



Invasive Plant Identification for Regional Mapping

Statewide Eyes Training
for Southern Maryland

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MD DNR Natural Heritage Program

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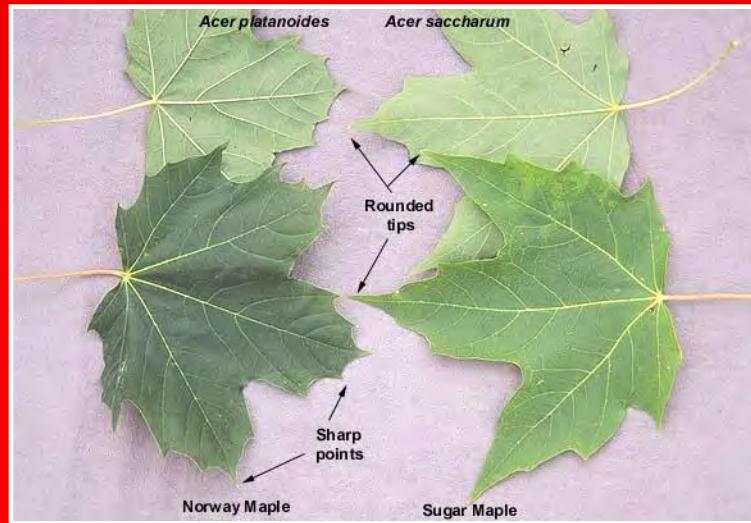


Trees

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



[www.northshorewx.com/
images/2005/nature/Leave](http://www.northshorewx.com/images/2005/nature/Leave)



oregonstate.edu/dept/Idplants/images/acpl-sa2.jpg



Sugar maple fruit
© 2003 Steve Baskauf
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Norway maple

Acer platanoides

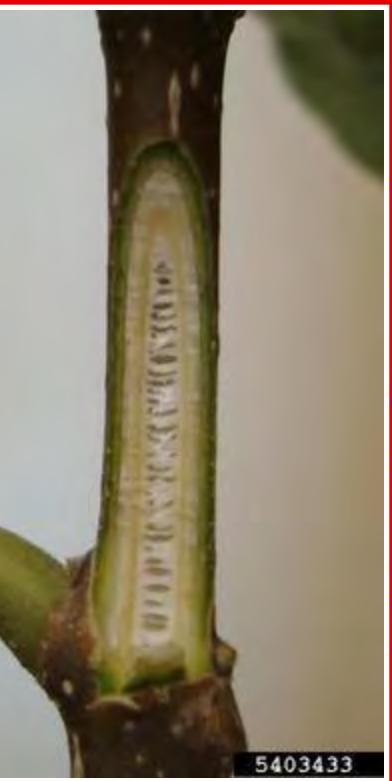


Native lookalikes
staghorn and
shining sumac



Tree of heaven
Ailanthus altissima





Chris Evans UGA www. Forestryimages.org

Empress tree

*Paulownia
tomentosa*

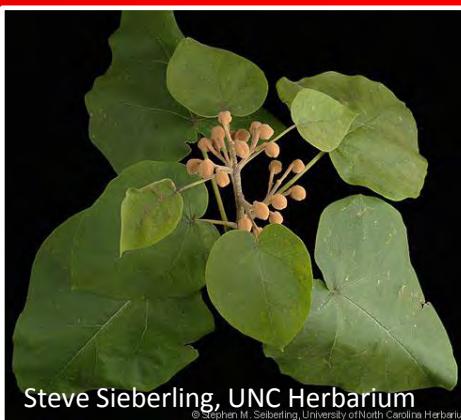
Empress tree

Paulownia tomentosa

Flowers



Leaves



Fruit



Northern catalpa

Catalpa speciosa

Bark



Callery pear

Pyrus calleryana



Photograph courtesy of Sara Tangren



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Shrubs

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

Japanese barberry

Berberis thunbergii



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Autumn olive

*Elaeagnus
umbellata*



Burning bush (or)



