

Common carp management in the Owasso Chain of Lakes

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Talk outline

- Introduction to the common carp
- Video – shallow lakes – carp – and water quality
- Management in the Owasso Chain



Common carp - a large minnow from Eurasia





Carp - A favorite food and game fish in Europe and Asia



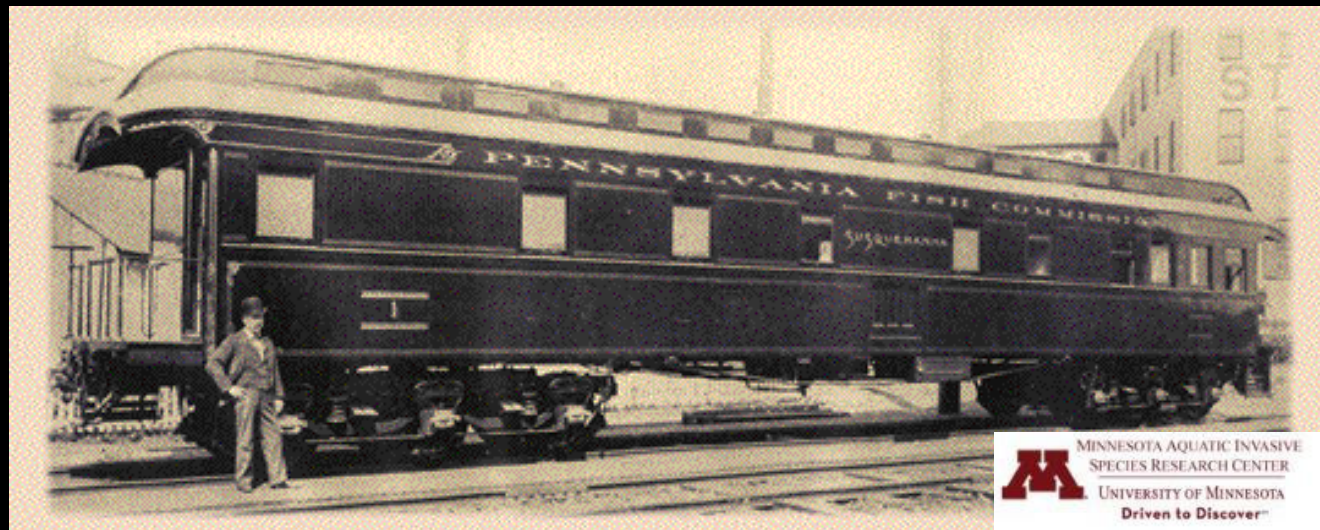
Christmas carp for dinner -Poland



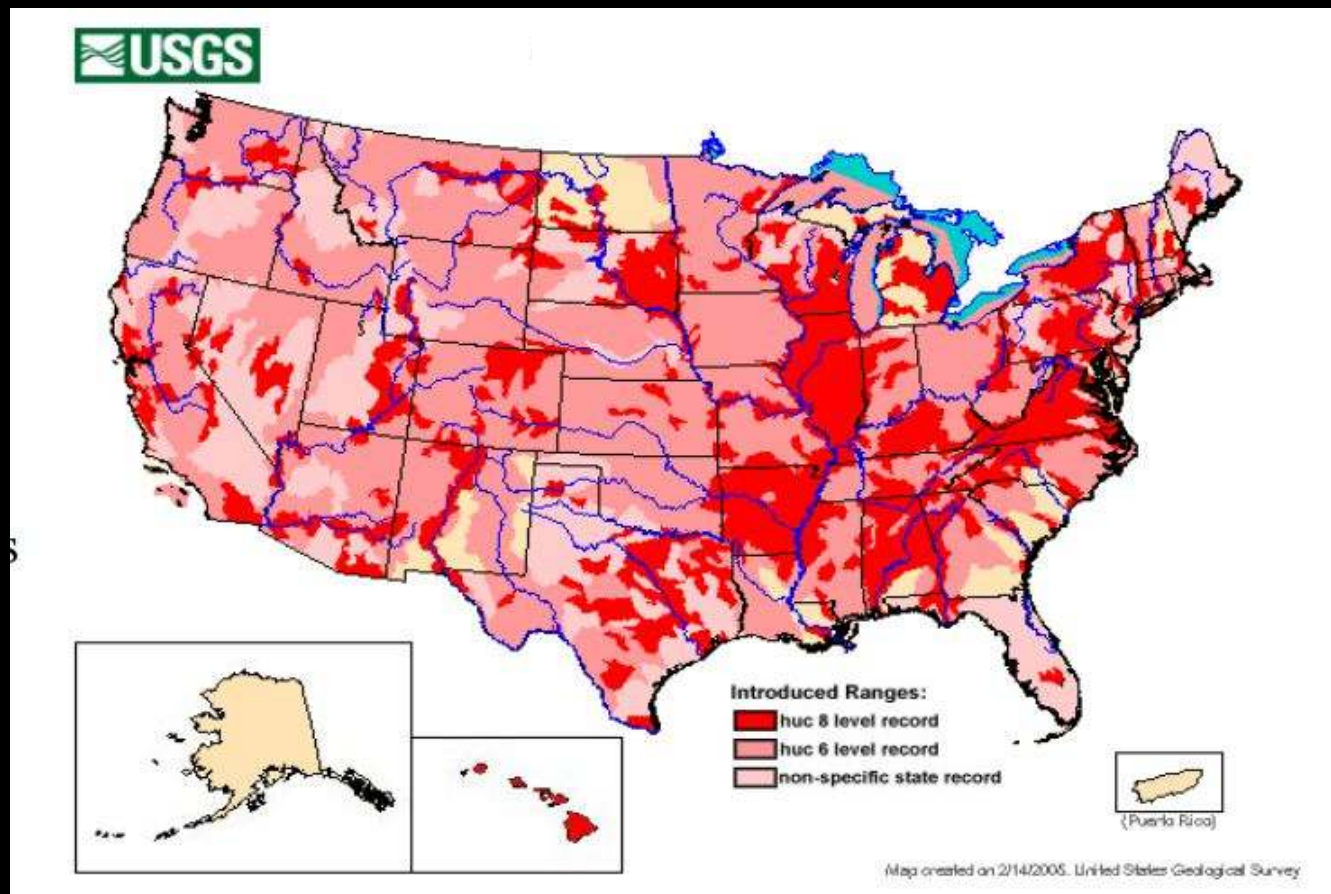
Pro Baseball Team in Japan

Introduced into the USA in 1877

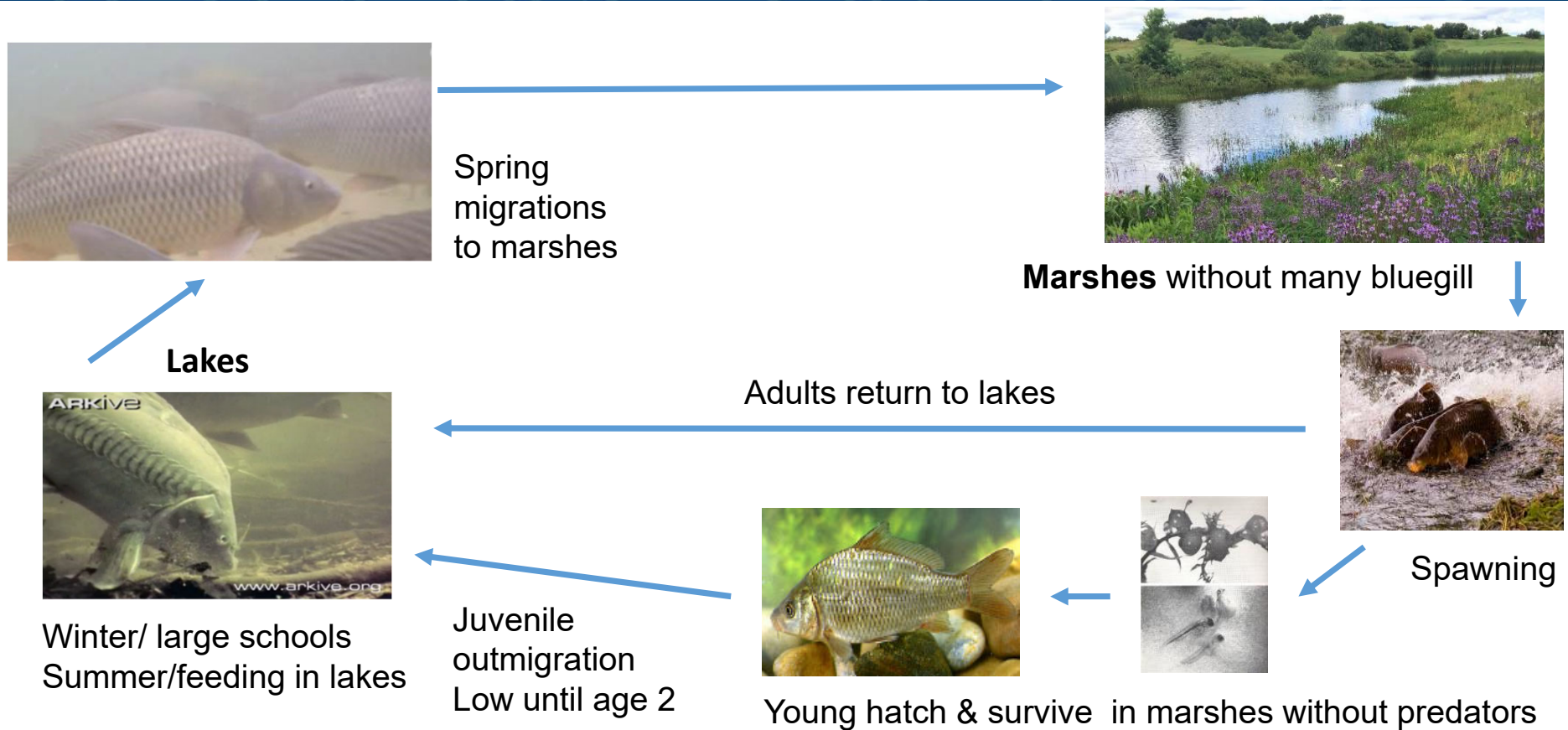
- 350 carp ended up in Washington DC
- Our European settlers pushed for carp to be introduced
- For over 20 years – stocking took place from railroad cars at water bridge crossings throughout the US



Present-day common carp distribution



Life History & Individual-based model (Bajer et al. 2014. Oikos; Lechelt et al. 2017. Biol Inv)



