INVASIVE SPECIES IN MINNESOTA

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 Minnesota: A Quick Look

Minnesota 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	Lake Superior	Voracious filter feeders that out-
		Asia; accidentally	& two other	compete native animals; fouls
		released into Lake St.	lakes,	boats & clogs intake pipes at
		Clair in 1988 in ship	Mississippi	power plants and municipal
		ballast water	River	water sources
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.
Round Goby	Fish	Black & Caspian	Found	Displaces native fish and eat
		Seas in Europe;	throughout	their eggs and fish; are able to
		introduced via ship	Minnesota	survive even in poor quality
		ballast water in 1990	waterbodies	water
			and Great	
			Lakes	
Asian Carp	Fish	Asia; introduced in	Mississippi,	Voracious eaters that
(Bighead,		the 1970s for	Missouri, &	outcompete native species for
Black, Silver)		aquaculture and	Illinois Rivers	food resources; silver carp pose
. ,		escaped		physical danger to boaters due
		1		to their leaping abilities
Purple	Wetland	Europe and Asia;	Minnesota	Displaces native wetland plants;
loosestrife	plant	introduced in 1800s	currently has	has less food and habitat value
	L	as ornamental and	over 58,000	for waterfowl and other wildlife
		medicinal plant or	acres infested	
		ship ballast water		

Name	Туре	Origin	Extent	Damage
Earthworms	Terrestrial Animal	Europe and Asia; arrived with soils and plants or via ship ballast in late 1800s/early 1900s or more recently as fish bait	At least 7 species present in Minnesota forests	Invading earthworms eat the leaves that create duff which causes soil erosion, negatively affects young seedlings, ferns, and wildflowers and decreases the habitat for ground-dwelling animals

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:

How to Identify and Manage Dutch Elm Disease. <u>http://na.fs.fed.us/spfo/pubs/howtos/ht_ded/ht_ded.htm#intro</u> USGS Zebra Mussel Page. <u>http://nas.er.usgs.gov/taxgroup/mollusks/zebramussel/</u>

Minnesota DNR Round Goby Fact Sheet <u>http://www.dnr.state.mn.us/invasives/aquaticanimals/roundgoby/index.html</u> Minnesota DNR "Field Notes- Big Carp Problem" <u>http://www.dnr.state.mn.us/volunteer/marapr04/fncarp.html</u> Minnesota DNR Purple Loosestrife Fact Sheet

http://www.dnr.state.mn.us/invasives/aquaticplants/purpleloosestrife/index.html Minnesota DNR Earthworm Fact Sheet http://www.dnr.state.mn.us/invasives/terrestrialanimals/earthworms/index.html

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