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BLACK WALNUT TOXICITY IN PLANTS

The plants listed below have been reported to be sensitive to Black Walnut Toxicity. Black Walnut Toxicity is caused by a chemical juglone, which is produced by plant parts and roots of Black Walnut trees. The substance is released into the soil and injures or kills susceptible plants under the canopy of Black Walnuts and even beyond the drip line of the tree. Do not plant the plants listed below near Black Walnut trees. This list has been compiled from several sources based on observations and is not scientific, nor complete. Furthermore some species have been reported to have some varieties that are tolerant, while others of the same species are sensitive.

Additional reading can be accessed from Ohio State University Extension online database, Ohioline: <http://ohioline.osu.edu/hyg-fact/1000/1148.html>

PLANTS SENSITIVE TO BLACK WALNUT TOXICITY

TREES

- Silver Maple, *Acer saccharinum*
- Black Alder, *Alnus glutinosa*
- Birch species, *Betula* spp.
- Hackberry, *Celtis occidentalis*
- Fringetree, *Chioanthus virginica*
- Witch Hazel, *Hamamelis virginiana*
- American Holly, *Ilex opaca*
- Larch, *Larix*
- Sweetgum, *Liquidamber styraciflua*
- Saucer Magnolia, *Magnolia soulangiana*
- Apples and Crabapples, *Malus* spp.
- Norway Spruce, *Picea abies*
- Mugo Pine, *Pinus mugo*
- White Pine, *Pinus strobus*
- Ornamental Cherry, *Prunus* spp.
- Linden, Basswood, *Tilia* spp.

SHRUBS

- Chokeberry, *Aronia* spp.
- New Jersey Teashrub, *Ceanothus amer.*
- Hydrangea species
- Mountain Laurel, *Kalmia latifolia*
- Privet, *Ligustrum* spp.
- Amur Honeysuckle, *Lonicera maackii*
- Cinquefoil, *Potentilla fruticosa*

- Firethorn, *Pyracantha*
- Rhododendrons and Azaleas
- Lilacs, *Syringa*
- Arrowwood *Viburnum*, *V. dentatum*
- Euro. Cranberrybush, *Viburnum opulus*
- Doublefile *Viburnum*, *V. plicatum*
- Siebold *Viburnum*, *V. sieboldii*
- Yew, *Taxus* spp.

Fruits and Vegetables

- Apple, *Malus* spp.
- Pear, *Pyrus* spp.
- Blackberry, *Rubus*
- Blueberry, *Vaccinium* spp.
- Asparagus, Cabbage, Eggplant, Pepper, Potato, Rhubarb, Tomato

Herbaceous Perennials

- Aquilegia Canadensis*, *Columbina* spp.
- False Indigo, *Batisia australis*
- Chrysanthemum spp. (some)
- Garden Lily, *Lilium* spp. (esp. Asian)
- Narcissus, (some)
- Peony, *paeonia* spp.
- Tulips

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