INVASIVE SPECIES IN INDIANA

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.

• 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 Indiana: A Quick Look

Indiana 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	Ohio and	Voracious filter feeders that out-
		Asia; accidentally	Wabash	compete native animals; fouls
		released into Lake St.	Rivers, Lake	boats & clogs intake pipes at
		Clair in 1988 in ship	Michigan and	power plants and municipal
		ballast water	42 other lakes	water sources
Chestnut	Fungus	China; probably	By 1926, the	Chestnut once comprised one-
blight		introduced on nursery	disease had	fourth to one-half of eastern
		stock in the 1890s. It	devastated	U.S. forests, and was prized for
		was first detected in	chestnuts from	its durable wood, and as a food
		New York city in	Maine to	for humans, livestock and
		1904.	Alabama	wildlife. Today, only stump-
				sprouts from killed trees remain.
Dutch elm	Fungus	Asia; one strain of the	American elm	Elms were once the nation's
disease		disease arrived in the	originally	most popular urban street tree,
		1930s in Cleveland,	ranged in all	have now largely disappeared
		OH on infected elm	states east of	from both urban and forested
		logs from Europe; a	Rockies- most	landscapes. It is estimated that
		more virulent strain	of this area is	"Dutch" elm disease has killed
		arrived in 1940s	infested	over 100 million trees.
Emerald ash	Beetle	Asia; discovered near	Discovered in	In just two years, the emerald
borer		Detroit in 2002,	Indiana in	ash borer has killed 8 to 10
		probably entered in	2004, now	million trees in MI, OH and IN,
		solid wood packing	found in 14	and it is spreading quickly
		material	counties	despite quarantine efforts
Purple	Wetland	Europe & Asia;	Found	Displaces native wetland plants;
loosestrife	plant	introduced in 1800s	throughout	has less food and habitat value
		as ornamental or ship	Indiana	for waterfowl and other wildlife
		ballast water		

Name	Туре	Origin	Extent	Damage
Garlic	Weed	Europe; brought by	Found	Grows earlier in spring than
mustard		settlers as a vitamin- rich winter herb	throughout Indiana	native plants, allowing it to dominate forest understory and
				crowd out natives

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:

Emerald Ash Borer Info. http://www.emeraldashborer.info/ Forest Pathology.org. Chestnut Blight. http://www.forestpathology.org/dis_chestnut.html How to Identify and Manage Dutch Elm Disease. http://na.fs.fed.us/spfo/pubs/howtos/ht_ded/ht_ded.htm#intro Indiana DNR Purple Loosestrife Fact Sheet http://www.ai.org/dnr/entomolo/nursery/purple.htm Indiana's "Most Unwanted" Invasive Plant Pests: http://extension.entm.purdue.edu/CAPS/ NPS Garlic Mustard Fact Sheet http://www.nps.gov/plants/alien/fact/alpe1.htm USGS Zebra Mussel Page. http://nas.er.usgs.gov/taxgroup/mollusks/zebramussel/

For more information, please contact Aimee Delach at Defenders of Wildlife 202-682-9400 x271 **t** <u>adelach@defenders.org</u>