Great Lakes Salmon & Trout

Lake Huron, Lake Erie, & Lake St. Clair



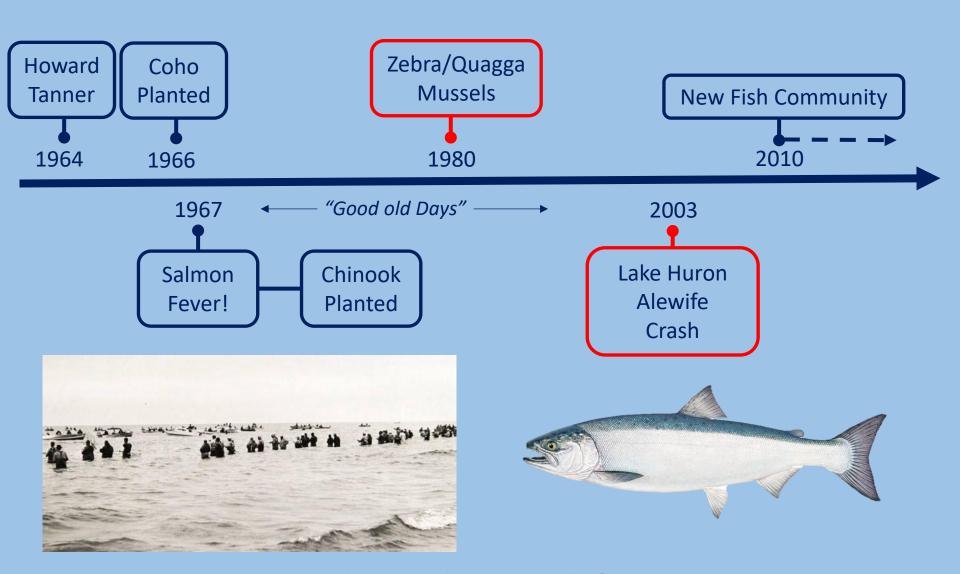
Brad Utrup

Lake St. Clair Fisheries Research Station





Timeline



Fish Illustration by Joseph Tomelleri©

Lake Huron

Max Depth: 750 ft Avg Depth: 195 ft Area: 23,000 mi² Volume: 850 mi³ Residence Time: 22 years

Lake Huron
Bathymetry Map
- NOAA

The State of Things – 1960's



Lake Trout and Lake Whitefish Crashing

Overfishing

Sea Lamprey

Alewife

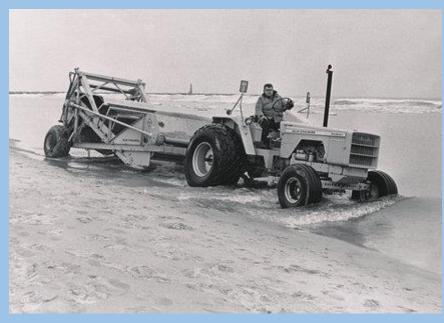


Alewife









© Muskegon Chronicle 1968

"...do something spectacular."

Howard Tanner

- "...we are going to produce the world's greatest freshwater fishery."
- Great Lake's first shift from a commercial to recreational fishery



How excited were people?



