



CHRISTENSEN'S PLANT CENTER

BLACK WALNUT "DO'S AND DON'TS"

Black Walnut (*Juglans nigra*) produces a toxin, juglone, which can suppress or kill surrounding vegetation. The level of juglone in the soil is highest under the drip-line of the tree, and by 50-60 feet away is significantly less. Extremely susceptible plants have been injured as far as 80 feet away. Other trees which produce juglone are, in the order of concentration, English walnut (*J. regia*), Butternut (*J. cineraria*), Hickory (*Carya ovata*), and Pecan (*C. illinoensis*).

We have compiled this list of plants with known susceptibility to juglone, as well as plants that have been listed as being resistant, however, no guarantee may be made. We have omitted some plants that are not recommended for use in landscaping.

PLANTS SENSITIVE TO BLACK WALNUT TOXICITY

CONIFERS & TREES

<i>Acer saccharinum</i>	Silver Maple
<i>Amelanchier canadensis</i>	Serviceberry
<i>Betula nigra</i>	River Birch
<i>Carpinus caroliniana</i>	American Hornbeam
<i>Celtis occidentalis</i>	Hackberry
<i>Chionanthus virginica</i>	Fringetree
<i>Halesia carolina</i>	Halesia
<i>Hamelis virginiana</i>	Witch Hazel
<i>Ilex opaca</i>	American Holly
<i>Ilex verticillata</i>	Michigan Holly
<i>Larix laempferi</i>	Japanese Larch
<i>Liquidambar styraciflua</i>	Sweetgum
<i>Magnolia soulangiana</i>	Saucer Magnolia
<i>Malus spp.</i>	Crabapple, Apple
<i>Pinus resinosa</i>	Red Pine
<i>Pinus strobus</i>	Eastern White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Picea abies</i>	Norway Spruce
<i>Quercus coccinea</i>	Scarlet Oak
<i>Quercus imbricaria</i>	Shingle Oak
<i>Thuja occidentalis</i>	Arborvitae
<i>Tilia americana</i>	Basswood

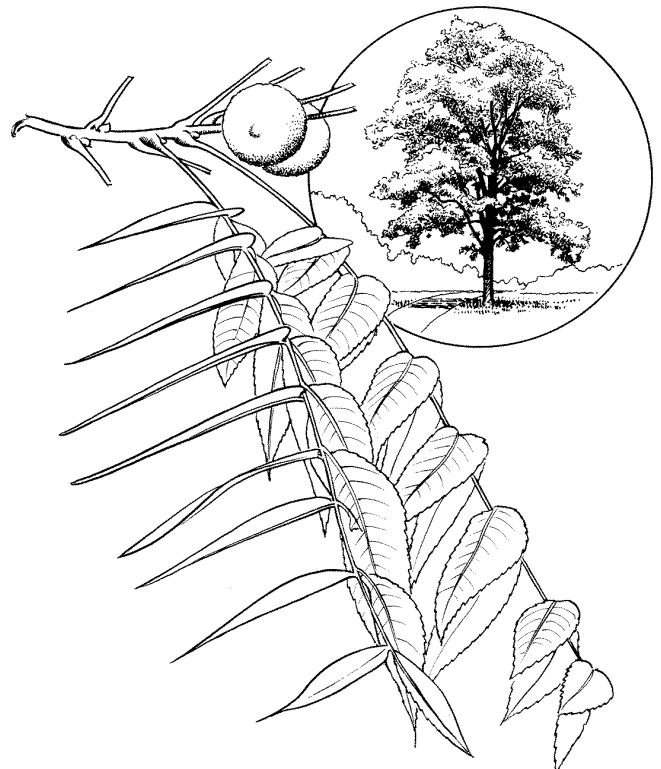
<i>Syringa spp.</i>	Lilac
<i>Vaccinium spp.</i>	Blueberry
<i>Viburnum dentatum</i>	Arrowwood Viburnum
<i>Viburnum opulus</i>	European Cranberrybush
<i>Viburnum plicatum</i>	Doublefile Viburnum
<i>Viburnum sieboldii</i>	Siebold Viburnum

HERBACEOUS

<i>Baptisia australis</i>	False Indigo
<i>Aquilegia canadensis</i>	Wild Columbine
<i>Lilium</i>	Garden Lily
<i>Paeonia</i>	Peony
<i>Tulipa</i>	Tulip

