# Ruffe Control Program Review

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Eurasian Ruffe *(Gymnocephalus cernua)* 

- Europe & Asia
- Small body
- Percidae
- Similar to YP

## Concerns

#### High fecundity

### Compete for food and habitat

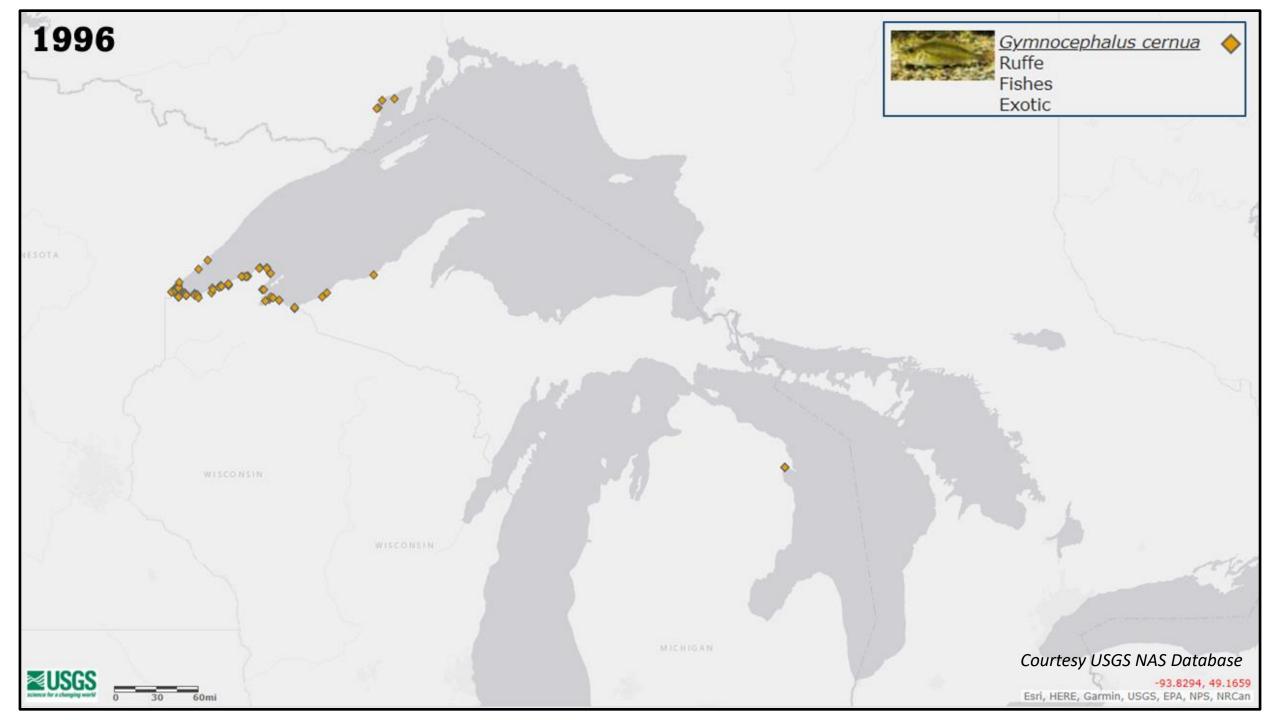
Egg consumption

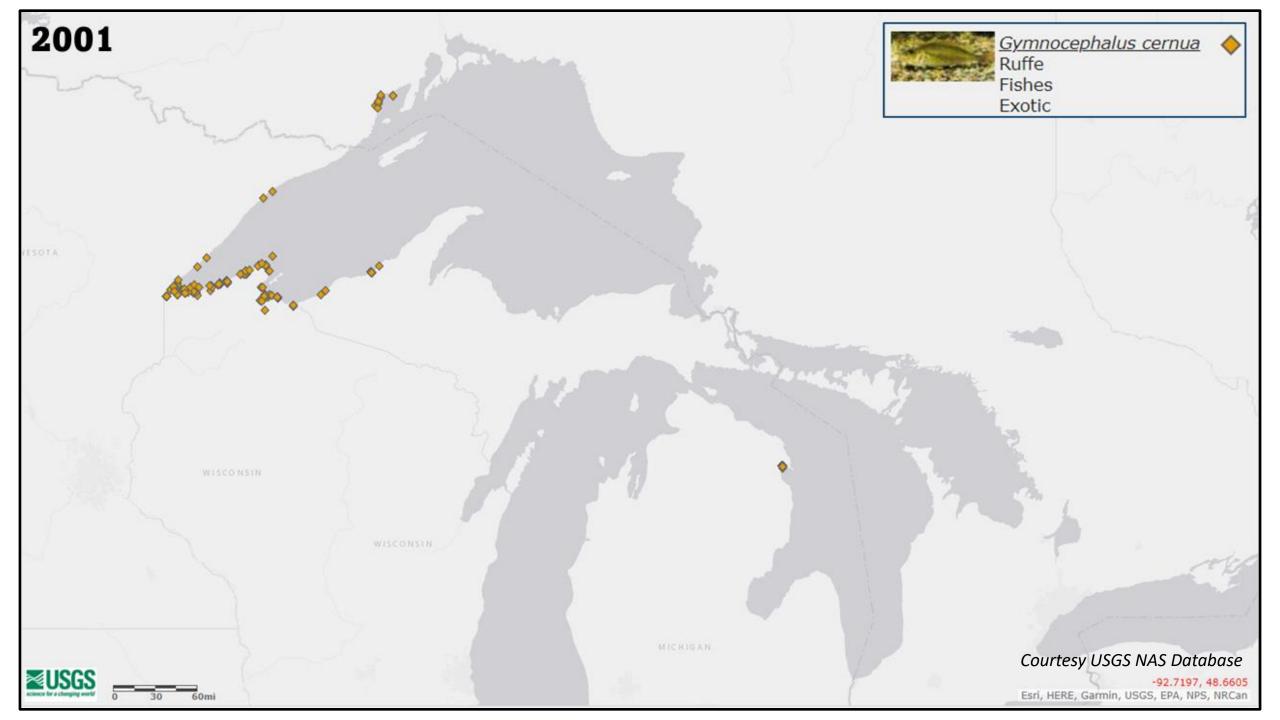
