

PLANTS THAT TOLERATE MOIST SOILS

Plants with an asterick (*) can be used in boggy soils (wet soil, not standing water). Plants without an asterick can be used for waterslide plantings (moist, not wet soil).

TREES

*Acer rubrum and cvs. Acer saccharinum
Alnus glutinosa
*Amelanchier spp. And cvs.
Carpinus betulus
Celtis occidentalis
Fraxinus Americana and cvs.
*Fraxinus Pennsylvania and cvs.
Gleditsia triacanthos inermis and cvs.
Gymnocladus dioicus
Larix kaempferi
*Liquidambar styraciflua and cvs.
Magnolia virginiana
*Metasequoia spp.
Nyssa sylvatica
Photinia villosa
Platanus acerifolia
*Populus spp. And cvs.
Quercus palustris
*Salix, most
*Taxodium distichum

SHRUBS

Andromeda polifolia
*Aronia arbutifolia
Aronia melanocarpa and cvs.
Calycanthus floridus
*Chionanthus virginicus
Chaenomeles spp.
Clethra alnifolia and cvs.
*Cornus alba and cvs.
*Cornus racemosa
*Cornus sericea and cvs.
*Cornus stolonifera and cvs.
Deutzia gracillia and cvs.
Hamamelis spp.
Ilex glabra
*Ilex verticillata and cvs.
*Itea virginica
Kalmia latifolia
Leucothoe spp.
Ligustrum spp.
*Lindera benzoin
Myrica pensylvanica
Rhododendrom maximum
*Salix purpurea and cvs.
*Salix x cottetii 'Bankers'
*Salix purpurea 'Streamco'
Salix p. 'Pendula'

SHRUBS CONTINUED

Salix sachalinensis 'Sekka'
Symphoricarpos x chenaultii 'Hancock'
Thuja occidentalis and cvs.
*Vaccinum Lo-Hugger
*Viburnum dentatum
*Viburnum lentago
Viburnum opulus and cvs.
*Viburnum prunifolium
Viburnum sargentii and cvs.
Viburnum trilobum and cvs.

FERNS, PERENNIALS AND GROUNDCOVERS

*Aegopodium podagraria 'Variegata'
Adiantum pedatum
*Ajuga reptans and cvs.
*Astilbe reptans and cvs.
Athyrium filix-femina
Athyrium thelypteroides
Ceratostigma plumbaginoides
Dennstaedtia punctilobula
Euonymus fortunei 'Coloratus'
*Hemerocallis spp.
*Hibiscus moscheutos
*Hosta spp.
*Houttuynia cordata 'Chameleon'
*Iris pseudacorus
Iris pallida 'Aureo Variegata'
*Iris pseudacorus
*Ligularia dentatum 'Othello'
*Ligularia stenocephala 'The Rocket'
Liriope spp.
*Lysimachia clethroides
Lythrum virgatum and cvs.
Matteucia pensylvanica
Monarda didyma and cvs.
Osmunda cinnamomea
*Physostegia virginiana 'Rosea'
Polygonum Reynoutria and cvs.
Vinca minor

ORNAMENTAL GRASSES

Arundo donax
Calamagrostis x acutifolia 'Karl Forester'
*Carex x 'The Beatles'
*Cortaderia

ORNAMENTAL GRASSES CONT.

*Miscanthus sinensis and cvs.
*Panicum virgatum and cvs.
Pennisetum alopecuroides and cvs.
*Phalaris arundinacea 'Picta'

PLANTS THAT TOLERATE DENSE SHADE

TREES

Acer campestre
Amelanchier spp.
Cercis canadensis
Chionanthus virginicus
Cornus florida and cvs.
Cornus kousa and cvs.
Magnolia virginiana

PERENNIALS, GROUND

COVERS AND VINES

Aegopodium podagraria 'Variegatum'
Ajuga spp. and cvs.
Aquilegia spp. and cvs.
Astilbe spp.
Celastrus scandens
Dicentra spp. And cvs.
Eouonymus fortunei and cvs.
Ferns
Hedera helix and cvs.
Hosta spp. And cvs.
Houttuynia calycinum
Hydrangea petiolaris
Hypericum calycinum
Microbiota decussata
Monarda didyma
Pachysandra terminalis and cvs.
Symphoricarpos x chenaultii 'Hancock'
Vinca minor and cvs.

