

# The Impact of Invasive Species National Impacts At least \$200 million annual losses to the Great Lakes Region. Leafy spurge costs more than \$144 million a year. Efforts to control purple loosestrife cost \$45 million per year. The estimated damage from invasive species worldwide totals more than \$1.4 trillion--five percent of the global economy. The annual US cost from invasives is \$120 billion, with over 100 million acres being affected Ohio alone - Forest products industry add \$22 billion to the economy.

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# The Threat of Invasive Species on Wildlife

- ▶ Invasive species are one of the leading threats to native wildlife
- Loss and degradation of habitat continues to be the primary threat to Ohio's wildlife



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# **Outcompete Native Species**

- Oak species regeneration is low in our forests
  - Require disturbance to let some light in and decrease competition
  - Competition from invasives
    - Seeds from buckthorn germinate 2 weeks faster
- What is on the forest floor is the future forest...







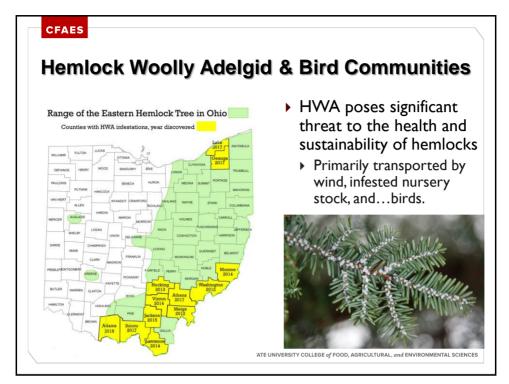


Invasive Species Impacts on Wildlife

Arthropod community response to non-native invasive plants Total abundance of arthropods decreased in 62% of studies taxonomic richness decreased in 48% of studies."

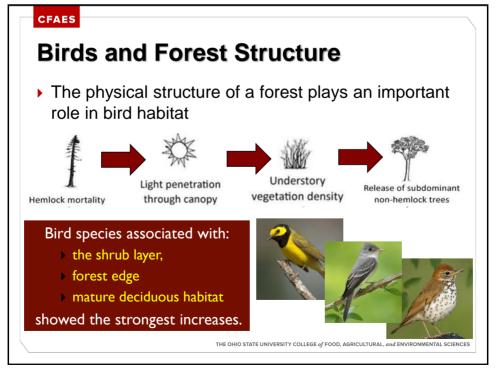
(Litt et al. 2014)

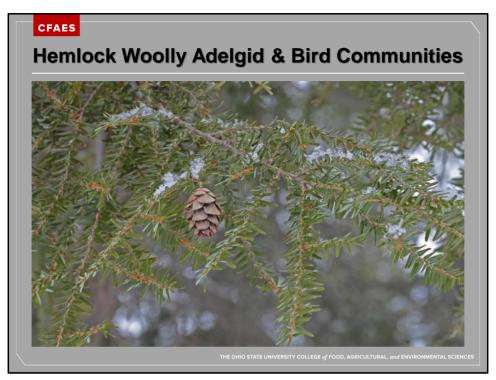
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## **Hemlock Woolly Adelgid & Bird Communities**

Similar studies have found changed or declined bird communities in EAB infested stands and honeysuckle invaded stands. Unfortunately, this is a very common ecological response when non-native species are introduced into new areas.

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