





Objective: Contain the VHS Virus

How does VHS spread?

- Sick fish shed the virus into the water
- Healthy fish pick up the virus in their gills





• Healthy fish eats a sick fish



Millions of People Involved!



1.4 million licensed anglers625,000 registered boats

2,200 fish farms
800 bait dealers
90 wild bait harvesters



An Integrated Control Program is Necessary!

- Regulations
- Biosecurity in fish farms and hatcheries
- Quality control in bait fish industry
- Research
- Public education and outreach
- Surveillance and monitoring

Where is VHS virus now?

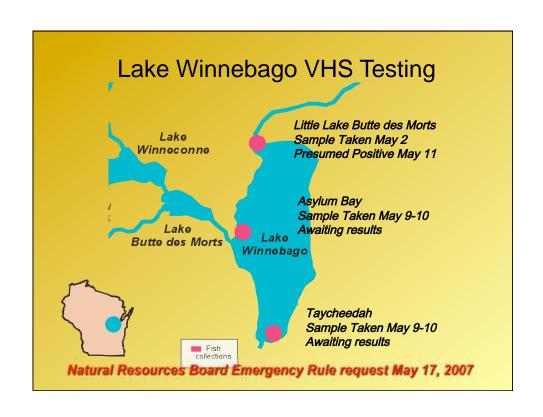
- Probably in Lake Michigan
- <u>May be</u> in Lake Superior and Mississippi River drainage
- Probably not yet in inland waters

Natural Resources Board Emergency Rule request April 4, 2007

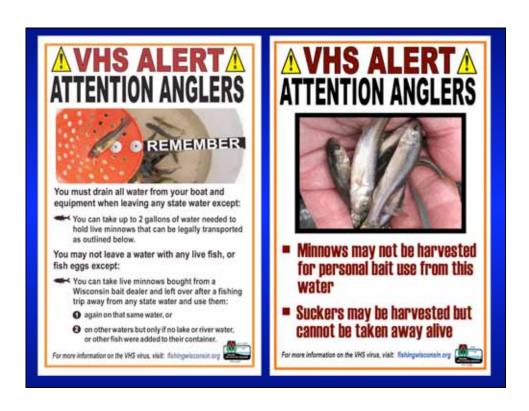
Emergency Rule to Slow the Spread of VHS virus

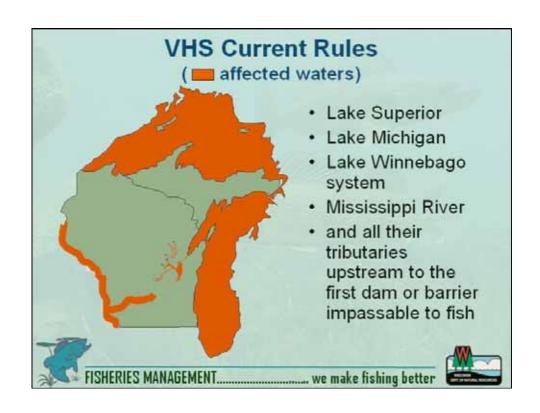
- ✓ Prohibits the transportation of live fish and eggs from the Great Lakes and Mississippi River unless they comply with USDA APHIS rules related to VHS, test negative for the virus or have written approval from the Department.
- ✓ Requires water to be drained from bilges, ballast, buckets, live wells immediately after leaving the waters of the Great Lakes and Mississippi River.

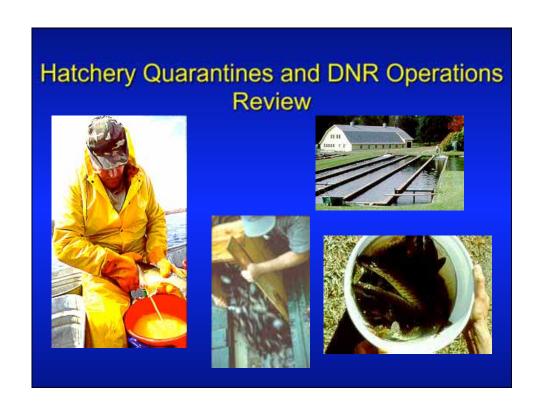
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Initiate a statewide bait harvest permit system:

- √ Time and water specific permit required for bait dealers to harvest wild bait
- ✓ Permit holder must retain records of their harvest and disposition of fish
- ✓ May not comingle wild bait harvest and any fish from fish farms
- ✓ Fish health inspections required

Research: many unanswered questions! • Susceptible species • Infectious virus concentrations • Coolwater egg disinfection methods • Survival rates of adults and young fish • LONG TERM POPULATION IMPACTS Lake Erie YOY Recruitment



