

# Western Australian *Euwallacea fornicatus*, Polyphagous Shot-Hole Borer (PSHB) Host List

This document is intended as a **guide only**, indicating the potential for listed plant species to become infested with polyphagous shot-hole borer (PSHB). It has been derived from the most current data available from the Department of Primary Industries and Regional Development (DPIRD) PSHB Response in Western Australia from September 2021 to date.

Many plant species in WA remain of unknown PSHB susceptibility. DPIRD therefore advises regular referral to this host list, which is updated monthly.

## PSHB Susceptibility Rating:

DPIRD has developed a susceptibility index based on several factors, including reproductive capability of the tree species, accumulative detections, and infestation levels recorded. Host species are added to this list when PSHB or its fungal symbiont (*Fusarium* sp. [AF-18]) is detected and confirmed by molecular testing techniques.

**The higher the host species susceptibility rating the more prone it is to PSHB attack.**

Host type*	Susceptibility to PSHB attack	Details
Reproductive hosts	Extreme	<ul style="list-style-type: none"> <li><b>Extremely susceptible</b> to infestation.</li> <li>Can amplify PSHB populations, increasing the infestation risk to surrounding trees.</li> <li><b><i>Acer negundo</i> (box elder maple) typically die within 2 years of attack.</b></li> </ul>
	Very High	<ul style="list-style-type: none"> <li><b>Highly susceptible</b> to infestation.</li> <li>Can increase surrounding PSHB populations if left untreated for too long.</li> </ul>
	High	
	Moderate	<ul style="list-style-type: none"> <li><b>Moderately susceptible</b> to infestation.</li> </ul>
Non-reproductive hosts	Low	<ul style="list-style-type: none"> <li>Significantly <b>less prone</b> to PSHB attack.</li> <li>PSHB can attack but not successfully reproduce within these trees (non-reproductive).</li> <li>Trees are generally not expected to die due to infestation.</li> <li>Infestations are likely incidental due to proximity to a more susceptible infested host tree.</li> </ul>
	Negligible	<ul style="list-style-type: none"> <li><b>Few infestations</b> recorded.</li> <li>PSHB may attack but not successfully reproduce within these trees (non-reproductive).</li> <li>Trees are generally not expected to die due to infestation.</li> <li>Infestations are likely incidental due to proximity to a more susceptible infested host tree.</li> </ul>

Hosts are listed in alphabetical order by scientific name within each susceptibility rating.

## Reproductive host trees

**Reproductive** host tree species are those proven to support PSHB reproduction and allowing the growth of the associated *Fusarium* sp. [AF18] fungus, which serves as food source for the beetle offspring.

The most highly susceptible reproductive hosts are preferred by PSHB, and infestations have been confirmed multiple times, typically associated with moderate to heavy infestation.

DPIRD advises against planting host species listed as Moderate to Extremely Susceptible.

Host scientific name*	Host common name/s	Native status	Susceptibility
<b><i>Acer negundo</i></b>	<b>Box elder maple</b>	<b>Introduced</b>	<b>Extreme</b>
<b><i>Erythrina x sykesii</i></b>	<b>Coral tree</b>	<b>Introduced</b>	<b>Extreme</b>
<b><i>Robinia pseudoacacia</i></b>	<b>Robinia, mop top, black locust</b>	<b>Introduced</b>	<b>Extreme</b>
<i>Casuarina cunninghamiana</i>	River sheoak	Aus native	Very High
<i>Delonix regia</i>	Poinciana	Introduced	Very High
<i>Ficus carica</i>	Common fig	Introduced	Very High
<i>Ficus macrophylla</i>	Moreton Bay fig	Aus native	Very High
<i>Ficus rubiginosa</i>	Port Jackson fig	Aus native	Very High
<i>Hibiscus rosa-sinensis</i>	Chinese hibiscus	Introduced	Very High
<i>Melaleuca raphiophylla</i>	Swamp paperbark	WA native	Very High
<i>Morus alba</i>	White mulberry	Introduced	Very High
<i>Platanus x acerifolia</i>	London plane tree	Introduced	Very High
<i>Ricinocarpos pinifolius</i>	Wedding bush	Aus native	Very High
<i>Ricinus communis</i>	Castor oil	Introduced	Very High
<i>Talipariti tiliaceum</i> (syn. <i>Hibiscus tiliaceus</i> )	Sea hibiscus, cottonwood	WA native	Very High
<i>Albizia lebeck</i>	Broome raintree, Lebeck tree	WA native	High
<i>Banksia littoralis</i>	Swamp banksia	WA native	High
<i>Bauhinia variegata</i> var. <i>candida</i> (syn. <i>Bauhinia alba</i> )	Orchid tree	Introduced	High
<i>Brachychiton acerifolius</i>	Illawarra flame tree	Aus native	High
<i>Brugmansia suaveolens</i>	Angel's trumpet	Introduced	High
<i>Cassia fistula</i>	Golden shower tree	Introduced	High
<i>Castanospermum australe</i>	Moreton Bay chestnut	Aus native	High
<i>Coprosma repens</i>	Mirror bush	Introduced	High
<i>Corymbia calophylla</i>	Marri	WA native	High

Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Corymbia ficifolia</i>	Red flowering gum	WA native	High
<i>Ficus benjamina</i>	Weeping fig	Aus native	High
<i>Ficus microcarpa</i>	Green Island fig	Aus native	High
<i>Gleditsia triacanthos</i>	Honey locust	Introduced	High
<i>Liquidambar styraciflua</i>	Sweet gum, Liquidambar	Introduced	High
<i>Mangifera indica</i>	Mango	Introduced	High
<i>Morus nigra</i>	Black mulberry	Introduced	High
<i>Persea americana</i>	Avocado	Introduced	High
<i>Pyrus calleryana</i>	Callery pear	Introduced	High
<i>Quercus robur</i>	English oak	Introduced	High
<i>Quercus suber</i>	Cork oak	Introduced	High
<i>Salix humboldtiana</i>	Humboldt's willow	Introduced	High
<i>Triadica sebifera</i> (syn. <i>Sapium sebiferum</i> )	Chinese tallow	Introduced	High
<i>Wisteria sinensis</i>	Chinese Wisteria	Introduced	High
<i>Wisteria</i> sp. 1	Wisteria	Introduced	High
<i>Acacia longifolia</i>	Golden wattle	Aus native	Moderate
<i>Acalypha wilkesiana</i>	Copperleaf	Introduced	Moderate
<i>Acer buergerianum</i>	Trident maple	Introduced	Moderate
<i>Archontophoenix cunninghamiana</i>	Bangalow palm, King palm, Illawara palm	Aus native	Moderate
<i>Auranticarpa rhombifolia</i>	Diamond-leaf Pittosporum	Aus native	Moderate
<i>Banksia prionotes</i>	Acorn banksia	WA native	Moderate
<i>Bauhinia variegata</i>	Orchid tree	Introduced	Moderate
<i>Bossiaea linophylla</i>	Narrow-leaved Bossiaea	WA native	Moderate
<i>Buxus sempervirens</i>	Caucasian boxwood	Introduced	Moderate
<i>Casuarina obesa</i>	Swamp sheoak	WA native	Moderate
<i>Ceratonia siliqua</i>	Carob	Introduced	Moderate
<i>Cestrum nocturnum</i>	Queen of the night, night jessamine	Introduced	Moderate
<i>Citrus x aurantium</i>	Bitter orange, Seville orange	Introduced	Moderate
<i>Citrus x latifolia</i>	Tahitian lime	Introduced	Moderate
<i>Dombeya tiliacea</i> (syn. <i>Dombeya natalensis</i> )	Cape wedding flower	Introduced	Moderate

Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Dovyalis caffra</i>	Kei apple	Introduced	Moderate
<i>Dracaena reflexa</i> var. <i>angustifolia</i>	Song of India	Introduced	Moderate
<i>Duranta erecta</i>	Golden dewdrops	Introduced	Moderate
<i>Erythrina caffra</i>	African coral tree	Introduced	Moderate
<i>Eucalyptus cladocalyx</i>	Sugar gum	Aus native	Moderate
<i>Eucalyptus diversicolor</i>	Karri	WA native	Moderate
<i>Eucalyptus globulus</i>	Southern blue gum	Aus native	Moderate
<i>Eucalyptus leucoxylon</i>	South Australian blue gum, yellow gum	Aus native	Moderate
<i>Eucalyptus robusta</i>	Swamp mahogany	Aus native	Moderate
<i>Eucalyptus rudis</i>	Flooded gum	WA native	Moderate
<i>Ficus elastica</i>	Rubber tree, Rubber Fig	Introduced	Moderate
<i>Ficus sycomorus</i>	Mulberry fig	Introduced	Moderate
<i>Fraxinus angustifolia</i>	Narrow-leaf ash	Introduced	Moderate
<i>Grevillea robusta</i>	Silky oak	Aus native	Moderate
<i>Harpephyllum caffrum</i>	Kaffir plum	Introduced	Moderate
<i>Heptapleurum actinophyllum</i> (syn. <i>Schefflera actinophylla</i> )	Australian umbrella tree	Aus native	Moderate
<i>Heptapleurum arboricola</i> (syn. <i>Schefflera arboricola</i> )	Dwarf umbrella tree	Introduced	Moderate
<i>Hibiscus mutabilis</i>	Confederate rose	Introduced	Moderate
<i>Inga edulis</i>	Ice-cream bean	Introduced	Moderate
<i>Koelreuteria paniculata</i>	Golden rain tree	Introduced	Moderate
<i>Ligustrum japonicum</i>	Japanese privet	Introduced	Moderate
<i>Litchi chinensis</i>	Lychee	Introduced	Moderate
<i>Macadamia integrifolia</i>	Macadamia nut	Aus native	Moderate
<i>Magnolia grandiflora</i>	Southern Magnolia	Introduced	Moderate
<i>Melaleuca preissiana</i>	Stout paperbark	WA native	Moderate
<i>Melaleuca quinquenervia</i>	Paperbark	Aus native	Moderate
<i>Melaleuca teretifolia</i>	Banbar	WA native	Moderate
<i>Melaleuca viminalis</i> (syn. <i>Callistemon viminalis</i> )	Creek bottlebrush	Aus native	Moderate
<i>Morus alba</i> 'Pendula'	Weeping mulberry	Introduced	Moderate
<i>Platanus occidentalis</i>	American sycamore	Introduced	Moderate
<i>Plumeria rubra</i>	Common frangipani	Introduced	Moderate

Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Plumeria</i> sp. 1	Frangipani	Introduced	Moderate
<i>Populus deltoides</i>	Eastern cottonwood	Introduced	Moderate
<i>Populus nigra</i>	Black poplar	Introduced	Moderate
<i>Populus simonii</i>	Simon's poplar	Introduced	Moderate
<i>Prunus cerasifera</i>	Cherry plum	Introduced	Moderate
<i>Quercus petraea</i>	Durmast oak	Introduced	Moderate
<i>Rhaphiolepis loquata</i> (syn. <i>Eriobotrya japonica</i> )	Loquat	Introduced	Moderate
<i>Ricinocarpus tuberculatus</i> x <i>cyanescens</i>	Ricinocarpus bridal star, Wedding bush.	WA native	Moderate
<i>Salix babylonica</i>	Weeping willow	Introduced	Moderate
<i>Salix matsudana</i>	Corkscrew willow	Introduced	Moderate
<i>Sapindus saponaria</i> subsp. <i>drummondii</i>	Western soap berry	Introduced	Moderate
<i>Spyridium globulosum</i>	Basket bush	WA native	Moderate
<i>Syzygium smithii</i>	Lilly pilly	Aus native	Moderate
<i>Ulmus glabra</i>	Wych / Scots Elm	Introduced	Moderate
<i>Ulmus</i> sp. 1 cf. <i>glabra</i> or <i>minor</i>	Wych or Scots or field elm	Introduced	Moderate
<i>Wisteria floribunda</i>	Japanese Wisteria	Introduced	Moderate
<i>Xylomelum occidentale</i>	Western woody pear	WA native	Moderate
<i>Zelkova serrata</i>	Zelkova, Japanese elm	Introduced	Moderate

\*Some hosts could not be identified to species level; these are listed as 'sp' against their genera.

## Non-reproductive host trees

**Non-reproductive** host tree species can be attacked but do not support PSHB reproduction. The beetles can not establish breeding galleries, the fungus may or may not cause disease and trees are generally not expected to die.

Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Acacia saligna</i>	Orange or Golden wattle	WA native	Low
<i>Acer palmatum</i>	Japanese maple	Introduced	Low
<i>Acer pseudoplatanus</i>	Scottish maple	Introduced	Low
<i>Acer saccharinum</i>	Silver maple	Introduced	Low
<i>Albizia julibrissin</i>	Persian silk tree	Introduced	Low
<i>Arbutus unedo</i>	Strawberry tree	Introduced	Low
<i>Betula pendula</i>	Silver birch	Introduced	Low
<i>Bougainvillea</i> sp.	Bougainvillea	Introduced	Low
<i>Brachychiton populneus</i>	Kurrajong, bottle tree	Aus native	Low
<i>Camellia japonica</i>	Common camellia	Introduced	Low
<i>Camellia oleifera</i>	Tea-oil camellia	Introduced	Low
<i>Casuarina equisetifolia</i>	Coastal sheoak	Aus native	Low
<i>Cercis canadensis</i>	Eastern redbud	Introduced	Low
<i>Cinnamomum camphora</i>	Camphor tree, camphor laurel	Introduced	Low
<i>Citrus paradisi</i>	Grapefruit	Introduced	Low
<i>Citrus x limon</i>	Lemon	Introduced	Low
<i>Dombeya acutangula</i>	Bois Bete	Introduced	Low
<i>Dracaena</i> sp.	Dracaena	Introduced	Low
<i>Erythrina crista-galli</i>	Cockspur coral tree	Introduced	Low
<i>Erythrina variegata</i>	Indian coral tree	Aus native	Low
<i>Eucalyptus camaldulensis</i>	River red gum	WA native	Low
<i>Eucalyptus polyanthemos</i>	Redbox gum, red box.	Aus native	Low
<i>Fraxinus angustifolia</i> subsp. <i>oxycarpa</i>	Claret ash	Introduced	Low
<i>Fraxinus griffithii</i>	Himalayan ash, Evergreen ash, Griffith's ash	Introduced	Low
<i>Fraxinus</i> sp.	Ash	Introduced	Low
<i>Grewia occidentalis</i>	Crossberry	Introduced	Low
<i>Harpullia pendula</i>	Moreton Bay tulipwood	Aus native	Low
<i>Homalanthus populifolius</i>	Bleeding heart tree	Aus native	Low



Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Howea forsteriana</i>	Kentia palm	Aus native	Low
<i>Hymenoporum flavum</i>	Native frangipani	Aus native	Low
<i>Jacaranda mimosifolia</i>	Jacaranda	Introduced	Low
<i>Kigelia africana</i>	Sausage tree	Introduced	Low
<i>Ligustrum sinense</i>	Chinese privet	Introduced	Low
<i>Magnolia figo</i>	Banana shrub	Introduced	Low
<i>Olea europaea</i>	European olive	Introduced	Low
<i>Pipturus argenteus</i>	Native mulberry	Aus native	Low
<i>Platanus orientalis</i>	Oriental plane	Introduced	Low
<i>Salix alba</i>	White willow	Introduced	Low
<i>Schinus terebinthifolia</i>	Brazilian pepper-tree	Introduced	Low
<i>Strelitzia nicolai</i>	Bird of paradise tree, wild banana, giant white bird of paradise	Introduced	Low
<i>Styphnolobium japonicum</i>	Weeping saphora, sappora	Introduced	Low
<i>Tecoma capensis</i>	Cape honeysuckle	Introduced	Low
<i>Toona ciliata</i>	Australian red cedar, toon	Introduced	Low
<i>Ulmus minor</i>	Field elm	Introduced	Low
<i>Ulmus pumila</i>	Siberian em	Introduced	Low
<i>Viburnum odoratissimum</i>	Sweet Viburnum	Introduced	Low
<i>Vitex trifolia</i>	Simple-leaf chaste tree	Aus native	Low
<i>Acacia retinodes</i>	Silver wattle	Aus native	Negligible
<i>Adenanthos sericeus</i>	Albany woollybush	WA native	Negligible
<i>Agonis flexuosa</i>	Willow myrtle	WA native	Negligible
<i>Aleurites moluccanus</i>	Candlenut	Aus native	Negligible
<i>Allocasuarina decussata</i>	Karri sheoak	WA native	Negligible
<i>Allocasuarina humilis</i>	Dwarf sheoak	WA native	Negligible
<i>Alnus jorullensis</i>	Mexican alder	Introduced	Negligible
<i>Annona reticulata</i>	Bullocks heart	Introduced	Negligible
<i>Banksia grandis</i>	Bull banksia	WA native	Negligible
<i>Banksia integrifolia</i>	Coast banksia	Aus native	Negligible
<i>Banksia menziesii</i>	Menzie's banksia	WA native	Negligible
<i>Calodendrum capense</i>	Cape-chestnut	Introduced	Negligible
<i>Carya illinoensis</i>	Pecan	Introduced	Negligible

Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Celtis sinensis</i>	Chinese hackberry	Introduced	Negligible
<i>Citharexylum spinosum</i>	Spiny fiddlewood	Introduced	Negligible
<i>Citrus x meyeri</i>	Meyer / Eureka lemon	Introduced	Negligible
<i>Cordyline australis</i>	Cabbage tree	Introduced	Negligible
<i>Cordyline stricta</i>	Narrow-leaf palm-lily	Aus native	Negligible
<i>Elaeocarpus</i> sp.		Likely Aus native	Negligible
<i>Erythrina lysistemon</i>	Common coral tree	Introduced	Negligible
<i>Eucalyptus gomphocephala</i>	Tuart	WA native	Negligible
<i>Euphorbia tirucalli</i>	African milkbush, naked lady, firesticks	Introduced	Negligible
<i>Fatsia japonica</i>	Japanese Aralia	Introduced	Negligible
<i>Ficus benghalensis</i>	Indian banyan	Introduced	Negligible
<i>Ficus coronata</i>	Sandpaper fig	Aus native	Negligible
<i>Ficus racemosa</i>	Cluster fig	WA native	Negligible
<i>Grevillea banksii</i>	Red silky oak	Aus native	Negligible
<i>Grevillea olivacea</i>	Olive Grevillea	WA native	Negligible
<i>Hakea multineata</i>	Grass-leaf Hakea	WA native	Negligible
<i>Hakea prostrata</i>	Harsh Hakea	WA native	Negligible
<i>Hibiscus martianus</i>	Heartleaf rose-mallow	Introduced	Negligible
<i>Lagunaria patersonia</i>	Norfolk Island hibiscus	Aus native	Negligible
<i>Lambertia orbifolia</i>	Roundleaf honeysuckle	WA native	Negligible
<i>Lantana</i> sp.	Lantana	Introduced	Negligible
<i>Ligustrum ovalifolium</i>	Privet	Introduced	Negligible
<i>Ligustrum vulgare</i>	Common privet	Introduced	Negligible
<i>Malus</i> sp. 1	Crab apple	Introduced	Negligible
<i>Morus rubra</i>	Red mulberry	Introduced	Negligible
<i>Murraya paniculata</i>	Orange jasmine	Aus native	Negligible
<i>Oncoba spinosa</i>	Snuff-box tree	Introduced	Negligible
<i>Pararchidendron pruinosum</i>	Snow wood	Aus native	Negligible
<i>Paulownia tomentosa</i>	Empress tree	Introduced	Negligible
<i>Pittosporum ligustrifolium</i>	Pittosporum	WA native	Negligible
<i>Prunus armeniaca</i>	Apricot	Introduced	Negligible
<i>Prunus caroliniana</i>	Carolina cherry laurel	Introduced	Negligible
<i>Rosa</i> sp. 'Restless'	<i>Rosa</i> sp. 'Restless'	Introduced	Negligible



Host scientific name*	Host common name/s	Native status	Susceptibility
<i>Rosa x polliniana</i>	Rose	Introduced	Negligible
<i>Schotia brachypetala</i>	Drunken parrot tree	Introduced	Negligible
<i>Stenocarpus sinuatus</i>	Firewheel tree, wheel of fire	Aus native	Negligible
<i>Sterculia quadrifida</i>	Orange-fruit kurrajong	WA native	Negligible
<i>Syzygium cumini</i>	Java plum	Aus native	Negligible
<i>Tecoma stans</i>	Yellow trumpet tree	Introduced	Negligible
<i>Templetonia retusa</i>	Cockie's tongue	WA native	Negligible
<i>Tetrapanax papyrifer</i>	Chinese rice-paper plant	Introduced	Negligible
<i>Tipuana tipu</i>	Tipa, Tipu	Introduced	Negligible

\*Some hosts could not be identified to species level; these are listed as 'sp' against their genera.

### Important Disclaimer

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