

Desired pH Ranges and Salt Tolerance of Common Nursery Plants,

Annuals, Perennials, Vegetables and Turf Grasses

*An asterisk beside the pH indicates the ability to tolerate a higher or lower pH depending on the side it appears on.

Scientific Name	Common Plant Name	Desired pH	Salt Tolerance
<i>Abelia x grandiflora</i>	Abelia	6.0 - 7.0	Medium
<i>Abies spp.</i>	Fir, all types	4.5 - 7.0	Medium
<i>Acer ginnala</i>	Amur maple	5.5 - 6.5	
<i>Acer negundo</i>	Boxelder	6.0 - 7.0	
<i>Acer palmatum</i>	Maple, Japanese	5.0 - 7.0	?
<i>Acer platanoides</i>	Maple, Norway	6.0 - 7.0*	Medium
<i>Acer rubrum</i>	Maple, Red	*6.0 - 7.0	Low - Med
<i>Acer saccharinum</i>	Maple, Silver	5.0 - 7.0*	Medium
<i>Acer saccharum</i>	Maple, Sugar	*6.0 - 7.0	Low
<i>Aesculus glabra</i>	Buckeye, Ohio	6.0 - 7.0	
<i>Aesculus hippocastanum</i>	Horsechestnut	6.0 - 8.0	Med - High
<i>Aesculus paviflora</i>	Bottlebush Buckeye	6.0 - 8.0	
<i>Ajuga reptans</i>	Bugleweed	6.5 - 7.5	
<i>Albizia julibrissin</i>	Mimosa	5.5 - 6.5	High
<i>Alnus glutinosa</i>	Alder, European Black	4.0 - 7.0	
<i>Alnus rugosa</i>	Alder	6.0 - 8.0	
<i>Amelanchier spp.</i>	Serviceberry/Sarvis	5.0 - 6.0	?
<i>Aralia spinosa</i>	Devils Walking Stick	6.0 - 7.0	
<i>Aristolochia durior</i>	Dutchman's Pipe	6.0 - 8.0	
<i>Aronia arbutifolia</i>	Chokeberry	5.0 - 6.0	
<i>Aronia melanocarpa</i>	Chokeberry	5.0 - 6.0	
<i>Asimina triloba</i>	Paw Paw	6.0 - 7.5	
<i>Baccharis halimifolia</i>	Baccharis	7.0 - 8.0	
<i>Berberis julianae</i>	Barberry, Wintergreen	6.0 - 7.5	
<i>Berberis thunbergii</i>	Barberry	6.0 - 7.5	Low
<i>Betula alba</i>	Birch, White	5.5 - 6.5	
<i>Betula aleghaniensis</i>	Birch, Yellow	5.0 - 7.0	
<i>Betula lenta</i>	Birch, Black	5.0 - 6.0	
<i>Betula nigra</i>	Birch, River	4.5 - 6.0	
<i>Betula pendula</i>	Birch, Weeping	5.5 - 7.0	
<i>Betula spp.</i>	Birch	*5.0 - 6.0	Low-Medium
<i>Buddleia davidii</i>	Butterfly Bush	6.0 - 7.5	?
<i>Buxus sempervirens</i>	Boxwood	6.0 - 7.5*	Medium
<i>Callicarpa americana</i>	American beauty berry	6.0 - 8.0	