U of MN research – Phalen Chain of Lakes

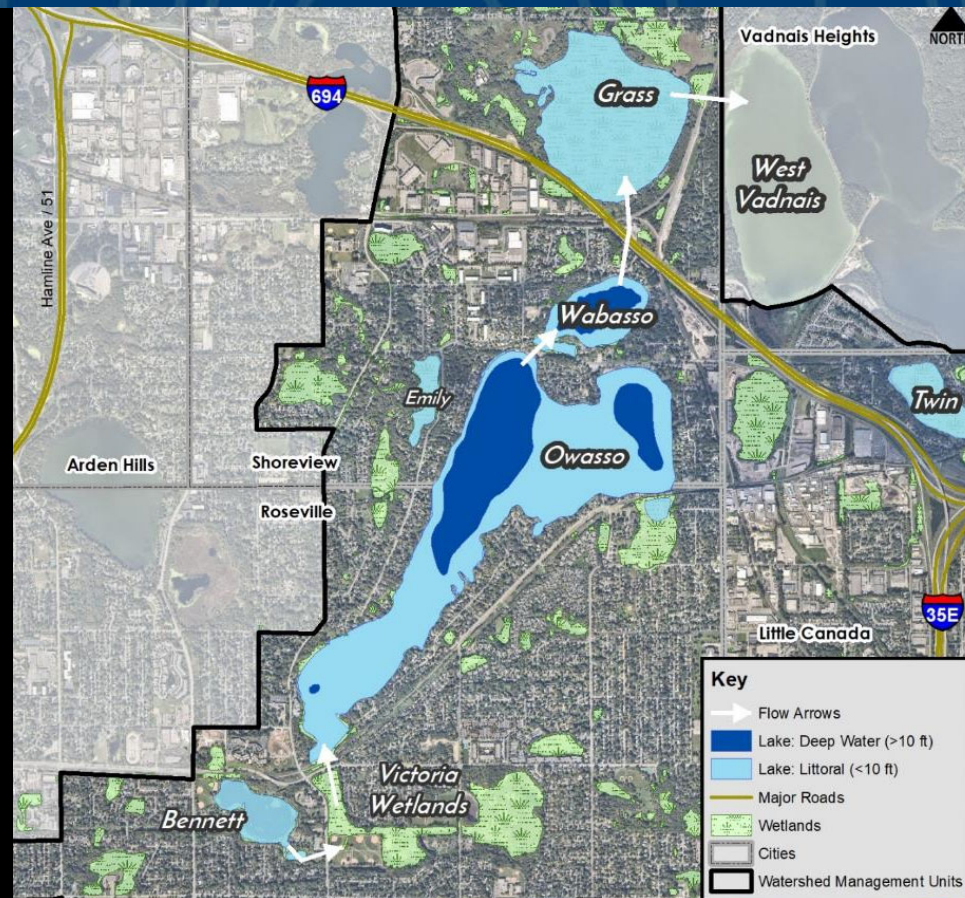
Bluegill sunfish consume eggs - control carp recruitment in lakes



Carp can have dramatic impacts – bottom feeders



Owasso Chain – a lot of shallow water





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Getting to Know Shallow Lakes: Water Quality, Ecology, and Setting Realistic Expectations