SHRUBS

Acanthopanax sieboldiana
Arctostaphylos
Aronia spp.
Berberis spp.
Calycanthus floridus
Clethra alnifolia and cvs.
Comptonia peregrina
Cornus racemosa
Cornus serica and cvs.
Euonymus fortunei
Hamamelis and cvs.
Hydrangea quericifolia
Itea virginica
Kalmia latifolia and cvs.
Leucothoe spp.
Ligustrum spp.
Lindera benzoin
Lonicera, shrubby types
Mahonia aquifolium
Micorbiota decussata
Pieris spp.

SHRUBS CONTINUED

Pyracantha spp.
Rhamnus spp.
Rhododendron maximum
Rhodotypos scandens
Ribes alpinum and cvs.
Symphoricarpos spp.
Taxus and cvs.
Thuja occidentalis
Tsuga spp.
Viburnum, most

PLANTS THAT TOLERATE EXPOSED SITES

TREES

Acer Celebration
Acer ginnala and cvs.
Acer platanoides and cvs.
Acer rubrum and cvs.
Acer saccharum and cvs.
Amelanchier canadensis
Betula spp.
Carpinus betulus and cvs.
Celtis occidentalis
Crataegus spp.
Fagus sylvatica and cvs.
Gleditsia triacanthos inermis and cvs.
Picea abies
Pinus nigra
Pinus sylvestris
Populus tremula and cvs.
Quercus, most
Salix, most
Sorbus, most
Tilia spp. and cvs.

SHRUBS

Acanthopanax sieboldiana
Arctostaphylos uva-ursi
Aronia spp. and cvs.
Berberis thunbergii and cvs.
Calycanthus spp.
Cornus alba and cvs.
Cornus stolonifera and cvs.
Cotinus coggygria and cvs.
Cotoneaster, hardy types only
Euonymus spp. and cvs.
Hamamelis virginiana
Hippophae rhamnoides
Hydrangea paniculata 'Grandiflora'
Juniperus, most
Philadelphus spp. and cvs.
Spirea, most
Taxus, most

PLANTS TO USE AND PLANTS TO AVOID WHEN LANDSCAPING IN AREAS WITH DEER

LOW BROWSE RISK

TREES

Acer spp. and cvs.
Betula spp.
Carpinus spp.
Cercis canadensis
Cornus spp.
Crataegus spp.
Fagus spp.
Fraxinus spp.
Ginkgo biloba
Gleditsia tricanthos
Gymnocladus dioicus
Larix spp.
Liquidendron styraciflua
Liriodendron tulipifera
Magnolia spp.
Nyssa sylvatica
Picea spp.
Platanus spp.
Quercus spp.
Salix spp.
Taxodium distichum
Tilia spp.
Ulmus spp.
Zelkova spp.

SHRUBS

Aronia arbutifolia
Berberis spp.
Buxus spp.
Caryopteris spp.
Chaenomeles spp.
Clethrea spp.
Cotoneaster
Cotinus spp.
Cytisus
Forsythia spp.
Hamamelis spp.
Hydrangea spp.
Hypericum spp.
Ilex glabra
Juniperus - most
Kerria japonica
Kolkwitzia arnabilis
Leucothoe fontanesiana
Ligustrum spp.
Lindera benzoin
Lonicera spp.
Mahonia aquilifolium
Myrica pensylvanica
Philadelphus spp.
Pinus mugo
Pieris japonica
Potentilla spp.
Pyracantha spp.
Spirea spp.
Symphoricarpos spp.
Syringa spp.
Viburnum spp. - most
Weigela spp.

PERENNIAL & VINES

Achillea spp.
Ajuga
Alchemilla spp.
Aquilegia spp.
Armeria martima
Artemesia spp.
Astilbe spp.
Campsis radicans
Celastrus spp.
Chrysanthemum spp.
Clematis
Coreopsis spp.
Dicentra spp.
Echinacea spp.
Geranium sanguineum
Hydrangea petiolaris
Iris siberica
Lavendula spp.
Liatris spp.
Lonicera spp.
Monarda spp.
Paeonia spp.
Parthenocissus spp.
Panicum virgatum
Perovskia spp.
Rudbeckia spp.
Salvia spp.
Sedum spp.
Veronica spp.
Wisteria spp.

