

# Japanese Maple Scale Woody Ornamental Host Plants

**Japanese maple scale (JMS)**, (*Lopholeucaspis japonica* Cockerell) (Hemiptera: Diaspididae), is a prolific pest of major concern to nursery crop producers and landscape managers in MD and the eastern United States. JMS is difficult to monitor and manage due to its small size, extended crawler emergence periods, and wide host plant range. The purpose of this fact sheet is to provide practitioners with host plant information that will help to improve and focus their monitoring efforts. All plants listed in this fact sheet are verified as hosts of Japanese maple scale from published literature or direct observations by the authors. This list should not be considered all inclusive. Due to the generalist feeding habits of JMS there are likely more hosts we have yet to identify including additional cultivars/hybrids. For additional information on JMS biology and management see the IPM for Commercial Horticulture fact sheet on JMS at: <https://go.umd.edu/FS-967>



JMS can reach high populations before it is detected on trees with light bark.

Genus/Species	Cultivar/Hybrid	Common Name
<b>FAMILY: Anacardiaceae</b>		
<i>Cotinus coggygria</i>		smoke tree
<i>Rhus typhina</i>		staghorn sumac
<b>FAMILY: Aquifoliaceae</b>		
<i>Ilex crenata</i>		Japanese holly
<i>Ilex opaca</i>		American holly
<i>Ilex verticillata</i>		winterberry
<i>Ilex</i> x	'Nellie R. Stevens', 'Dr. Kassab'	hybrid holly
<i>Ilex</i> x <i>aquipernyi</i>	'Dragon Lady'	Foster's hybrid holly
<i>Ilex</i> x <i>koehneana</i>	'Conayule'	Yule brite™ holly
<i>Ilex</i> x <i>merserveae</i>	'Blue Boy', 'Blue Maid', 'Centennial Girl'	Merserve hybrid holly
<b>FAMILY: Betulaceae</b>		
<i>Alnus</i> spp.		alder
<i>Betula</i> spp.		birch
<i>Betula papyrifera</i>	'Renci'	Reflection paper birch

Genus/Species	Cultivar/Hybrid	Common Name
<b>FAMILY: Betulaceae cont...</b>		
<i>Betula utilis</i>	'Madison'	White Satin™ birch
<i>Carpinus betulus</i>		European hornbeam
<i>Carpinus betulus</i>	'Fastigiata'	upright European hornbeam
<i>Carpinus caroliniana</i>		American hornbeam
<b>FAMILY: Buxaceae</b>		
<i>Buxus spp.</i>		boxwood
<b>FAMILY: Celastraceae</b>		
<i>Celastrus spp.</i>		bittersweet
<i>Euonymus alatus</i>		winged euonymus
<i>Euonymus japonicus</i>		Japanese euonymus
<b>FAMILY: Cistaceae</b>		
<i>Citrus laurifolius</i>		laurel rock rose
<b>FAMILY: Cornaceae</b>		
<i>Cornus controversa</i>		giant dogwood
<i>Cornus florida</i>	'Cherokee Princess', 'Cherokee Brave', 'Cherokee Chief', 'Jean's Appalachian Snow'	flowering dogwood
<i>Cornus kousa</i>		kousa dogwood
<i>Cornus kousa</i>	'Milky Way'	kousa dogwood
<i>Cornus macrophylla</i>		large-leafed dogwood
<i>Cornus mas</i>		corneliancherry dogwood
<i>Cornus officinalis</i>		Japanese cornelian cherry
<i>Cornus x rutgersensis</i>	'Rutban'	Aurora® dogwood
<b>FAMILY: Ebanaceae</b>		
<i>Diospyros kaki</i>	'Gwangyang'	Japanese persimmon
<i>Diospyros virginiana</i>		common persimmon
<b>FAMILY: Ericaceae</b>		
<i>Enkianthus spp.</i>		enkianthus
<i>Oxydendrum arboreum</i>		sourwood
<b>FAMILY: Fabaceae</b>		
<i>Cercis canadensis</i>		Eastern redbud
<i>Cladrastis kentukea</i>		yellowwood
<i>Cytisus spp.</i>		common broom
<i>Gleditsia triacanthos</i>		common honeylocust
<i>Gleditsia triacanthos f. inermis</i>	'Shademaster®', 'Skyline'	thornless common honeylocust
<i>Styphnolobium japonicum</i>	'Regent'	Japanese pagodatree
<i>Wisteria spp.</i>		wisteria

