

## Soil Test Interpretations and Fertilizer Management for Lawns, Turf, Gardens, and Landscape Plants

# Appendix: Soil pH Preferences for Selected Landscape Plants

	Acid below pH 6	Slightly acid pH 6-7	Slightly alkaline, above pH 7
<i>Abeliophyllum distichum</i> - Korean Abelialeaf	X	X	X
<i>Abies balsamea</i> - Balsam Fir	X		
<i>Abies concolor</i> - White Fir		X	X
<i>Abies fraseri</i> - Fraser Fir	X		
<i>Acer ginnala</i> - Amur Maple	X	X	X
<i>Acer negundo</i> - Box Elder	X	X	X
<i>Acer platanoides</i> - Norway Maple	X	X	X
<i>Acer rubrum</i> - Red Maple	X		
<i>Acer saccharinum</i> - Silver Maple		X	X
<i>Acer saccharum</i> - Sugar Maple		X	
<i>Acer x freemanii</i> - Freeman Maple		X	X
<i>Ajuga reptans</i> - Carpet Bugleweed		X	X
<i>Alnus glutinosa</i> - Common Alder	X	X	X
<i>Amelanchier canadensis</i> - Serviceberry	X		
<i>Aesculus glabra</i> - Ohio Buckeye		X	
<i>Arctostaphylos uva-ursi</i> - Common Bearberry	X		
<i>Aristolochia durior</i> - Dutchman's Pipe		X	X
<i>Aronia</i> spp. - Chokeberry	X		
<i>Berberis koreana</i> - Korean Barberry	X	X	X
<i>Berberis thunbergii</i> - Japanese Barberry		X	X
<i>Betula lenta</i> - Sweet Birch	X	X	
<i>Betula nigra</i> - River Birch		X	
<i>Betula papyrifera</i> - Paper Birch	X	X	X
<i>Betula pendula</i> - European White Birch	X	X	
<i>Buxus microphylla koreana</i> - Korean Littleleaf Boxwood		X	X
<i>Buxus sempervirens</i> - Common Boxwood		X	X
<i>Calycanthus floridus</i> - Sweet Shrub		X	
<i>Campsis radicans</i> - Common Trumpet creeper	X	X	X
<i>Caragana arborescens</i> - Siberian Pea Shrub			X

<i>Carpinus caroliniana</i> - American Hornbeam			X
<i>Carya cordiformis</i> - Bitternut Hickory		X	X
<i>Carya ovata</i> - Shagbark Hickory		X	
<i>Castanea</i> spp. - Chestnut		X	
<i>Catalpa speciosa</i> - Northern Catalpa		X	X
<i>Celastrus scandens</i> - American Bittersweet	X		
<i>Celtis occidentalis</i> - Hackberry	X	X	X
<i>Cephalanthus occidentalis</i> - Buttonbush		X	X
<i>Cercis canadensis</i> - American Redbud	X		
<i>Chamaecyparis pisifera</i> - Sawara False Cypress	X	X	
<i>Chionanthus virginicus</i> - White Fringetree	X		
<i>Cladrastis lutea</i> - Yellowwood			X
<i>Clematis</i> spp. - Clematis	X	X	
<i>Cornus alba</i> - Tatarian Dogwood	X	X	X
<i>Cornus alternifolia</i> - Pagoda Dogwood	X	X	
<i>Cornus canadensis</i> - Bunchberry	X	X	
<i>Cornus racemosa</i> - Gray Dogwood	X	X	X
<i>Cornus sericea</i> - Red Osier Dogwood	X	X	X
<i>Corylus americana</i> - American Hazelnut	X	X	X
<i>Cotinus coggygria</i> - Smokebush	X	X	X
<i>Cotoneaster</i> spp. - Cotoneaster		X	X
<i>Crataegus</i> spp. - Hawthorne		X	X
<i>Daphne</i> spp. - Daphne		X	X
<i>Deutzia</i> spp. - Deutzia		X	X
<i>Diervilla lonicera</i> - Dwarf Bush-Honeysuckle	X	X	X
<i>Dirca palustris</i> - Leatherwood		X	X
<i>Elaeagnus angustifolia</i> - Russian Olive	X	X	X
<i>Euonymus alatus</i> - Winged Euonymus	X	X	
<i>Euonymus fortunei</i> - Wintercreeper Euonymus	X	X	X
<i>Forsythia</i> spp. - Forsythia		X	
<i>Fraxinus americana</i> - White Ash		X	
<i>Fraxinus nigra</i> - Black Ash	X	X	X
<i>Fraxinus pennsylvanica</i> - Green Ash		X	X
<i>Ginkgo biloba</i> - Ginkgo		X	X
<i>Gleditsia triacanthos</i> - Honey Locust		X	X
<i>Gymnocladus dioicus</i> - Kentucky Coffeetree		X	X
<i>Hammamelis virginiana</i> - Common Witchhazel		X	
<i>Hydrangea arborescens</i> - Smooth Hydrangea	X	X	X
<i>Hydrangea paniculata</i> 'Grandiflora' - Peegee Hydrangea		X	
<i>Hypericum prolificum</i> - Shrubby St. Johnswort		X	