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IPAC Tier 2



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Winged euonymus

Euonymus alatus



UGA5270099



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Privet



*Ligustrum
obtusifolium*

L. sinense

L. vulgare



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L. sinense



Troy Evans, Great Smoky Mt Natl. Park,
Bugwood.org

UGA5079012



Chris Evans,
Univ of
Illinois,
bugwood.org

UGA2307079

L. vulgare



Nava Tabal, IPANE, Bugwood.org

UGA5078032



Nava Tabal, IPANE, Bugwood.org

UGA5078033

L. obtusifolium

IPAC Tier 2



5453163

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



5453225



Photo by Pancrat, Creative Commons

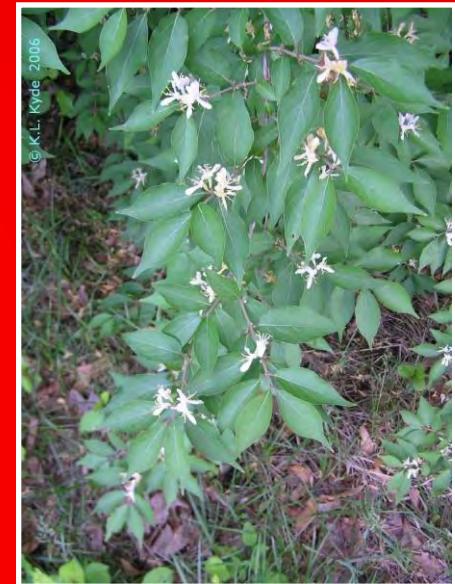
UGA2307079

Shrub honeysuckle

Lonicera spp.



**Amur honeysuckle
IPAC Tier 1
proposed**



Multiflora rose

Rosa multiflora



Stipules



K.L. Kyde 2006



Wineberry

Rubus phoenicolasius



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



UGA5274056



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Vines

- Porcelainberry
- Oriental bittersweet
- English and Irish ivy
- Japanese honeysuckle
- Mile-a-minute weed
- Kudzu
- Wisteria species

Ampelopsis brevipedunculata
Celastrus orbiculatus
Hedera helix, H. hibernica
Lonicera japonica
Persicaria perfoliata (*herbaceous*)
Pueraria montana var. *lobata*
Wisteria floribunda, sinensis, hybrid

IPAC T2

Porcelainberry

*Ampelopsis
brevipedunculata*



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



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

All other photos by Kerrie L. Kyde

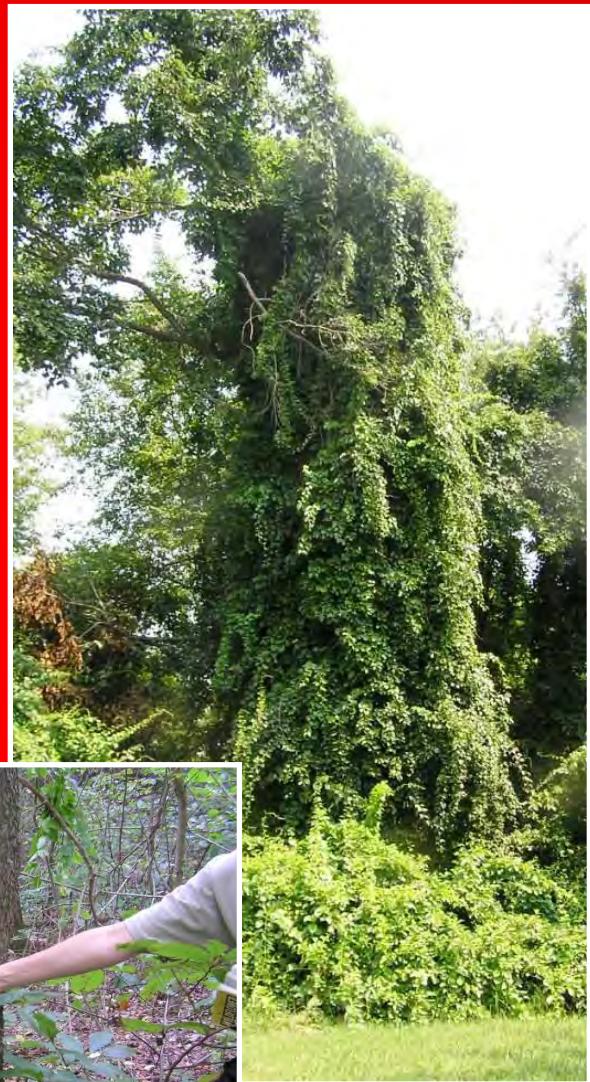
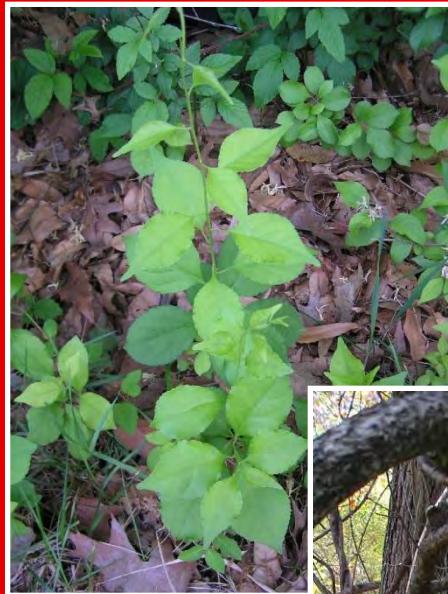


