

# Black Walnut Toxicity

Black Walnuts are useful trees for the home landscape, grown primarily for shade, but also for wood and nuts. However, the Black Walnut produces a substance called hydrojuglone, which oxidizes into a toxic chemical called juglone. This chemical inhibits the growth of certain nearby plants, reducing competition for the Black Walnut. Plants that are susceptible to this toxic effect yellow, wilt, and die. Therefore, it becomes very important to choose the right location when planting the Black Walnut, or to choose carefully which plants to put near an established Black Walnut tree. The toxic zone from a mature tree occurs in a 50' to 80' radius of the trunk.

For more information, OSU Extension Fact Sheet can be found at [www.ohioline.osu.edu/hyg-fact/1000/1148.html](http://www.ohioline.osu.edu/hyg-fact/1000/1148.html)

The following is a list of plants that appear to be compatible with Black Walnut.

## PERENNIALS

*Ajuga* (Bugleweed)  
*Alcea* (Hollyhock)  
*Anemone quinquefolia* (American Wood Anemone)  
*Arisaema triphyllum* (Jack-In-The-Pulpit)  
*Asarum* (Wild Ginger)  
*Astilbe*  
*Campanula* (Bellflower)  
*Clematis* (Clematis)  
*Dicentra cucullaria* (Dutchmen's Breeches)  
*Doronicum* (Leopard's Bane)  
*Dryopteris cristata* (Crested Wood Fern)  
*Eranthis hyemalis* (Winter Aconite)  
*Galium* (Sweet Woodruff)  
*Geranium* (Cranesbill)  
*Helianthus* (Swamp Sun flower)  
*Hemerocallis* (Daylily)  
*Heuchera* (Coral Bells)  
*Hosta fortunei* (Plantain Lily)  
*Hosta lancifolia*  
*Hosta marginata*  
*Hosta undulate* ('Variegata')  
*Iris sibirica* (Siberian Iris)  
*Mertensia* (Virginia Bluebells)

*Monarda* (Bee Balm)  
*Oenothera* (Sundrops)  
*Onoclea sensibilis* (Sensitive Fern)  
*Osmunda cinnamomea* (Cinnamon Fern)  
*Phlox* (Summer Phlox)  
*Podophyllum peltatum* (Mayapple)  
*Polemonium* (Jacob's Ladder)  
*Polygonatum* (Solomon' Seal)  
*Primula* (Primrose)  
*Pulmonaria* (Lungwort)  
*Sanguinaria canadensis* (Bloodroot)  
*Sedum spectabile* (Sedum)  
*Stachys byzantina* (Lamb's Ears)  
*Tradescantia* (Spiderwort)  
*Trillium* (Trillium)  
*Uvularia grandiflora* (Big Merrybells)  
*Viola* (Violet)

## Annuals and Vegetables

*Begonia* (fibrous cultivars)  
*Calendula officinalis* (Pot Marigold)  
*Viola* (Pansy)  
*Ipomoea* (Morning Glory)  
*Zinnia* (Species)  
Squashes and Melons  
Beans  
Carrots  
Corn

## **BULBS**

*Chionodoxa* (Glory-of-the-Snow)

*Crocus* (Crocus)

*Endymion* (Spanish Bluebell)

*Eranthis* (Winter Aconite)

*Galanthus* (Snowdrop)

*Hyacinthus Orientalis*

*Muscari* (Grape Hyacinth)

*Narcissus* (Daffodil)

*Scilla siberica* (Blue Squill)

*Tulipa* (Tulip)

## **TREES & FRUIT**

*Acer palmatum* (Japanese Maple)

*Catalpa* (Common Catalpa)

*Cercis canadensis* (Eastern Redbud)

*Tsuga* (Canadian Hemlock)

*Prunus* (Peach)

*Prunus* (Nectarine)

*Prunus* (Cherry)

*Prunus* (Plum)

*Pyrus* (Pear)

*Rubus occidentalis* (Black Raspberry)



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