<i>Callistemon macropunctatus</i>	Callistemon	6.0 - 7.5	
<i>Calluna vulgaris</i>	Skotch broom	4.5 - 6.0	
<i>Calycanthus floridus</i>	Sweetshrub	6.0 - 7.0	
<i>Camellia</i> spp.	Camellia	4.5 - 5.5	
<i>Campsis grandiflora</i>	Trumpet Vine	6.0 - 7.0	
<i>Carpinus caroliniana</i>	Hornbeam, American	6.0 - 7.0	Low
<i>Carpinus caroliniana</i>	Ironwood	6.0 - 7.0	Low
<i>Carya illinoensis</i>	Pecan	4.5 - 7.5	
<i>Carya</i> spp.	Hickory	4.5 - 5.5	
<i>Castanea dentata</i>	Chestnut, American	5.0 - 6.0	
<i>Castanea pumila</i>	Chinquapin	5.0 - 6.5	
<i>Catalpa bignonioides</i>	Catalpa, Southern	6.0 - 8.0	
<i>Ceanothus americanus</i>	Buttonbush	4.5 - 6.0	
<i>Celastrus scandens</i>	Bittersweet	5.0 - 6.0	
<i>Celtis laevigata</i>	Sugar Hackberry	7.0 - 8.0	
<i>Celtis occidentalis</i>	Hackberry	5.0 - 7.5	
<i>Cephalanthus occidentalis</i>	Buttonbush	6.0 - 7.5	
<i>Cercis canadensis</i>	Redbud	*5.5 - 6.5*	Low-Med
<i>Chaenomeles lagenaria</i>	Quince, Flowering	6.0 - 7.5	
<i>Chaenomeles speciosa</i>	Quince, Flowering	6.0 - 7.5	High
<i>Chamaecyparis obtusa</i>	Hinoki Falsecypress	5.5 - 6.0	
<i>Chamaecyparis pisifera</i>	Mophead cypress	6.0 - 7.0	
<i>Chamaecyparis thyoides</i>	Cedar, Atlantic White	3.5 - 5.5	
<i>Chionanthus virginicus</i>	Fringetree, White	5.0 - 6.0	
<i>Cladrastis lutea</i>	Yellowwood	*5.0 - 6.5	?
<i>Clethra alnifolia</i>	Clethra	4.5 - 5.0	
<i>Cleyera japonica</i>	Cleyera	5.0 - 6.5	
<i>Cornus florida</i>	Dogwood	*5.0 - 6.5	Low
<i>Cornus mas</i>	Cornelian Cherry	6.5 - 7.0	
<i>Cornus sericea</i> 'Flaviramea'	Dogwood, Golden Twig	6.0 - 7.0	
<i>Corylus</i> spp.	Filbert, Hazelnut	5.5 - 6.5	
<i>Cotinus obovatus</i>	American Smoke Tree	6.0 - 8.0	
<i>Cotoneaster</i> spp.	Cotoneaster	6.0 - 7.0	High
<i>Crataegus</i> spp.	Hawthorn	6.0 - 7.0	Medium
x <i>Cupressocyparis leylandii</i>	Leyland Cypress	6.0 - 7.5	
<i>Cyrilla racemiflora</i>	Cyrilla	6.0 - 8.0	
<i>Daphne</i> spp.	Daphne	6.0 - 7.0	
<i>Deutzia gracilis</i>	Deutzia	6.0 - 7.0*	Low-Medium
<i>Diospyros virginiana</i>	Persimmon	4.5 - 7.0	
<i>Elaeagnus</i> spp.	Elaeagnus	6.0 - 8.0	
<i>Enkianthus campanulatus</i>	Enkianthus, Redvein	6.0 - 7.0	
<i>Eucalyptus</i> spp.	Eucalyptus	6.0 - 8.0	
<i>Euonymus alatus</i>	Euonymus, Burning Bush	*6.0 - 7.0	Low
<i>Euonymus fortunei</i>	Euonymus, Creeping	*6.0 - 7.0	Med - High
<i>Exochorda racemosa</i>	Pearl bush	5.5 - 6.0	

<i>Fagus grandifolia</i>	Beech, American	5.5 - 6.5	
<i>Fagus sylvatica</i>	Beech, European	*5.5 - 7.5	Low-medium
<i>Forsythia x intermedia</i>	Forsythia	6.0 - 7.0	High
<i>Fothergilla gardenii</i>	Fothergilla	5.0 - 6.5	
<i>Franklinia alatamaha</i>	Franklin Tree	4.0 - 6.0	
<i>Fraxinus americana</i>	Ash, White	6.5 - 7.5	
<i>Fraxinus americana</i>	White Ash	4.5 - 7.5	
<i>Fraxinus pennsylvanica</i>	Ash, Green	*6.0 - 7.0*	Medium
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine	4.5 - 6.0	
<i>Gardenia radicans</i>	Gardenia, Creeping	5.0 - 6.0	Medium
<i>Gelsemium sempervirens</i>	Gelsemium	5.0 - 6.0	
<i>Ginkgo biloba</i>	Ginkgo	6.0 - 7.0	High
<i>Gleditsia triacanthos</i>	Honeylocust	5.5 - 7.0*	Med - High
<i>Gymnocladus dioicus</i>	Kentucky Coffeetree	6.0 - 8.0	
<i>Halesia caroliniana</i>	Carolina Silverbell	5.5 - 6.5	
<i>Hammamelis vernalis</i>	Witch Hazel	6.0 - 7.0	
<i>Hammamelis virginiana</i>	Witch Hazel	6.0 - 7.0	
<i>Hedera helix</i>	Ivy, English	6.0 - 7.0	Med - High
<i>Hibiscus syriacus</i>	Althea (Rose-of-Sharon)	6.0 - 7.5	High
<i>Hibiscus syriacus</i>	Althea, Rose-of-Sharon	6.0 - 7.5	
<i>Hydrangea arborescens</i>	Hydrangea	6.0 - 8.0	
<i>Hydrangea macrophylla</i>	Hydrangea (for blue flower)	4.5 - 5.5	Medium
<i>Hydrangea macrophylla</i>	Hydrangea (for pink flower)	6.0 - 7.0	Medium
<i>Hydrangea paniculata</i> 'Grandiflora'	Hydrangea, PeeGee	6.0 - 7.0	
<i>Hydrangea quercifolia</i>	Hydrangea, oak leaf	5.5 - 6.0	
<i>Hypericum prolificum</i>	St. Johnswort	6.0 - 7.0	
<i>Ilex aquifolium</i>	Holly, English	5.5 - 6.0	
<i>Ilex attenuata</i> 'Fosteri'	Holly, Foster #2	5.5 - 6.0	
<i>Ilex crenata</i> & varieties	Holly, Japanese	5.0 - 6.5	Med - High
<i>Ilex glabra</i>	Inkberry	5.5 - 6.0	
<i>Ilex opaca</i>	Holly, American	4.0 - 6.0	Medium
<i>Ilex verticillata</i>	Winterberry holly	5.0 - 6.0	
<i>Itea virginica</i>	Itea	5.5 - 7.0	
<i>Jasminum nudiflorum</i>	Winter Jasmine	6.0 - 7.0	
<i>Juglans nigra</i>	Walnut, Black	5.0 - 7.5	
<i>Juglans</i> spp.	Walnut	6.0 - 7.0	Low
<i>Juniperus horizontalis</i>	Juniper, Creeping	5.5 - 6.5	Medium
<i>Juniperus</i> spp.	Juniper	5.5 - 7.0	Med - High
<i>Juniperus virginiana</i>	Cedar, Eastern Red	5.0 - 7.0*	Medium
<i>Kalmia latifolia</i>	Laurel, Mountain	4.5 - 6.5	
<i>Kerria japonica</i>	Kerria	5.5 - 7.5	
<i>Koelreuteria paniculata</i>	Golden Raintree	5.5 - 7.0	
<i>Kolkwitzia amabilis</i>	Beautybush	6.0 - 7.0	
<i>Laburnum x wateri</i>	Goldenchain Tree	6.5 - 7.5	