Jil Swearingen, NPS, Bugwood.org

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Oriental bittersweet

Celastrus orbiculatus





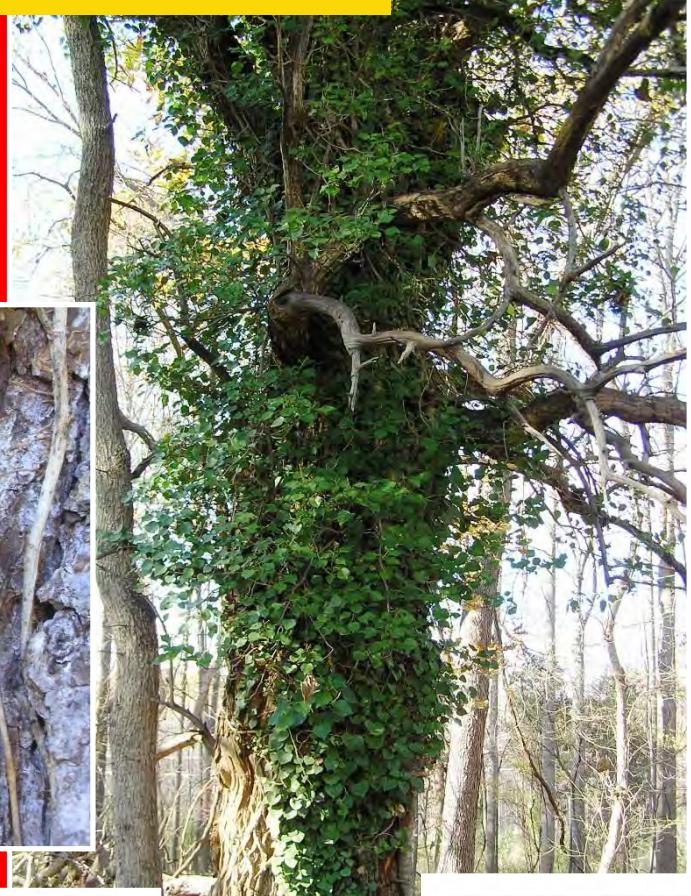
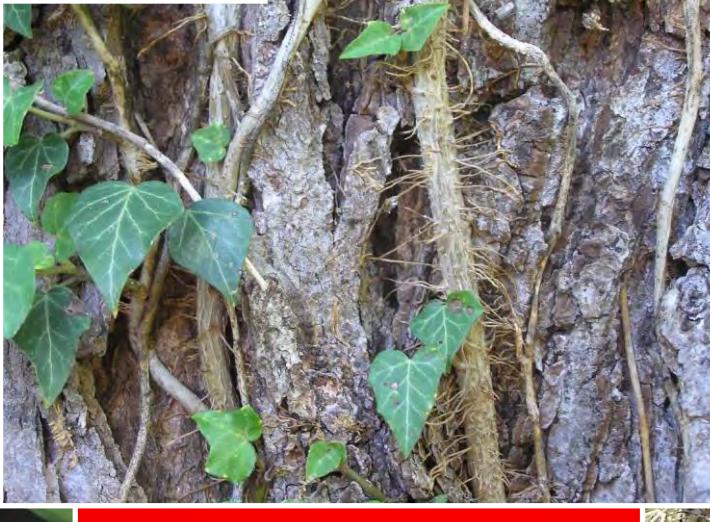
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English and Irish ivy

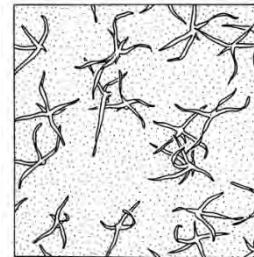
Hedera helix, H. hibernica



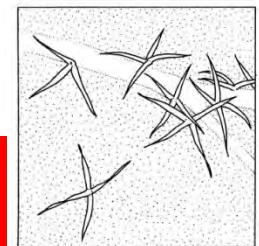
James H. Miller, USDA Forest Service, www.forestryimages.org