<i>Ilex verticillata</i> - Winterberry		X	X
<i>Juglans cinerea</i> - Butternut		X	X
<i>Juglans nigra</i> - Black Walnut			X
<i>Juniperus chinensis</i> - Chinese Juniper	X	X	X
<i>Juniperus communis</i> - Common Juniper	X	X	X
<i>Juniperus horizontalis</i> - Creeping Juniper	X		
<i>Juniperus sabina</i> - Savin Juniper		X	X
<i>Juniperus scopulorum</i> - Rocky Mountain Juniper		X	X
<i>Juniperus virginiana</i> - Eastern Red Cedar		X	X
<i>Larix decidua</i> - European Larch	X		
<i>Larix laricina</i> - Eastern Larch	X	X	X
<i>Ligustrum</i> ssp. - Privet		X	
<i>Liriodendron tulipifera</i> - Tuliptree		X	
<i>Lonicera</i> spp. - Honeysuckle		X	X
<i>Maackia amurensis</i> - Amur Maackia		X	X
<i>Magnolia acuminata</i> - Cucumber Tree Magnolia		X	X
<i>Magnolia x loebneeri</i> - Loebner Magnolia		X	X
<i>Magnolia salicifolia</i> - Anise Magnolia		X	X
<i>Magnolia soulangiana</i> - Saucer Magnolia	X		
<i>Magnolia stellata</i> - Star Magnolia	X		
<i>Malus</i> spp. - Flowering Crabapple	X	X	
<i>Malus pumila</i> - Common Apple	X	X	
<i>Menispermum canadense</i> - Common Moonseed		X	X
<i>Microbiota decussata</i> - Russian Cypress		X	X
<i>Morus alba tatarica</i> - Russian Mulberry	X	X	X
<i>Myrica pennsylvanica</i> - Northern Bayberry	X		
<i>Ostrya virginiana</i> - Ironwood		X	X
<i>Pachysandra terminalis</i> - Japanese Pachysandra	X		
<i>Parthenocissus quinquefolia</i> - Virginia Creeper		X	
<i>Parthenocissus tricuspidata</i> - Boston Ivy		X	X
<i>Paxistima canbyi</i> - Canby Paxistima	X		
<i>Phellodendron amurensis</i> - Amur Corktree	X	X	X
<i>Philadelphus coronarius</i> - Mockorange		X	X
<i>Physocarpus opulifolius</i> - Common Ninebark	X	X	X
<i>Picea abies</i> - Norway Spruce	X		
<i>Picea glauca</i> - White Spruce	X		
<i>Picea pungens</i> - Colorado Spruce		X	
<i>Pinus banksiana</i> - Jack Pine	X	X	X
<i>Pinus cembra</i> - Swiss Stone Pine		X	
<i>Pinus koraiensis</i> - Korean Pine		X	

