

## Polyphagous Shot Hole Borer South African host list

Species are only added to this list if the identity of the beetle and/or its symbiotic fungus was confirmed by DNA sequencing

### HIGHLY SUSCEPTIBLE REPRODUCTIVE HOSTS

Hosts in which both the beetles and the fungus establish, and where the beetle successfully reproduces. Typically die within a few years of PSHB attack. These species amplify the PSHB population and increase the risk to surrounding trees.

Scientific name	Common name	Family	Status	AIS
<i>Acer negundo</i>	Boxelder	Sapindaceae	Invasive	3/-
<i>Populus nigra</i>	Lombardy poplar	Salicaceae	Alien	
<i>Populus simonii</i>	Chinese cottonwood	Salicaceae	Alien	
<i>Quercus robur</i>	English oak	Fagaceae	Alien	
<i>Ricinus communis</i>	Castor-oil plant	Euphorbiaceae	Invasive	2
<i>Salix babylonica</i>	Weeping willow	Salicaceae	Alien	

### REPRODUCTIVE HOSTS

Hosts in which both the beetles and the fungus establish, and where the beetle successfully reproduces. Some reproductive hosts may be killed.

Scientific name	Common name	Family	Status	AIS
<i>Acacia longifolia</i>	Long-leaved wattle	Fabaceae	Invasive	1b
<i>Acacia mearnsii</i>	Black wattle	Fabaceae	Invasive	2
<i>Acacia melanoxylon</i>	Blackwood	Fabaceae	Invasive	2
<i>Acalypha glabrata</i>	Forest false nettle	Euphorbiaceae	Indigenous	
<i>Acer buergerianum</i>	Trident (Chinese) maple	Sapindaceae	Invasive	3/-
<i>Acer palmatum</i>	Japanese maple	Sapindaceae	Alien	
<i>Acer pseudoplatanus</i>	Sycamore maple	Sapindaceae	Alien	
<i>Acer saccharinum</i>	Silver maple	Sapindaceae	Alien	
<i>Afrocarpus falcatus</i>	Outeniqua yellowwood	Podocarpaceae	Indigenous	
<i>Azelia quanzensis</i>	Pod mahogany	Fabaceae	Indigenous	
<i>Allophylus natalensis</i>	Dune false crowberry	Sapindaceae	Indigenous	
<i>Anisodonteia scabrosa</i>	Rough-leaf African mallow	Malvaceae	Indigenous	
<i>Apodytes dimidiata</i>	White pear	Metteniusaceae	Indigenous	
<i>Baphia racemosa</i>	Violet pea	Fabaceae	Indigenous	
<i>Bauhinia galpinii</i>	Pride of de Kaap	Fabaceae	Indigenous	
<i>Bauhinia variegata</i>	Orchid tree	Fabaceae	Invasive	1b/3
<i>Brachychiton discolor</i>	Pink flame tree	Malvaceae	Alien	
<i>Brachylaena discolor</i>	Coast silver oak	Malvaceae	Indigenous	
<i>Calodendrum capense</i>	Cape chestnut	Rutaceae	Indigenous	
<i>Calpurnia aurea</i>	Wild laburnum	Fabaceae	Indigenous	
<i>Carya illinoensis</i>	Pecan nut	Juglandaceae	Alien	
<i>Cassia fistula</i>	Golden shower tree	Fabaceae	Alien	
<i>Casuarina cunninghamiana</i>	Beefwood	Casuarinaceae	Invasive	1b/2
<i>Croton sylvaticus</i>	Forest fever-berry	Euphorbiaceae	Indigenous	
<i>Combretum erythrophyllum*</i>	River bushwillow	Combretaceae	Indigenous	
<i>Combretum kraussii</i>	Forest bushwillow	Combretaceae	Indigenous	
<i>Cussonia spicata</i>	Cabbage tree/kiepersol	Araliaceae	Indigenous	
<i>Dichrostachys cinerea</i>	Sickle bush	Fabaceae	Indigenous	Bush
<i>Diospyros dichrophylla</i>	Star apple	Ebenaceae	Indigenous	