H. helix



Drawings by
S. Bellanger
<http://alienplantsbelgium.be/content/hedera-hibernica>



Japanese honeysuckle

Lonicera japonica





Mile-a-minute

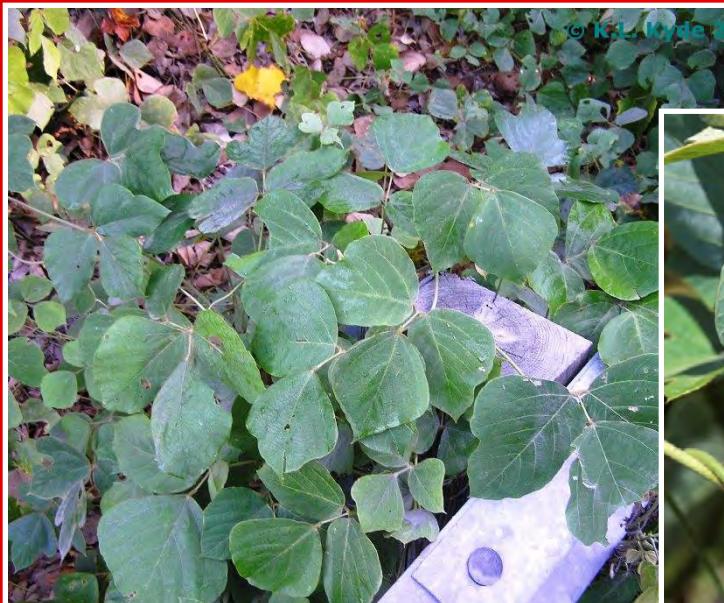
Persicaria perfoliata

Native lookalike
Halberd-leaved tearthumb
Polygonum arifolium



<http://ag.udel.edu/enwc/research/biocontrol/index.htm>





Kudzu



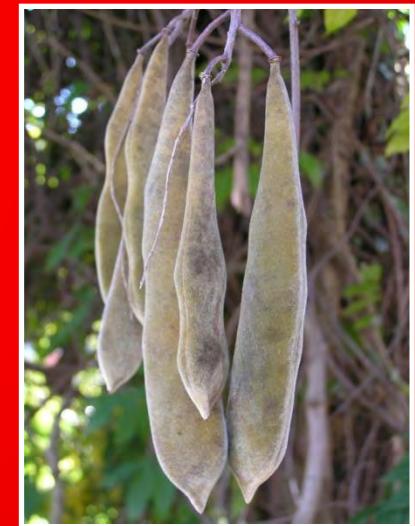
Pueraria montana var. lobata

David J. Moorhead, Univ. of Georgia,
www.forestryimages.org

Ted Bodner, SWSS,
www.forestryimages.org

Wisteria

Wisteria floribunda, sinensis, x formosa



IPAC Tier 2

Herbs & Grasses

- Garlic mustard *Alliaria petiolata*
- 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*
- Common reed *Phragmites australis*