MODERATE BROWSE RISK

TREES

Abies spp.
Amelanchier spp.
Malus spp.
Pinus spp.
Prunus spp.
Pyrus spp.

SHRUBS

Chamaecyparis spp.
Cornus spp.
Elaeagnus angustifolia
Elaeagnus umbellata
Ilex spp.
Ilex verticillata
Juniperus horizontalis
Juniperus Virginiana

PLANTS TO USE AND PLANTS TO AVOID WHEN LANDSCAPING IN AREAS WITH DEER CONTINUED

HIGH BROWSE RISK

TREES

Morus alba
Tsuga spp.

SHRUBS

Euonymus spp.
Ilex crenata
Ilex x meserveae
Kalmia latifolia
Rhododendron spp.
Rosa spp.
Taxus spp.
Thuja spp.

PLANTS THAT TOLERATE POOR, DRY SOILS

TREES

Acer campestre
Acer ginnala
Acer saccharinum
Betula spp. and cvs.
Catalpa spp.
Celtis occidentalis
Corylus corlurna
Crataegus spp. and cvs.
Elaeagnus spp.
Eucommia ulmoides
Fraxinus spp.
Gleditsia triacanthos inermis and cvs.
Gymnocladus dioica
Koelreuteria paniculata
Pinus strobus
Ulmus parvifolia

GROUND COVERS

Aegopodium podagraria 'Variegata'
Hosta spp. and cvs.
Parthenocissus spp.
Sedum spp. and cvs.

PERENNIALS

Achillea spp. and cvs.
Aegopodium podagraria 'Variegata'
Coreopsis spp. and cvs.
Echinacea purpurea cvs.
Gaillardia spp. and cvs.
Geranium spp.
Hemerocallis cvs.
Iris spp. and cvs.
Lavendula angustifolia cvs.
Liatris spicata cvs.
Nepeta faassenii
Oenothera spp.
Perovskia atriplicifolia

PERENNIALS CONTINUED

Polygonum spp.
Rudbeckia fulgida speciosa 'Goldstrum'
Salvia spp.
Sedum spp. and cvs.

ORNAMENTAL GRASSES

Elymus arenaria
Festuca spp. and cvs.
Helictotrichon sempervirens
Miscanthus sinensis cvs.
Panicum virgatum cvs.
Pennisetum spp. and cvs.

SHRUBS

Acanthopanax sieboldiana
Aronia spp.
Berberis x mentorensis and cvs.
Berberis thunbergii and cvs.
Buddleia spp.
Caryopteris spp.
Chaenomeles spp. and cvs.
Cornus racemosa
Cotinus coggygria and cvs.
Cytisus spp. and cvs.
Elaeagnus angustifolia
Elaeagnus - titan
Hamamelis spp. and cvs.
Itea spp.
Juniperus spp.
Kerria japonica and cvs.
Kolkwitzia amabilis
Ligustrum spp. and cvs.
Myrica pensylvanica
Microbiota decussata
Potentilla spp. and cvs.
Rhamnus spp. and cvs.
Rhus, all
Ribes alpinum and cvs.

SHRUBS CONTINUED

Rosa rugosa and cvs.
Syringa reticulata
Symphoricarpos albus
Viburnum lentago and cvs.
Viburnum prunifolium
Yucca filamentosa and cvs.