<i>Lagerstroemia indica</i>	Crapemyrtle	5.0 - 6.0	Medium
<i>Larix decidua</i>	Larch, European	5.5 - 6.5*	Low
<i>Leucothoe fontanesiana</i>	Leucothoe	5.0 - 6.0	Low
<i>Ligustrum lucidum</i>	Privet, Glossy	6.0 - 7.0	Med - High
<i>Ligustrum vulgare</i>	Privet, Common	6.0 - 7.0	Med - High
<i>Lindera benzoin</i>	Spicebush	5.0 - 6.0	
<i>Liquidambar styraciflua</i>	Sweet Gum	*6.0 - 7.0	High
<i>Liriodendron tulipifera</i>	Tulip Poplar	*6.0 - 7.0	Medium
<i>Lonicera</i> spp.	Honeysuckle	6.0 - 7.0	Med - High
<i>Maclura pomifera</i>	Osage Orange	6.0 - 7.5	
<i>Magnolia acuminata</i>	Magnolia, Cucumber tree	5.0 - 6.0	
<i>Magnolia grandiflora</i>	Magnolia, Southern	5.0 - 6.0	Low
<i>Magnolia loebner</i> 'Merrill'	Merill magnolia	6.0 - 7.0	
<i>Magnolia stellata</i>	Magnolia, Star	5.0 - 6.0	
<i>Magnolia virginiana</i>	Sweetbay	4.0 - 5.0	
<i>Magnolia x Soulangeana</i>	Magnolia, Deciduous	*5.0 - 6.0*	
<i>Mahonia aquifolium</i>	Holly-grape	5.5 - 6.0*	Medium
<i>Malus prunifolia</i>	Crabapple, Prum-leaved	6.0 - 7.0	Medium
<i>Malus pumila</i>	Apple, Common	6.0 - 7.0	Medium
<i>Malus</i> spp.	Crabapple, Flowering	6.0 - 7.0	
<i>Metasequoia glyptostroboides</i>	Dawn Redwood	6.0 - 7.0	
<i>Morus</i> spp.	Mulberry	6.0 - 7.0*	High
<i>Myrica pennsylvanica</i>	Bayberry	5.0 - 6.0	
<i>Nandina domestica</i>	Nandina	5.5 - 6.5	High
<i>Nyssa aquatica</i>	Water Tupelo	3.5 - 5.5	
<i>Nyssa sylvatica</i>	Black Gum	*6.0 - 7.0	Medium
<i>Ostrya virginiana</i>	Hophornbeam	6.0 - 7.0	
<i>Oxydendrum arboreum</i>	Sourwood	*4.5 - 6.0	
<i>Pachysandra terminalis</i>	Pachysandra	4.5 - 5.5	
<i>Parthenocissus tricuspidata</i>	Ivy, Boston	6.0 - 7.0	
<i>Paulownia tomentosa</i>	Paulownia	6.0 - 7.5	
<i>Philadelphus coronarius</i>	Mockorange	6.0 - 7.0	High
<i>Photinia x fraseri</i>	Photinia	5.5 - 6.5	
<i>Physocarpus opulifolius</i>	Common Ninebark	6.0 - 8.0	
<i>Picea abies</i>	Spruce, Norway	*5.0 - 6.5	Medium
<i>Picea glauca</i>	Spruce, White	5.5 - 6.5	
<i>Picea pungens</i>	Spruce, Colorado	5.5 - 6.5	
<i>Picea rubens</i>	Spruce, Red	4.0 - 5.5	
<i>Pieris floribunda</i>	Andromeda, Mountain	4.5 - 6.0	
<i>Pieris japonica</i>	Andromeda	5.0 - 6.0	Low
<i>Pinus echinata</i>	Pine, Shortleaf	4.5 - 6.0	
<i>Pinus elliotii</i>	Pine, Slash	4.5 - 6.0	
<i>Pinus mugo</i>	Pine, Mugo	5.5 - 7.0	
<i>Pinus palustris</i>	Pine, Longleaf	4.5 - 6.0	
<i>Pinus resinosa</i>	Pine, Red	5.0 - 6.0	

