# **INVASIVE SPECIES IN MISSOURI**

#### 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 Missouri: A Quick Look

Missouri 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	Mollusk	Caspian Sea region of	Mississippi	Voracious filter feeders that out-
mussel		Asia; accidentally	River along its	compete native animals; fouls
		released into Lake St.	entire length in	boats & clogs intake pipes at
		Clair in 1988 in ship	Missouri	power plants and municipal
		ballast water		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.
Common	Weeds	Europe; introduced to	Dispersed	Extremely aggressive plants that
and Cut-		the U.S as early as	primarily along	out-compete and displace native
Leaved		1700s for the textile	Missouri's	vegetation, negatively impacting
Teasel		industry	highway system	soil erosion capabilities and
				wildlife habitats
Purple	Wetland	Europe and Asia;	Found	Displaces native wetland plants;
loosestrife	plant	introduced in 1800s	throughout the	has less food and habitat value
		as ornamental and	U.S.	for waterfowl and other wildlife
		medicinal plant or		
		ship ballast water		
Asian Carp	Fish	Asia; introduced in	Kansas,	Voracious eaters that
(Bighead,		the 1970s for	Missouri Big	outcompete native species for
Black,		aquaculture and	Blue and	food resources; silver carp pose
Silver)		escaped	Wakarusa	physical danger to boaters due
			Rivers	to their leaping abilities

Name	Туре	Origin	Extent	Damage
Rusty	Crustacean	Ohio River Basin;	Found	Displaces native crayfish
Crayfish		anglers using as bait	throughout	species and destroys native plant
		introduced outside	Northeast and	beds decreasing overall
		of their native range	Midwest	biodiversity

## 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> Invading Species "Invasive Carp" <u>http://www.invadingspecies.com/Invaders.cfm?A=Page&PID=20</u> Missouri Dept of Conservation Teasel Brochure <u>http://www.conservation.state.mo.us/documents/nathis/invasive/teasel.pdf</u> MDC Purple Loosestrife Fact Sheet <u>http://www.conservation.state.mo.us/nathis/exotic/vegman/twenty.htm</u> Protect Your Waters "Harmful Aquatic Hitchhikers" <u>http://www.protectyourwaters.net/hitchhikers/crustaceans\_rusty\_crayfish.php#why</u> USGS Zebra Mussel Page. http://nas.er.usgs.gov/taxgroup/mollusks/zebramussel/

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