AERIAL SALT TOLERANCE (SALT SPRAY) OF PLANTS

TREES

Acer campestre	T	I	
Celebration	T	I	
ginnala and cvs.		I	
palmatum and cvs.			S
platanoides and cvs.	T		
rubrum and cvs.			S
saccharinum		I	
saccharinum and cvs.		I	S
tataricum			S
Amelanchier spp. and cvs.	T	I	
Betula White-Barked spp. and cvs.	T		
Carpinus betulus 'Fastigiata'			S
carolina			S
Celtis occidentalis			S
Cercis canadensis and cvs.			S
Cornus alternifolia			S
florida and cvs.			S
kousa chinensis / cvs.			S
mas and cvs.			S
Corylus columa			S
Crataegus spp. and cvs.		I	S
Elaeagnus angustifolia	T		
Fagus sylvatica and cvs.	T		S
Fraxinus americana and cvs.	T		
excelsior 'Hessei'	T		
Fraxinus pennsylvanica and cvs.	T	I	
Fraxinus - Cimmarron	T		
Ginkgo biloba and cvs.	T		
Gleditsia triacanthos inermis / cvs.			
Gymnocladus dioicus	T		
Halesia monticola			S
Liquidambar styraciflua and cvs.		I	
Liriodendron tulipifera		I	
Malus spp. And cvs.			
Metasequoia glyptostroboides			S
Nyssa sylvatica	T		
Ostrya virginiana		I	
Picea spp. and cvs.		I	S
Pinus spp. and cvs.		I	S
Platanus spp. and cvs.			S
Populus spp., hybrids and cvs.	T		
Prunus, tree spp. and cvs.		I	S
Pyrus calleryana and cvs.		I	
Quercus spp.	T		S
Salix, tree spp. and cvs.	T	I	
Sorbus spp. and cvs.	T	I	
Taxodium distichum	T		
Tilia cordata and cvs.		I	
Tsugs spp.			S
Ulmus spp. and cvs.		I	

SHRUBS AND CONIFERS

Amelanchier canadensis and cvs.	T		
Aronia spp.	T		
Azalea, Evergreen Hybrids			S
Deciduous Hybrids			S
Berberis, most		I	S
Chaenomeles japonica and cvs.			S
Cornus, shrubby types			S
Corylus avellana 'Contorta'			S
Cotinus coggygria and cvs.			S
Cotoneaster divaricata	T		
low types	T		
Cytisus spp.	T		
Elaeagnus spp.	T		
Erica, most	T		
Euonymus alata and cvs.		I	
Forsythia x intermedia and cvs.		I	
Hamamelis spp.	T	I	
Hibiscus syriacus and cvs.	T		
Hydrangea spp. and cvs.	T		
Hypericum, most	T		
Iberis sempervirens and cvs.	T		
Ilex, broadleaf evergreen types		I	S
deciduous types	T		
Juniperus, low types		I	
taller types		I	
Kalmia latifolia and cvs.		I	S
Kolkwitzia amabilis			S
Leucothoe, most		I	
Ligustrum, most		I	
Lonicera, shrubby types		I	S
Magnolia, most	T		
Mahonia quifolium and cvs.		I	
Myrica pennsylvanica	T	I	
Philadelphus virginialis and cvs.	T	I	
Photinia villosa	T		
Physocarpus opulifolia		I	
Picea, dwarf to small types		I	S
Pinus mugo		I	
other small types	T		
Pinus sylvestris		I	
Potentilla, most	T		
Prunus x cistena	T		
Pyracantha, most			S
Rhamnus frangula	T	I	
Rhododendron, most			S
Rhodotypos scandens	T		
Rhus, most	T		
Ribes, alpinum and cvs.	T		
Rosa, shrubby types	T		
Salix, small shrubby types	T	I	

SALT TOLERANCE LEVELS T = TOLERANT I = INTERMEDIATE S = SENSITIVE

AERIAL SALT TOLERANCE (SALT SPRAY) OF PLANTS CONTINUED

SHRUBS AND CONIFERS

Shepherdia argenta	T
Spirea, most	I S
Symphoricarpos x chenaulti 'Hancock'	S
Syringa, French Hybrids	I
late blooming hybrids	I
Taxus, most	S
Thuja occidentalis and cvs.	I
Vaccinium corymbosum and cvs.	T I
Viburnum dentatum	T I
lantana and cvs.	S
lentago	I S
opulus and cvs.	I S
prunifolium and cvs.	S
trilobum and cvs.	I
Weigela florida and cvs.	I
Yucca filamentosa and cvs.	T

SALT TOLERANCE LEVELS

T = TOLERANT

I = INTERMEDIATE

S = SENSITIVE

The information given above is supplied with the understanding that variables exist within species making classification of salt tolerance a relative judgement. Also, data recorded from different climates or soil types may have questionable application in different areas. This list represents a compilation of reports published by various authorities on aerial salt tolerance (spray salt). Such a list should significantly assist the landscape planner in selecting plants with the highest degree of tolerance for areas exposed to salt and other pollutants. Sensitive specimens should be restricted to areas where salts are not a problem.