<i>Pinus rigida</i>	Pine, Pitch	3.5 - 6.0	
<i>Pinus</i> spp.	Pine	*5.0 - 6.5	Low
<i>Pinus strobus</i>	Pine, Eastern White	4.5 - 6.0	
<i>Pinus sylvestris</i>	Pine, Scotch	4.5 - 7.0	
<i>Pinus taeda</i>	Pine, Loblolly	4.5 - 6.0	
<i>Pinus virginiana</i>	Pine, Virginia	4.5 - 8.0	
<i>Platanus occidentalis</i>	Sycamore, American	4.5 - 7.5	
<i>Poncirus trifoliata</i>	Trifoliata Orange	6.0 - 8.0	
<i>Populus alba</i> & others	Poplar (White, Grey, Silver)	6.0 - 7.0*	High
<i>Populus deltoids</i>	Cottonwood	5.5 - 7.0	Medium
<i>Populus nigra</i> 'Italica'	Poplar, Lombardy	6.0 - 7.0	Low
<i>Prunus americana</i>	Plum	6.5 - 8.0	
<i>Prunus armeniaca</i>	Apricot	6.0 - 7.0	High
<i>Prunus avium</i>	Cherry	6.5 - 7.5	
<i>Prunus cerasifera</i>	Plum, Purple-leaf Flowering	*6.5 - 7.5	
<i>Prunus glandulosa</i>	Almond, Flowering Dwarf	6.0 - 7.0	
<i>Prunus pennsylvanica</i>	Cherry, Fire	5.0 - 6.0	
<i>Prunus persica</i>	Peach	6.5 - 7.0	
<i>Prunus serotina</i>	Cherry, Black	4.5 - 6.5	
<i>Prunus serrulata</i>	Cherry, Flowering	5.0 - 7.0*	Medium
<i>Prunus triloba</i>	Almond, Flowering	6.0 - 7.0*	Low
<i>Pseudotsuga menziesii</i>	Fir, Douglas	6.0 - 7.0	
<i>Pyracantha coccinea</i>	Firethorn	6.0 - 7.0	Medium
<i>Pyrus calleryana</i>	Callery Pear, Bradford Pear	5.5 - 7.0*	High
<i>Pyrus communis</i>	Pear, Common	6.0 - 7.5	
<i>Quercus alba</i>	Oak, White	5.5 - 6.5*	Med - High
<i>Quercus bicolor</i>	Oak, Swamp white	6.5 - 7.5	
<i>Quercus coccinea</i>	Oak, Scarlet	6.0 - 7.0	High
<i>Quercus falcata</i> var. <i>falcata</i>	Oak, Southern Red	5.0 - 6.0	
<i>Quercus ilicifolia</i>	Oak, Bear	4.0 - 5.0	
<i>Quercus laevis</i>	Oak, Turkey	6.0 - 8.0	
<i>Quercus laurifolia</i>	Oak, Laurel	3.5 - 6.0	
<i>Quercus macrocarpa</i>	Oak, Bur	5.0 - 6.0	
<i>Quercus marilandica</i>	Oak	5.0 - 6.0	
<i>Quercus nigra</i>	Oak, Water	3.5 - 6.5	
<i>Quercus palustris</i>	Oak, Pin	5.0 - 6.5	Med - High
<i>Quercus phellos</i>	Oak, Willow	3.5 - 6.5	
<i>Quercus prinus</i>	Oak, Chestnut	5.0 - 6.0	
<i>Quercus robur</i>	Oak, English	6.0 - 7.5	
<i>Quercus rubra</i>	Oak, Red	*6.0 - 7.0	High
<i>Quercus shumardii</i>	Oak, Shumard	5.5 - 7.0	
<i>Quercus stellata</i>	Oak, Post	5.0 - 6.0	
<i>Quercus velutina</i>	Oak, Black	6.0 - 7.0	
<i>Quercus virginiana</i>	Oak, Live	6.0 - 7.5	
<i>Quercus virginiana</i>	Oak, Live	5.0 - 6.0	

