



Invasive Plant Identification for Regional Mapping

Statewide Eyes Training
for Eastern Maryland

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Trees

- Tree of heaven *Ailanthus altissima*
- Empress tree *Paulownia tomentosa*
- Callery pear *Pyrus calleryana*



Rhus typhina



Native lookalikes
staghorn and
shining sumac



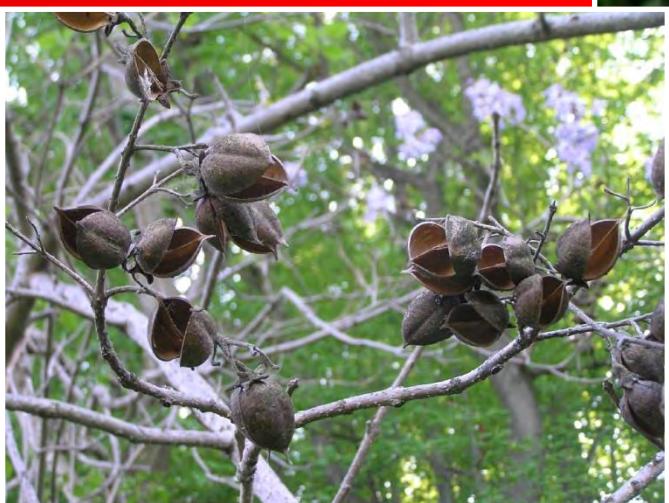
Rhus copallina



Tree of heaven

Ailanthus altissima





Empress tree

*Paulownia
tomentosa*

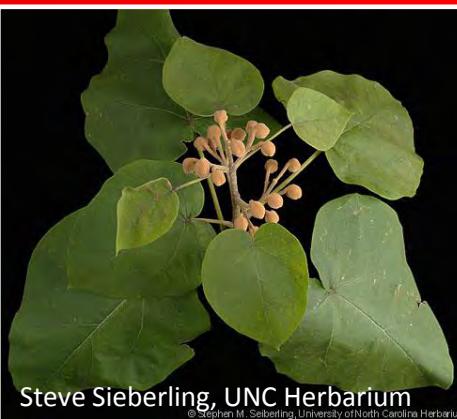
Empress tree

Paulownia tomentosa

Flowers



Leaves



Fruit



Northern catalpa

Catalpa speciosa



Bark



Callery pear

Pyrus calleryana



Photograph courtesy of Sara Tangren



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Shrubs

- Autumn olive *Elaeagnus umbellata*
- Privet species *Ligustrum spp.* **IPAC T2**
- Shrub honeysuckles *Lonicera spp.* **IPAC T1 (Amur)**
- Multiflora rose *Rosa multiflora*

Autumn olive

*Elaeagnus
umbellata*



Privet



Ligustrum obtusifolium

Border privet

L. sinense Chinese privet

L. vulgare Common privet



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L. sinense



Ronald Billings, Texas A&M Forest Service,
Bugwood.org

UGA5005004

L. vulgare



Nava Tabal, IPANE, Bugwood.org

UGA5078032

L. obtusifolium

IPAC Tier 2



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

5453163



Chris Evans,
Univ of
Illinois,
bugwood.org



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

UGA2307079



Photo by Pancrat, Creative Commons



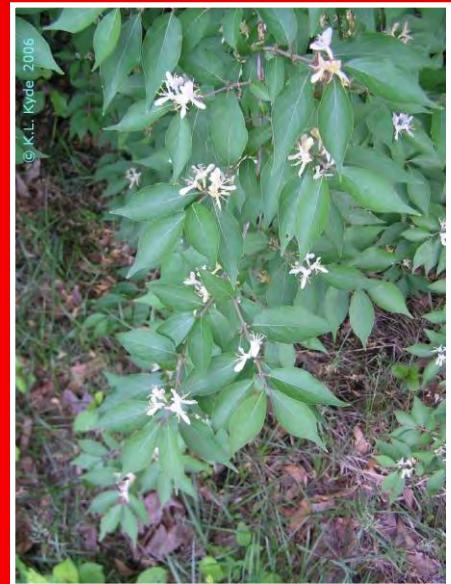
5453225

Shrub honeysuckle

Lonicera spp.