PLANTS WITH OUTSTANDING AUTUMN COLOR

TREES	COLORS	SHRUBS	COLORS
Acer most spp. and cvs.	red to yellow	Aronia spp.	red
Acer - Celebration	red to yellow	Azalea, some spp. hybrids	purple to maroon
Acer - Fireball	red	Berberis, most	red
Acer - Gingerbread	red, orange, gold	Calycanthus floridus	yellow
Acer - Medallion	red, gold	Chamaecyparis, var. cvs.	yellow / lime green
Amelanchier spp. and cvs.	red to yellow	Chionanthus virginicus	golden yellow
Betula, most spp. and cvs.	yellow	Clethra alnifolia and cvs.	pale yellow
Carpinus spp. and cvs.	yellow - orange	Cornus Geauga	mahogany, red
Celtis occidentalis	yellow	Cornus Muskinghum	brick red
Cercidiphyllum japonicum	orange to yellow	Cornus, some spp. And cvs.	red
Cercis canadensis and cvs.	yellow	Cotinus coggygaria and cvs.	yellow to red
Cornus, most spp. and cvs.	red	Cotoneaster some spp. and cvs.	red
Cornus Samaritan	pink, burgundy	Diervilla lonicera	red bronze
Crataegus spp. and cvs.	orange	Euonymus fortunei 'Coloratus' and cvs.	red purple
Fagus sylvatica and cvs.	golden bronze	Fothergilla gardenii and cvs.	
Fraxinus americana	yellow to maroon	Forsythia spp.	yellow to orange
Fraxinus pennsylvanica	yellow	Hamamelis spp.	purple
Fraxinus - Cimmaron	burgundy, red, org	Hydrangea quercifolia	golden yellow
Fraxinus - Sparticus	burgundy, bronze	Ilex, deciduous types	red
Ginkgo biloba and cvs.	yellow	Itea spp.	golden yellow
Gleditsia triacanthos inermis and cvs.	yellow	Juniperus, many spp. and cvs.	wine red
Gymnocladus dioicus	yellow	Ligustrum, most	purple
Koelreutria paniculata	yellow	Mahonia aquilifolium and cvs.	yellow to brown
Larix kaempferi	yellow	Microbiota decussata	purple
Liquidambar styraciflua and cvs	yellow to maroon	Myrica pensylvanica	bronze
Liquidambar - Gold Dust.	golden red	Rhamnus frangula 'Columnaris'	red
Liriodendron tulipifera	golden yellow	Rhus spp. And cvs.	yellow
Malus, most spp. and cvs.	yellow	Rosa, some spp. and cvs.	red
Malus - Brandywine	bronze/red	Spirea x b. 'Gold Flame'	yellow
Malus - Lancelot	golden yellow	Stephanandra l. 'Crispa'	crimson
Metasequoia glyptostrobodies	brown	Symphoricarpos x chenaultii 'Hancock'	red purple/orange brown
Myssa sylvatica	orange red	Thuja occidentalis 'Rheingold'	
Ostrya virginiana	golden yellow	Vaccinium Lo-Hugger	gold
Prunus, most spp. and cvs.	bronze red	Viburnum, most	burgundy, red purple to maroon
Prunus - Snow Fountain	golden bronze, red		
Pyrus calleryana and cvs.	red		
Pyrus Jack	burgundy, red		
Pyrus Valiant	burgundy, red		
Quercus rubra	red		
Salix, some spp. and cvs.	yellow		
Sorbus spp. and cvs.	yellow to red		
Tilia cordata and cvs.	yellow to red		
Ulmus spp. and cvs.	yellow		

PLANTS THAT TOLERATE HEAVY CLAY SOILS

TREES

Acer campestre
Acer rubrum and cvs.
Acer saccharinum
Betula nigra
Crataegus spp. and cvs.
Elaeagnus angustifolia
Eucommia ulmoides
Fraxinus pennsylvanica and cvs.
Gleditsia triacanthos inermis and cvs.
Koeleria paniculata
Liquidambar styraciflua and cvs.
Malus, most
Picea spp. and cvs.
Platanus x acerifolia 'Bloodgood'
Phellodendron amurense
Pyrus, most
Salix, most
Taxodium distichum
Ulmus spp. and cvs.

