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PERSPECTIVES ON GLOBAL PREPAREDNESS FOR AQUATIC ANIMAL DISEASES

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The Risks

- Aquatic invasive species
 - Pathogens, animals and plants
- Aquatic animal movement
 - Domestic
 - International
- Water transfer
 - Ballast water
 - Recreational activities
 - Fishing, boating, diving



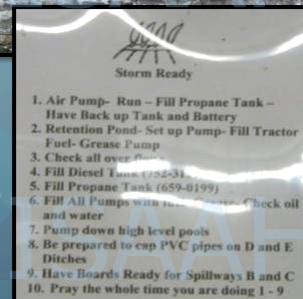
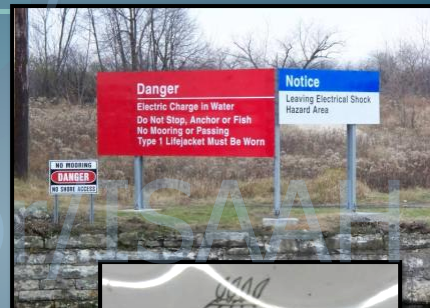
Estimated losses from aquatic animal diseases.

Area	Year	Estimated Losses US\$
Thailand	1983-1993	100 million
China	1993	400 million
India	1994	17.6 million
Thailand	1996	600 million
Ecuador	1999	280 million
Global	1997	300 million

Scarfe 2003.

Being Prepared

- Identify the threats (aka Risk Assessment)
 - What can go wrong? Where?
 - How likely is it to go wrong?
 - What are the consequences of it going wrong?
 - What can be done to reduce the...
 - Likelihood of it going wrong
 - Consequences
 - How to communicate?
- Have a plan

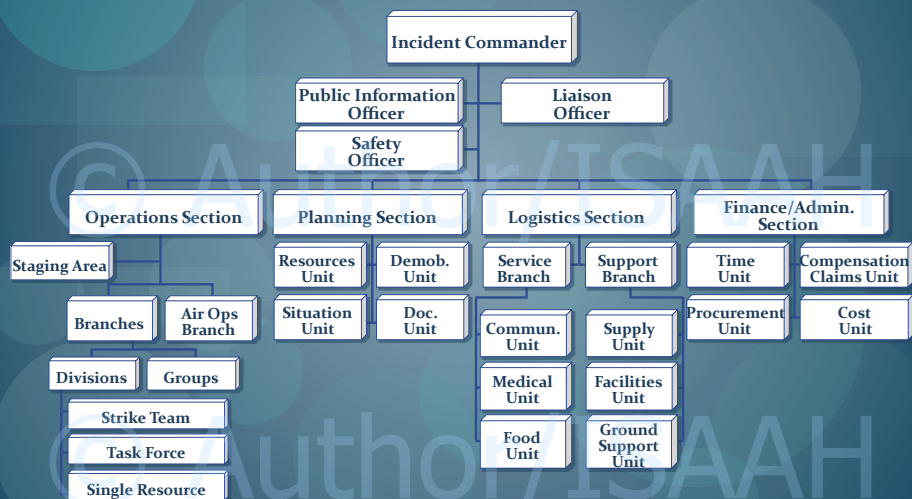


Planning the Response

- What needs to happen?
 - How soon?
- How will it be done?
- Who will lead it?
- How will it be organized?
 - ICS
- What resources will be needed, validated or certified?



ICS Organization



Resources

- What kinds and types
 - Kind
 - Fish catcher vs. heavy equipment operator
 - Type
 - Pond vs. open waterway
 - Small dozer or big one
- What resources are available
- What resources need to be coordinated for?
 - Communication, agreements, contracts



Testing the Response

- Exercises
 - Discussion-based
 - Operations-based
- Capturing lessons-learned
- Learning from other countries' responses
- Updating the plan



Levels of Responsibility

- International
- National/Regional
- State/Provincial
- Local
- Aquaculture facility



Scarfe 2003.

International Resources

- Office International des Epizooties(OIE)
 - Code and manual
- International Council for the Explorations of the Sea (ICES)
- International Maritime Organizations (IMO)



In Conclusion – What's Needed

- Harmonization of efforts
 - Health certification
 - Target specific pathogens
 - Quarantine
- Science-based policies and regulations
 - Surveillance, risk analysis
 - Diagnostics
- Open communication
 - Reporting