

May 2007

## HELP PREVENT THE SPREAD OF FISH DISEASE Viral Hemorrhagic Septicemia (VHS)

### What is VHS?

- VHS is an infectious disease of fish.
- There are several strains of VHS that affect fresh and saltwater fish species.
- VHS disease outbreaks may happen at any time, but are most likely during the spring as temperatures fluctuate and fish are reproducing.
- The Great Lakes strain of the virus is new and appears to be affecting many species of fish including:

#### Game fish

Walleye  
Yellow perch  
Muskellunge  
Smallmouth bass  
Rock bass  
Chinook salmon  
Black crappie  
White bass

#### Bait fish

Emerald shiners  
Bluntnose minnows  
Spottail shiners

#### Other species

Freshwater drum  
Round goby  
Gizzard shad

### Can VHS infect people?

- No, the virus does not affect humans.
- Fish carrying the VHS virus are safe to eat and to handle.

### Where has VHS been found?

- Lake Huron
- Lake Erie
- Detroit River
- St. Lawrence River
- Lake St. Clair
- Lake Ontario
- Niagara River

### What does a fish with VHS look like?



Photo: John Lumsden

*A fish can look healthy, showing no signs at all.*



Photo: John Lumsden

*Or a fish can look sick, showing signs of disease.*

### Some fish show the following signs:

- Pale gills and organs
- Bloated abdomens
- Bulging eyes
- Hemorrhages (bleeding) on body and organs
- Darker body colour

## Bait Fish Harvesters Can Help Prevent VHS From Spreading

### How does VHS spread?

- VHS can spread through the water, on infected fish, or with their body fluids.
- VHS may be spread from one waterbody to the next by any method that involves the movement of fish, water, vessels or equipment that has had contact with the virus.



Photo: Ontario Ministry of Natural Resources

### Slow the spread of VHS

- Bait fish harvested commercially should be sold and used locally.
- Do not discard bait fish in a lake or river. Place them in the garbage.
- Remove all mud, aquatic plants and animals from all gear, boat motors and trailers before leaving a body of water.
- Equipment and clothing used during fish harvesting activities should be thoroughly cleaned and disinfected before moving to another body of water.
- Empty live wells and bilges away from water in an area where the water will be absorbed into the ground.
- Encourage anglers to use locally harvested bait fish and to place unused bait fish in the trash.
- Encourage anglers who harvest their own bait fish to use it in the same waterbody where it was collected.
- After harvesting bait fish, clean and disinfect all holding containers with a 10% household bleach solution (i.e., 100 ml of household bleach to 1 litre of water). Rinse well to remove residual chlorine and discard away from fish-bearing waters. Chlorine is toxic to fish.

### These actions will help slow the spread of fish diseases.

For general enquiries, call:  
Ministry of Natural Resources  
Natural Resources Information Centre  
1-800-667-1940

For reporting fish die-offs, call:  
Ministry of Natural Resources  
1-877- TIPS-MNR (847-7667)