<i>Pinus mugo</i> - Swiss Mountain Pine	X	X	
<i>Pinus nigra</i> - Austrian Pine		X	X
<i>Pinus ponderosa</i> - Ponderosa Pine		X	X
<i>Pinus resinosa</i> - Red Pine		X	
<i>Pinus strobus</i> - Eastern White Pine	X		
<i>Pinus sylvestris</i> - Scotch Pine		X	X
<i>Populus</i> spp. - Poplar		X	X
<i>Potentilla fruticosa</i> - Bush Cinquefoil		X	X
<i>Prunus americana</i> - American Plum		X	X
<i>Prunus armeniaca</i> - Apricot		X	X
<i>Prunus maackii</i> - Amur Chokecherry		X	X
<i>Prunus nigra</i> - Canada Plum		X	X
<i>Prunus pennsylvanica</i> - Pin Cherry	X	X	
<i>Prunus serotina</i> - Black Cherry		X	X
<i>Prunus tomentosa</i> - Nanking Cherry		X	X
<i>Prunus triloba</i> - Flowering Almond		X	X
<i>Prunus virginiana</i> - Common Chokecherry	X		
<i>Pseudotsuga menziesii</i> - Douglas Fir		X	
<i>Ptelea trifoliata</i> - Wafer Ash	X	X	X
<i>Pyrus communis</i> - Common Pear		X	X
<i>Pyrus ussuriensis</i> - Ussurian Pear		X	X
<i>Quercus alba</i> - White Oak		X	X
<i>Quercus bicolor</i> - Swamp White Oak		X	X
<i>Quercus ellipsoidalis</i> - Northern Pin Oak	X	X	X
<i>Quercus macrocarpa</i> - Bur Oak	X	X	X
<i>Quercus palustris</i> - Pin Oak	X		
<i>Quercus rubra</i> - Red Oak	X		
<i>Quercus velutina</i> - Black Oak		X	
<i>Rhododendron mucronulatum</i> - Korean Rhododendron	X		
<i>Rhododendron</i> spp. - Northern Lights Azalea	X	X	
<i>Rhododendron</i> spp. - PJM Rhododendron	X	X	
<i>Rhus glabra</i> - Smooth Sumac			
<i>Rhus typhina</i> - Staghorn Sumac	X		
<i>Rhus aromatica</i> - Fragrant Sumac		X	
<i>Ribes alpinum</i> - Alpine Currant		X	
<i>Robinia pseudoacacia</i> - Black Locust		X	X
<i>Rosa rugosa</i> - Rugosa Rose			X
<i>Rosa</i> spp. - Hybrid Tea Rose	X	X	
<i>Rubus idaeus</i> - Red Raspberry		X	
<i>Rubus occidentalis</i> - Black Raspberry	X	X	

Salix alba - White Willow		X	X
Salix pentandra - Laurel Willow		X	X
Sambucus spp. - Elderberry		X	X
Shepherdia argentea - Silver Buffaloberry			X
Sorbaria sorbifolia - Ural False Spirea		X	X
Sorbus americana - American Mountain Ash	X		
Sorbus aucuparia - European Mountain Ash		X	X
Spiraea x bumalda - Bumald Spirea	X	X	X
Spiraea x vanhouttei - Vanhoutte Spirea		X	
Staphylea trifolia - American Bladdernut		X	X
Symphoricarpos albus - Common Snowberry		X	
Syringa x chinensis - Chinese Lilac		X	X
Syringa meyeri - Meyer Lilac		X	X
Syringa reticulata - Japanese Tree Lilac		X	X
Syringa villosa - Late Lilac		X	X
Syringa vulgaris - Common Lilac			X
Taxus cuspidata - Japanese Yew		X	
Thuja occidentalis - American Arborvitae		X	
Tilia americana - American Linden		X	
Tilia cordata - Littleleaf Linden	X	X	X
Tsuga canadensis - Canada Hemlock	X		
Ulmus americana - American Elm		X	
Ulmus siberica - Siberian Elm		X	X
Vaccinium spp. - Blueberry, Lingonberry, Cranberry	X		
Viburnum dentatum - Arrowwood Viburnum		X	X
Viburnum lantana - Wayfaring Tree	X	X	
Viburnum lentago - Nannyberry		X	X
Viburnum opulus - European Cranberry Bush		X	X
Viburnum trilobum - American Highbush Cranberry		X	X
Vinca minor - Common Periwinkle		X	
Vitis spp. - Grape		X	
Weigela florida - Weigela		X	
Wisteria spp. - Wisteria		X	X

Source: C. Spurway, 1944. Mich. State Agric. Sta. Bull. 306, modified by M. Zins for Minnesota conditions

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