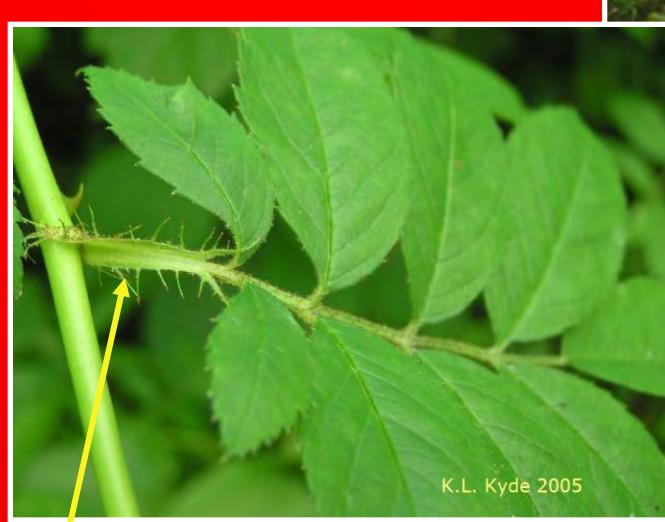


**IPAC Tier 1
(proposed):
Amur honeysuckle**



Multiflora rose

Rosa multiflora



Stipules



Vines

Herbaceous

- Japanese hop *Humulus japonicus*
- Mile-a-minute weed *Persicaria perfoliata*

Woody

- Porcelainberry *Ampelopsis brevipedunculata*
- Oriental bittersweet *Celastrus orbiculatus*
- English and Irish ivy *Hedera helix, H. hibernica*
- Japanese honeysuckle *Lonicera japonica*
- Kudzu *Pueraria montana* var. *lobata*
- Wisteria species *Wisteria floribunda, sinensis, hybrid*
IPAC Tier 2

Porcelainberry

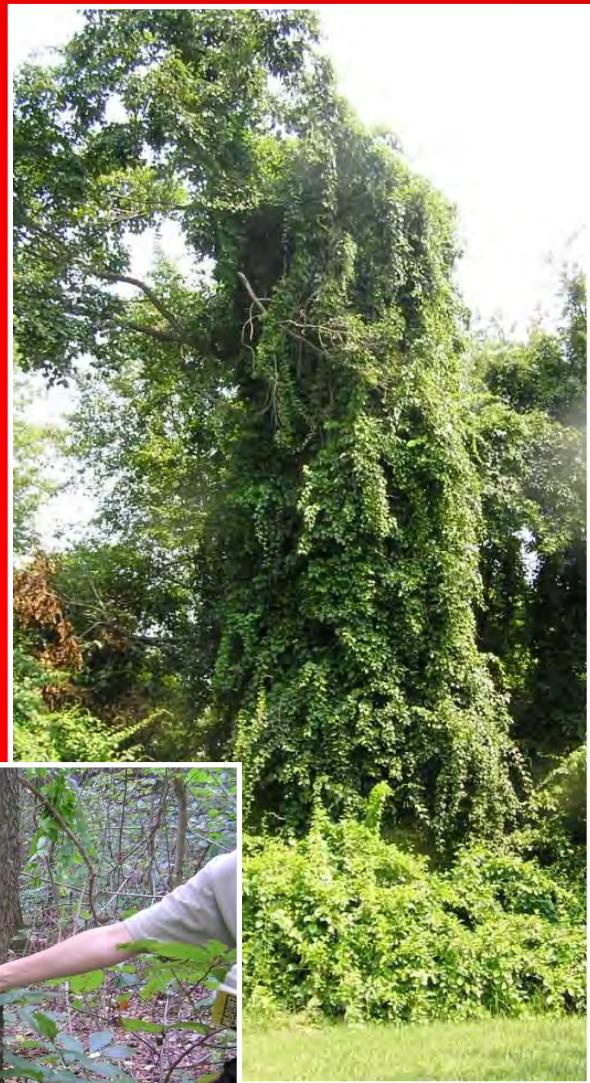
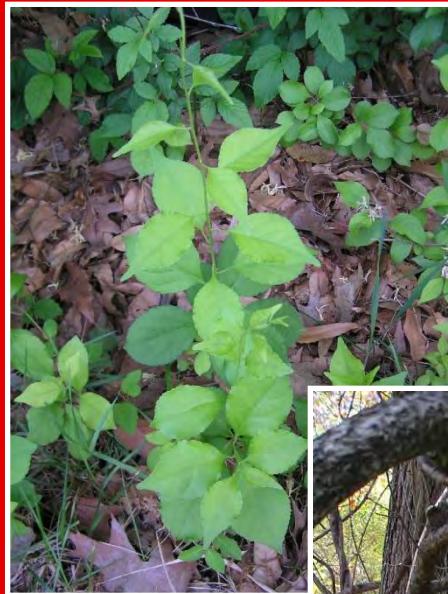
Ampelopsis brevipedunculata



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

Oriental bittersweet

Celastrus orbiculatus

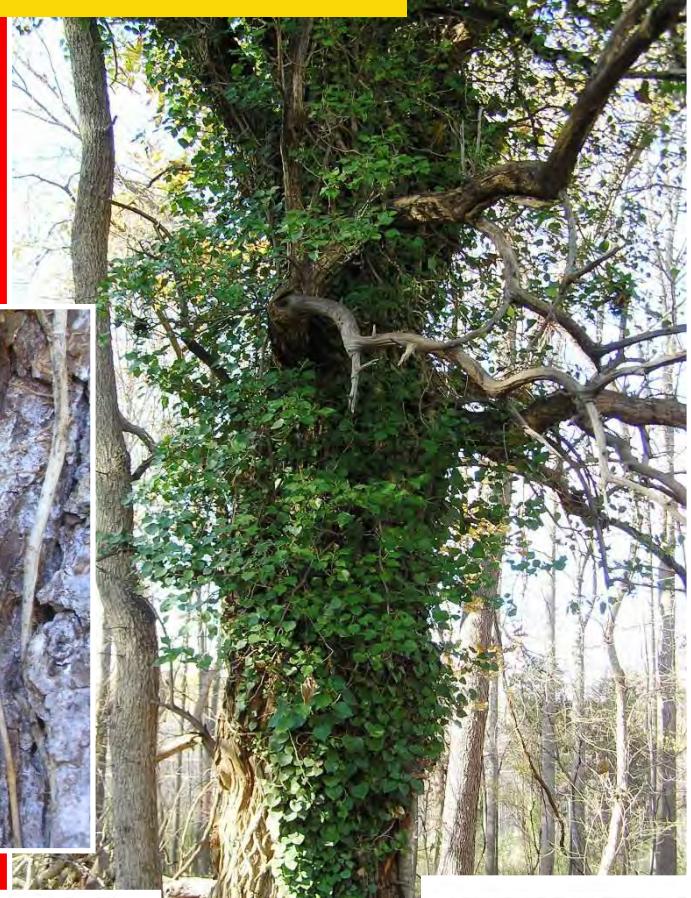
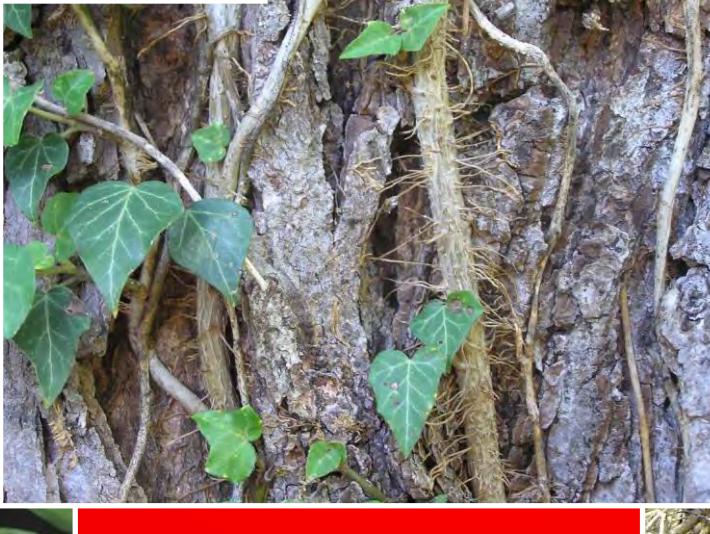




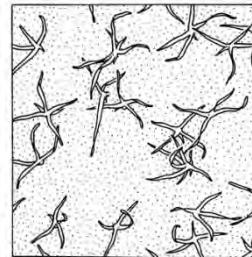
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English and Irish ivy

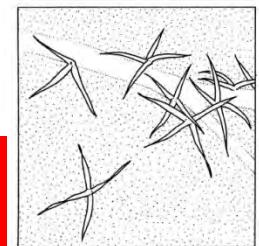
Hedera helix, H. hibernica



H. helix



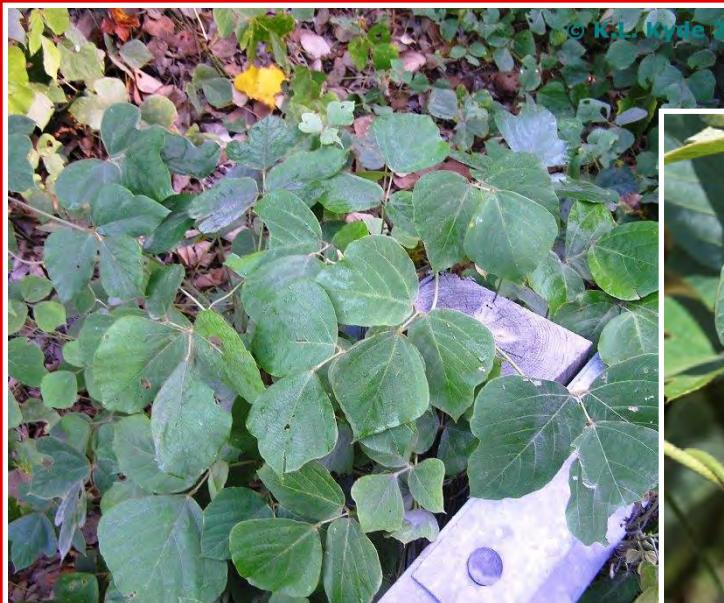
Drawings by
S. Bellanger
<http://alienplantsbelgium.be/content/hedera-hibernica>



Japanese honeysuckle

Lonicera japonica





Kudzu



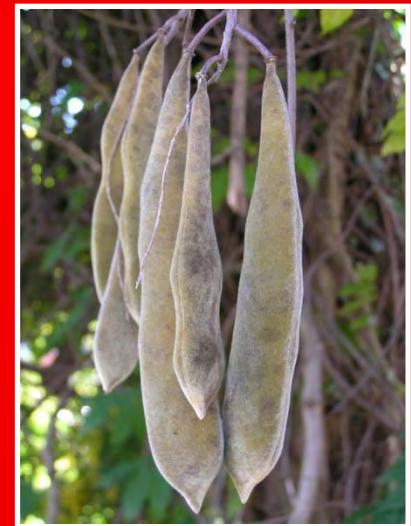
Pueraria montana var. lobata

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

Ted Bodner, SWSS,
www.forestryimages.org

Wisteria

Wisteria floribunda, sinensis, x formosa



IPAC Tier 2

Japanese hop



*Humulus
japonicus*



Native lookalike
Virginia creeper



Mile-a-minute

Persicaria perfoliata

Native lookalike
Halberd-leaved tearthumb
Polygonum arifolium



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



Herbs & Grasses

- Garlic mustard *Alliaria petiolata*
- Japanese knotweed *Fallopia japonica*
- 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



Britt Slattery, US Fish and Wildlife, Bugwood.org



Native violet



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*

Purple loosestrife



Lythrum salicaria



Japanese stilt grass



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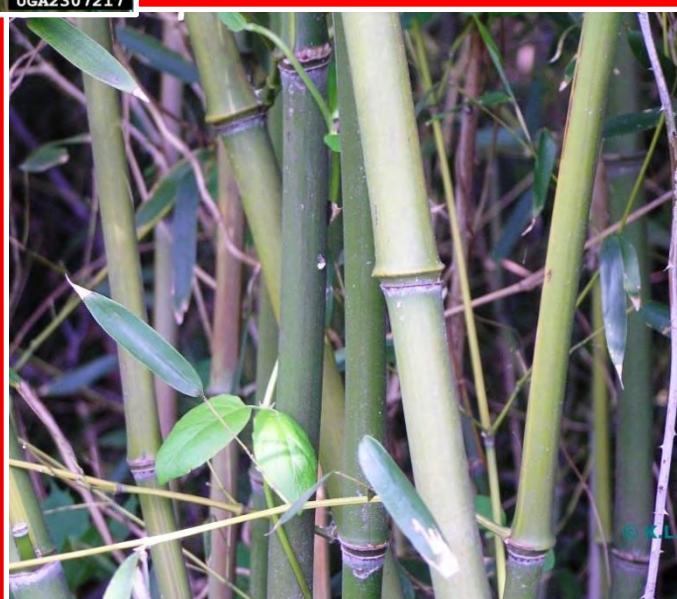


Microstegium vimineum

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 Tier 1
- Marsh dewflower *Murdannia keisak*
- Parrot-feather *Myriophyllum aquaticum*
- Eurasian watermilfoil *Myriophyllum spicatum*

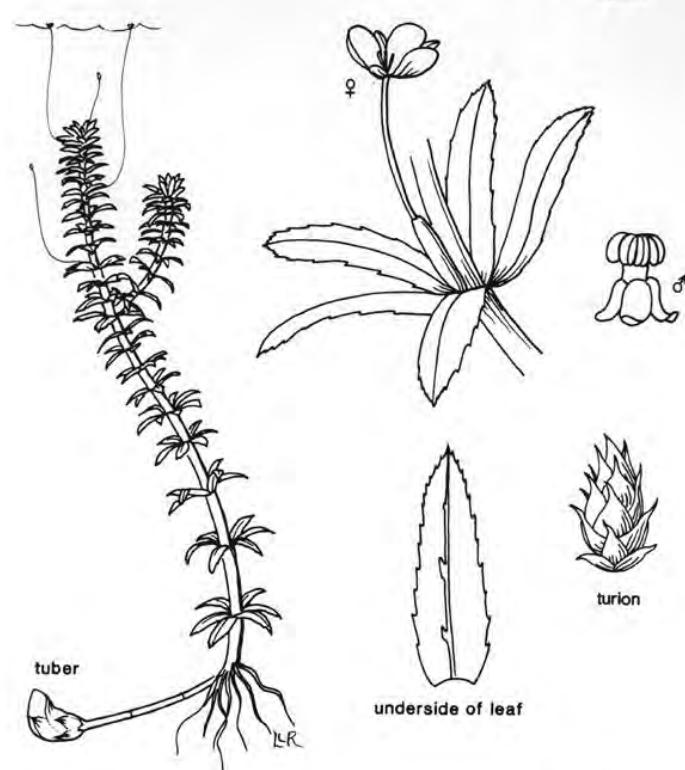


Vic Ramey,
Univ of Florida



Hydrilla

Hydrilla verticillata



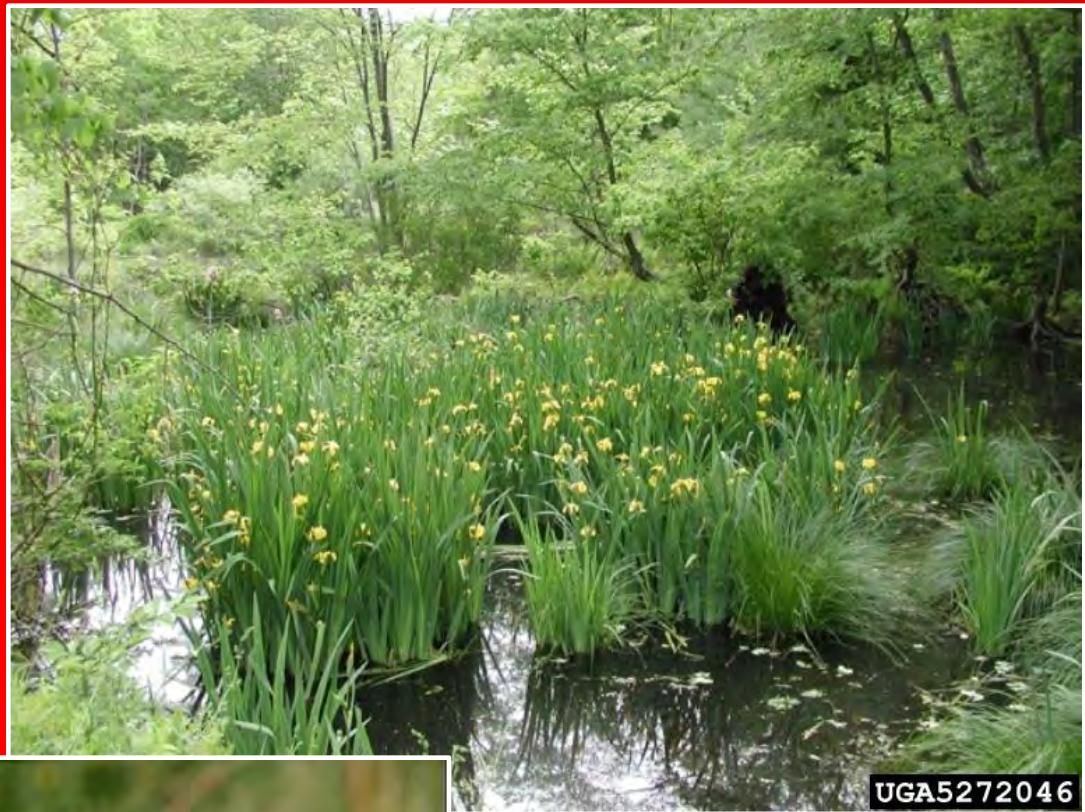
Drawing courtesy of IFAS
Center for Aquatic Plants

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

IPAC Tier 1



Nancy Loewenstein,
Auburn University,
Bugwood.org



UGA5272046

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



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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

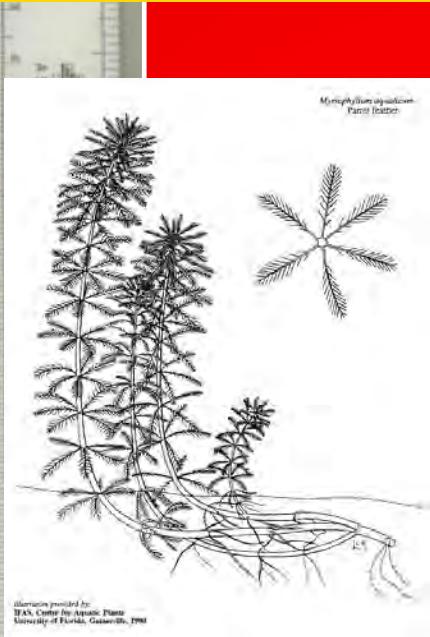
Nancy Loewenstein,
Auburn University,
Bugwood.org

Myriophyllum aquaticum and *spicatum*

All other images from
Maryland DNR



Parrot feather



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



Parrot feather
Myriophyllum aquaticum
photo by Vic Ramey
copyright 2001 Univ. Florida



Eurasian watermilfoil



THANK YOU!

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