

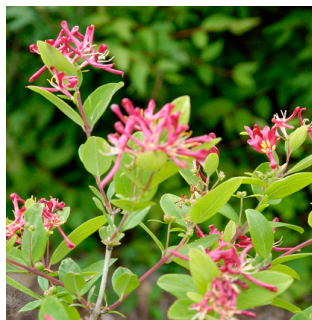


plants tolerant of black walnut trees

Black walnut trees produce a chemical called juglone that can be toxic to many plants. Some plants are highly tolerant of juglone, while others have a very low success rate when grown directly under or near black walnut trees. Sensitive plants may show symptoms such as wilting, yellowing or browning leaves, slow or stunted growth, and in severe cases, death. The highest concentration of juglone occurs within the tree's root zone, which often extends well beyond the branch tips on large, mature trees. Highly sensitive plants may still experience symptoms even farther away.

Even juglone-tolerant plants may show signs of stress when planted beneath black walnut or other mature trees. New plantings must compete with established tree roots for moisture, and soil under a tree canopy is often much drier, so plants may need up to twice as much watering as those in open areas. Shaded conditions can also cause temporary stress, but plants typically adjust the following season as new growth adapts to lower light levels.

The following lists identify plants that are considered tolerant or not tolerant. For plants not included, try planting a small number first and observe them for signs of stress or damage for a full growing season before adding more.



TOLERANT PLANTS

FRUITS & VEGETABLES

Bean, Snap ☀️
Beet ☀️
Carrot ☀️
Cherry ☀️
Corn, Sweet ☀️
Currant ☀️🌿
Melon ☀️
Onion ☀️
Plum ☀️
Pawpaw ☀️
Squash ☀️

VINES

Clematis (several varieties) ☀️🌿
Dutchman's Pipe ☀️🌿
Grape ☀️
Honeysuckle ☀️🌿
Virginia Creeper ☀️🌿☀️
Wisteria ☀️

SHRUBS & EVERGREENS

Arborvitae ☀️🌿
Althea ☀️🌿
Barberry ☀️
Burning Bush ☀️
Elder ☀️🌿
Forsythia ☀️
Hemlock ☀️
Honeysuckle ☀️🌿

Hydrangea, Annabelle ☀️🌿
Hypericum ☀️🌿
Juniper ☀️
Kerria 🌿☀️
Mockorange ☀️🌿
Ninebark ☀️
Plum, Cistena ☀️
Viburnum, Koreanspice ☀️🌿
Viburnum, Arrowwood ☀️🌿

TREES

Amelanchier ☀️🌿
Birch, River ☀️
Black Gum ☀️🌿
Catalpa ☀️
Dogwood 🌿
Honeylocust ☀️
Linden ☀️
Maple, Japanese ☀️🌿
Maple, Red ☀️

Maple, Sugar ☀️
Mulberry ☀️🌿
Oak ☀️
Pear, Flowering ☀️
Planetree ☀️
Redbud ☀️🌿
Sweetgum ☀️
Tuliptree ☀️
Willow ☀️🌿
Wisteria ☀️

TOLERANT PLANTS

SUN PERENNIALS

Anemone ☀️
Aster ☀️
Bee Balm ☀️
Bellflower ☀️
Coneflower ☀️
Daisy, Shasta ☀️
Daylily ☀️
Evening Primrose ☀️
Geranium ☀️
Goldenrod ☀️
Grass (select varieties) ☀️
Hollyhock ☀️
Iris ☀️
Joe Pye ☀️
Lamb's Ear ☀️
Leopard's Bane ☀️
Lobelia ☀️
Obedient Plant ☀️
Phlox, Garden ☀️
Rudbeckia ☀️
Sedum ☀️
Sunflower (*several varieties*) ☀️
Veronica ☀️
Yarrow ☀️
Yucca ☀️

ANNUALS

Begonia ☀️
Chrysanthemum ☀️
Geranium ☀️
Impatiens ☀️
Marigold ☀️
Morning Glory ☀️
Pansy ☀️
Zinnia ☀️

GRASS SEED

Bluegrass, Kentucky ☀️
Tall Fescue ☀️

SHADE PERENNIALS

Astilbe 🌿
Barrenwort 🌿
Bleeding Heart 🌿
Coral Bells 🌿
Fern 🌿
Helleborus 🌿
Hosta 🌿
Jacob's Ladder 🌿
Pulmonaria 🌿
Solomon's Seal 🌿
Spiderwort 🌿
Viola 🌿

GROUNDCOVER

Ajuga ☀️
Ginger 🌿
Liriope ☀️
Myrtle ☀️
Pachysandra 🌿
Phlox, Creeping ☀️
Sedum ☀️
Sweet Woodruff 🌿

BULBS

Crocus ☀️
Daffodil ☀️
Grape Hyacinth ☀️
Hyacinth ☀️
Tulip ☀️

☀️ **SUN** – These plants need at least 8 hours of direct sunlight.

🌿 **PARTIAL SHADE** – These plants need a minimum of 4 hours of direct sunlight and maximum of 8 hours. Avoid hot afternoon sunlight.

🌿 **SHADE** – These plants need less than 4 hours of direct sunlight. Avoid hot afternoon sunlight.

☀️ 🌿 **SUN-SHADE** – These plants can be grown in any light situation.

PLANTS NOT TOLERANT OF BLACK WALNUT

TREES

Apple
Birch, Paper
Crab
Larch
Linden
Magnolia, Saucer
Pine
Spruce

VEGETABLES

Asparagus
Cabbage
Eggplant
Pepper
Potato
Tomato

SHRUBS & EVERGREENS

Aronia, Red
Azalea
Blueberry
Cotoneaster
Holly, Winterberry
Hydrangea (several varieties)
Lilac

Pine
Potentilla
Privet
Rhododendron
Rose
Spruce
Viburnum (several varieties)
Yew

PERENNIALS

Baptisia
Columbine
Lily, Asiatic & Oriental
Lily of the Valley
Peony
Rhubarb

ANNUALS

Nicotiana
Petunia

BULBS

Crocus, Autumn