

Terrestrial Invasive Species

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Terrestrial Invasive Species



Kerry Britton, USDA Forest Service, Bugwood.org

GA0002156



Leah Bauer, USDA Forest Service Northern Research Station, Bugwood.org

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Johnson Grass



Joseph M. DiTomaso,
University of California -
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Invasive Grasses

Cogongrass



Cogongrass – *Imperata cylindrica*

Johnson Grass – *Sorghum halepense*



Chris Evans, University of Illinois, Bugwood.org



Invasive Grasses

Spread from rhizomes, seeds and equipment
Difficult to control (mechanical/chemical)



Invasive Shrubs

- Multiflora rose – *Rosa multiflora*
- Salt Cedar – *Tamarix* spp.

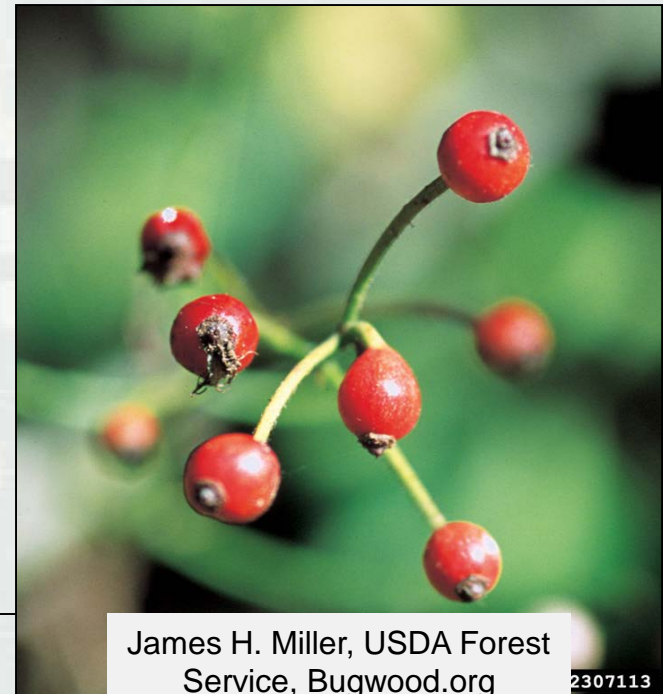


Leslie J. Mehrhoff, University
of Connecticut, Bugwood.org



Invasive Shrubs

- ▶ Spreads from seeds (wind, animal dispersed)
- ▶ Resprouts from roots
- ▶ Control can be achieved with mechanical or chemical techniques, but resprouts and new germination requires monitoring



Invasive Trees

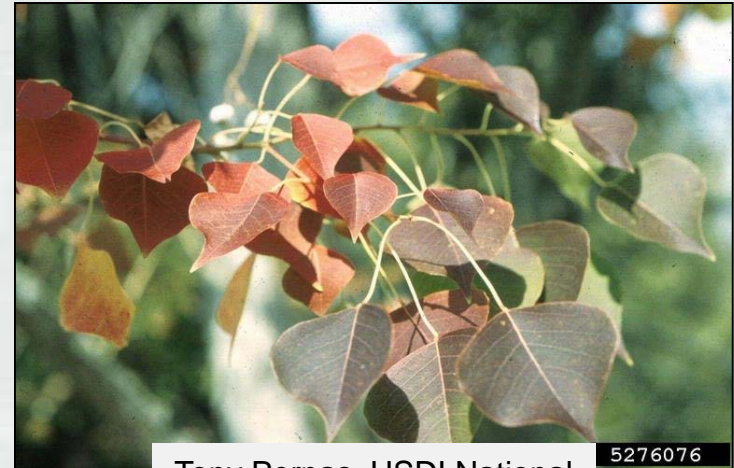
Russian olive –
Elaeagnus angustifolia



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Chinese tallow – *Triadica sebifera*



Tony Pernas, USDI National
Park Service, Bugwood.org

5276076



Cheryl McCormick, University
of Florida, Bugwood.org

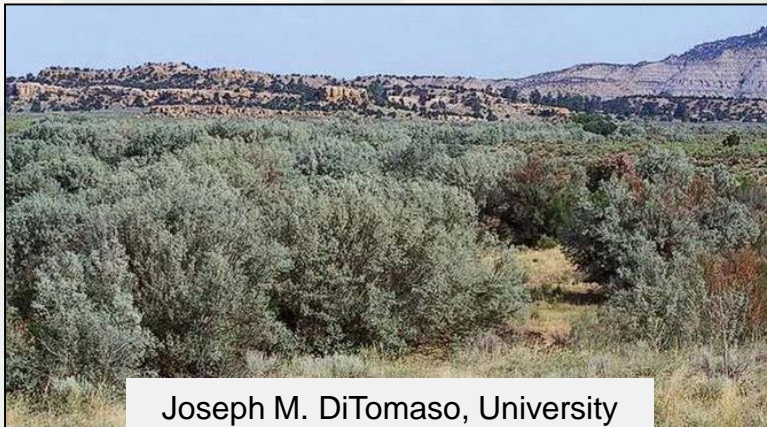
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Invasive Trees

- ▶ Long distance spread by birds
- ▶ Alters structure & function of ecosystems
- ▶ Control with mechanical, chemical and potentially biological
 - Greater lag time between germination and reproduction



Steve Dewey, Utah State University, Bugwood.org



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



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



BUILDING STRONG®

Invasive Vines



Chuck Barger, University
of Georgia, Bugwood.org

UGA1150069

Japanese honeysuckle –
Lonicera japonica



Leslie J. Mehrhoff, University
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5483499

Kudzu – *Pueraria montana*



James R. Allison, Georgia
Department of Natural
Resources, Bugwood.org

UGA0001064



Kerry Britton, USDA Forest
Service, Bugwood.org

UGA0002156

STRONG®

Invasive Vines

- ▶ Aggressive growth smothers other plants
- ▶ Roots from nodes
- ▶ Difficult to control (biocontrol – goats)



James R. Allison, Georgia
Department of Natural
Resources, Bugwood.org

UGA0001064



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

UGA1120421

TRONG®

Mammals

- Feral hogs
 - ▶ Create disturbance that facilitates invasive plant establishment
 - ▶ Erosion issues
 - ▶ Destroy crops and native plants



Invasive Insects

Emerald Ash Borer



Leah Bauer, USDA Forest Service
Northern Research Station,
Bugwood.org

Redbay Ambrosia Beetle



Michael C. Thomas, Florida
Department of Agriculture and
Consumer Services, Bugwood.org



Invasive Insects

- ▶ Devastating impacts to forests
- ▶ No effective landscape scale controls
- ▶ Key is to prevent spread

Damage from emerald ash borer



Troy Kimoto, Canadian Food
Inspection Agency, Bugwood.org

5515077

Damage from redbay ambrosia beetle



Albert (Bud) Mayfield, USDA
Forest Service, Bugwood.org

UGA2200002

Questions?



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