TOLEDO MAGAZINE

toledoBlade.com

THE BLADE, TOLEDO, OHIO
SUNDAY, AUGUST 3, 2014

SECTION B, PAGE 6

By MATT MARKEY and JEFF BASTING

charming, but these are the botani- Department of Natural Resources. cal equivalent of the wolf in sheep's clothing.

intruder. They seek to dominate hancements. What many of them structure, with 80 percent of the the landscape once they get estab- have done is alter the landscape lished, choking out native vegeta- in a very negative manner. Phrag-

Some of the worst intruders

"The difference is that the na"The difference is that the na"We have thousands and thou-They don't have the car-tive plants play well in the environtoonish presence of a ment, while the non-natives have round goby, or the menac- this tendency to take over," said Sue fested with non-native phraging, low slung eyes of an Asian carp. Tangora, the invasive species pro-No, they often look dainty or even gram coordinator for the Michigan just taken over."

Some invasive plants reached Invasive plants — mean green in ballast water, while most were - are a more insidious brand of brought here as landscaping en- thing else, out. It has a dense root

the way of food or habitat for wild- biggest offenders in the botanical

"We have thousands and thousands of acres in Saginaw Bay in-

This tall, reed-like plant prefers wet, marshy areas, and although North America as seeds hidden there is a native version, the invasive strain chokes that, and everyplant mass below ground level.

Herbicides, mechanical removtion, and frequently offer little in mites (frag-my-tees) is one of the only weapons available to tame phragmites and most of the other invasive plants, but this war is nev-

"Those methods only work to keep it down," Ms. Tangora said. "It's pretty much impossible to eradicate from the environment once it is established."

There are numerous aquatics in the mean green club, and many other members with such innocent sounding names. There's purple loosestrife, autumn olive, Japanese honeysuckle, multiflora rose, tree of heaven, and kudzu. And while a biological control — a beetle — has slowed purple loosestrife's spread, the others are aggressive, highly adaptive, and able to thrive in marginal environments.

While it is not as prevalent in Ohio and Michigan, kudzu has become a menace in the South. This climbing vine, that was brought to the United States as an ornamental plant used in erosion control, blocks sunlight or chokes off stems to kill native plants, growing one foot per day once established.

Kudzu is believed to cover some $2\,million\,acres\,of\,southern\,forest\,at$ this time, following the pattern of other invasives by choking out the competition and creating massive monoclutures — stands where only one species of plant survives.

"In general, less biodiversity is ss healthy for the environment, said Doug Kane, a biology professor at Defiance College. "These non-native plants create monocultures and cause a lot of problems that way."



Kudzu: spreads by both runners and seeds, once touted for erosion



Multiflora rose: shrub with slender thorny branches, red egg-shaped fruits in fall, forms large thickets

Identifying Ohio's common invasives

- 1. Tree-of-heaven: long, palm-like leaves, smooth bark, and large, winged seed pods
- 2. Common buckthorn: tall shrub that tolerates many environments, small spines on branches
- 3. Japanese knotweed: bamboolike, forms dense thickets, sprouts from cuttings, thrives in many soils
- 4. Garlic mustard: fragrant plant that tolerates shade and forms thick colonies which alter the habitat, stays green through winter
- 5. Canadian thistle: long prickly stems with lavender flower heads, seeds live up to 20 years, native to Europe and Asia, not Canada
- 6. Purple loosestrife: long flower spikes with many brightly-colored flowerets, a dense root web that chokes out other plants
- 7. Japanese honeysuckle: woody vine that has small oblong leaves, glossy black fruits

More information available at: Ohio Invasive Plants Council: oipc.info Ohio DNR: ohiodnr.gov/invasivespecies The Nature Conservancy: nature.org



Maumee Bay State Park naturalist Laurel Ashley inspects a dense stand of invasive phragmites, which has squeezed out native plants.

The botanical bad guys

- As much as 25 percent of the plant species now growing in Ohio and Michigan came from other places on the North American continent, or elsewhere around the world. Many of these non-native plants are not considered invasive and do not present an immediate threat to native plants and our natural areas. The non-native plants that are invasive cause considerable harm to many sensitive ecosystems, and they are quite costly to control.
- Invasive plants, including a number of aquatic species, are notorious for crowding out our native plants, through shading, choking, or simply overwhelming them with growth. They accomplish this with high reproductive rates, the lack of natural enemies or controls, and their ability to tolerate a wide variety of soils, moisture levels, and environmental circumstances.
- Invasive plants often form monoculture communities where they are the only survivor. These monocultures drastically reduce the biological diversity and alter the food web, harming wildlife which rely on the survival of native plants for food, nesting, and breeding habitat.
- It is estimated that more than 25,000 non-native plants have been established in the United States, and that they inflict more than \$34 billion in damage each year to the environment, negatively impacting our forests, agriculture, industry, waterways, recreation areas, and the health of the population. Sources: ODNR, USFWS



Phragmites: reed-like, the invasive strain reaches 15 feet tall, but 80 percent of its mass is underground in huge root clusters (above), making it extremely difficult to remove through multiple applications of herbicides and controlled burns

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