Scientific name	Common name	Family	Status	AIS
<i>Diospyros glabra</i>	Cape star-apple	Ebenaceae	Indigenous	
<i>Diospyros kaki</i>	Persimmon	Ebenaceae	Alien	
<i>Diospyros whyteana</i>	Bladdernut	Ebenaceae	Indigenous	
<i>Dovyalis caffra</i>	Kei apple	Salicaceae	Indigenous	
<i>Dovyalis longispina</i>	Coastal kei-apple	Salicaceae	Indigenous	
<i>Erythrina caffra</i>	Coast coral tree	Fabaceae	Indigenous	
<i>Erythrina lysistemon</i>	Common coral tree	Fabaceae	Indigenous	
<i>Ficus macrophylla</i>	Moreton Bay fig	Moraceae	Alien	
<i>Ficus natalensis</i>	Natal fig	Moraceae	Indigenous	
<i>Ficus trichopoda</i>	Swamp fig	Moraceae	Indigenous	
<i>Gleditsia triacanthos</i>	Honey locust	Fabaceae	Invasive	1b
<i>Grewia occidentalis</i>	Cross berry	Malvaceae	Indigenous	
<i>Halleria lucida</i>	Tree fuchsia	Stilbaceae	Indigenous	
<i>Harpephyllum caffrum</i>	Wild plum	Anacardiaceae	Indigenous	
<i>Indigofera jucunda</i>	River indigo	Fabaceae	Indigenous	
<i>Kiggelaria africana</i>	Wild peach	Achariaceae	Indigenous	
<i>Koelreuteria paniculata</i>	Golden raintree	Sapindaceae	Alien	
<i>Liriodendron tipulifra</i>	Tulip tree	Magnoliaceae	Alien	
<i>Liquidambar styraciflua</i>	Liquidambar/sweetgum	Altingiaceae	Alien	
<i>Loxostylis alata</i>	Wild pepper tree	Anacardiaceae	Indigenous	
<i>Macadamia sp.</i>	Macadamia nut	Proteaceae	Alien	
<i>Maesa lanceolata</i>	False assegai	Primulaceae	Indigenous	
<i>Macaranga capensis</i>	River macaranga	Euphorbiaceae		
<i>Magnolia grandiflora</i>	Southern magnolia	Magnoliaceae	Alien	
<i>Malus domestica</i>	Apple	Rosaceae	Alien	
<i>Olea europaea subsp. africana</i>	Wild olive	Oleaceae	Indigenous	
<i>Persea americana</i>	Avocado	Lauraceae	Alien	
<i>Photinia x fraseri</i>	Christmas berry	Rosaceae	Alien	
<i>Platanus x acerifolia</i>	London plane	Platanaceae	Alien	
<i>Podalyria calyptрата</i>	Water blossom pea	Fabaceae	Indigenous	
<i>Populus alba</i>	White poplar	Salicaceae	Invasive	2
<i>Populus x canescens</i>	Grey poplar	Salicaceae	Invasive	2
<i>Prunus armeniaca</i>	Apricot	Rosaceae	Alien	
<i>Prunus cerasifera</i>	Cherry plum	Rosaceae	Alien	
<i>Prunus dulcis</i>	Almond	Rosaceae	Alien	
<i>Prunus nigra</i>	Black plum	Rosaceae	Alien	
<i>Psoralea affinis</i>	Tall fountain bush	Fabaceae	Indigenous	
<i>Psoralea aphylla</i>	Leafless fountain bush	Fabaceae	Indigenous	
<i>Psoralea pinata</i>	Fountain bush	Fabaceae	Indigenous	
<i>Pyrus communis</i>	Pear	Rosaceae	Alien	
<i>Quercus nigra</i>	Water oak	Fagaceae	Alien	
<i>Quercus palustris</i>	Pin oak	Fagaceae	Alien	
<i>Quercus suber</i>	Cork oak	Fagaceae	Alien	
<i>Rhamnus prinoides</i>	Shiny-leaf buckthorn	Rhamnaceae	Indigenous	
<i>Robinia pseudoacacia</i>	Black locust	Fabaceae	Invasive	1b
<i>Rosa setigera</i>	Climbing rose	Rosaceae	Alien	
<i>Salix alba</i>	White willow	Salicaceae	Alien	
<i>Sclerocarya birrea</i>	Marula	Anacardiaceae	Indigenous	
<i>Salix mucronate</i>	Cape willow	Salicaceae	Indigenous	
<i>Senna multijuga</i>	November shower	Fabaceae	Alien	

