

Vulnerability ratings for trees in the Cleveland Tree Plan

Latin Name	Common Name	Cultivar	Planted Adapt Class	Model Projections	Confidence	Climate Change Effect	Vulnerability
<i>Abies concolor</i>	white fir		medium			negative	moderate-high
<i>Abies nordmanniana</i>	Nordmann fir		medium			negative	moderate-high
<i>Acer buergerianum</i>	trident maple		high			no effect	low
<i>Acer campestre</i>	Hedge maple		high			no effect	low
<i>Acer griseum</i>	paperbark maple		low			slightly negative	moderate-high
<i>Acer miyabei</i>	Miyabe maple	Morton	high			negative	moderate
<i>Acer triflorum</i>	threeflower maple		medium			negative	moderate
<i>Acer x freemanii</i>	Freeman maple	Autumn Blaze	high			slightly negative	moderate
<i>Aescleus glabra</i>	Ohio buckeye		medium	Mixed results	Medium		moderate
<i>Aesculus flava (octandra)</i>	yellow buckeye		medium			no effect	low-moderate
<i>Aesculus pavia</i>	red buckeye		high			no effect	low
<i>Amelanchier laevis</i>	Allegheny serviceberry		high			no effect	low
<i>Amelanchier x grandifolia</i>	apple serviceberry		high			slightly negative	moderate
<i>Asimina triloba</i>	paw-paw		low			slightly positive	moderate
<i>Betula nigra</i>	River birch	native Emerald Avenue	medium			no effect	low-moderate
<i>Carpinus betulus</i>	European hornbeam		high			slightly negative	moderate
<i>Carpinus caroliniana</i>	American hornbeam		high	No Change New Habitat	medium- high		low
<i>Celtis laevigata</i>	sugarberry		medium		medium		low-moderate
<i>Celtis x magnifica</i>	magnifica hackberry	Magnifica	high			no effect	low
<i>Cercidiphyllum japonicum</i>	Katsura tree		low			no effect	moderate-high
<i>Cercis canadensis</i>	Eastern redbud		medium	New Habitat	medium- high		low-moderate
<i>Chionanthus retusus</i>	Chinese fringetree		high			no effect	low
<i>Cladrastis kentukea</i>	yellowwood		high			no effect	low
<i>Cornus florida</i>	Flowering dogwood	Appalachian Spring	medium	New Habitat	medium- high		low-moderate
<i>Cornus kousa</i>	kousa dogwood		high			no effect	low
<i>Crataegus viridis</i>	green hawthorn	Winter King	high			negative	moderate
<i>Diospyros virginiana</i>	common persimmon		high	New Habitat	medium- high		low
<i>Fagus sylvatica</i>	European beech		medium			slightly negative	moderate-high
<i>Ginkgo biloba</i>	Maidenhair tree		high			no effect	low
<i>Gleditsia triacanthos</i>	Honeylocust	Imperial	high	Increase	medium- high		low
<i>Gleditsia triacanthos</i>	Honeylocust	Shademaster	high	Increase	medium- high		low
<i>Gleditsia triacanthos var. inermis</i>	honeylocust	Skyline	high	Increase	medium- high	slightly negative	low
<i>Gleditsia triacanthos var. inermis</i>	honeylocust	Streetkeeper	high	Increase	medium- high	slightly negative	low
<i>Gymnocladus dioica</i>	Kentucky coffeetree	Espresso	high			no effect	low
<i>Gymnocladus dioica</i>	Kentucky coffeetree	Stately Manor	high			no effect	low
<i>Gymnocladus dioicus</i>	Kentucky coffeetree	Prairie Titan	high			no effect	low