Rhamnus spp.	Buckthorn	6.0 - 8.0	
Rhododendron carolinianum	Rhododendron, Carolina	*4.5 - 5.5 *	
Rhododendron catawbiense	Rhododendron, Mountain	5.0 - 6.0	
Rhododendron maximum	Rhododendron	4.5 - 6.0	
Rhododendron obtusum, cvs.	Azalea	*4.5 - 5.5*	Low
Rhododendron periclymenoides	Rhododendron	4.5 - 5.5	
Rhododendron viscosum	Rhododendron	4.5 - 5.0	
Rhus aromatica	Sumac	6.0 - 7.0	
Rhus copallina	Sumac, Shining	5.0 - 6.5	
Rhus typhina	Sumac	5.0 - 6.0	
Ribes spp.	Currant	6.0 - 7.0	
Robinia pseudoacacia	Locust	*6.0 - 7.0	High
Rosa hybrids	Rose, Tea	5.5 - 7.0	Low - Med
Rosa rugosa	Rose, Rugosa	6.0 - 7.0	High
Rubis occidentalis	Raspberry, black or red	6.0 - 7.0	
Salix alba	Willow, White	5.5 - 7.0	
Salix alba 'Vitellina'	Willow, Golden	*6.0 - 7.0	Medium
Salix babylonica	Willow, Weeping	5.0 - 6.0	
Salix nigra	Willow, Black	4.5 - 7.5	
Salix spp.	Willow	*6.0 - 7.0	High
Sambucus canadensis	American Elder	6.0 - 8.0	
Sassafras albidum	Sassafras	4.5 - 7.0	
Sechora japonica	Chinese Scholar Tree	6.0 - 7.0	
Smilax lanceolata	Greenbriar	5.0 - 6.0	
Sophora japonica	Japanese Pagodatree	6.0 - 8.0	
Sorbus americana	Ash, American Mountain	5.0 - 7.0	
Sorbus aucuparia	Ash, European Mountain	6.0 - 7.0	
Spirea thunbergi	Spirea	6.0 - 7.0	Low
Spirea x vanhouttei	Spirea, Vanhoutte	6.0 - 7.0	
Staphylea trifolia	American Bladdernut	6.0 - 8.0	
Stewartia malacodendron	Stewartia	5.0 - 6.0	
Styrax americana	Styrax	5.0 - 6.0	
Styrax japonicus	Japanese Snowbell	5.5 - 6.5	
Symphoricarpos albus	Japanese Snowberry	6.0 - 7.0	
Syringa vulgaris	Lilac, Persian	6.0 - 7.0*	Medium
Syringa vulgaris	Lilac, Common	6.5 - 7.5	
Syringa x persica	Lilac, Persian	6.0 - 7.5	
Tamarix pentandra	Tamarix	6.0 - 7.0	High
Taxodium distichum	Cypress, Bald	5.0 - 6.5*	Low
Taxus spp.	Yew	6.0 - 7.0	Medium
Thuja occidentalis	Arborvitae	6.0 - 7.0*	Medium
Tilia spp.	Linden	6.0 - 7.5	Low
Tsuga canadensis	Hemlock, Canada	*5.0 - 6.0	Medium
Tsuga caroliniana	Hemlock, Carolina	5.0 - 6.0	
Ulmus americana	Elm, American	6.0 - 7.0	