Outcompete and displace NS

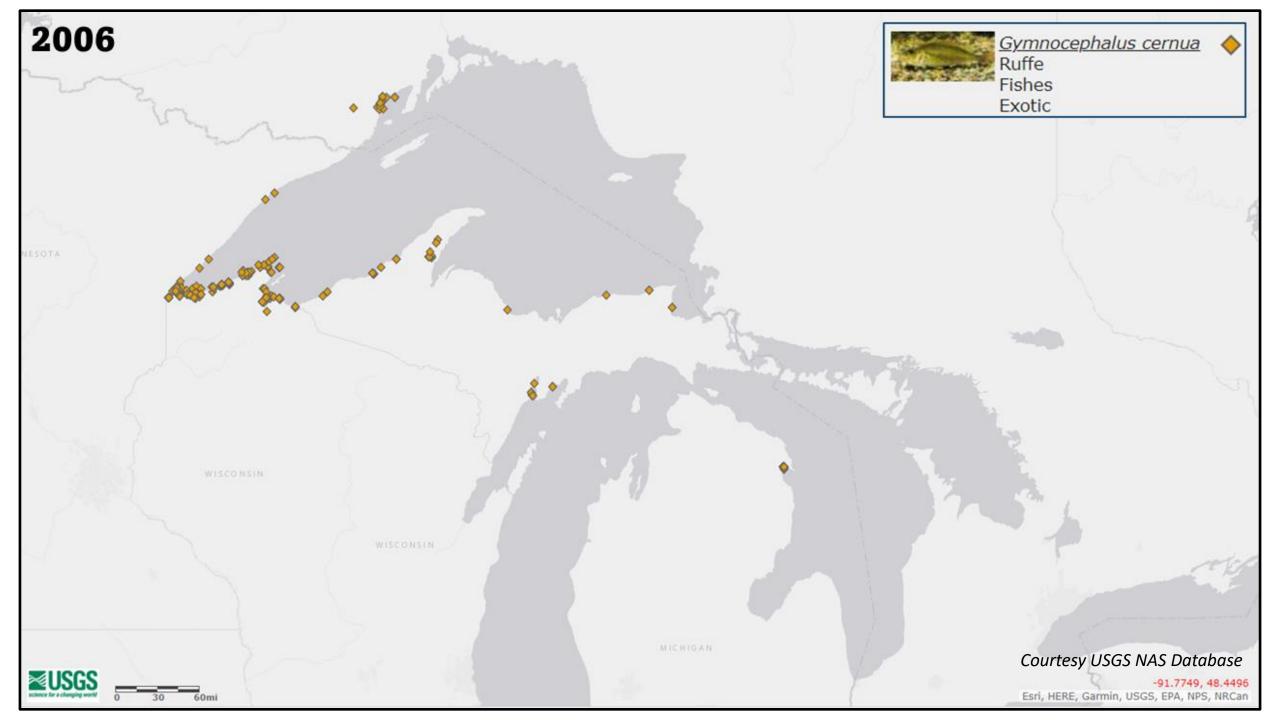
Invasion Timeline 1986 - 2022

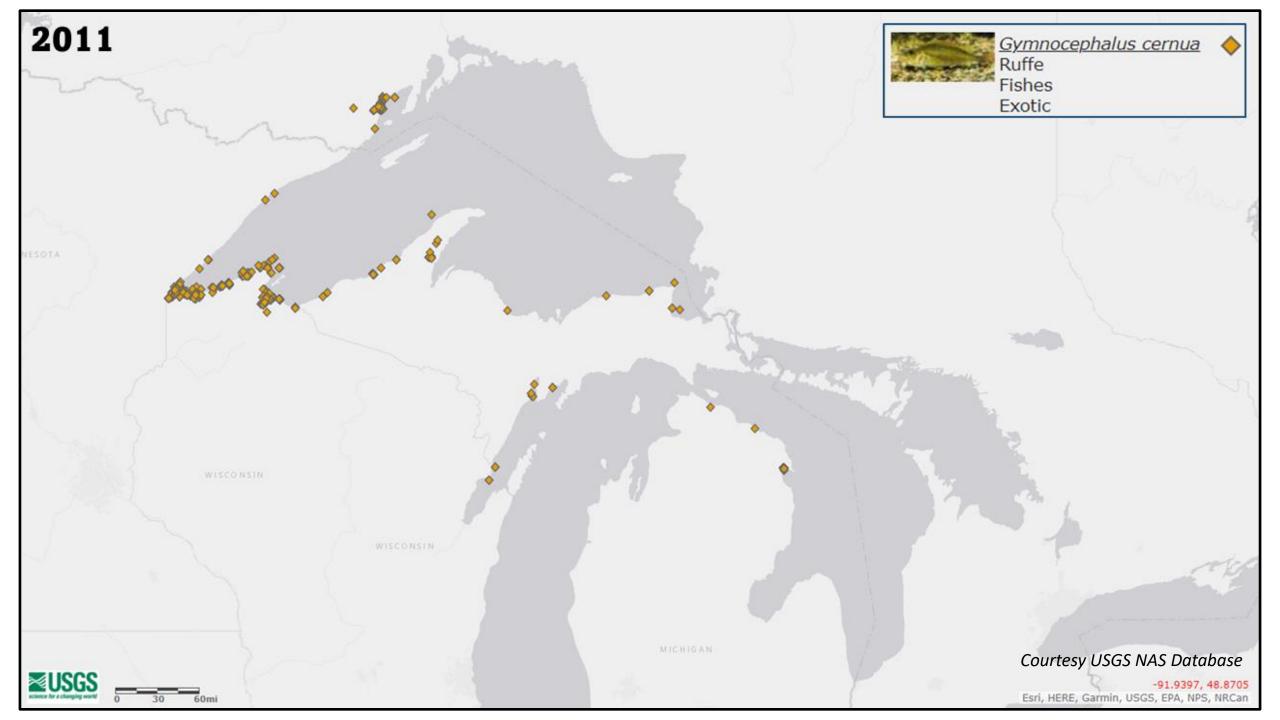


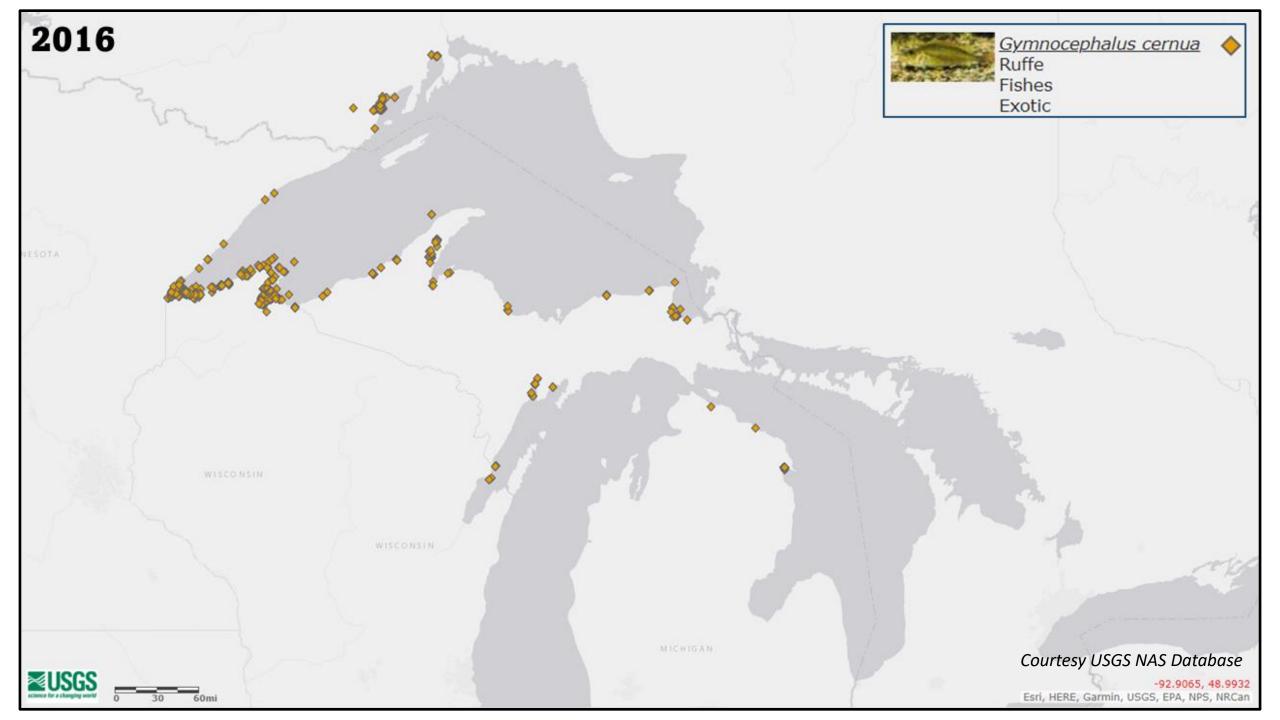


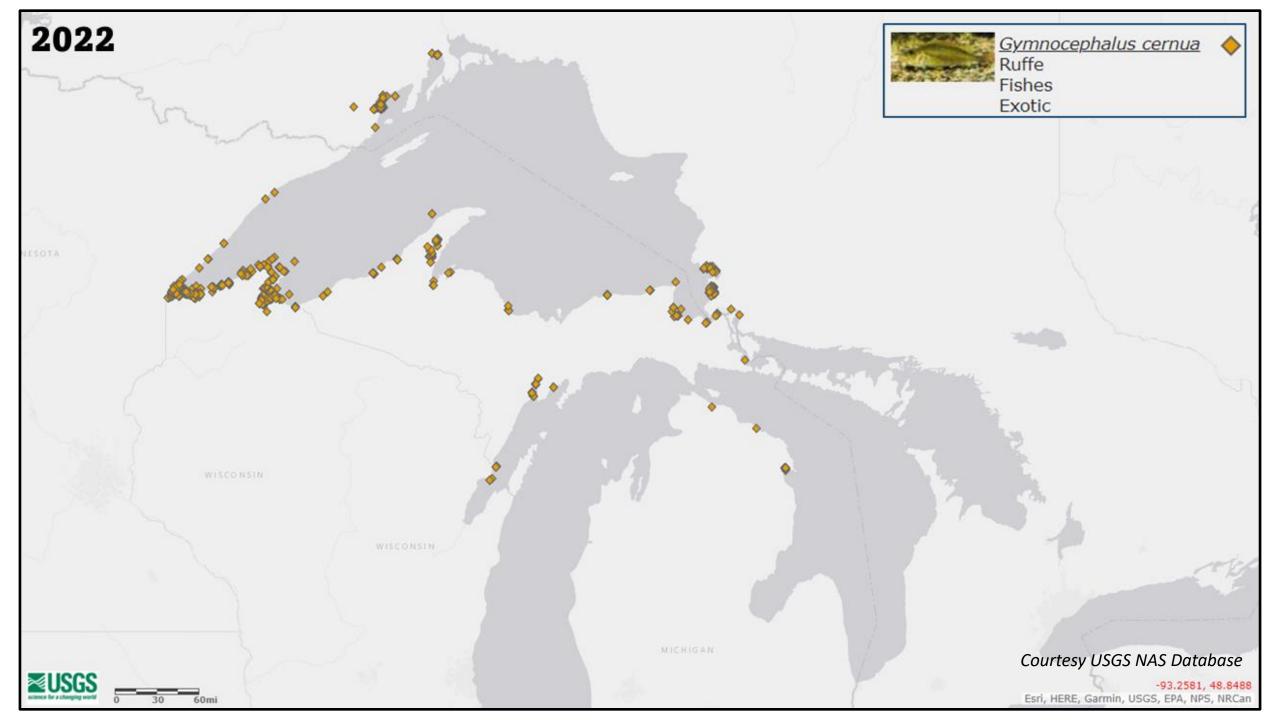




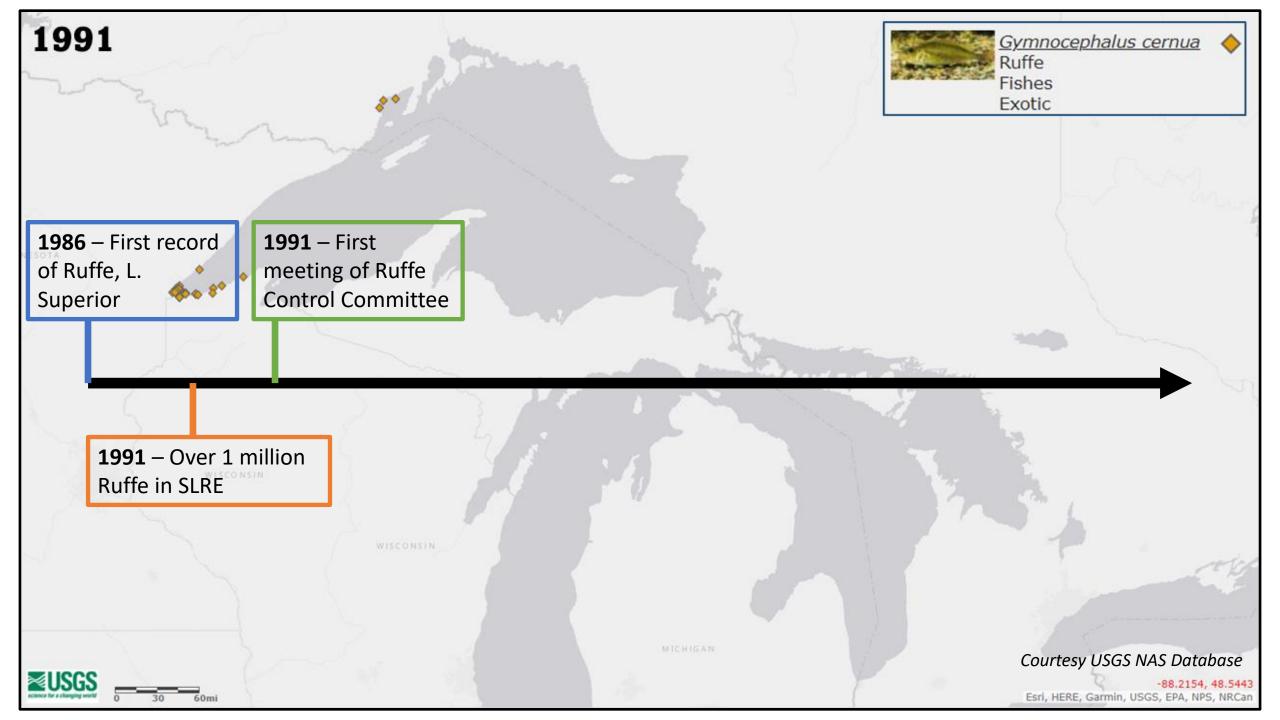


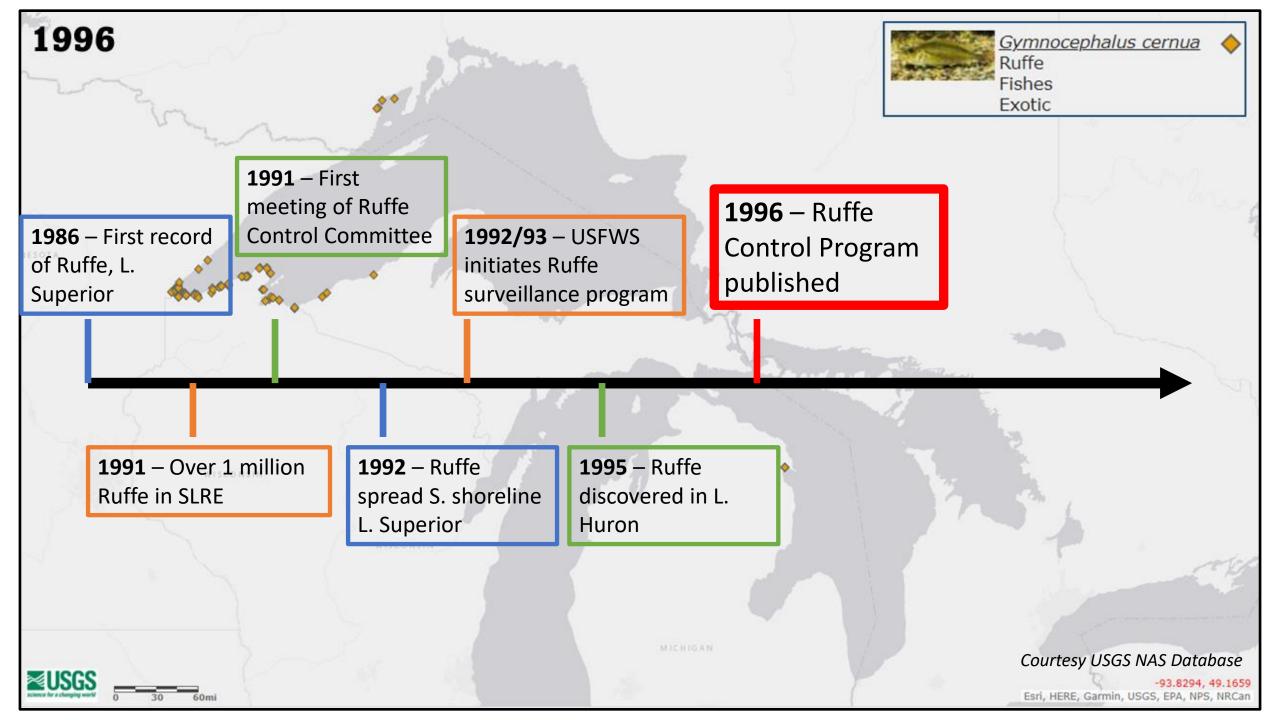