SHRUBS

<i>Aronia arbutifolia</i>	Red Chokeberry
<i>Ceanothus americanus</i>	New Jersey Tea
<i>Cornus amomum</i>	Silky Dogwood
<i>Hydrangea spp.</i>	Hydrangea
<i>Kalmia latifolia</i>	Mountain Laurel
<i>Ligustrum spp.</i>	Privet
<i>Lonicera maackii</i>	Amur Honeysuckle
<i>Physocarpus opulifolius</i>	Ninebark
<i>Pinus mugo</i>	Mugo Pine
<i>Potentilla fruticosa</i>	Shrubby Cinquefoil
<i>Prunus tomentosa</i>	Nanking Cherry
<i>Prunus subhirtella 'Pendula'</i>	Weeping Higan Cherry
<i>Pyrantha spp.</i>	Firethorn
<i>Rhododendron spp.</i>	Rhododendron / Azalea





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PLANTS TOLERANT OF BLACK WALNUT TOXICITY

CONIFERS & TREES

Acer palmatum and cvs.	Japanese Maple
Acer rubrum	Red Maple
Acer saccharum	Sugar maple
Aesculus glabra	Ohio Buckeye
Asimina triloba	Pawpaw
Catalpa bignoides	Common Catalpa
Cercis canadensis	Eastern Redbud
Cornus florida	Flowering Dogwood
Crataegus spp.	Hawthorn
Fagus grandifolia	American Beech
Gleditsia triacanthos	Honeylocust
Juniperus virginiana	Red Cedar
Liriodendron tulipifera	Tuliptree
Nyssa sylvatica	Black Gum
Platanus occidentalis	Sycamore
Quercus alba	White Oak
Quercus borealis	Red Oak
Quercus velutina	Black Oak
Sassafras allaidum	Sassafras
Tsuga canadensis	Canadian Hemlock
Ulmus americana	American Elm

SHRUBS, VINES, & GROUNDCOVERS

Berberis canadensis	American Barberry
Celastrus scandens	American Bittersweet
Cornus alternifolia	Pagoda Dogwood
Corylus americana	American Hazelnut
Hydrangea arborescens	Wild Hydrangea
Hypericum prolificum	Shrubby St. John's Wort
Pachysandra spp.	Pachysandra
Parthenocissus quinquefolia	Virginia Creeper
Rhus glabra	Smooth Sumac
Rhus typhina	Staghorn Sumac
Ribes spp.	Currant
Rosa spp.	Wild Rose
Rubus occidentalis	Black Raspberry
Viburnum acerifolium	Maple-leaved Viburnum
Viburnum prunifolium	Black Haw Viburnum

HERBACEOUS & FERNS

Achillea millefolium	Common Yarrow
Anemone spp.	Thimbleweed
Antennaria spp.	Pussytoes
Arisaema triphyllum	Jack-in-the-pulpit
Asarum virginicum	Wild Ginger
Aster spp.	Aster
Campanula americana	Tall Bellflower
Carex spp.	Sedge
Claytonia spp.	Spring Beauty
Crocus spp.	Crocus
Dennstaedtia punctiloba	Hay-scented Fern
Dryopteris marginalis	Leather Wood Fern
Erigeron annuus	Daisy Fleabane
Erigeron philadelphicus	Common Fleabane
Eupatorium coelestinum	Mist Flower
Eupatorium purpureum	Joe-pye Weed
Galium spp.	Sweetwoodruff
Geranium spp.	Wild Geranium
Geum spp.	Avens
Helenium spp.	Sneezeweed
Helianthus spp.	Sunflower
Hemerocallis spp.	Daylily
Impatiens	Jewelweed
Leucanthemum maximum	Shasta Daisy
Leucanthemum vulgare	Ox-eye Daisy
Lobelia spicata	Spiked Lobelia
Malva rotundifolia	Common Mallow
Monarda fistulosa	Wild Bergamot
Monarda punctata	Horsemint
Muscar spp.	Grape Hyacinth
Oenothera spp.	Evening Primrose
Onoclea sensibilis	Sensitive Fern
Osmunda cinnamomea	Cinnamon Fern
Podophyllum peltatum	Mayapple
Polystichum acrostichoides	Christmans Fern
Potentilla canadensis	Common Cinquefoil
Rudbeckia hirta	Brown-eyed Susan
Scilla siberica	Siberian Squill
Smilacena racemosa	False Solomon's Seal
Solidago spp.	Goldenrod
Trillium spp.	Trillium

This list was compiled from many reputable sources and represents the best information we have at this time. However, we make no guarantee as to the suitability of these recommendations as they pertain to your situation.