Garlic mustard

Alliaria petiolata



Native violet

Britt Slattery, US Fish and Wildlife, Bugwood.org



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

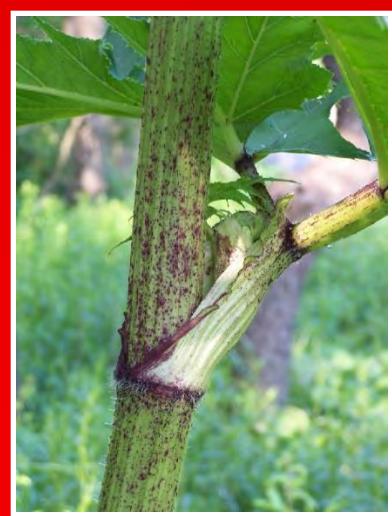
Japanese knotweed

Fallopia japonica



Armin Jagel, Bochum
Botanical Club

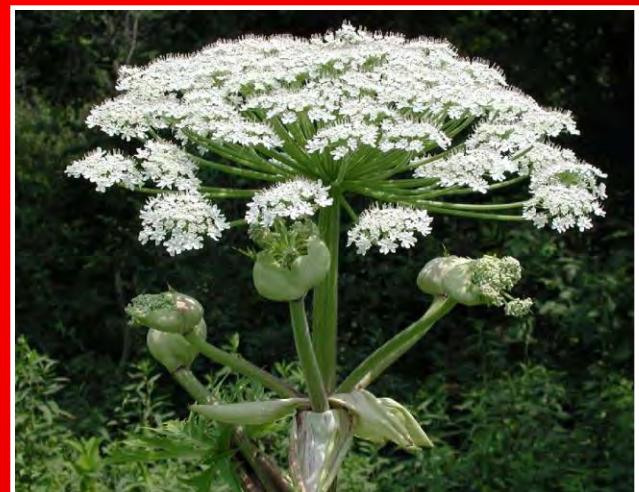
Left to right: leaves of *F. sachalinensis*, *x bohemica* and *japonica*



native Cow Parsnip



*Heracleum
mantegazzianum*



[http://www.dec.ny.gov/
animals/72766.html](http://www.dec.ny.gov/animals/72766.html)

Purple loosestrife



Lythrum salicaria



Japanese stilt grass



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Microstegium vimineum

Bamboo

Phyllostachys spp

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



These are *P. aurea*.

Beefsteak plant



*Perilla
frutescens*



Common reed

Phragmites australis



5487184



UGA5273071



Kevin Heffernan, VA DCR Heritage



Aquatics

- Hydrilla *Hydrilla verticillata*
- Yellow flag iris *Iris pseudacorus* **IPAC T1**
- Marsh dewflower *Murdannia keisak*
- Eurasian watermilfoil *Myriophyllum aquaticum*
- Parrot-feather *Myriophyllum spicatum*

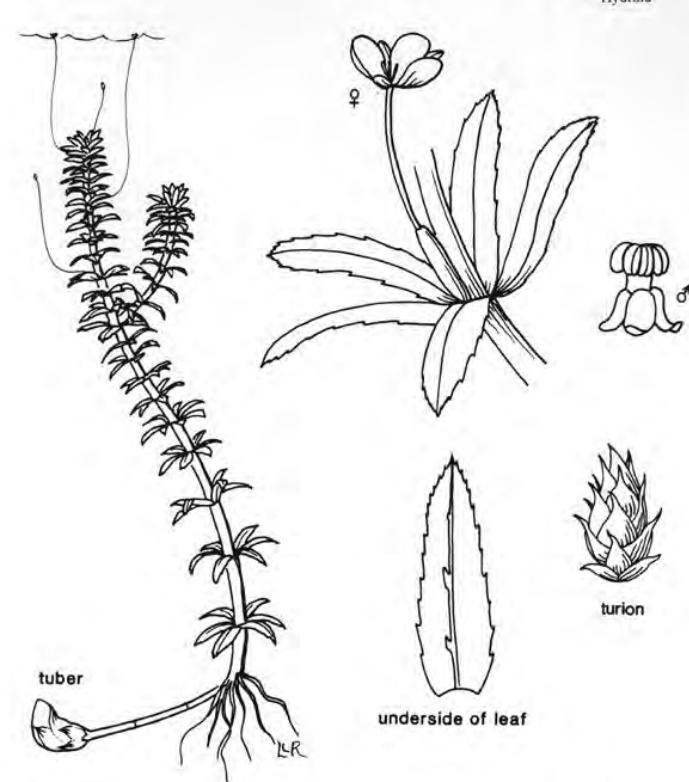


Vic Ramey,
Univ of Florida



Hydrilla

Hydrilla verticillata



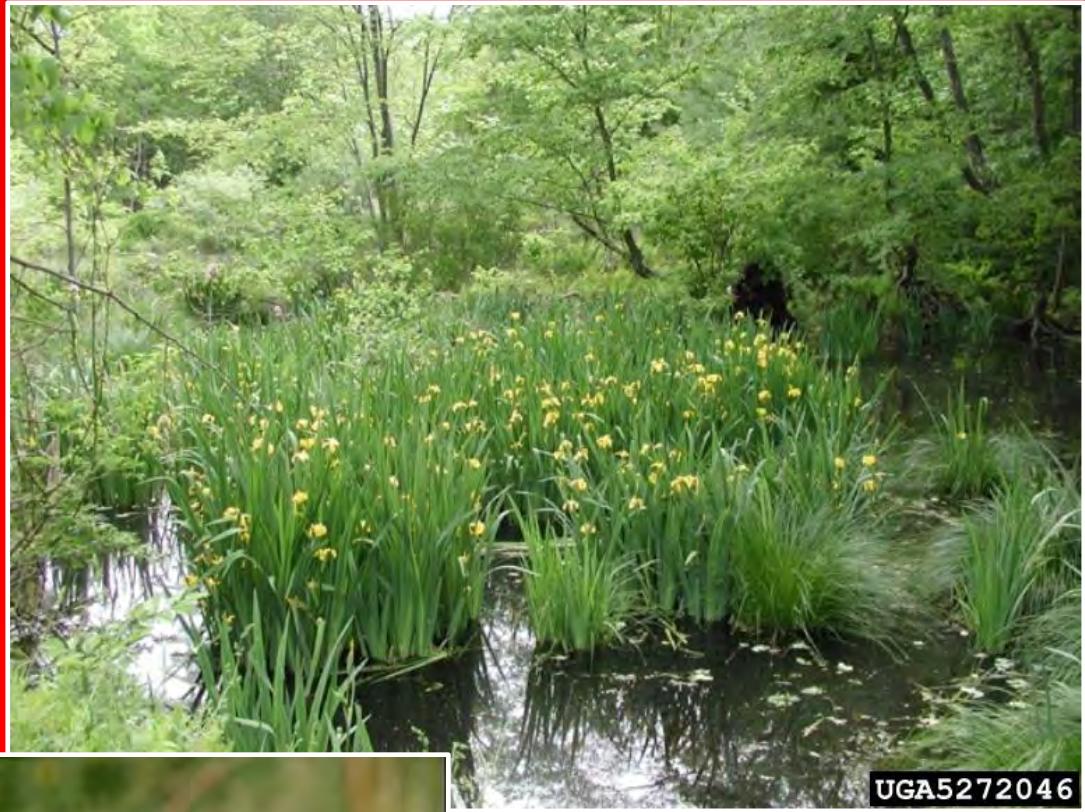
Drawing courtesy of IFAS
Center for Aquatic Plants

Illustration provided by:
IFAS, Center for Aquatic Plants
University of Florida, Gainesville, 1990

IPAC Tier 1



Nancy Loewenstein,
Auburn University,
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UGA5272046

Leslie J. Mehrhoff, University of
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Joseph M. DiTomaso, University of California - Davis, Bugwood.org

Yellow flag

Iris pseudacorus

Marsh dewflower

Murdannia keisak



Linda Lee, University of South Carolina, Bugwood.org



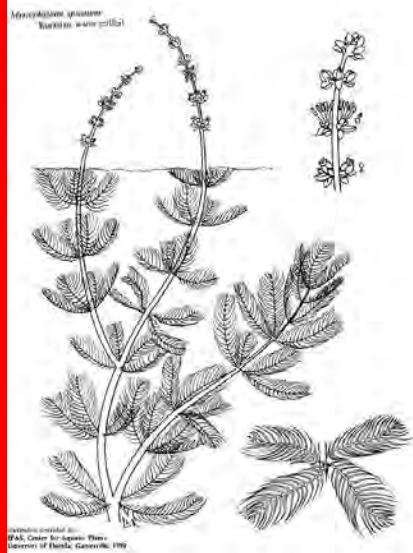
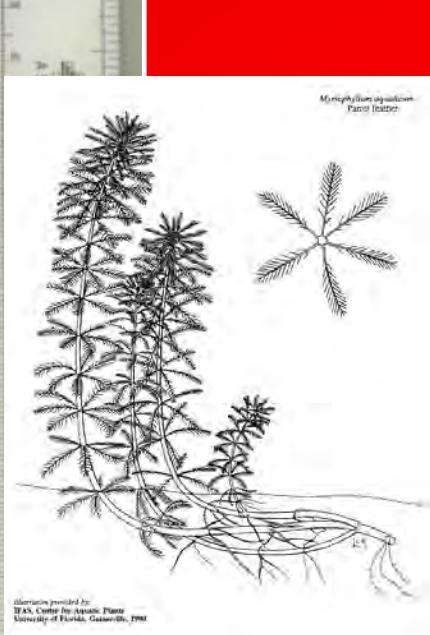
Native *Commelina virginica*
By Jim Stasz, hosted by
USDA-NRCS Plants
Database

Nancy Loewenstein,
Auburn University,
Bugwood.org

UGA2154036

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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