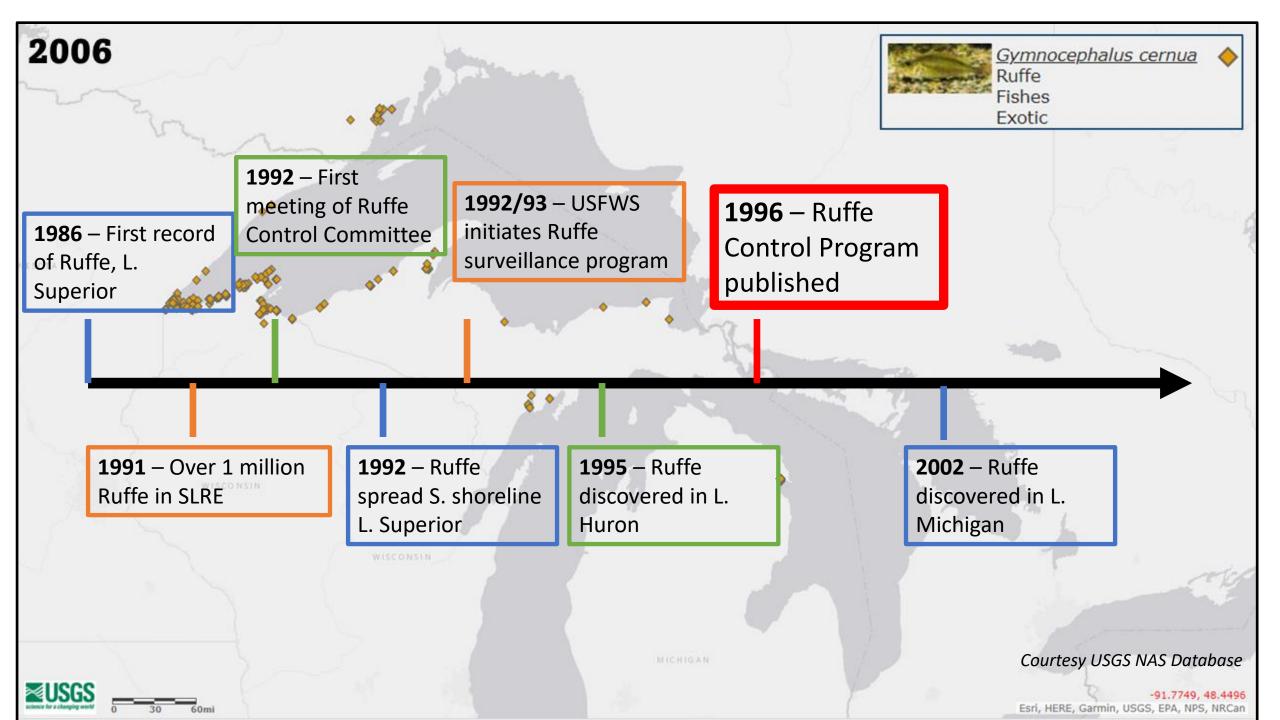










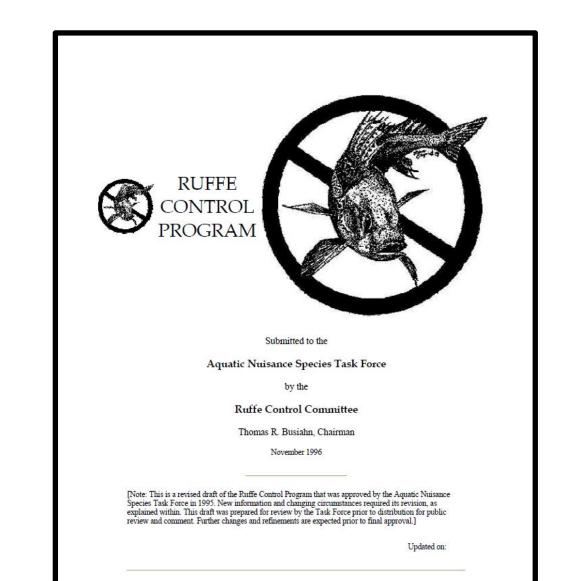


### Ruffe Control Committee

- 1986 Ruffe invade SLRE
- 1991 1 million Ruffe in SLRE
  - GLFC Ruffe Task Force
    - 1992 Ruffe threaten NA
- 1992 National Aquatic Nuisance Species (ANS) Task Force
  - Ruffe Control Committee
    - Objective come up with a plan!

### **Ruffe Control Program**

- 1996
- 8 objectives
- 11 research needs
- Multi-agency, international program
  - Differing roles and responsibilities



## Objectives

- 1. Population Reduction
- 2. Ballast Water Management
- 3. Population Investigation
- 4. Surveillance
- 5. Fish Community Management
- 6. Education
- 7. Bait Fish Management
- 8. Chicago Sanitary and Ship Canal

### **Research Needs**

- 1. Distribution of Ruffe
- 2. Environmental Determinants for Distribution
- 3. Effects of Ruffe Colonization
- 4. Characterization of Ruffe Genetics
- 5. Chemical Control Measures
- 6. Attractants and Repellants
- 7. Ballast Water Management
- 8. Biological Control
- 9. Characteristics of Ruffe in Bait Fish Commerce
- 10. Dispersal Barrier in Chicago Sanitary and Ship Canal
- 11. Ecological Theory for Community Resilience to Ruffe Invasion

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  - Actions, facts, and published reports/literature

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- Summary?
  - Program was effective!
  - Procedures, protocols, legislation, regulations, research
- What now?
  - November/December Partner review of summary
  - December/January Formulate recommendations for next steps based on summary
  - January Submit recommendations and summary to National ANS Task Force

### Questions?

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