GROUND COVERS

Aegopodium podagraria 'Variegata'
Ajuga spp.
Euonymus fortunei 'Coloratus'
Grasses, ornamental
Hemerocallis, all
Hosta, all
Houttuynia cordata 'Chameleon'
Juniperus, low types
Lonicera japonica 'Halliana'
Lonicera xlyosteuum 'Emerald Mound'
Pachysandra terminalis and cvs.
Parthenocissus spp.

SHRUBS

Aralia spinosa
Aronia spp.
Berberis, most
Chaenomeles, most
Cornus, shrub types
Deutzia, most
Elaeagnus, most
Euonymus, most
Forsythia, most
Hamamelis spp.
Juniperus, most
Kolkwitzia amabilis
Ligustrum, most
Lonicera, shrubby types
Myrica pennsylvanica

SHRUBS CONTINUED

Pyracantha, most
Rhodotypos scandens
Rhus, most
Ribes alpinum and cvs.
Rosa rugosa
Salix, most
Spirea, most
Stephanandra incisa 'Crispa'
Symphoricarpos x c. 'Hancock'
Taxus, most
Thuja occidentalis and cvs.
Viburnum dentatum
Viburnum lentago
Viburnum opulus and cvs.
Viburnum prunifolium and cvs.
Viburnum sargentii and cvs.

POISONOUS PLANTS

The following plants are considered TOXIC (poisonous, possibly dangerous). These plants contain a wide variety of poisons and symptoms may vary from mild to fatal. Contact the local Poison Center for more specific information on these or other plants, that may not be on this list. Many other plants not listed here will cause Dermatitis.

Botanical Name	Common Name	Toxic Part
BULBS		
Amaryllis	Amaryllis	Bulb
Caladium	Caladium	All Parts
Colchicum	Autumn Crocus	All Parts
Crocus	Crocus	All Parts
Galanthus	Snowdrops	All Parts
Hyacinthus	Hyacinth	Bulb
Narcissus	Daffodil	All Parts
Ranunculus	Buttercup	All Parts
Scilla	Bluebell	All Parts
Tulipa	Tulip	Bulb
HOUSEPLANTS		
Aloe	Aloe	Sap
Anthurium	Flamingo Flower	All Parts
Areca catheau	Betal Palm	Seeds
Caesalpinia	Bird-of-Paradise	Seeds, pod
Cycas	False Sago Palm	Seeds
Diffenbachia	Dumb Cane	All Parts
Epipremnum	Pothos	All Parts
Euphorbia	Crown-of-Thorns	Sap
Lantana camara	Lantana	Green Berries
Nerium	Oleander	All Parts
Poinsettia	Poinsettia	Leaves
Philodendron	Philodendron	Leaves, stem
Ricinus communis	Castor Bean	Seeds, leaves
Solanum spp.	Jerusalem Cherry	All Parts
Zantendchia aethiopica	Calla Lily	Leaves, roots
ANNUALS, GROUNDCOVERS, PERENNIALS AND VINES		
Aconitum	Monkshood	All Parts
Anemone	Windflower	All Parts
Arisaema	Jack-in-the-Pulpit	All Parts
Clematis	Clematis	All Parts
Convallaria	Lily-of-the-Valley	All Parts
Datura	Jimsonweed	All Parts
Delphinium x belladona	Larkspur	All Parts
Dicentra	Bleeding Heart	All Parts
Dictamnus	Gas Plant	Leaves
Digitalis	Foxglove	Leaves, stems
Echium	Blueweed	All Parts
Euphorbia	Spruge	All Parts
Gloriosa	Gloriosa	All Parts
Hedera helix	English Ivy	All Parts
Helenium	Sneezeweed	All Parts
Helleborus	Christmas Rose	Roots, leaves
Iris	Iris	Seeds
Lantana camara	Lantana	Seeds
Lathyrus	Perennial Sweet Pea	All Parts