Invasive Plants in Pennsylvania Chocolate Vine

Akebia quinata



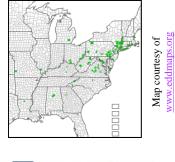
Photo: Nancy Loewenstein, Auburn U., www.invasive.org

Background:

Also known as fiveleaf akebia, chocolate vine is from eastern Asia. It was first introduced into the U.S. in 1845 as an ornamental plant.

Range:

Chocolate vine is found in scattered spots up and down the east coast of the U.S. from Michigan south to Georgia.





Description:

This is a deciduous to evergreen (in warmer climates) woody climbing or trailing vine. Vines are green when young, turning brown as it ages. Leaves are palmately compound with up to five, one to three inch long, oval leaflets. Small purple to red, fragrant flowers appear in mid-spring. The fragrance is said to be like chocolate. The uncommonly-produced fruits are purple seed pods with small black seeds.



Photo: Nancy Loewenstein, Auburn U., www.invasive.org

Habitat:

Chocolate vine is shade tolerant and invades forested habitats.

Biology and Spread:

This vine spreads primarily by vegetative means and can grow 20 to 40 feet in one growing season. Fruits are not always produced and it is not clear whether birds play a role in dispersal. Humans are the primary means of chocolate vine's spread.

Ecological Threat:

Dense mats of this vine can displace and kill native understory species. It can also climb into, smother, and kill small trees and shrubs. Once established, its dense growth prevents native seed germination and seedling establishment.



Photo: Shep Zedaker, Virginia Polytechnic Institute, <u>www.invasive.org</u>

How to Control this Species:

Manual and Mechanical

Small infestations can be controlled by repeated cutting throughout the growing season. Vines may also be dug up, removing as much of the roots as possible. Regular monitoring and repeated removal is necessary.



Photo: James Miller, USFA FS, www.invasive.org

References:

Chemical

is between 50 and 85 degrees F. A 20 percent triclopyr and basal oil solution can be applied to the exposed stem, a 25 percent water and herbicide solution can be applied to a freshly cut stump, or a two to five percent water and herbicide solution can be sprayed on the leaves.

For larger infestations, use a

glyphosate or triclopyr. These

as long as the air temperature

can be used any time of year

systemic herbicide like

Repeated treatments are likely.

Native Alternatives:

There are many great native vines that can be used in place of chocolate vine, including:

> **Cross Vine** (Bignonia capreolata)



Photo: Rebekah Wallace, U. of Georgia, www.forestryimages.org

Trumpet Creeper (*Campsis radicans*)



Photo: Charles Bryson, USDA, www.forestryimages.org

Virginia Creeper (Parthenocissus quinquefolia)



Photo: University of Georgia Press, www.forestrvimages.org

Center for Invasive Species and Ecosystem Health: http:// www.invasive.org/browse/subinfo.cfm?sub=10090#images

Invasive Exotic Plant Tutorial for Natural Lands Managers: http:// www.dcnr.state.pa.us/forestry/invasivetutorial/Akebia.htm

Plant Conservation Alliance's Least Wanted List: http://www.nps.gov/plants/alien/fact/akqu1.htm

For More Information:

Plant Invaders of Mid-Atlantic Natural Areas, National Park Service: http://www.nps.gov/plants/alien/pubs/midatlantic/ midatlantic.pdf

Invasive Plants Field and Reference Guide, U.S. Forest Service: http://na.fs.fed.us/pubs/misc/ip/ip_field_guide.pdf