Grass Lake Berm – North end – May 2017



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Lake Wabasso outlet

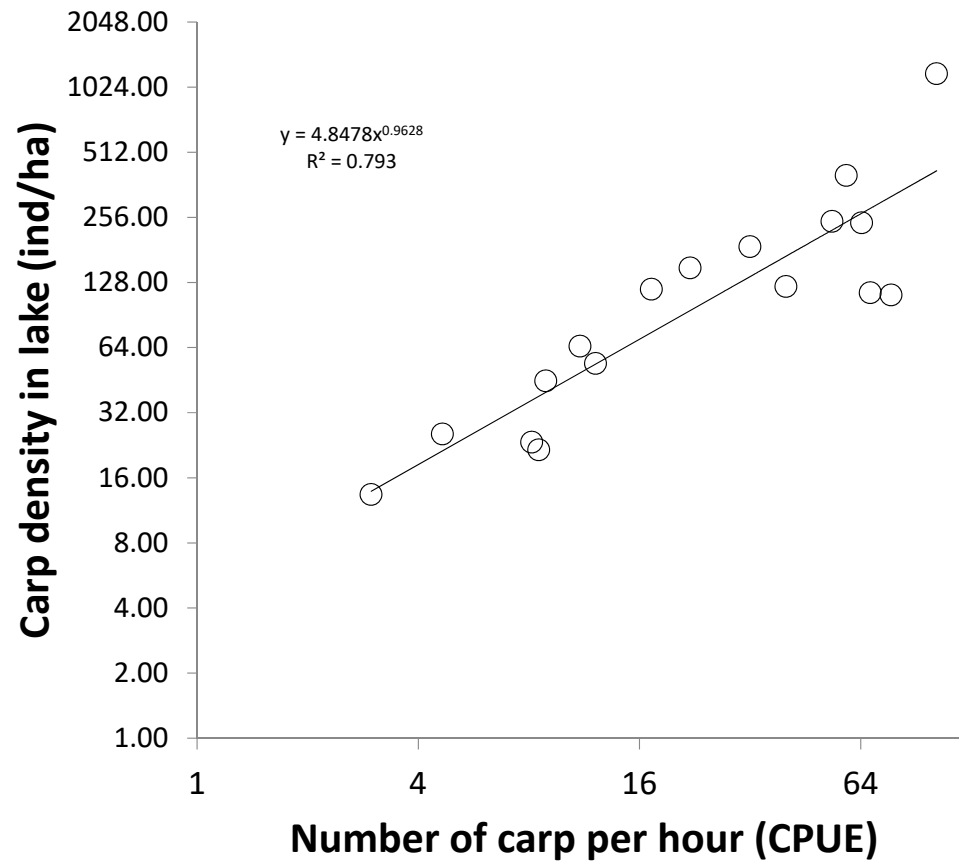




Electrofishing – average # of carp per hour (CPUE)

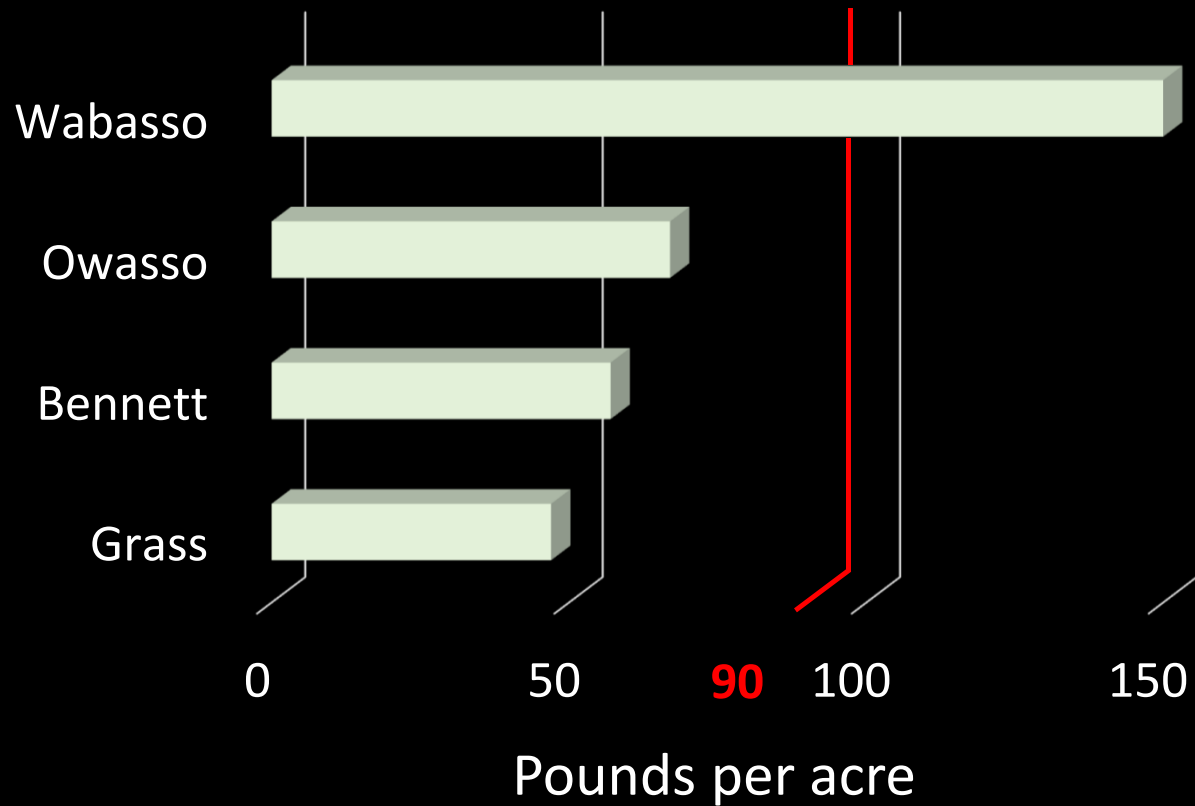


Estimating the carp population – 2017



Bajer et al. 2012; NAJFM

Carp biomass – a risk to water quality



Carp Management – moving forward



Key objectives:

