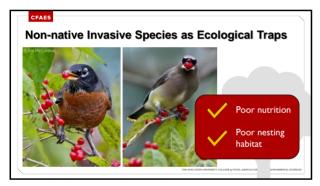




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## CFAES

# Non-native Invasive Species as Ecological Traps

- Wood thrush and robin higher nest predation in honeysuckle and buckthorn (Schmidt and Whelan 1999)
- Cardinals nesting in honeysuckle fledged 20% fewer young (Rodewald, 2010)
- Early leaf-out appealing for nesting



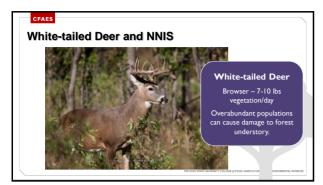


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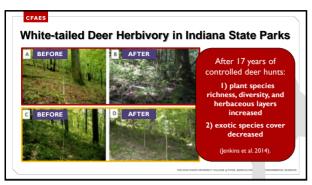
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# Disrupting Food Webs Lepidoptera Butterflies, skippers, and moths Pollinator diversity decreased in honeysuckle invaded areas Spring caterpillar and summer butterfly diversity down (Doyle, thesis, 2006) Removing privet increased diversity and abundance of butterflies and native bees (Hanula and Horn, 2011)



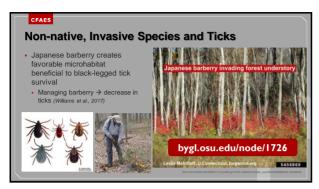


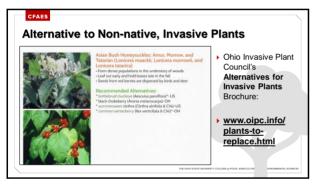


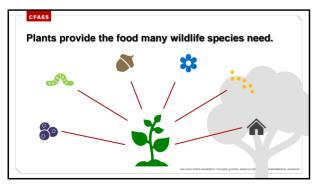


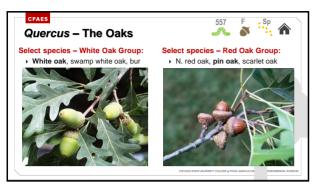




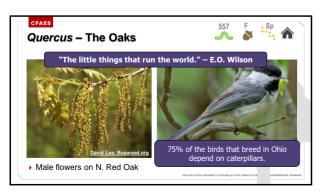


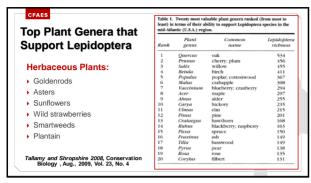


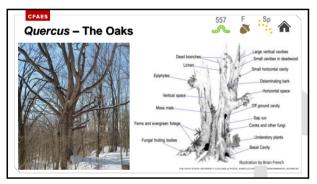


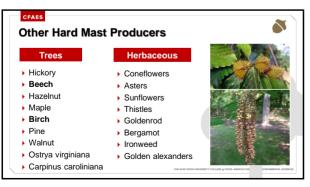




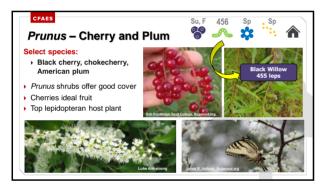






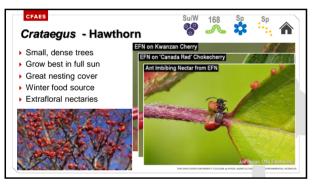


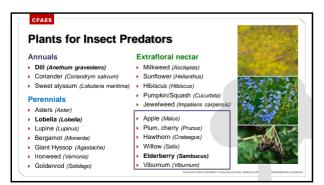




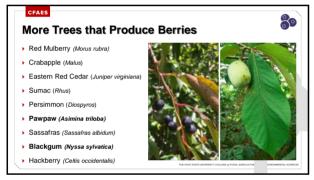




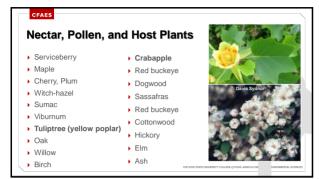




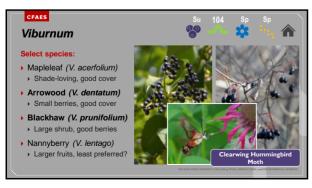








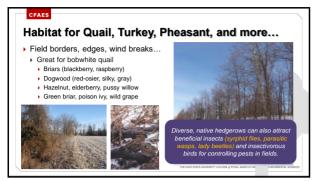
















## CFAES

# Pollen Specialist Bees and their Plants

- ~25% or 700+ native bees in eastern U.S. are pollen specialists
- Plants that support pollen specialists:
- · Salix (willow)
- · Cornus (dogwood)
- Vihurnum
- · Ilex (holly)
- · Vaccinium (blueberry/cranberry)
- · Cercis (redbud)
- · Asteracea (aster family)



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## A few others...

- ▶ Sumac (Rhus) staghorn, winged, smooth, fragrant
- ▶ Spicebush (Lindera benzoin)
- ▶ Chokeberry (Aronia) red, black
- ▶ Diervilla Ionicera native bush honeysuckle
- ▶ Woodland vines wild grape, v. creeper, poison
- ▶ Virginia sweetspire (Itea virginica)
- ▶ Sweetpepperbush (Clethra alnifolia)
- ▶ Bottlebrush buckeye (Aesculus parviflora)



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# **Alternatives to Invasive Species:**

- ▶ Ohio Invasive Plant Council's Alternatives for Invasive Plants Brochure
- www.oipc.info/plants-to-replace.html
- SHRUB Deciduous shrub or small tree with heavy fruit production
   Produces many seedlings and has vigorous sprouting
  • Prefers more upland habitats than glossy buckthorn

Hecommended Atternatives: black chokeberry (Aronia melanocarpa)\*-OH gray dogwood (Cornus racemosa)\*-OH (native) bush-honeysuckles (Diervilla spp.)-US common witch-hazel (Hamamelis virginiana)-OH

More on witch-hazels from Secrest Arboretum's Paul Snyder: bygl.osu.edu/node/1751



### CFAE

# **Upcoming Webinars Related to this Topic:**

- March 12<sup>th</sup> Day in the Woods Program Trees and Shrubs for Wildlife
- ▶ Register u.osu.edu/seohiowoods
- ▶ Ohio Women in Science Series Thursdays in March
- ▶ March 4 Jennifer Windus Invasive Plants and Habitat Restoration

THE OHO STATE UNIVERSITY COLLEGE of POOD, ADRICULTUR

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## CEAES

## Recommended Resources/Books:

- Shrubs and Woody Vines of Indiana and the Midwest by Sally and Harmon Weeks
- Native Trees of the Midwest by Weeks, Weeks, and Parker
- Ohio Trees for Bees OSU Extension fact sheet
- Enhancing Food (Mast) Production for Woodland Wildlife OSU Extension fact sheet
- Xerces Society xerces.org
- Lady Bird Johnson Wildflower Center wildflower.org
- More info on specialist bees:
- jarrodfowler.com/host\_plants.html
- jarrodfowler.com/specialist bees.html