<i>Ulmus parvifolia</i>	Elm, Chinese	6.0 - 7.0*	High
<i>Vaccinium</i> spp.	Huckleberry	5.0 - 5.5	
<i>Viburnum acerifolium</i>	Viburnum, Maple-leaf	4.5 - 5.5	
<i>Viburnum nudum</i>	Witherrod	5.0 - 6.0	
<i>Viburnum opulus</i>	Cranberrybush Viburnum	6.5 - 7.5	
<i>Viburnum plicatum</i>	Viburnum, Doublefile	6.0 - 7.5	Low
<i>Vinca minor</i>	Vinca	6.0 - 7.5	
<i>Vitex agnus-castus</i>	Vitex (Chaste-Tree)	6.0 - 7.0	Low
<i>Weigela florida</i>	Weigela (Beautybush)	6.0 - 7.0	Medium
<i>Wisteria floribunda</i>	Wisteria, Japanese	6.0 - 7.0*	
<i>Yucca filamentosa</i>	Yucca	5.5 - 7.0	
<i>Zelkova serrata</i>	Zelkova	5.5 - 6.5	
Annuals & Perennials			
<i>Aconitum nappelus</i>	Aconite	5.0 - 6.0	
<i>Adonis vernalis</i>	Adonis	6.0 - 8.0	
	Aechmea	5.0 - 5.5	
	African Violet	6.0 - 7.0	
	Ageratum	6.0 - 7.5	
	Aglaonema	5.0 - 6.0	
<i>Aster alpinas</i>	Alpine Aster	5.5 - 7.0	
	Alyssum	6.0 - 7.5	
	Amaryllis	5.5 - 6.5	
<i>Brunnera myosotidiflora</i>	Anchusa	6.0 - 7.5	
<i>Anemone pulsatilla</i>	Anemone	6.0 - 8.0	
	Anthurium	5.0 - 6.0	
	Araucaria	5.0 - 6.0	
	Asparagus Fern	6.0 - 8.0	
	Aspidistra	4.0 - 5.5	
	Aster	6.5 - 7.0	
<i>Aubrieta deltoidea</i>	Aubrieta	6.0 - 7.5	
<i>Geum chiloense</i>	Avens	6.0 - 7.5	
	Baby Tears	5.0 - 5.5	
<i>Gypsophillia paniculata</i>	Baby's Breath	6.0 - 8.0	
	Bachelor's Button	6.0 - 7.5	
<i>Platycodon grandiflorum</i>	Balloon Flower	5.0 - 6.0	
	Balsam	6.0 - 7.5	
	Balsam (Touch-Me-Not)	6.5 - 7.0	
<i>Monarda didyma</i>	Bee Balm	6.0 - 7.5	
	Begonia	5.5 - 7.5	
	Billbergia	5.0 - 6.0	
	Bird of Paradise	6.0 - 6.5	
	Bird's Nest Fern	5.0 - 5.5	

Rudbeckia hirta	Black-eyed Susan	5.5 – 7.0	
Liatris scariosa	Blazing Star	5.0 – 6.0	
	Bloodleaf	5.5 – 6.5	
Sanguinaria canadensis	Bloodroot	5.0 – 6.5	
Asclepias tuberosa	Butterfly Weed	5.0 – 6.5	
	Cactus	4.5 – 6.0	
	Caladium	6.0 – 7.5	
	Caladium	6.0 – 7.0	
	Calla Lily	6.0 – 7.0	
	Campanula	5.5 – 6.5	
	Candytuft	6.5 – 7.0	
	Canna	6.0 – 7.0	
Campanula medium	Canterbury Bells	6.0 – 7.5	
Lobelia cardinalis	Cardinal Flower	5.0 – 6.0	
Lobelia cardinalis	Cardinal Flower	5.0 – 6.0	
	Carnation	6.0 – 7.5	
Dianthus caryophyllus	Carnation	6.0 – 7.5	
	Celosia	6.0 – 7.5	
	Christmas Cactus	5.0 – 6.5	
	Chrysanthemum	6.0 – 8.0	
	Cineraria	5.5 – 7.5	
	Cissus	5.0 – 6.0	
Clematis crispa	Clematis, Curly	5.5 – 6.5	
Clematis spp.	Clematis	6.0 - 7.0	
Clematis x jackmanii	Clematis, Virgin's Bower	6.0 – 7.0	
	Clerodendron	5.0 – 6.0	
	Clivia	5.5 – 6.5	
	Clover – White	5.5 – 7.0	
	Cockscomb	6.0 – 7.5	
	Coleus	6.0 – 7.5	
Aquilegia caerulea	Colorado Columbine	6.0 – 7.0	
	Columnnea	4.5 – 5.5	
Centaurea cyanus	Cornflower	6.0 – 7.5	
	Cosmos	6.5 – 7.0	
	Crassula	5.0 – 6.0	
	Creeping Fig	5.0 – 6.0	
	Crocus	6.0 – 8.0	
	Croton	5.0 – 6.0	
	Crown of Thorns	6.0 – 7.5	
	Cyclamen	6.0 – 7.0	
	Daffodil	6.0 – 7.5	
	Dahlia	6.5 – 7.0	
	Daphne	6.5 – 7.5	

