

Invasive Shothole Borers



ISHB Reproductive Hosts

About Reproductive Hosts

Reproductive hosts are plant species that are capable of 1) supporting beetle reproduction and 2) growing the fungi that cause Fusarium dieback. Source: Eskalen, A. et al. 2013-2018 <https://apsjournals.apsnet.org/doi/abs/10.1094/PDIS-11-12-1026-RE>

ISHB or Fusarium dieback hosts may be trees identified as showing signs of beetle or beetle and fungal attack in the field, or trees specifically challenged with beetles and/or fungal pathogens in controlled experiments. They are determined to be reproductive hosts when all life stages of the beetle species are found inhabiting them. Many more trees may host beetle attack than those that are confirmed to be reproductive hosts.

The UC research team does NOT intend this list to be used as a "do not plant" list. In some cases, ongoing research is investigating cases where even highly susceptible host species recover from attack. The choice of where, and under what conditions, to plant any tree species should include factors such as the uses, whether ecosystem or social, of the tree, and the surrounding conditions, including threats a weakened tree could pose, and whether the site under consideration is in or near a known infestation area.

* indicates California native

See [signs of ISHB infestation](#) in most of the species listed below.

Host List

Susceptible to ISHB-FD (may cause tree death)

1. *Acer buergerianum* - Trident maple
2. *Acer macrophyllum* - Big leaf maple*
3. *Acer negundo* - Box elder*
4. *Parkinsonia aculeata* - Palo verde
5. *Platanus racemosa* - California sycamore*
6. *Platanus x hispanica* - London plane
7. *Populus fremontii* - Fremont cottonwood*
8. *Populus nigra* - Black poplar*
9. *Populus trichocarpa* - Black cottonwood*
10. *Quercus lobata* - Valley oak*
11. *Quercus robur* - English oak
12. *Ricinus communis* - Castorbean

13. *Salix gooddingii* - Black willow*
14. *Salix laevigata* - Red willow*
15. *Salix lasiolepis* - Arroyo willow*

Less susceptible to ISHB/FD (causes branch dieback), and/or the beetle commonly colonizes at the margin of [canker diseases](#).

1. *Acacia melanoxylon* - Australian blackwood
2. *Acacia spp.* - Acacia
3. *Acer paxii* - Evergreen maple
4. *Acer palmatum* - Japanese maple
5. *Acer saccharinum* - Silver leaf maple
6. *Aesculus californica* - California buckeye*
7. *Ailanthus altissima* - Tree of heaven
8. *Albizia julibrissin* - Mimosa
9. *Alectryon excelsus* - Titoki
10. *Alnus rhombifolia* - White alder*
11. *Archontophoenix cunninghamiana* - King palm
12. *Baccharis salicifolia* - Mule fat*
13. *Bauhinia variegata* - Purple orchid tree
14. *Brachychiton populneus* - Kurrajong
15. *Camellia semiserrata* - Camellia
16. *Castanospermum australe* - Moreton Bay chestnut
17. *Casuarina equisetifolia* - Australian pine tree
18. *Cocculus laurifolius* - Laurel leaf snailseed tree
19. *Corymbia ficifolia* - Red flowering gum
20. *Cupaniopsis anacardioides* - Carrotwood
21. *Dombeya cacuminum* - Strawberry tree
22. *Erythrina caffra* - Coast coral tree
23. *Erythrina coralloides* - Coral tree
24. *Erythrina falcata* - Brazilian coral tree
25. *Fagus crenata* - Japanese beech
26. *Ficus altissima* - Council tree
27. *Ficus carica* - Black mission fig
28. *Gleditsia triacanthos* - Honey locust
29. *Harpullia pendula* - Tulip wood
30. *Howea forsteriana* - Kentia palm
31. *Ilex cornuta* - Chinese holly
32. *Jacaranda mimosifolia* - Jacaranda
33. *Koelreuteria bipinnata* - Chinese flame tree
34. *Liquidambar styraciflua* - American sweet gum
35. *Magnolia grandiflora* - Southern magnolia
36. *Magnolia virginiana* - Sweet bay
37. *Parkinsonia florida* - Blue palo verde*
38. *Parkinsonia x sonorae* - Sonoran palo verde
39. *Persea americana* - Avocado
40. *Platanus mexicana* - Mexican sycamore
41. *Prosopis articulata* - Mesquite*
42. *Pterocarya stenoptera* - Chinese wingnut
43. *Quercus agrifolia* - Coast live oak*
44. *Quercus chrysolepis* - Canyon live oak*
45. *Quercus engelmannii* - Englemann oak*
46. *Quercus suber* - Cork oak
47. *Salix babylonica* - Weeping willow
48. *Spathodea campanulata* - African tulip tree
49. *Tamarix ramosissima* - Tamarisk
50. *Wisteria floribunda* - Japanese wisteria
51. *Xylosma congesta* - Dense logwood / Shiny *Xylosma*



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