Invasive Plant Identification for Regional Mapping

Statewide Eyes Training for Western Maryland

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Trees

- Norway maple  \textit{Acer platanoides}
- Tree of heaven  \textit{Ailanthus altissima}
- Empress tree  \textit{Paulownia tomentosa}
- Callery pear  \textit{Pyrus calleryana}
**Norway maple**  
*Acer platanoides*

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**Sugar maple fruit**  
© 2003 Steve Baskauf  
bioimages.cas.vanderbilt.edu

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**Norway maple fruit**  
Judy Sedbrook  
www.colostate.edu

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www.northshorewx.com/images/2005/nature/Leave

orregonstate.edu/dept/ldplants/images/acpl-sa2.jpg
Tree of heaven
*Ailanthus altissima*

Native lookalikes staghorn and smooth sumac

*Rhus typhina*

*Rhus glabra*
Empress tree

*Paulownia tomentosa*

Paulownia tomentosa is a tree species native to Japan. It is commonly known as the Empress tree due to its striking blue flowers. The leaves are smooth and the bark is greyish-brown. The tree can grow up to 20 meters tall and is often used as an ornamental plant in gardens and parks. The flowers are produced in large clusters and are a notable feature of this species.
Empress tree

*Paulownia tomentosa*

Northern catalpa

*Catalpa speciosa*

**Flowers**

**Leaves**

**Fruit**

Bark

Steve Sieberling, UNC Herbarium

http://biology.missouristate.edu/herbarium
Shrubs

- Japanese barberry: *Berberis thunbergii*
- Autumn olive: *Elaeagnus umbellata*
- Privet species: *Ligustrum spp.* IPAC T2 (Border)
- Shrub honeysuckles: *Lonicera spp.* IPAC T1 (Amur)
- Multiflora rose: *Rosa multiflora*
- Wineberry: *Rubus phoenicolasius*
- Japanese spiraea: *Spiraea japonica*
Japanese barberry

*Berberis thunbergii*
Autumn olive

Elaeagnus umbellata
Privet

**Ligustrum obtusifolium**
Border privet

**L. sinense**
Chinese privet

**L. vulgare**
Common/European privet
L. sinense

L. vulgare

L. obtusifolium

IPAC Tier 2
Shrub honeysuckle

*Lonicera spp.*

Amur honeysuckle
IPAC Tier 1 (proposed)
Multiflora rose

*Rosa multiflora*
Wineberry

Rubus phoenicolasius
Japanese spiraea

Spiraea japonica
Vines

- Porcelainberry  
  *Ampelopsis brevipedunculata*
- Oriental bittersweet  
  *Celastrus orbiculatus*
- English and Irish ivy  
  *Hedera helix, H. hibernica*
- Japanese hop  
  *Humulus japonicus (herbaceous)*
- Japanese honeysuckle  
  *Lonicera japonica*
- Mile-a-minute weed  
  *Persicaria perfoliata (herbaceous)*
- Crown vetch  
  *Securigera varia*
- Wisteria species  
  *Wisteria floribunda, sinensis, hybrid* 
  IPAC T2
Porcelainberry

*Ampelopsis brevipedunculata*

All other photos by Kerrie L. Kyde

http://www.hort.uconn.edu/plants/a/ampbre

Leslie J. Mehrhoff, University of Connecticut, Bugwood.org

Jil Swearingen, NPS, Bugwood.org
Oriental bittersweet

*Celastrus orbiculatus*
English and Irish ivy

Hedera helix, H. hibernica

Drawings by S. Bellanger

http://alienplantsbelgium.be/content/hedera-hibernica
Japanese hop

*Humulus japonicus*

Native Virginia creeper leaf
Japanese honeysuckle

*Lonicera japonica*
Persicaria perfoliata

Mile-a-minute

Native lookalike
Halberd-leaved tearthumb
*Polygonum arifolium*
Crown vetch

*Securigera varia*

Steve Baskauf, Vanderbilt University Dept. of Biological Sciences, Bugwood.org

Dave Powell, USDA Forest Service (ret), Bugwood.org

Ohio State Weed Lab, The Ohio State University, Bugwood.org

James H. Miller, USDA Forest Service, Bugwood.org
Wisteria

Wisteria floribunda, sinensis, x formosa

IPAC Tier 2
Herbs & Grasses

- Garlic mustard: *Alliaria petiolata*
- Spotted knapweed: *Centaurea stoebe*
- Japanese knotweed: *Fallopia japonica*
- Giant hogweed: *Heracleum mantegazzianum*
- Purple loosestrife: *Lythrum salicaria*
- Japanese stilt grass: *Microstegium vimineum*
- Golden bamboo: *Phyllostachys aurea*
- Beefsteak plant: *Perilla frutescens*
Garlic mustard

*Alliaria petiolata*

Leslie J. Mehrhoff, University of CT, Bugwood.org

Britt Slattery, US Fish and Wildlife, Bugwood.org

Native violet

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Leslie J. Mehrhoff, University of CT, Bugwood.org
Spotted knapweed

*Centaurea stoebe*

Caleb Slemmons, National Ecological Observatory Network, Bugwood.org

Leslie H. Mehrhoff, Univ of Conn., Bugwood.org

John Cardina, The Ohio State University

Leslie H. Mehrhoff, Univ of Conn., Bugwood.org

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Ken Chamberlain, The Ohio State University, Bugwood.org

Leslie H. Mehrhoff, Univ of Conn., Bugwood.org
Japanese knotweed

Fallopia japonica

Left to right: leaves of F. sachalinensis, x bohemica and japonica
Giant hogweed

Native Cow Parsnip

http://www.dec.ny.gov/animals/72766.html

Heracleum mantegazzianum
Purple loosestrife

Lythrum salicaria
Japanese stilt grass

Microstegium vimineum
These are *P. aurea*. 

*Phyllostachys spp.*

James H. Miller, USDA Forest Service, Bugwood.org
Beefsteak plant

Perilla frutescens
Aquatics

- Hydrilla
- Yellow flag iris
- Marsh dewflower
- Parrot-feather
- Eurasian watermilfoil

- *Hydrilla verticillata*
- *Iris pseudacorus*  
  **IPAC T1**
- *Murdannia keisak*
- *Myriophyllum aquaticum*
- *Myriophyllum spicatum*
Hydrilla verticillata

Mike Naylor, MD DNR

Drawing courtesy of IFAS Center for Aquatic Plants

Hydrilla verticillata

Hydrilla

Photo by Vic Ramey
© 1996 University of Florida

Vic Ramey, Univ of Florida
IPAC Tier 1

Yellow flag
*Iris pseudacorus*

Nancy Loewenstein, Auburn University, Bugwood.org

Leslie J. Mehrhoff, University of Connecticut, Bugwood.org

Joseph M. DiTomaso, University of California - Davis, Bugwood.org
Marsh dewflower

*Murdannia keisak*

Native *Commelina virginica*
Virginia dayflower
By Jim Stasz, hosted by USDA-NRCS Plants Database
**Myriophyllum aquaticum** and **spicatum**

All other images from Maryland DNR

Drawing and image below courtesy of IFAS at http://plants.ifas.ufl.edu/

Parrot feather

Eurasian watermilfoil
THANK YOU!

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