

F2209 (July 2024)

Joseph Zeleznik, Ph.D., Extension Forester

North Dakota Tree Selector

General

Scientific Name: *Juglans nigra*

Family: Juglandaceae (Walnut)

Hardiness: Zone 4

Leaves: Deciduous

Plant Type: Tree

Growth

Rate: Medium

Mature Height: >45'

Longevity: Long

Power Line: No

Ornamental

Flowers: Inconspicuous

Fruit: Green to black nuts

Fall Color: Yellow

Black Walnut

Description

A large oval to rounded, somewhat open-crowned tree. Very valuable timber tree. The tree is borderline hardy in North Dakota and some seedling sources will be subject to winter dieback. Choose hardy North Dakota seed sources. The largest tree in North Dakota is 65 feet tall with a canopy spread of 50 feet.

Preferences

Light: Full sun, tolerates partial shade.

Water: Prefers moist soils, does not withstand extended ponding or drought.

Soil: Sensitive to soil conditions. Does best on deep, fertile soils.

Comments

Black walnut will produce seeds after 4-6 years of age, however the husks can stain sidewalks and clothing. Black walnut roots produce chemicals called juglones which are very toxic to certain other plants such as azaleas, rhododendrons, blueberries, peonies and solanaceous crops (tomatoes, peppers, potatoes). Most of the toxicity is limited to within the drip line of the tree, but the area of toxicity typically increases outward as the tree matures.



Credits: Tree Selector Website, North Dakota Tree Handbook, <http://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails.aspx?kempercode=a875>

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