypha wilkesiana</i>	Copperleaf
<i>Acer buergerianum</i>	Trident maple
<i>Albizia lebbbeck</i> **	Broome raintree, lebbbeck tree
<i>Bauhinia variegata</i> var. <i>candida</i>	Orchid tree
<i>Casuarina obesa</i> **	Swamp sheoak
<i>Ceratonia siliqua</i>	Carob tree
<i>Citrus x aurantium</i>	Bitter orange, Seville orange
<i>Citrus x latifolia</i>	Tahitian lime
<i>Corymbia ficifolia</i> **	Red flowering gum
<i>Delonix regia</i>	Poinciana
<i>Dovyalis caffra</i>	Kei apple
<i>Duranta erecta</i>	Golden dewdrops
<i>Erythrina caffra</i>	African coral tree
<i>Erythrina x sykesii</i>	Coral tree
<i>Ficus benjamina</i>	Weeping fig

Scientific name	Common name
<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>Gleditsia triacanthos</i>	Honey locust
<i>Mangifera indica</i>	Mango
<i>Melaleuca raphiophylla</i> **	Swamp paperbark
<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>Populus nigra</i>	Black poplar
<i>Populus</i> sp. 1 cf. <i>simonii</i>	Poplar (likely Simon's poplar)
<i>Pyrus calleryana</i>	Callery pear
<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>Ricinocarpus tuberculatus</i> x <i>cyanescens</i> **	Ricinocarpus 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</i> sp. 1 'Humboldt Willow'?	Willow (may be Humboldt willow?)
<i>Sapindus saponaria</i> subsp. <i>drummondii</i>	Western soap berry
<i>Schefflera actinophylla</i> *	Australian umbrella tree
<i>Syzygium smithii</i> *	Lilly pilly
<i>Talipariti tiliaceum</i> (syn. <i>Hibiscus tiliaceus</i>)*	Sea hibiscus, cottonwood
<i>Ulmus glabra</i>	Wych elm, Scots elm
<i>Ulmus</i> sp. 1 cf. <i>glabra</i> or <i>minor</i>	Elm (Wych/Scots or Field)
<i>Wisteria</i> sp. 1	Wisteria
<i>Wisteria</i> sp. 2 cf. <i>frutescens</i> or <i>sinensis</i>	Wisteria (American or Chinese)
<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 saligna</i> **	Orange wattle, golden wattle
<i>Aleurites moluccanus</i>	Candlenut
<i>Banksia littoralis</i> **	Swamp banksia
<i>Bougainvillea</i> sp.	Bougainvillea
<i>Brachychiton acerifolius</i> *	Illawarra flame tree
<i>Brachychiton populneus</i> *	Kurrajong, bottle tree
<i>Calodendrum capense</i>	Cape-chestnut
<i>Cassia fistula</i>	Golden shower tree
<i>Casuarina equisetifolia</i> *	Coastal she-oak
<i>Cedrela</i> sp.	Cedrela
<i>Citrus x lemon</i>	Lemon
<i>Citrus x meyeri</i>	Meyer / Eureka lemon
<i>Coprosma repens</i>	Mirror bush
<i>Dombeya tiliacea</i> (syn. <i>Dombeya natalensis</i>)	Cape wedding flower
<i>Dracaena</i> sp.	Dracaena
<i>Elaeocarpus</i> sp.	Elaeocarpus
<i>Eucalyptus camaldulensis</i> **	Red river gum
<i>Eucalyptus</i> sp. 1 cf. <i>rudis</i> ** or <i>decipiens</i> **	Flooded gum, redheart
<i>Euphorbia tirucalli</i>	African milkbush, naked lady, firesticks
<i>Fatsia japonica</i>	Japanese aralia
<i>Fraxinus angustifolia</i>	Narrow-leaf ash
<i>Fraxinus griffithii</i>	Himalayan ash tree, evergreen ash
<i>Fraxinus</i> sp.	Ash tree
<i>Grevillea banksii</i> *	Red silky oak
<i>Grewia occidentalis</i>	Crossberry
<i>Harpephyllum caffrum</i>	Kaffir plum
<i>Heptapleurum arboricola</i> (syn. <i>Schefflera arboricola</i>)	Dwarf umbrella tree
<i>Hibiscus martianus</i>	Heartleaf rose-mallow
<i>Hibiscus rosa-sinensis</i>	Chinese hibiscus
<i>Jacaranda mimosifolia</i>	Jacaranda
<i>Kigelia africana</i>	Sausage tree
<i>Koelreuteria paniculata</i>	Golden rain tree
<i>Lantana camara</i>	Lantana
<i>Ligustrum ovalifolium</i>	Privet
<i>Macadamia integrifolia</i> *	Macadamia nut
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Malus</i> sp. 1 'Crab apple'	Crab apple
<i>Oncoba spinosa</i>	Snuff-box tree

Scientific name	Common name
<i>Prunus cerasifera</i>	Cherry plum
<i>Salix alba</i>	White willow
<i>Schotia brachypetala</i>	Drunken parrot tree
<i>Strelitzia nicotia</i>	Bird of paradise tree, wild banana
<i>Styphnolobium japonicum</i>	Weeping saphora / sappora
<i>Syzygium cumini</i>	Java plum
<i>Tecoma stans</i>	Yellow trumpet tree
<i>Templetonia retusa</i> **	Cockie's tongue
<i>Tetrapanax papyrifer</i>	Chinese rice-paper plant
<i>Toona ciliata</i>	Australian red cedar, toon tree
<i>Triadica sebifera</i> (syn. <i>Sapium sebiferum</i>)	Chinese tallow
<i>Wisteria sinensis</i>	Chinese wisteria

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Updates register

New hosts / host reproductive statuses in Western Australia:

Scientific name	Host Status	
	Version 6 – 31 Jan. 2023	Version 7 – 28 Feb. 2023
<i>Banksia littoralis</i>	-	Non-reproductive
<i>Casuarina obesa</i>	-	Reproductive
<i>Eucalyptus camaldulensis</i>	-	Non-reproductive
<i>Ficus microcarpa</i>	-	Reproductive
<i>Fraxinus angustifolia</i>	-	Non-reproductive
<i>Heptapleurum arboricola</i>	-	Non-reproductive
<i>Salix alba</i>	-	Non-reproductive
<i>Wisteria</i> sp. 2 cf. <i>frutescens</i> or <i>sinensis</i>	-	Reproductive

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