# **Zebra mussels**

#### Boaters helped the spread of mussels into seven more Oakland County Lakes last year

It's up to bonters to halt the spread of zebra mussels into inland lakes.

Last year seven inland lakes in Oakland County and one in Liv-ingston were invested with zebra mussels, according to Michigan

conkland County and one in Livingston were invested with rebra mussel, according to Michigan Son Grant.

The area lakes are among 19 new names on the 1997 list of lakes found to be contaminated by the mussels, which have spread through the Great Lakes. The Great Lakes, the Great Lakes, the Great Lakes, the Great Lakes, the Lake in L

ballast of ocean-going ships. It was found in Lake St. Clair in 1986, and by 1988 it was exploding."

The shellfish's most immediate damage was to encruet the city water intake pipes in Monroe, which had to shut down the system. Klepinger outlined how the zobra mussol upsets the ecosystem:

at boat launches and develop volunteer programs for boat inspections and cloanings.

Klepinger advised boaters to "be
a good neighbor. Keep your boat
and trailor cloan. Scrub them off,"
Temwe the weeds, and dry them
off."

On many inland lakes, riparian
awners use lake water on their
lawns. When the intake pipes
become clogged, they'll find it nectessary to scrupe off mussel shells.

Michigan Sea Grant is a coopenative program of Michigan State
University and the University of
Michigan Nolunteers have done
much of the sampling work. The
project has produced an awardwinning instructional video with
illustrated handbook.

Sea Grant recruited volunteer
monitors beginning in the spring
of 1993. The 18 new lakes on their
intested list bring the total of confirmed infestations to 65.

Volunteers are given kits with
which they take samples in more
than 18 feet of water. The procedure takes on hour and is repeat
of twice during the summer.

Plankton samples are sent to a
thoratory, where biologists determine whether the water contains
microscopic mussel spaws.

## OU student finds benefit to mussels

Although hebra museds have cer-tainly earned their bad reputation, Oakland University resempeture in Rochester, in collaboration with the Michigan Dopartiment of Natural Resources (DNRP Fisheries Divi-sion, recently demonstrated a way in which they are beneficial. According to research initiated by student Sarah Thayer for her mas-ter's degree at Oakland, yellow perch, a popular game and commer-cial fish, grows faster when zebra mussels are present than without them.

mussels are present than without them.

Through collaboration with Robert Haas of the DNR Lake St. Clair Fisheries Research Station, OU biology Professor Douglas Hunter and OU Math statistician Robert Kushler, Thayer proved that zebra mussels create a favorable habitat for invertebrates, a staple in the yellow perch diet.

Research began in 1992 with Thayer and her collengues maintaining juvenile yellow perch in cages — some with zebra mussels, some without. They found that perch in the cages with zebra mussels grow faster and reached

greater weights and lengths than perch without zebra mussels.

By filtering particulate matter and depositing the remainder on the pend's bottom, the mussels produced an excellent habitat for these lake invertebrates to grow. Though and her colleagues demonstrated there.

The provided more food for yellow performance of the pending of

that provided more food for yellow perch.

"Given the enormous densities of mussels in some areas of the Great Lakes and inland lakes, and the tendency to continuously filter particulate matter from the water, they can have a lasting influence on the aquatic food chain in those reas." Hunter said. "In this case, zobra mussels facilitate energy flow into the yellow perch population by enhancing the bottom invertebrate community."

Such a phenomenon has a significant inpact on sport and commercial fasherios. According to Hungellow perch filleds now bring retain prida a safe, as a St. per pound and the safe as a st. per pound the safe as a st. percent as

dwelling organisms, such as a reduction in zobra mussels, is likely to affect the production of valuable bottom-feeding fishes such as yel-

to affect the production of valuable bottom fording flabes such as yellow perch.

Creel surveys of sport flabing on Michigan's waters of Lake St. Claif during the mid-1980s aboved that about one million yellow porch were being caught each year. While similar angler surveys have not been conducted recently, reports by the angler charter flahery indicate that the perch population and fishery dramatically improved since then, aspecially following zobra mussel colonization in the early 1990s. Perch population studies conducted by the Michigan DNR since 1993 show that yellow perch in Lake St. Clair are abundant, cating late affect of the perch population studies conducted by the Michigan DNR since 1993 show that yellow perch in Lake St. Clair are abundant, cating late affect of the percentage of th

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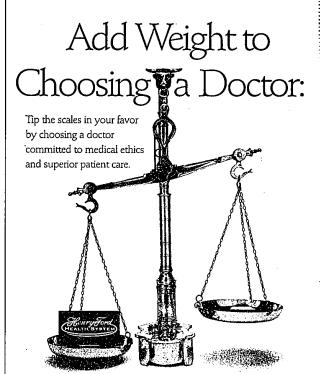
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