

Relative Tolerance of Selected Species to Development Impacts

The following is adapted from "Trees and Development: A Technical Guide to Preservation of Trees During Land Development" by Nelda Matheny and James Clark.

Key:

P = poor, M = moderate, G = good

<u>Common Name</u>	<u>Scientific Name</u>	<u>Tolerance</u>
Fir	<i>Abies</i> spp.	M-G
Acacia	<i>Acacia</i> spp.	P
Bigleaf maple	<i>Acer macrophyllum</i>	M
Box elder	<i>Acer negundo</i>	G
Norway maple	<i>Acer platanoides</i>	M-G
Sycamore maple	<i>Acer pseudoplatanus</i>	M
Red maple	<i>Acer rubrum</i>	M-G
Silver maple	<i>Acer saccharinum</i>	P-M
Sugar maple	<i>Acer saccharum</i>	P-M
California buckeye	<i>Aesculus californica</i>	G
Red horse-chestnut	<i>Aesculus x cornea</i>	G
Ohio buckeye	<i>Aesculus glabra</i>	P
Tree of heaven	<i>Ailanthus altissima</i>	G
Red Alder	<i>Alnus rubra</i>	P-M
Serviceberry	<i>Amelanchier</i> spp.	G
Devil's-walkingstick	<i>Aralia spinosa</i>	M
Madrone	<i>Arbutus menziesii</i>	P
Pawpaw	<i>Asimina triloba</i>	G
Birch	<i>Betula</i> spp.	M
Bumelia	<i>Bumelia</i> spp.	M
Incense cedar	<i>Calocedrus decurrens</i>	M
Hornbeam; Blue beech	<i>Carpinus caroliniana</i>	M
Bitternut Hickory	<i>Carya cordiformis</i>	M-G
Pignut hickory	<i>Carya glabra</i>	M-G
Pecan	<i>Carya illinoensis</i>	M-G
Shagbark hickory	<i>Carya ovata</i>	M
Mockemut hickory	<i>Carya tomentosa</i>	M
Catalpa	<i>Catalpa</i> spp.	M-G
Deodar cedar	<i>Cednts deodara</i>	G
Hackberry; Sugarberry	<i>Celtis</i> spp.	M-G
Katsura-tree	<i>Cercidiphyllum japonicum</i>	P-M
Redbud	<i>Cercis canadensis</i>	M
False cypress	<i>Chamaecyparis</i> spp.	G
Yellowwood	<i>Cladrastis Illtea</i>	P
Pagoda dogwood	<i>Cornus alternifolia</i>	M