1. Address the entire chain of lakes
2. Harvest adults - netting
3. Install barriers - Identify and block off spawning areas



Baited Box Net – sides up





Baited Box Net – corn



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Baited Box Net



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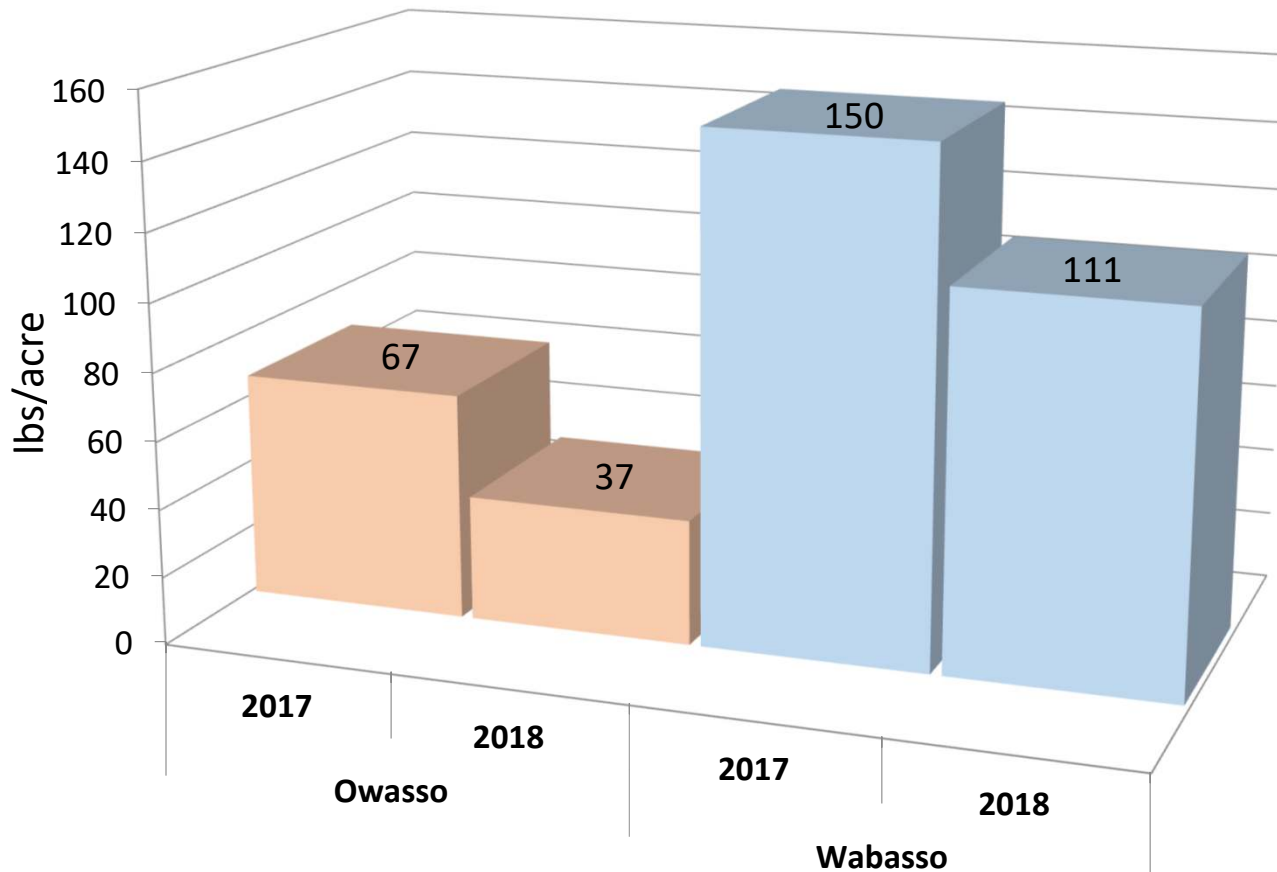
Wildlife Science Center