Scientific name	Common name	Family	Status	AIS
<i>Sparrmannia africana</i>	African hemp	Malvaceae	Indigenous	
<i>Sterculia murex</i>	Lowveld chestnut	Malvaceae	Indigenous	
<i>Tilia x europaea</i>	European linden	Malvaceae	Alien	
<i>Trema orientalis</i>	Pigeon wood	Cannabaceae	Indigenous	
<i>Trichilia emetica</i>	Natal mahogany	Meliaceae	Indigenous	
<i>Ulmus parvifolia</i>	Chinese elm	Ulmaceae	Alien	
<i>Vepris lanceolata</i>	White ironwood	Rutaceae	Indigenous	
<i>Viburnum odoratissimum</i>	Sweet viburnum	Adoxaceae	Alien	
<i>Virgilia divaricata</i>	Keurboom	Fabaceae	Indigenous	
<i>Virgilia oroboides subsp ferruginea</i>	Keurboom	Fabaceae	Indigenous	
<i>Wisteria sinensis</i>	Chinese wisteria	Fabaceae	Alien	
<i>Voacanga thouarsii</i>	Madagascar frangipani	Apocynaceae	Indigenous	

\*Riverbushwillow (*Combretum erythrophyllum*) trees around the Gauteng area are being infested by another species of ambrosia beetle. This beetle is smaller than PSHB, only about 1.5mm in size and so are the holes it bores into the trees. The origins of this second beetle species are currently unknown, as is the role it plays in tree decline.

### NON-REPRODUCTIVE HOSTS

Hosts that are attacked but the beetles do not establish breeding galleries. The fungus may or may not cause disease. Non-reproductive hosts are generally not expected to die.

Scientific name	Common name	Family	Status	AIS
<i>Acacia saligna</i>	Port Jackson willow	Fabaceae	Invasive	1b/3
<i>Adansonia digitata</i>	Baobab	Malvaceae	Indigenous	
<i>Albizia adianthifolia</i>	Flat crown	Fabaceae	Indigenous	
<i>Allophylus decipiens</i>	Bastard taaibos	Sapindaceae	Indigenous	
<i>Antidesma venosum</i>	Tassel-berry	Phyllanthaceae	Indigenous	
<i>Bauhinia purpurea</i>	Butterfly orchid tree	Fabaceae	Invasive	1b/3
<i>Betula pendula</i>	Silver birch	Betulaceae	Alien	
<i>Bougainvillea sp.</i>	Bougainvillea	Nyctaginaceae	Alien	
<i>Bridellia micrantha</i>	Coastal Golden-leaf	Phyllanthaceae	Indigenous	
<i>Buddleja saligna</i>	False olive	Scrophulariaceae	Indigenous	
<i>Burchellia bubalina</i>	Wild pomegranate	Rubiaceae	Indigenous	
<i>Camellia japonica</i>	Common camellia	Theaceae	Alien	
<i>Cananga odorata</i>	Ylang ylang	Annonaceae	Alien	
<i>Canthium inerme</i>	Common turkey-berry	Rubiaceae	Indigenous	
<i>Ceiba pentandra</i>	Kapok	Malvaceae	Alien	
<i>Ceiba speciosa</i>	Silk floss tree	Malvaceae	Alien	
<i>Celtis africana</i>	White stinkwood	Cannabaceae	Indigenous	
<i>Chaetacme aristata</i>	Thorny elm	Ulmaceae	Indigenous	
<i>Cinnamomum camphora</i>	Camphor	Lauraceae	Invasive	
<i>Citrus limon</i>	Lemon	Rutaceae	Alien	
<i>Citrus sinensis</i>	Orange	Rutaceae	Alien	
<i>Cola natalensis</i>	Coshwood	Malvaceae	Indigenous	
<i>Commiphora harveyi</i>	Copper stem corkwood	Burseraceae	Indigenous	
<i>Cordia caffra</i>	Septe tree	Boraginaceae	Indigenous	
<i>Cordia myxa</i>	Assyrian plum	Boraginaceae	Alien	
<i>Diospyros lycoides</i>	Monkey plum	Ebenaceae	Indigenous	
<i>Dombeya rotundifolia</i>	Wild pear	Malvaceae	Indigenous	
<i>Ekebergia capensis</i>	Cape ash	Meliaceae	Indigenous	