Flowering dogwood	<i>Cornus florida</i>	P-M
Pacific dogwood	<i>Cornus nuttallii</i>	G
Swamp dogwood	<i>Cornus stricta</i>	G
Hawthorn	<i>Crataegus</i> spp.	G
Cypress	<i>Cupressus</i> spp.	G
Monterey cypress	<i>Cupressus macrocarpa</i>	P
Persimmon	<i>Diospyros virginiana</i>	G
Eucalyptus	<i>Eucalyptus</i> spp.	M
Beech	<i>Fagus</i> spp.	P
Ash	<i>Fraxinus</i> spp.	M-G
Ginkgo	<i>Ginkgo biloba</i>	G
Locust	<i>Gleditsia</i> spp.	G
Kentucky coffee-tree	<i>Gymnocladus dioicus</i>	G
Silverbell	<i>Halesia</i> spp.	M
Holly	<i>Ilex</i> spp.	G
Walnut	<i>Juglans</i> spp.	P
Rocky Mountain juniper	<i>Juniperus scopulorum</i>	P
Eastern red cedar	<i>Juniperus virginiana</i>	G
Tamarack	<i>Larix laricina</i>	M
Sweetgum	<i>Liquidambar styraciflua</i>	P-G
Tuliptree	<i>Liriodendron tulipifera</i>	M
Southern magnolia	<i>Magnolia grandiflora</i>	M
Apple; crabapple	<i>Malus</i> spp.	M-G
Mulberry	<i>Morus</i> spp.	M-G
Barberry	<i>Myrica</i> spp.	G
Tupelo; Black gum	<i>Nyssa</i> spp.	M-G
Devilwood	<i>Osmanthus americanus</i>	M
American hophornbeam	<i>Ostrya virginiana</i>	M
Sourwood	<i>Oxydendrum arboretum</i>	P-M
Empress-tree	<i>Paulownia tomentosa</i>	G
Spruce	<i>Picea</i> spp.	M-G
Pine	<i>Pinus</i> spp.	M-G
London plane	<i>Platanus x acerifolia</i>	P-G
Eastern sycamore	<i>Platanus occidentalis</i>	M-G
Western sycamore	<i>Platanus racemosa</i>	M
Poplars	<i>Populus</i> spp.	G
Eastern cottonwood	<i>Populus deltoides</i>	M-G
Western cottonwood	<i>Populus fremontii</i>	P
Bigtooth aspen	<i>Populus grandidentata</i>	P-M
Lombardy poplar	<i>Populus nigra 'Italica'</i>	M-G
Plains cottonwood	<i>Populus sargentii</i>	M
Quaking aspen	<i>Populus tremuloides</i>	M
Black cottonwood	<i>Populus trichocarpa</i>	P
Black cherry	<i>Prunus serotina</i>	P-M
Douglas-fir	<i>Pseudotsuga menziesii</i>	P-G
Callery pear	<i>Pyrus calleryana</i>	M
Cost live oak	<i>Quercus agrifolia</i>	G
White oak	<i>Quercus alba</i>	P-G
Swamp white oak	<i>Quercus bicolor</i>	G
Scarlet oak	<i>Quercus coccinea</i>	P-M

Southern red oak	<i>Quercus falcata</i>	M-G
Oregon white oak	<i>Quercus garryana</i>	G
Shingle oak	<i>Quercus inbricaria</i>	G
Bluejack oak	<i>Quercus incana</i>	G
California black oak	<i>Quercus kelloggii</i>	M
Turkey oak	<i>Quercus laevis</i>	G
Laurel oak	<i>Quercus laurifolia</i>	M
Valley oak	<i>Quercus lobata</i>	M
Overcup oak	<i>Quercus lyrata</i>	G
Bur oak	<i>Quercus macrocarpa</i>	M-G
Blackjack oak	<i>Quercus marilandica</i>	G
Swamp chestnut oak	<i>Quercus michauxii</i>	G
Chinquapin oak	<i>Quercus muehlenbergii</i>	G
Water oak	<i>Quercus nigra</i>	G
Pin oak	<i>Quercus palustris</i>	M-G
Willow oak	<i>Quercus phellos</i>	M-G
Chestnut oak	<i>Quercus prinus</i>	M-G
Northern red oak	<i>Quercus rubra</i>	M-G
Shumard oak	<i>Quercus shumardii</i>	G
Post oak	<i>Quercus stellata</i>	P-G
Black oak	<i>Quercus velutina</i>	M-G
Live oak	<i>Quercus virginiana</i>	G
Rhododendron	<i>Rhododendron</i> spp.	M
Sumac	<i>Rhus</i> spp.	M-G
Willow	<i>Salix</i> spp.	M-G
Sassafras	<i>Sassafras albidum</i>	G
California peppertree	<i>Schinus molle</i>	M
Coast redwood	<i>Sequoia sempervirens</i>	G
Giant redwood	<i>Sequoia giganteum</i>	M
Mountain ash	<i>Sorbus aucuparia</i>	M
Stewartia	<i>Stewartia</i> spp.	G
Snowbell	<i>Styrax</i> spp.	M
Cypress	<i>Taxodium</i> spp.	G
Northern white cedar	<i>Thuja occidentalis</i>	G
Western red cedar	<i>Thuja plicata</i>	M
Linden; Basswood	<i>Tilia</i> spp.	P-M
Hemlock	<i>Tsuga</i> spp.	P-M
Elm	<i>Ulmus</i> spp.	M-G
California bay	<i>Umbellularia californica</i>	M
Viburnum	<i>Viburnum</i> spp.	M-G