Genus/Species	Cultivar/Hybrid	Common Name
<b>FAMILY: Fagaceae</b>		
<i>Fagus grandifolia</i>		American beech
<i>Castanea mollissima</i>		Chinese chestnut
<b>FAMILY: Hamamelidaceae</b>		
<i>Liquidambar styraciflua</i>	'Moraine', 'Worplesdon'	sweetgum
<i>Parrotia persica</i>		Persian parrotia
<b>FAMILY: Hydrangeaceae</b>		
<i>Hydrangea paniculata</i>		panicle hydrangea
<b>FAMILY: Lauraceae</b>		
<i>Laurus nobilis</i>		bay laurel
<b>FAMILY: Magnoliaceae</b>		
<i>Liriodendron tulipifera</i>		tulip poplar
<i>Magnolia macrophylla</i>		bigleaf magnolia
<i>Magnolia stellata</i>		star magnolia
<i>Magnolia stellata</i>	'Centennial'	star magnolia
<i>Magnolia virginiana</i>		sweetbay magnolia
<i>Magnolia x loebneri</i>	'Leonard Messel'	hybrid magnolia
<b>FAMILY: Menyanthaceae</b>		
<i>Menyanthes trifoliata</i>		Bogbean
<b>FAMILY: Moraceae</b>		
<i>Ficus spp.</i>		Fig
<b>FAMILY: Oleaceae</b>		
<i>Fraxinus spp.</i>		Ash
<i>Fraxinus pennsylvanica</i>	'Patmore'	green ash
<i>Ligustrum spp.</i>		Privet
<i>Syringa reticulata</i>	'Ivory Silk'	Japanese tree lilac
<i>Syringa vulgaris</i>		common lilac
<i>Syringa vulgaris</i>	'President Grevy', 'Primrose'	common lilac
<b>FAMILY: Rhamnaceae</b>		
<i>Ziziphus jujube</i>		Chinese date
<b>FAMILY: Rosaceae</b>		
<i>Amelanchier spp.</i>		Serviceberry
<i>Amelanchier x grandiflora</i>		apple serviceberry
<i>Aronia arbutifolia</i>		red chokeberry
<i>Chaenomeles spp.</i>		flowering quince
<i>Cotoneaster spp.</i>		Cotoneaster
<i>Crataegus laevigata</i>	'Superba'	English hawthorn
<i>Crataegus viridis</i>	'Winter King'	green hawthorn

Genus/Species	Cultivar/Hybrid	Common Name
<b>FAMILY: Rosaceae cont...</b>		
<i>Cydonia oblonga</i>		quince tree
<i>Malus</i>	'Adams', 'Adirondack', 'Prairifire'	hybrid crabapple
<i>Malus floribunda</i>		Japanese crabapple
<i>Malus sargentii</i>	'Select A'	firebird crabapple
<i>Malus x zumi</i>		flowering crabapple
<i>Malus x zumi</i>	'Calocarpa'	redbud crabapple
<i>Malus domestica</i>	'Gala', 'Honeycrisp', 'Ginger Crisp'	orchard apple
<i>Prunus cerasifera</i>	'Thundercloud'	cherry plum
<i>Prunus serrulata</i>	'Kwanzan'	Japanese flowering cherry
<i>Prunus subhirtella</i>	'Pendula', 'Autumnalis'	Higan cherry
<i>Prunus x incamp</i>	'Okame'	Okame cherry
<i>Prunus x yedoensis</i>		Yoshino cherry
<i>Pyracantha coccinea</i>		Firethorn
<i>Pyrus calleryana</i>	'Artisocrat'	Callery pear
<i>Pyrus pyrifolia</i>	'Hosui', 'Ya Li', 'Niiitaka'	Asian pear
<i>Pseudocydonia sinensis</i>		Chinese quince
<i>Rosa</i>	'Radcon'	Pink Knock Out® Rose
<b>FAMILY: Rutaceae</b>		
<i>Poncirus trifoliata</i>		hardy-orange
<i>Tetradium daniellii</i>		Korean evodia
<b>FAMILY: Salicaceae</b>		
<i>Populus spp.</i>		poplar
<i>Salix alba</i>		white willow
<b>FAMILY: Sapindaceae (formerly Aceraceae)</b>		
<i>Acer campestre</i>	'Evelyn'	hedge maple
<i>Acer griseum</i>		paperbark maple
<i>Acer henryi</i>		Henry's maple
<i>Acer palmatum</i>	'Bloodgood', 'Butterly', 'Tamakeyana', 'Waterfall'	Japanese maple
<i>Acer pensylvanicum</i>		striped maple
<i>Acer rubrum</i>	'Armstrong', 'Bowhall', 'Brandywine', 'Franksred', 'October Glory', 'Red Sunset®'	red maple
<i>Acer saccharum</i>	'Commemoration', 'Green Mountain', 'Legacy'	sugar maple
<i>Acer x freemanii</i>		freeman maple
<i>Koelreuteria paniculata</i>		golden rain tree
<i>Xanthoceras sorbifolium</i>		yellowhorn

Genus/Species	Cultivar/Hybrid	Common Name
<b>FAMILY: Paulowniaceae</b>		
<i>Paulownia tomentosa</i>		empress tree
<b>FAMILY: Styracaceae</b>		
<i>Halesia tetraptera</i>		Carolina silverbell
<i>Styrax japonicus</i>		Japanese snowbell
<i>Styrax japonicus</i>	'Snowbell'	Japanese snowbell
<i>Styrax obassia</i>		fragrant snowbell
<b>FAMILY: Theaceae</b>		
<i>Camellia spp.</i>		camellia
<i>Stewartia koreana</i>		Korean stewartia
<i>Stewartia pseudocamellia</i>		Japanese stewartia
<b>FAMILY: Tiliaceae</b>		
<i>Tilia spp.</i>		linden
<i>Tilia tomentosa</i>	'Sterling'	silver linden
<b>FAMILY: Ulmaceae</b>		
<i>Ulmus americana</i>	'Princeton', 'Valley Forge'	American elm
<i>Ulmus parvifolia</i>	'Allee', 'Dynasty'	lacebark elm
<i>Zelkova serrata</i>	'Green Vase', 'Village Green'	zelkova

NOTE: spp. = more than one species in the genus is a host plant of JMS

## References

John Davidson and Douglass Miller. *Armored Scale Insect Pests of Trees and Shrubs* (Hemiptera: Diaspididae). Ithaca: Cornell University Press, 2005.

Stanton Gill and Paula Shrewsbury. *Japanese Maple Scale: A Pest of Nursery and Landscape Trees and Shrubs*. University of Maryland Extension. FS-967, 2014.

**When citing this publication, please use the suggested format below:**

Shrewsbury, P., Harding, N., Rojas, M., & Gill, S. *Japanese Maple Scale Woody Ornamental Host Plants* (EB-1). University of Maryland Extension. go.umd.edu/EB-1

PAULA M. SHREWSBURY  
Extension Specialist,  
Dept. of Entomology UMD  
pshrewsbury@umd.edu

NANCY M. HARDING  
Research Asst., Dept. of  
Entomology, UMD

MARIE S. ROJAS  
IPM Scout, Borders &  
Butterflies  
nharding@umd.edu

STANTON GILL  
Extension Specialist,  
CMREC UMD.  
sgill@umd.edu

*The authors would like to acknowledge Karen Petroff, Assistant Director, VPAF-FM-B&LM-University of Maryland Arboretum & Landscape Service.*

This publication, *Japanese Maple Scale Woody Ornamental Host Plants* (EB-1), is a part of a collection produced by the University of Maryland Extension within the College of Agriculture and Natural Resources, Department of Entomology.

The information presented has met UME peer-review standards, including internal and external technical review. For help accessing this or any UME publication contact: itaccessibility@umd.edu

For more information on this and other topics, visit the University of Maryland Extension website at extension.umd.edu

*University programs, activities, and facilities are available to all without regard to race, color, sex, gender identity or expression, sexual orientation, marital status, age, national origin, political affiliation, physical or mental disability, religion, protected veteran status, genetic information, personal appearance, or any other legally protected class.*