Scientific name	Common name	Family	Status	AIS
<i>Eriobotrya japonica</i>	Loquat	Rosaceae	Invasive	1b/-
<i>Erythrina livingstoniana</i>	Aloe coral tree	Fabaceae	Alien	
<i>Eucalyptus camaldulensis</i>	River red gum	Myrtaceae	Invasive	1b/2
<i>Ficus carica</i>	Common fig	Moraceae	Alien	
<i>Ficus sur</i>	Cape fig	Moraceae	Indigenous	
<i>Fraxinus americana</i>	American ash	Oleaceae	Invasive	3/-
<i>Fraxinus excelsior</i>	European ash	Oleaceae	Alien	
<i>Gymnosporia buxifolia</i>	Spike thorn	Celestraceae	Indigenous	
<i>Hakea salicifolia</i>	Willow-leaved hakea	Proteaceae	Invasive	1b/-
<i>Hibiscus rosa-sinensis</i>	Hibiscus	Malvaceae	Alien	
<i>Hyoporbe verschaffeltii</i>	Spindle palm	Arecaceae	Alien	
<i>Ilex mitis</i>	Cape holly	Aquifoliaceae	Indigenous	
<i>Jacaranda mimosifolia</i>	Jacaranda	Bignoniaceae	Invasive	1b/-
<i>Leonotis leonurus</i>	Wild tobacco	Lamiales	Indigenous	
<i>Leucadendron argenteum</i>	Silvertree	Proteaceae	Indigenous	
<i>Melia azedarach</i>	Syringa	Meliaceae	Invasive	1b/3
<i>Melianthus major</i>	Honey flower	Francoaceae	Indigenous	
<i>Metasequoia glyptostroboides</i>	Dawn redwood	Cupressaceae	Alien	
<i>Onoon longifolium</i>	False ashoka	Annonaceae	Alien	
<i>Morus nigra</i>	Black mulberry	Moraceae	Alien	
<i>Nuxia floribunda</i>	Forest elder	Stilbaceae	Indigenous	
<i>Olea europaea subsp. cuspidata</i>	Wild olive	Oleaceae	Alien	
<i>Olea europaea subsp. europaea</i>	Cultivated olive	Oleaceae	Alien	
<i>Olinia ventosa</i>	Hard pear	Penaeaceae	Indigenous	
<i>Osteospermum moniliferum</i>	Bietou	Asteraceae	Indigenous	
<i>Phoenix reclinata</i>	Wild date palm	Arecaceae	Alien	
<i>Platanus occidentalis</i>	American plane	Platanaceae	Alien	
<i>Platanus racemosa</i>	Californian plane	Platanaceae	Alien	
<i>Plumeria rubra</i>	Frangipani	Apocynaceae	Alien	
<i>Podocarpus henkelii</i>	Henkel's yellowwood	Podocarpaceae	Indigenous	
<i>Protea mundii</i>	Forest sugar bush	Proteaceae	Indigenous	
<i>Prunus africana</i>	Red stinkwood	Rosaceae	Indigenous	
<i>Prunus avium</i>	Sweet cherry	Rosaceae	Alien	
<i>Prunus persica</i>	Peach	Rosaceae	Alien	
<i>Psidium guajava</i>	Guava	Myrtaceae	Invasive	2/3
<i>Quercus rugosa</i>	Net leaf oak	Fagaceae	Alien	
<i>Rapanea melanophloeos</i>	Cape beech	Primulaceae	Indigenous	
<i>Schinus molle</i>	Pepper tree	Anacardiaceae	Alien	
<i>Schotia brachypetala</i>	Weeping boerbean	Fabaceae	Indigenous	
<i>Scutia myrtina</i>	Cat-thorn	Rhamnaceae	Indigenous	
<i>Searsia chirindensis</i>	Red currant	Anacardiaceae	Indigenous	
<i>Searsia lansea</i>	Karree	Anacardiaceae	Indigenous	
<i>Searsia lucida</i>	Glossy currant	Anacardiaceae	Indigenous	
<i>Senegalia (Acacia) burkei</i>	Black monkey-thorn	Fabaceae	Indigenous	
<i>Senegalia (Acacia) galpinii</i>	Monkey-thorn	Fabaceae	Indigenous	
<i>Solanum mauritianum</i>	Bugweed	Solanaceae	Invasive	1b
<i>Stenocarpus sinuatus</i>	Firewheel tree	Proteaceae	Alien	
<i>Strychnos henningsii</i>	Coffee-nux vomica	Loganiaceae	Indigenous	
<i>Syzygium cordatum</i>	Waterberry	Myrtaceae	Indigenous	
<i>Taxodium distichum</i>	Swamp cypress	Cupressaceae	Alien	