	Day Lily	6.0 – 8.0	
<i>Delphinium grandiflorum</i>	Delphinium	6.0 – 7.5	
	Dieffenbachia	5.0 – 6.0	
	Dracaena	5.0 – 6.0	
<i>Iris pumila</i>	Dwarf Iris	5.5 – 6.5	
	Easter Lily	6.0 – 7.5	
<i>Aquilegia canadensis</i>	Eastern Columbine	5.5 – 7.0	
<i>Leontopodium alpinum</i>	Edelweiss	6.5 – 7.5	
<i>Primula vulgaris</i>	English Primrose	5.5 – 6.5	
	Episcia	6.0 – 7.0	
<i>Astilbe x arendsii</i>	False Spirea	6.0 – 7.5	
	Ferns	4.5 – 6.5	
<i>Festuca ovina</i>	Fescue, Sheep's	4.5 – 6.0	
	Fittonia	5.5 – 6.5	
	Four-o-Clock	6.0 – 7.5	
	Foxglove	6.5 – 7.0	
	Freesia	6.0 – 7.5	
<i>Dicentra eximia</i>	Fringed Bleeding Heart	5.0 – 6.0	
	Fuchsia	5.5 – 6.5	
	Gardenia	5.0 – 6.0	
	Geranium	6.0 – 8.0	
<i>Iris germanica</i>	German Iris	6.5 – 7.5	
	Gladiolus	6.5 – 7.0	
	Gloxinia	5.5 – 6.5	
<i>Aquilegia chrysantha</i>	Golden Columbine	6.0 – 7.0	
<i>Alyssum saxatile</i>	Goldentuft	5.5 – 6.5	
	Grape Ivy	5.0 – 6.5	
<i>Lobelia syphilitica</i>	Great Blue Lobelia	6.0 – 8.0	
<i>Lobelia syphilitica</i>	Great Blue Lobelia	6.0 – 8.0	
	Grivillea	5.5 – 6.5	
	Gynura	5.5 – 6.5	
<i>Gypsophillia repens</i>	Gypsopillia	6.0 – 8.0	
<i>Helleborus niger</i>	Hellebore	6.0 – 8.0	
	Helxine	5.0 – 6.0	
<i>Sempervivum tectorum</i>	Hen-and-Chicks	6.0 – 8.0	
	Hibiscus	6.0 – 8.0	
	Hollyhock	6.0 – 8.0	
<i>Viola cornuta</i>	Horned Violet	5.5 – 7.5	
	Hoya	5.0 – 6.5	
	Hyacinth	6.5 – 7.5	
	Hydrangea – Blue	4.0 – 5.0	
	Hydrangea – Pink	6.0 – 7.0	
	Hydrangea – White	6.0 – 8.0	

	Impatiens	5.5 – 6.5	
	Iresine	5.0 – 6.5	
	Iris	6.5 – 7.0	
	Ivy	6.0 – 7.0	
Anemone japonica	Japanese Anemone	6.0 – 8.0	
Aquilegia flabellate	Japanese Columbine	5.5 – 6.5	
Iris kaempferi	Japanese Iris	5.5 – 6.5	
	Jerusalem Cherry	5.5 – 6.5	
Pueraria lobata	Kudzu	5.5 - 7.0	
	Larkspur	6.5 – 7.0	
	Lemon plant	6.0 – 7.5	
	Lily-of-the-Valley	4.5 – 6.0	
	Lobelia	6.0 – 7.5	
	Lupine	6.5 – 7.0	
	Lupine	6.5 – 7.0	
Lupinus polyphyllus	Lupine	6.5 – 7.5	
Miscanthus sinensis	Maiden Grass	6.0 – 7.0	
Dianthus deltoides	Maiden Pink	6.5 – 7.5	
	Maidenhair Fern	6.0 – 8.0	
Lychnis chalconica	Maltes Cross	6.0 – 7.5	
	Maranta	5.0 – 6.0	
	Marigold	6.0 – 7.5	
	Monstera	5.0 – 6.0	
Phlox subulata	Moss Pink	6.0 – 8.0	
Centuarea Montana	Mountain Bluet	6.0 – 7.5	
	Narcissus	6.0 – 7.5	
	Nasturtium	6.5 – 7.0	
	Neomarica	5.5 – 6.5	
	Nephtytis	4.5 – 5.5	
Aster novae-angliae	New England Aster	6.0 – 8.0	
Aster novae-belgii	New York Aster	5.0 – 7.5	
Dicentra spectabilis	Old Fashioned Bleeding Heart	6.0 – 7.5	
	Oleander	6.0 – 7.5	
	Orange Plant	6.0 – 7.5	
	Orchid	4.5 – 5.5	
Papaver oriental	Oriental Poppy	6.0 – 7.5	
	Oxalis	6.0 – 8.0	
	Palms	6.0 – 7.5	
	Pandanus	5.0 – 6.0	
	Pansy	6.5 – 7.0	
	Passion Vine	6.0 – 7.0	
	Peperomia	5.0 – 6.0	
Iberis sempervirens	Perennial Candytuft	5.5 – 7.0	

