

Reducing Habitat Conducive to JB Populations

In areas experiencing an incipient infestation of JB, residents may reduce the habitat conducive to JB populations in the affected area. The following three steps may be utilized:

- Plant JB resistant plant species
- Keep trees and plants healthy, they are less prone to attack
- Remove prematurely ripening or diseased fruit from the trees and the ground

Use of JB Resistant Plants

While the use of JB resistant plants does not change CDFA's eradication approach as recommended by the JB SAP in 2015, it can reduce the favorable habitat conducive to JB. The JB SAP recommended, and CDFA accepted, the elimination of the use of a JB host list while performing its JB eradication activities. While the use of JB resistant plants may reduce a habitat conducive for JB, such plant material would still be treated per CDFA's eradication protocol.

While there may be other credible references, CDFA has summarized the following information from the USDA's Program Aid No. 1599, "Managing the Japanese Beetle: A Homeowner's Handbook, 2004." This document can be accessed at:

https://www.aphis.usda.gov/plant_health/plant_pest_info/jb/downloads/JBhandbook.pdf

The USDA's "Conclusions" when discussing the integrated pest management strategies contained in the document, including the use of JB resistant plants, states:

"The Japanese beetle can be a destructive pest of trees, plants, and turf. It is important to understand that an IPM program *will not eliminate all Japanese beetles from your property*; however, the management options discussed here *can help you reduce the damage inflicted by this pest.*"

JB Resistant Plants

Trees and Shrubs

<u>Common Name</u>	<u>Scientific Name</u>
Red maple	<i>Acer rubrum</i>
Boxwood	<i>Buxus</i> spp.
Hickory	<i>Carya</i> spp.
Redbud	<i>Cercis</i> spp.
Tulip poplar	<i>Liriodendron tulipifera</i>
Dogwood	<i>Cornus</i> spp.
Burning-bush	<i>Euonymus</i> spp.
Forsythia	<i>Forsythia</i> spp.
Ash	<i>Fraxinus</i> spp.
Holly	<i>Ilex</i> spp.
Juniper	<i>Juniperus</i> spp.
Sweetgum	<i>Liquidambar styraciflua</i>
Magnolia	<i>Magnolia</i> spp.
Spruce	<i>Picea</i> spp.
Pine	<i>Pinus</i> spp.

Northern red oak	<i>Quercus rubrum</i>
Lilac	<i>Syringa</i> spp.
Yew	<i>Taxus</i> spp.
Arborvitae	<i>Thuja</i> spp.
Hemlock	<i>Tsuga</i> spp.

Herbaceous Plants

<u>Common Name</u>	<u>Scientific Name</u>
Ageratum	<i>Ageratum</i> spp.
Columbine	<i>Aquilegia</i> spp.
Dustymiller	<i>Centaurea</i> spp.
Cineraria	<i>Lychnis coronaria</i>
Begonia	<i>Begonia</i> spp.
Lily-of-the-valley	<i>Convallaria majalis</i>
Coreopsis	<i>Coreopsis</i> spp.
Larkspur	<i>Delphinium</i> spp.
Foxglove	<i>Digitalis</i> spp.
California poppy	<i>Eschscholzia californica</i>
Coral-bells	<i>Heuchera sanguine</i>
Hosta	<i>Hosta</i> spp.
Impatiens	<i>Impatiens</i> spp.
Lantana	<i>Lantana camara</i>
Forget-me-not	<i>Myosotis</i> spp.
Pachysandra	<i>Pachysandra</i> spp.
Poppy	<i>Papaver</i> spp.
Moss-rose	<i>Portulaca grandiflora</i>
Showy sedum	<i>Sedum spectabile</i>
Nasturtium	<i>Tropaeolum majus</i>
Pansy, viola	<i>Viola</i> spp.

Trees and Shrubs Susceptible to Adult Japanese Beetle Feeding

Primary:

<u>Common Name</u>	<u>Scientific Name</u>
Japanese maple	<i>Acer palmatum</i>
Norway maple	<i>Acer platanoides</i>
Crape-myrtle	<i>Lagerstroemia indica</i>
Apple, crabapple	<i>Malus</i> spp.
Virginia creeper	<i>Parthenocissus quinquefolia</i>
Plum, apricot, cherry, peach	<i>Prunus</i> spp.
Pin oak	<i>Quercus palustris</i>
Sassafras	<i>Sassafras albidum</i>
American mountain-ash	<i>Sorbus americana</i>
Linden (American, European)	<i>Tilia</i> spp.

Secondary

<u>Common Name</u>	<u>Scientific Name</u>
Horse-chestnut	<i>Aesculus hippocastanum</i>

Althaea	<i>Althaea</i> spp.
Birch	<i>Betula</i> spp.
Summer-sweet	<i>Clethra</i> spp.
Hawthorn	<i>Crataegus</i> spp.
Beech	<i>Fagus grandifolia</i>
Black walnut	<i>Juglans nigra</i>
Larch	<i>Larix laricina</i>
Lombardy poplar	<i>Populus nigra</i> var.
Willow	<i>Salix</i> spp.

*These plant lists do not document all the species that are susceptible or resistant to Japanese beetle attack.