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Netting results – 3,400 carp removed



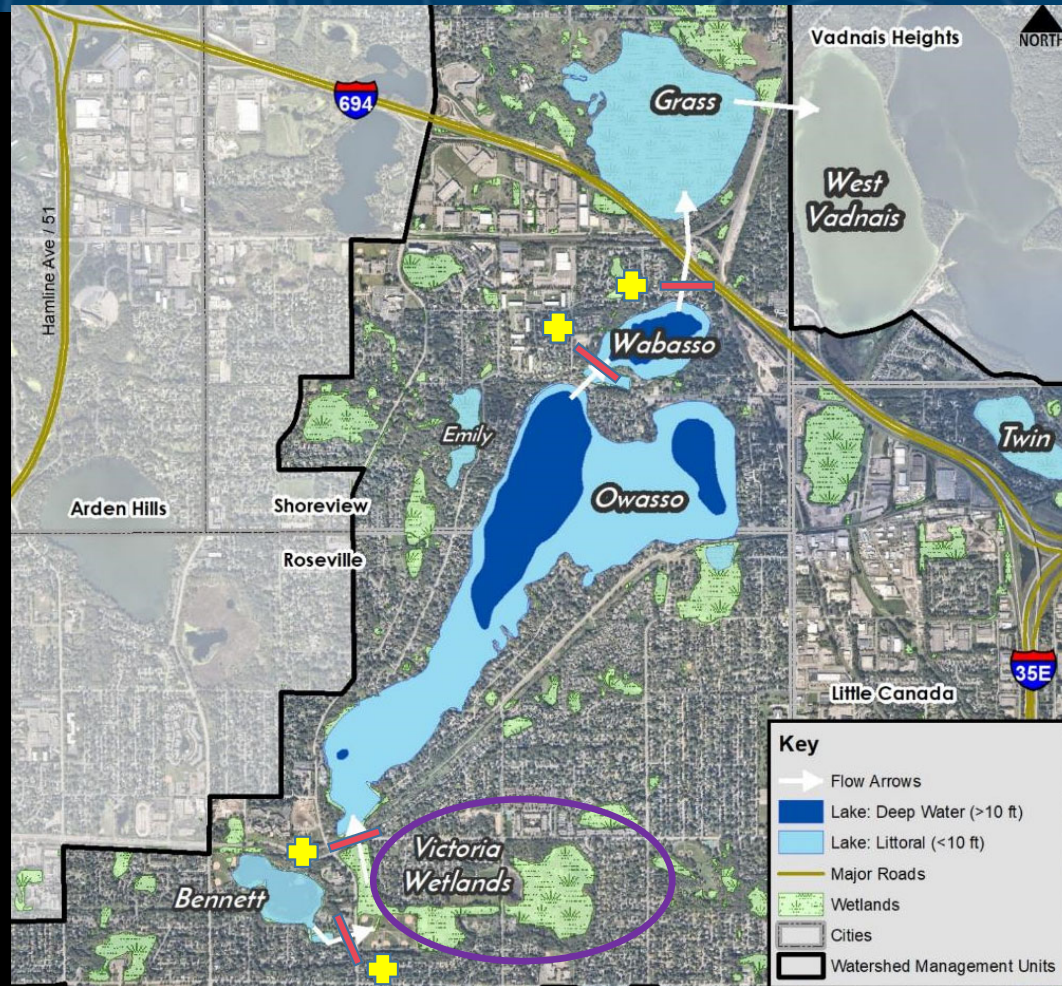
Barriers



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Barriers



North of Victoria Wetlands



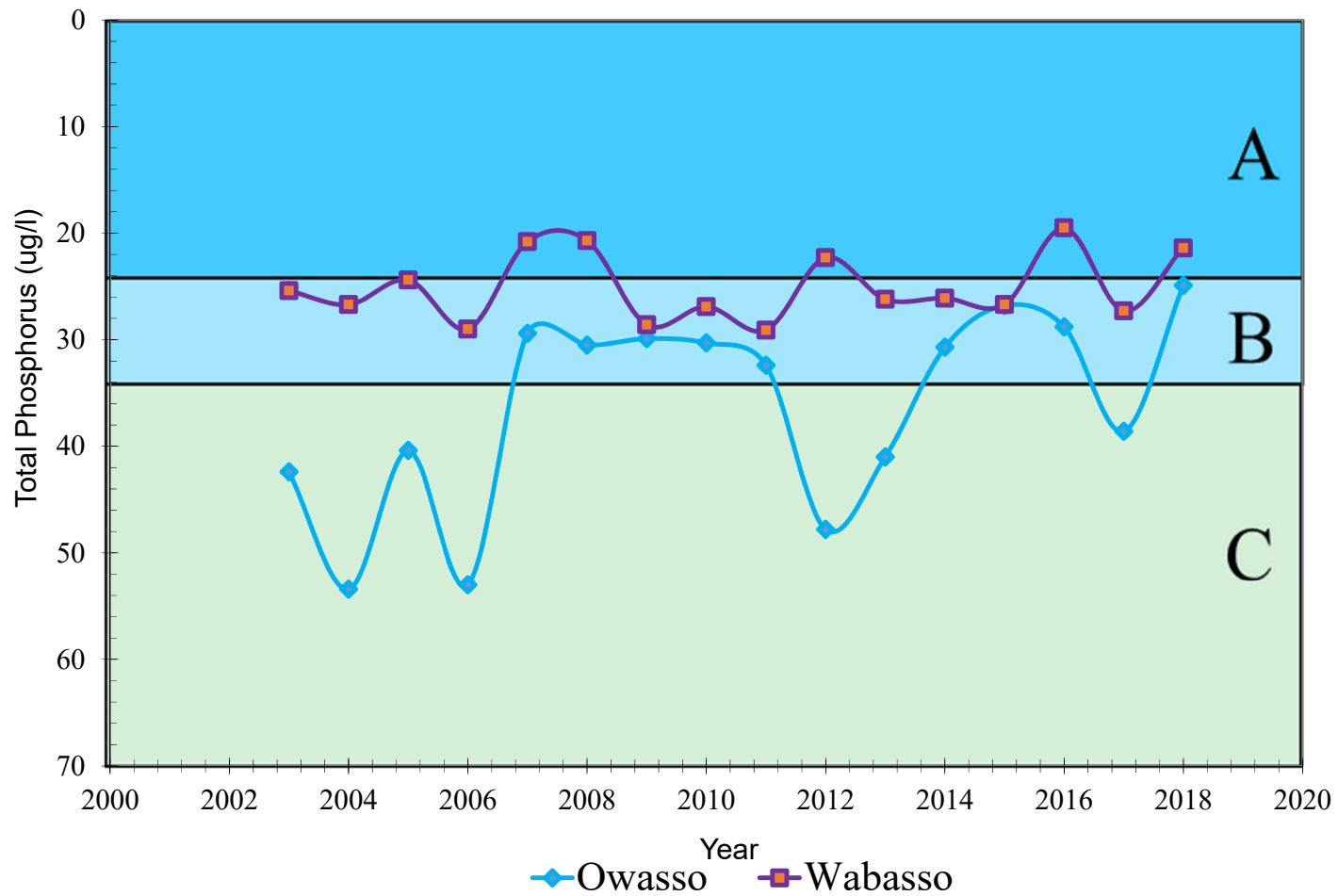
Harvesting carp along the barrier – Wabasso outlet



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Owasso and Wabasso - Total Phosphorus



2019 – Overall objectives

- Continue box netting – harvest more carp
- Better understand the Victoria Wetland
- Improve on the PVC barriers and look into electric barriers



Electric barrier – Rice Creek



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Project Partners



Questions?

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