	Periwinkle	6.5 – 7.0	
<i>Aethionema cordifolium</i>	Persian Candytuft	5.5 – 7.0	
	Petunia	6.0 – 7.5	
	Philodendron	5.0 – 6.0	
	Phlox	5.0 – 7.0	
<i>Phlox paniculata</i>	Phlox	6.5 - 7.0	
<i>Phlox peniculata</i>	Phlox, Summer Perennial	6.0 – 8.0	
<i>Hosta plantaginea</i>	Plaintain Lily	6.0 – 7.5	
	Plumbago	5.5 – 6.5	
	Poinsettia	6.0 – 7.5	
	Pole Beans	5.5 – 6.7	
	Poppy	6.5 – 7.0	
	Portulaca	5.5 – 7.5	
	Pothos	5.0 – 6.0	
<i>Primula auricula</i>	Primrose	6.0 – 8.0	
<i>Primula polyantha</i>	Primrose	5.5 – 7.0	
	Pumpkin	5.0 – 6.8	
<i>Echinacea purpurea</i>	Purple Cone Flower	5.0 – 7.5	
	Redtop	5.0 – 7.5	
	Roses	6.0 – 7.0	
<i>Gentiana Machinol</i>	Royal Blue Gentian	3.4 – 3.7	
	Salvia	6.0 – 7.5	
	Shasta Daisy	6.0 – 8.0	
	Snapdragon	6.0 – 7.5	
	Snapdragon	6.0 – 7.5	
<i>Veronica rupestris</i>	Speedwell	5.5 – 7.5	
<i>Veronica spicata</i>	Speedwell	5.0 – 6.0	
	Sweet Alyssum	6.5 – 7.0	
<i>Viola odorata</i>	Sweet Violet	6.0 – 7.5	
	Sweet William	6.5 – 7.0	
<i>Phlox divaricata</i>	Sweet William, Wild	5.0 – 6.5	
	Sweetpea	6.5 – 7.0	
<i>Hemerocallis fulva</i>	Tawny Day Lily	6.0 – 8.0	
<i>Coreopsis verticillata</i>	Threadleaf Tickseed	5.0 – 6.0	
	Tomatoes	5.5 – 6.7	
	Tuberose	6.0 – 7.0	
	Tulip	6.0 – 7.0	
<i>Chelone glabra</i>	Turtlehead	5.0 – 6.0	
	Verbena	6.0 – 8.0	
<i>Cheiranthus cheiri</i>	Wallflower	6.0 – 8.0	
	Watermelon	4.8 – 5.4	
<i>Anthemis tinctoria</i>	Yellow Camomile	6.0 – 8.0	
	Zinnia	5.5 – 7.5	

Vegetables			
	Asparagus	6.0 – 6.7	
	Beets	6.0 – 6.7	
	Broccoli	6.0 – 6.8	
	Brussel Sprouts	5.5 – 6.7	
	Bush Beans	5.5 – 6.7	
	Bush Lima Beans	6.0 – 6.7	
	Cabbage	5.5 – 6.7	
	Cantaloupe	6.0 – 6.8	
	Carrots	5.2 – 6.7	
	Cauliflower	6.0 – 6.7	
	Chinese Cabbage	5.5 – 6.8	
	Cucumbers	5.5 – 6.7	
	Eggplant	5.0 – 6.8	
	Garlic Sets	5.5 – 6.7	
	Kale	5.0 – 6.8	
	Leek	6.0 – 6.8	
	Lettuce, Head	5.5 – 8.0	
	Lettuce, Leaf	5.5 – 8.0	
	Okra	6.0 – 6.8	
	Onions	5.5 – 6.7	
	Peas, English	5.5 – 6.7	
	Peas, Field	5.5 – 6.7	
	Peppers	5.5 – 7.0	
	Potatoes, Irish	4.8 – 5.4	
	Potatoes, Sweet	5.5 – 6.7	
	Radish	5.2 – 6.7	
	Rhubarb	5.0 – 7.0	
	Spinach	6.0 – 6.7	
	Squash, Summer	6.0 – 7.5	
	Squash, Winter	5.5 – 7.0	
	Sweet Corn	5.2 – 6.7	
	Turnips	5.2 – 6.7	

Turf Grasses			
	Bentgrasses	5.5 – 6.5	
	Bermudagrasses	5.0 – 7.0	
	Bluegrass – Canada	5.5 – 7.5	
	Bluegrass – Kentucky	6.0 – 7.5	
	Bluegrass – Roughstock	5.5 – 7.5	
	Bluegrass-Annual	5.0 – 7.5	
	Carpetgrass	4.5 – 7.0	
	Fescue – Chewings	5.5 – 7.5	
	Fescue – Creeping Red	5.5 – 7.5	
	Fescue – Tall	5.5 – 7.5	
	Ryegrass	5.5 – 8.0	
	Zoysia	4.5 – 7.5	

Adapted from: Cooperative Extension Service, College of Agriculture and Environmental Science, Rutgers University, The State University of New Jersey

Penn State Soil Test, Spurway, 1944

University of Missouri Columbia Extension Department of Horticulture

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Comm/Fertility/Desired pH Ranges List 8-09

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