# **INVASIVE SPECIES IN OHIO**

# What is an invasive species?

Invasive alien species are plants, animals, or other organisms that are introduced to a given area outside their original range and cause harm in their new home. Because they have no natural enemies to limit their reproduction, they usually spread rampantly. Invasive alien species are recognized as one of the leading threats to biodiversity and impose enormous costs to agriculture, forestry, fisheries, and other human enterprises, as well as to human health.



Zebra Mussels (USGS)

• The cost to control invasive species and the damages they inflict upon property and natural resources in the U.S. is estimated at \$137 billion annually.

Invasive Species in Ohio: A Quick Look

Ohio has been invaded by a number of harmful exotic plants and animals. Here is a quick look at some of the worst current and potential invaders:

| Name                 | Туре    | Origin   | Extent  | Damage   |
|----------------------|---------|--|---|--|
| Zebra mussel         | Mollusk | Caspian Sea region of<br>Asia; accidentally<br>released into Lake St.<br>Clair in 1988 in ship<br>ballast water                              | Found in Lake<br>Erie and 27<br>other lakes,<br>plus Ohio and<br>Scioto Rivers                                | Voracious filter feeders that out-<br>compete native animals; fouls<br>boats & clogs intake pipes at<br>power plants and municipal<br>water sources  |
| Chestnut<br>blight   | Fungus  | China; probably introduced on nursery stock in the 1890s. It was first detected in New York city in 1904.                                    | By 1926, the<br>disease had<br>devastated<br>chestnuts from<br>Maine to<br>Alabama                            | Chestnut once comprised one-<br>fourth to one-half of eastern<br>U.S. forests, and was prized for<br>its durable wood, and as a food<br>for humans, livestock and<br>wildlife. Today, only stump-<br>sprouts from killed trees remain. |
| Dutch elm<br>disease | Fungus  | Asia; one strain of the disease arrived in Cleveland in the 1930s, on infected elm logs from Europe; a more virulent strain arrived in 1940s | American elm<br>originally<br>ranged in all<br>states east of<br>Rockies- most<br>of this area is<br>infested | Elms were once the nation's most popular urban street tree, have now largely disappeared from both urban and forested landscapes. It is estimated that "Dutch" elm disease has killed over 100 million trees.                          |
| Emerald ash borer    | Beetle  | Asia; discovered near<br>Detroit in 2002,<br>probably entered in<br>solid wood packing<br>material   | Discovered in<br>Ohio in 2003,<br>now present in<br>at least four<br>counties                                 | In just two years, the emerald ash borer has killed 8 to 10 million trees in MI, OH and IN, and it is spreading quickly despite quarantine efforts   |
| Codling moth         | Insect  | Europe; introduced<br>by settlers over 200<br>years ago  | Problematic in<br>all fruit-<br>growing areas<br>in OH  | Has been a major pest of fruit orchards in Ohio since the 1860s.   |

| Name           | Type   | Origin                | Extent      | Damage                            |
|----------------|--------|-----------------------|-------------|-----------------------------------|
| Canada thistle | Plant  | Despite the name,     | Found       | Aggressive and highly             |
|                |        | Canada thistle is     | throughout  | competitive, competes with        |
|                |        | native to Eurasia     | Ohio        | crops and forage plants; less     |
|                |        |                       |             | palatable to wildlife & livestock |
| European       | Insect | Europe, probably      | All of U.S. | Feeding damages leaves, stalks    |
| corn borer     |        | arrived in 1900s in a | east of the | and ears. Estimated to cost \$1   |
|                |        | shipment of corn      | Rocky       | billion annually in U.S.          |
|                |        | brooms                | Mountains   |                                   |

# What Congress Can Do:

### A. Make Prevention Our Top Priority

- Reverse current U.S. policy on the intentional import of live plants and animals, that is, switch from a "dirty" to a "clean" list approach that requires screening for invasiveness before import and which keeps out or limits import of species so as to prevent harm to native species or ecosystems and make the legislative changes to do so.
- Substantially cut the unintentional introduction of aquatic invaders by overseeing federal standardsetting on the discharge of ballast water in the United States, supporting the development of technology to meet these standards; ensuring that agencies monitor and enforce compliance; and reauthorizing the 1996 National Invasive Species Act in the strongest and most comprehensive form.
- When considering, reviewing, or approving trade agreements, rigorously address invasive species, e.g., by allowing for restriction of imports of non-native species that are invasive elsewhere and by identifying pathways by which inadvertent introductions travel so that they may be interrupted.

## B. Make Federal Agencies More Effective

- Use oversight authority to ensure that all federal agencies immediately and strongly implement that
  part of Executive Order 13112 that asks them to identify and reduce actions that introduce or spread
  invasive species in the United States or elsewhere.
- Appropriate adequate funds so that federal agencies have the resources to address invasive species problems promptly and comprehensively over the long-term.
- Strengthen the structure and leadership of the National Invasive Species Council and prompt more aggressive implementation of its National Management Plan.
- Oversee the work of the U.S. Department of Agriculture's Animal and Plant Health Inspection Service to ensure that the agency and its Administrator are committed to protecting biological diversity as well as agriculture.
- Evaluate the serious problems with border inspection for pests, weeds, and pathogens, e.g., in staffing and cross-department coordination, exacerbated by moving these functions into the Department of Homeland Security and amend its authorizing legislation if needed.

#### References:

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