Scientific name	Common name	Family	Status	AIS
<i>Ulmus minor = procera</i>	English elm	Ulmaceae	Alien	
<i>Vachellia (Acacia) karroo</i>	Sweet thorn	Fabaceae	Indigenous	Bush
<i>Vachellia (Acacia) sieberiana var. woodii</i>	Paper bark thorn	Fabaceae	Indigenous	
<i>Psychotria capensis</i>	Black bird berry	Rubiaceae	Indigenous	
<i>Vitis vinifera</i>	Grape vine	Vitaceae	Alien	
<i>Xylothea kraussiana</i>	African dog rose	Achariaceae	Indigenous	

Status	Reproductive Hosts	Non-Reproductive Hosts	Total
Indigenous	55	42	97
Alien	30	31	61
Invasive	12	11	23
<b>TOTAL</b>	<b>97</b>	<b>84</b>	<b>181</b>

The category refers to the listed invasive species in the NEM:BA Alien and Invasive Species Regulation. Some species have different listings in different circumstances or Provinces.

Note that there is no proven or registered chemical control for the polyphagous shot hole borer.

The polyphagous shot-hole borer (*Euwallacea fornicatus*) and its fungal symbiont (*Fusarium euwallaceae*) will be listed as a Category 1b invasive species.

For updated information: [www.fabinet.up.ac.za/pshb](http://www.fabinet.up.ac.za/pshb)

To report PSHB infestation on an unlisted host: [pshb@fabi.up.ac.za](mailto:pshb@fabi.up.ac.za).



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA



**RHODES UNIVERSITY**  
*Where leaders learn*



**Stellenbosch**  
UNIVERSITY  
IYUNIVESITHI  
UNIVERSITEIT



**forestry, fisheries  
and the environment**

Department:  
Forestry, Fisheries and the Environment  
REPUBLIC OF SOUTH AFRICA



**agriculture, land reform  
& rural development**

Department:  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA