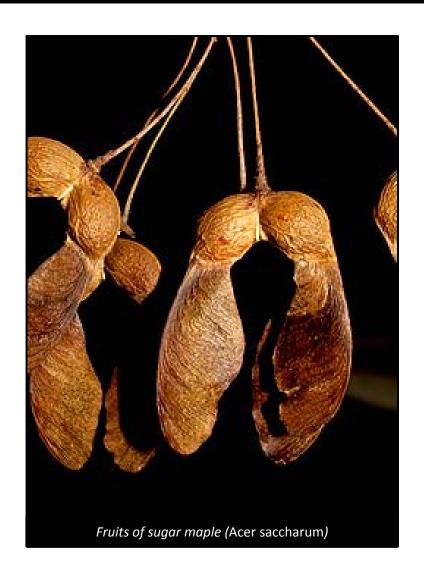
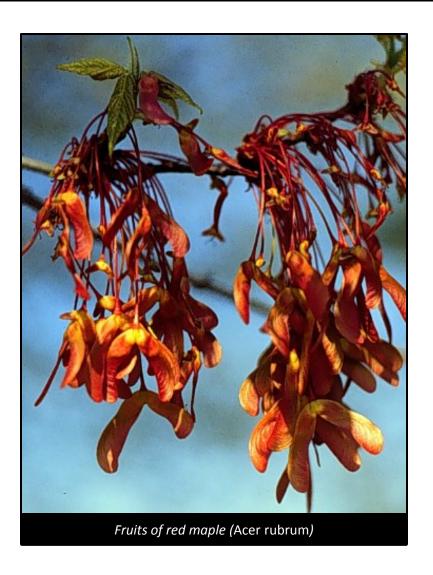
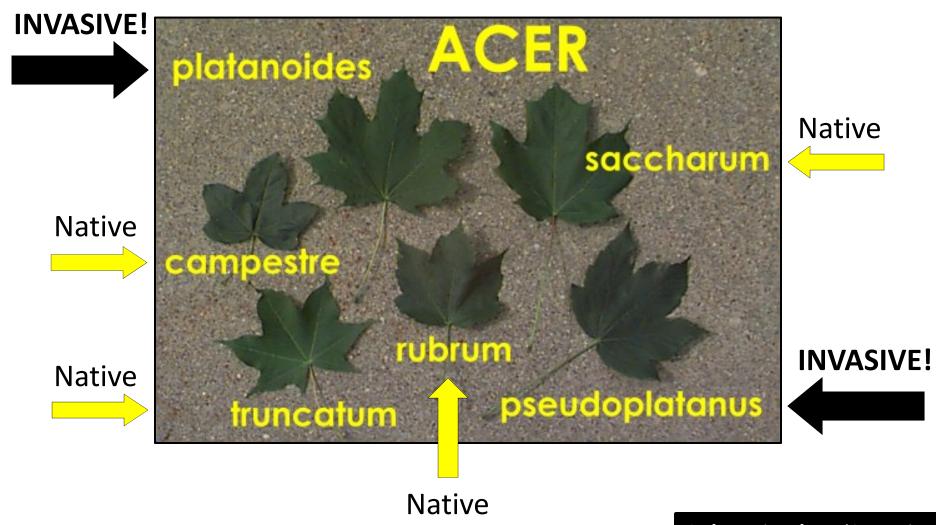
Section 1 Woody Plants: Trees & Shrubs

Acer spp. Native trees



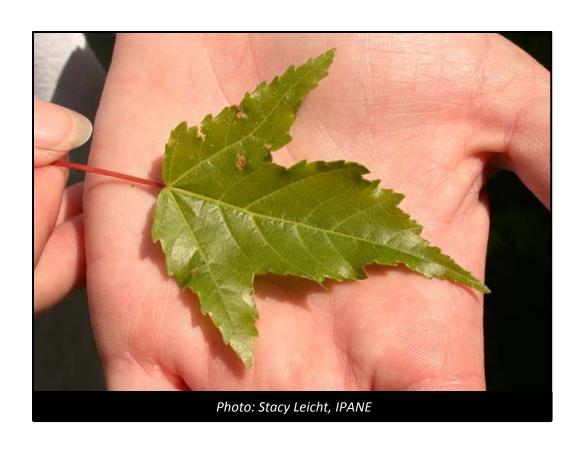


Acer spp. Leaf comparison of native & invasive trees



Leaf comparison of several Acer species.
Photo: USDA PLANTS database

Acer ginnala – Amur Maple Potentially invasive tree





Acer platanoides – Norway Maple Invasive tree









Acer pseudoplatanus – Sycamore Maple Potentially invasive tree





Ailanthus altissima – Tree-of-heaven Invasive tree



A patch of tree-of-heaven. Photo: Les Mehrhoff, IPANE



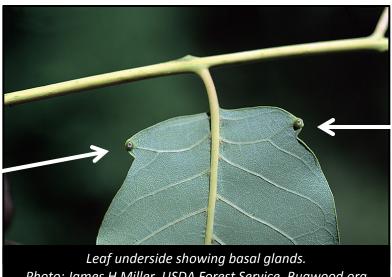


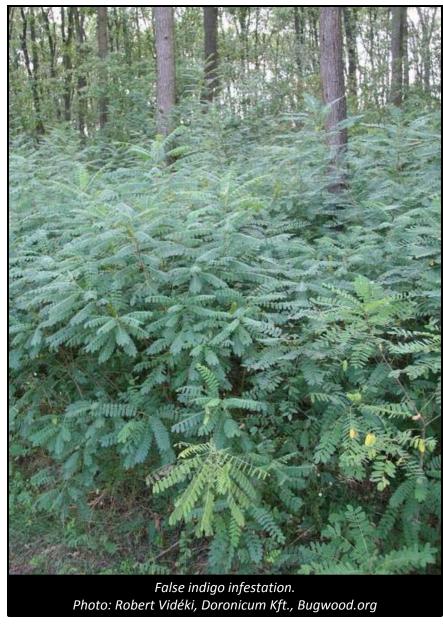
Photo: James H Miller, USDA Forest Service, Bugwood.org



Ailanthus altissima – Tree-of-heaven Invasive tree



Amorpha fruticosa – False Indigo Potentially invasive shrub





Amorpha fruticosa – False Indigo Potentially invasive shrub



Berberis thunbergii – Japanese Barberry Invasive shrub



Berberis vulgaris – Common Barberry Invasive shrub









Elaeagnus angustifolia – Russian Olive Potentially invasive shrub



Flowers. Photo: Les Mehrhoff, IPANE





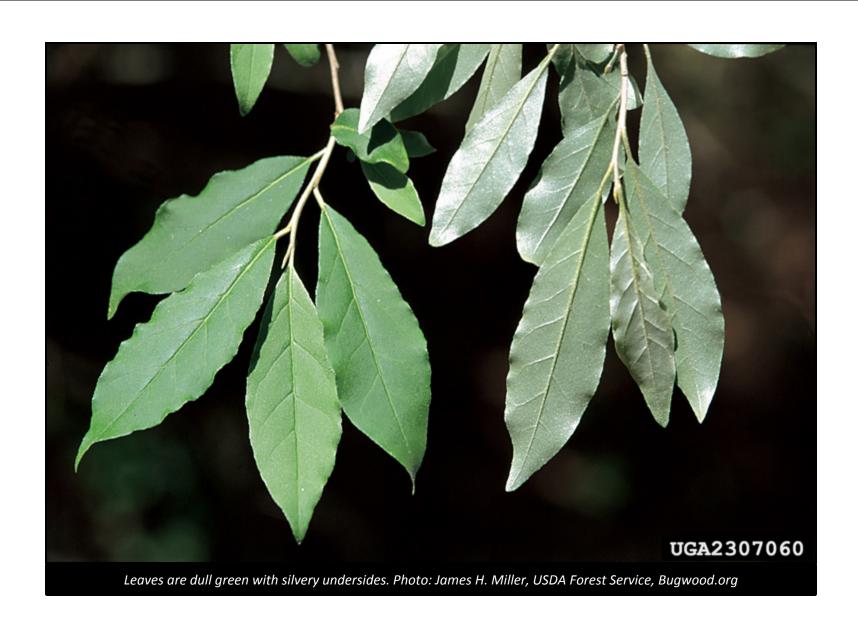
Elaeagnus umbellata – Autumn Olive Invasive shrub



Left: Flowers. Middle: Close-up of stem with brown lenticels. Photos: Les Mehrhoff, IPANE. Right: Some branches have sharp thorns. Photo: Nicole Gabelman, UConn



Elaeagnus umbellata – Autumn Olive Invasive shrub



Elaeagnus umbellata – Autumn Olive Invasive shrub



Comparison

Elaeagnus umbellata vs. Elaeagnus angustifolia Autumn Olive vs. Russian Olive

Autumn olive traits:

- **Flowers**: white to pale yellow
- **Leaves**: oval to lanceolate; glabrescent top surface
- **Fruits**: red, succulent with metallic flecks

Russian olive traits:

- Flowers: yellow
- Leaves: narrow/lanceolate;hairy on all surfaces
- **Fruits**: white to red, mealy with silver scales

Euonymus alatus – Winged Euonymus (Burning Bush) Invasive shrub



Euonymus alatus – Winged Euonymus (Burning Bush) Invasive shrub



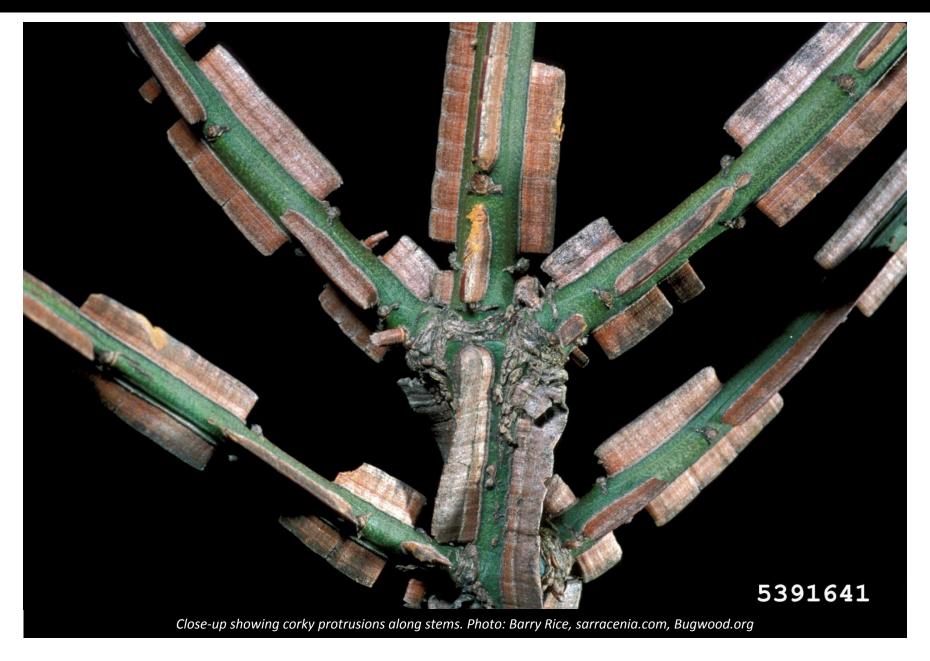
Foliage changes to a bright scarlet in the fall.
Photo: Les Merhhoff, IPANE.



Red-purple ovary walls split open to reveal seeds encased in a red-orange fruit. Photo: Nicole Gabelman, UConn



Euonymus alatus – Winged Euonymus (Burning Bush) Invasive shrub



Frangula alnus – Glossy Buckthorn Invasive shrub





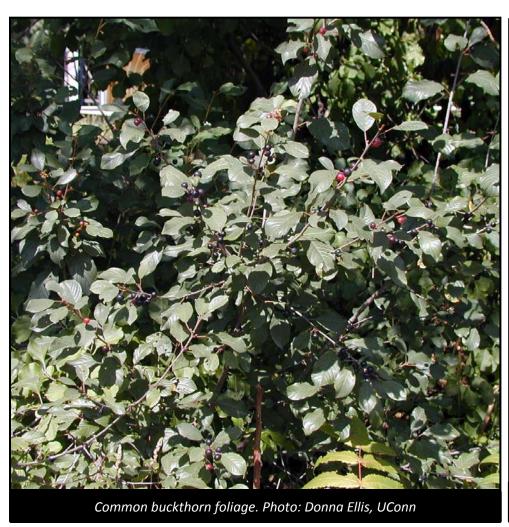


Photos: Les Mehrhoff, IPANE

Rhamnus cathartica – Common Buckthorn Invasive shrub



Rhamnus cathartica – Common Buckthorn Invasive shrub





Invasion of common buckthorn.
Photo: John M. Randall, The Nature Conservancy, Bugwood.org

Frangula alnus – Glossy Buckthorn





Bottom photo: Rob Routledge, Sault College, Bugwood.org

Rhamnus cathartica – Common Buckthorn





Common buckthorn flowers. Top photo: Les Mehrhoff, IPANE. Bottom photo: Rob Routledge, Sault College, Bugwood.org

Comparison

Frangula alnus vs. Rhamnus cathartica Glossy Buckthorn vs. Common Buckthorn

Glossy buckthorn traits:

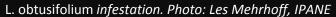
- Leaves: glossy; oblong to elliptical; alternate
- **Leaf venation**: five or more pairs of veins that run parallel from the midrib; smooth or wavy along margins
- **Flowers**: greenish-yellow with five petals
- -**Fruits**: ripen from red to purpleblack fruit with two to three seeds
- Twigs: thornless

Common buckthorn traits:

- Leaves: dull green; oblong; opposite
- **Leaf venation**: three to four pairs of veins which curve toward the tip from the mid-vein; tiny teeth along margins
- -**Flowers**: greenish-yellow with four petals
- **Fruits**: black fruit with three to four seeds
- **Twigs**: spike-like thorns at the tips

Ligustrum spp. – Privets Potentially invasive shrubs









L. vulgare (left) and L. obtusifolium (right) flowers are yellow to white. Left photo: Nava Tabak, IPANE, Bugwood.org. Right photo: Les Mehrhoff, IPANE



L. vulgare has opposite leaves. Photo: Les Mehrhoff, IPANE



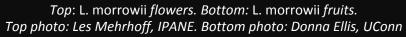


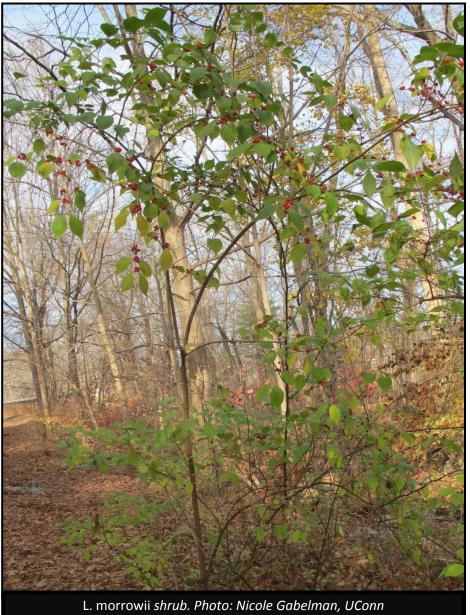
L. obtusifolium (left) and L. ovalifolium (right) fruits are dark blue to black. Photos: Les Mehrhoff, IPANE

Lonicera morrowii – Morrow's Honeysuckle Invasive shrub









Lonicera tatarica – Tatarian Honeysuckle Potentially invasive shrub



<u>Comparison</u> *Lonicera* spp.



Rubus phoenicolasius – Wineberry Invasive shrub