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<i>Halesia tetraptera</i>	Silverbell		medium			no effect	low-moderate
<i>Juniperus chinensis</i>	chinese juniper	Keteleeri	high			no effect	low
<i>Juniperus virginiana</i>	Eastern redcedar	Canaertii'	high	New Habitat	medium- high	no effect	low
<i>Juniperus virginiana</i>	Eastern redcedar	Emerald Sentinel	high	New Habitat	medium- high	no effect	low
<i>Koelreuteria paniculata</i>	goldenrain tree		high			no effect	low
<i>Liquidambar styraciflua</i>	Sweetgum	Moraine'	medium	New Habitat	medium- high	slightly positive	low-moderate
<i>Liquidambar styraciflua</i>	Sweetgum	'Variegata'	medium	New Habitat	medium- high	slightly positive	low-moderate
<i>Liriodendron tulipifera</i>	Tuliptree		low	Mixed results	Medium		moderate-high
<i>Maackia amurensis</i>	Amur maackia	MaackNificent	high			negative	moderate
<i>Maackia amurensis</i>	amur maackia	Starburst'	high			slightly negative	moderate
<i>Maclura pomifera</i>	Osage orange	White Shield	high	Increase	medium- high	no effect	low
<i>Magnolia acuminata</i>	cucumbertree		medium	Increase	medium		low-moderate
<i>Magnolia</i> spp.	magnolia	Butterflies	high			no effect	low
<i>Magnolia</i> spp.	magnolia	Coral Lake	medium			no effect	low-moderate
<i>Magnolia</i> spp.	magnolia	Daybreak	medium			no effect	low-moderate
<i>Magnolia</i> spp.	magnolia	Elizabeth	medium			no effect	low-moderate
<i>Magnolia</i> spp.	magnolia	Yellow Bird	medium			no effect	low-moderate
<i>Magnolia</i> spp.	magnolia	Golden Gift	medium			slightly negative	moderate-high
<i>Magnolia stellata</i>	Star magnolia		medium			no effect	low-moderate
<i>Magnolia tripetala</i>	umbrella tree		medium			no effect	low-moderate
<i>Magnolia virginiana</i>	Sweet bay		high			slightly positive	low
<i>Magnolia x loebneri</i>	Loebner magnolia		medium			no effect	low-moderate
<i>Malus</i> spp	apple/crabapple	Bob White	medium			slightly negative	moderate-high
<i>Malus</i> spp	Crabapple species	Prairiefire	medium			slightly negative	moderate-high
<i>Malus</i> spp.	crab apple	Red Jewel	medium			slightly negative	moderate-high
<i>Malus</i> spp.	crab apple	Sugar Tyme	medium			slightly negative	moderate-high
<i>Metasequoia glyptostroboides</i>	dawn redwood		medium			slightly positive	low-moderate
<i>Nyssa sylvatica</i>	Black gum		high	Increase	medium medium- high		low
<i>Ostrya virginiana</i>	Ironwood (easternhornbeam)		high	Decrease			moderate
<i>Parrotia persica</i>	Persian ironwood	Vanessa	high			no effect	low
<i>Picea orientalis</i>	Oriental spruce		medium			slightly negative	moderate-high
<i>Pinus rigida</i>	pitch pine		low			negative	high
<i>Pinus rigida x taeda</i>	pitch-lob pine		medium			negative	moderate-high
<i>Pinus virginiana</i>	Virginia pine		low			no effect	moderate
<i>Platanus x acerifolia</i>	Planetree	Exclamation	medium			no effect	low-moderate
<i>Quercus bicolor</i>	Swamp white oak		medium	Mixed results	medium		moderate

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<i>Quercus imbricaria</i>	Shingle oak		high	Mixed results	medium		low-moderate
<i>Quercus macrocarpa</i>	bur oak		medium	Large Increase	medium-high		low-moderate
<i>Quercus muehlenbergii</i>	Chinkapin oak		medium	New Habitat	medium-high		low-moderate
<i>Quercus palustris</i>	Pin oak		medium	No Change	high		moderate
<i>Quercus palustris</i>	Pin oak	Green Pillar	medium			slightly negative	moderate
<i>Quercus prinoides</i>	dwarf chinkapin oak		medium			no effect	low-moderate
<i>Quercus robur x bicolor</i>	hybrid English oak	Long Regal Prince Oak	high			no effect	low
<i>Quercus robur x bicolor</i>	hybrid English oak	Nadler Kindred Spirit Oak	high			slightly negative	low-moderate
<i>Quercus rubra</i>	Northern red oak		high	Mixed results New Habitat	Medium		low-moderate
<i>Quercus shumardii</i>	Shumard oak		high		medium		low
<i>Styphnolobium japonicum</i>	Japanese pagoda tree	Regent	high			slightly negative	moderate
<i>Styphnolobium japonicum</i> (<i>Sophora japonica</i>)	Japanese pagodatree	Pendulum	high			slightly negative	moderate
<i>Syringa reticulata</i>	Japanese tree lilac	Ivory Silk	high			negative	moderate
<i>Taxodium distichum</i>	Baldcypress		high			no effect	low
<i>Thuja occidentalis</i>	Northern white cedar		high	No Change	medium		low
<i>Thuja x</i>	hybrid arborvitae	Green Giant or Spring Grove	high			negative	moderate
<i>Tilia americana</i>	American basswood		medium	Large Decrease	medium-high		moderate-high
<i>Tilia cordata</i>	Little leaf linden	Greenspire	high			slightly negative	moderate
<i>Tilia cordata</i>	Little leaf linden	Summer Sprite	high			slightly negative	moderate
<i>Tilia tomentosa</i>	silver linden		medium			negative	moderate-high
<i>Tilia x euchlora</i>	Crimean linden		high			negative	moderate
<i>Ulmus americana</i>	American elm	Princeton'	high			no effect	low
<i>Ulmus americana</i>	American elm	Jefferson'	high			slightly positive	low
<i>Ulmus americana</i>	American elm	New Harmony'	high			slightly positive	low
<i>Ulmus parviflora</i>	Chinese elm	Allee	high			slightly positive	low
<i>Ulmus propinqua</i>	emerald sunshine elm	Emerald Sunshine	high			slightly positive	low
<i>Ulmus x</i>	hybrid elm	Frontier'	high			slightly positive	low
<i>Ulmus x</i>	hybrid elm	Patriot'	high			no effect	low
<i>Ulmus x</i>	hybrid elm	Triumph	high			no effect	low
<i>Zelkova serrata</i>	Japanese zelkova	Village Green'	high			slightly positive	low
<i>Zelkova serrata</i>	Japanese zelkova	City Sprite	high			slightly positive	low

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<i>Zelkova serrata</i>	Japanese zelkova	Green Vase	high			slightly positive	low
<i>Zelkova serrata</i>	Japanese zelkova	Mushashino'	high			slightly positive	