Glory Days







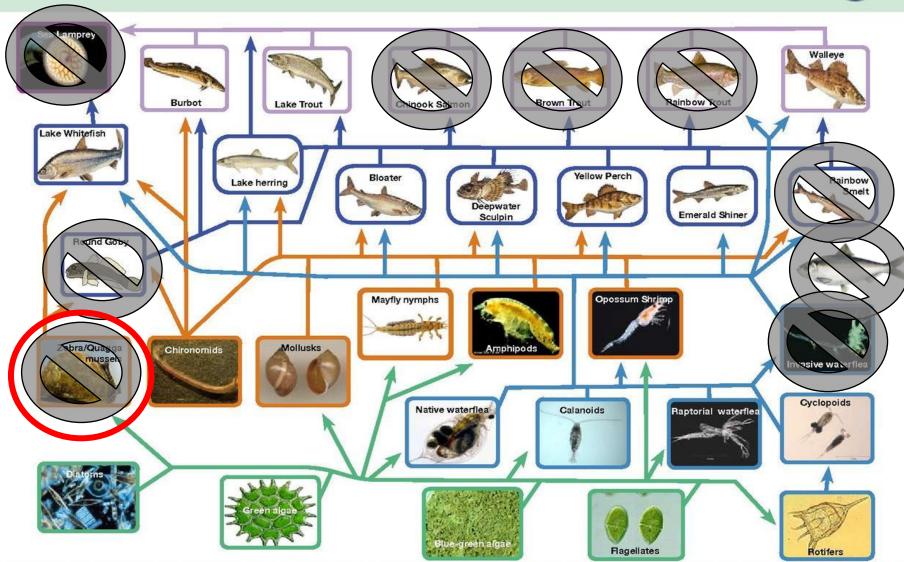


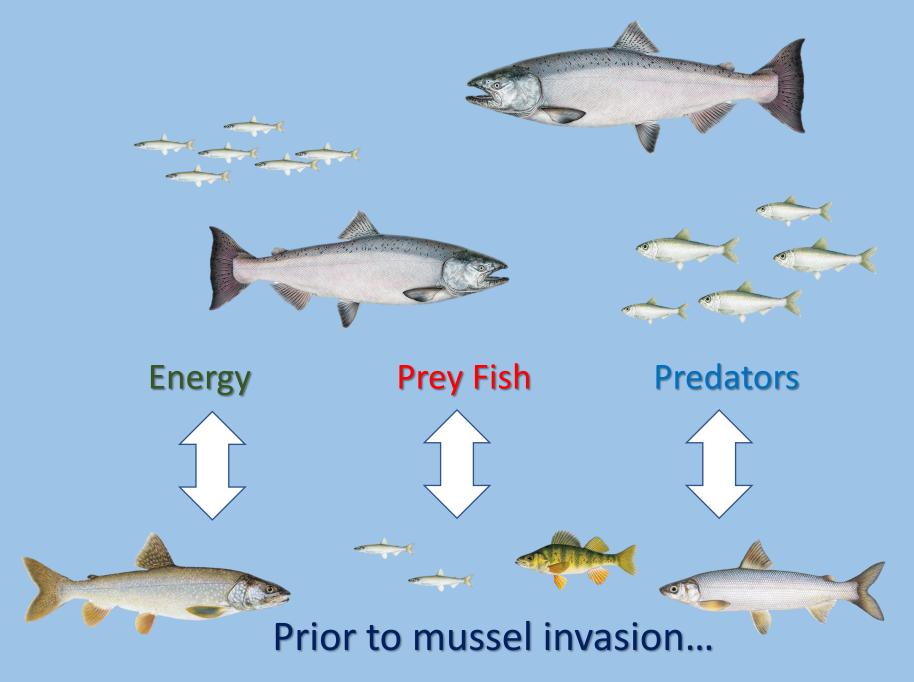


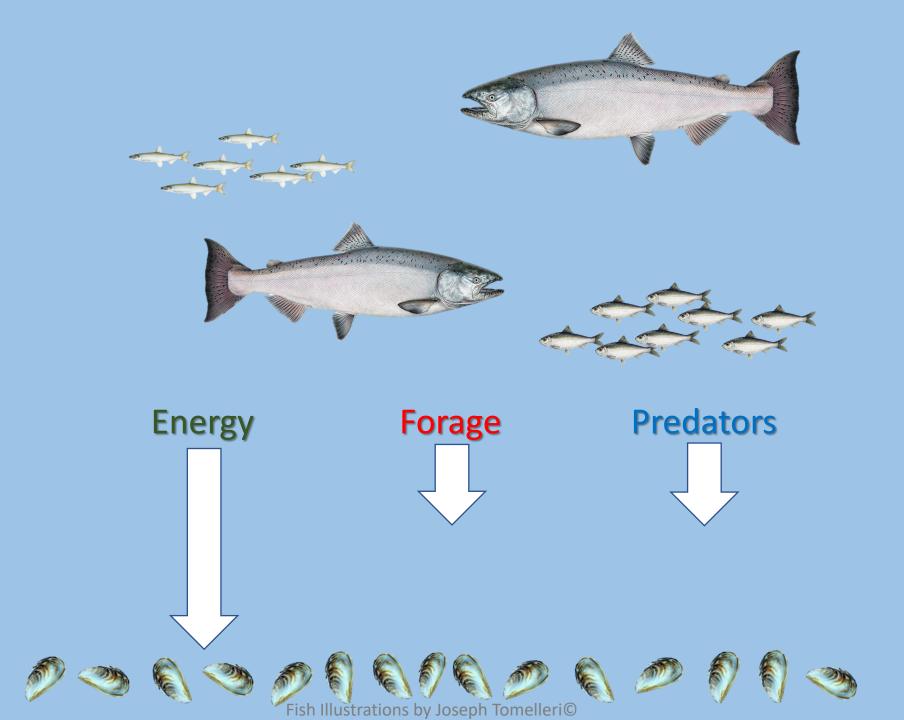
Lake Huron Food Web











After the crash...

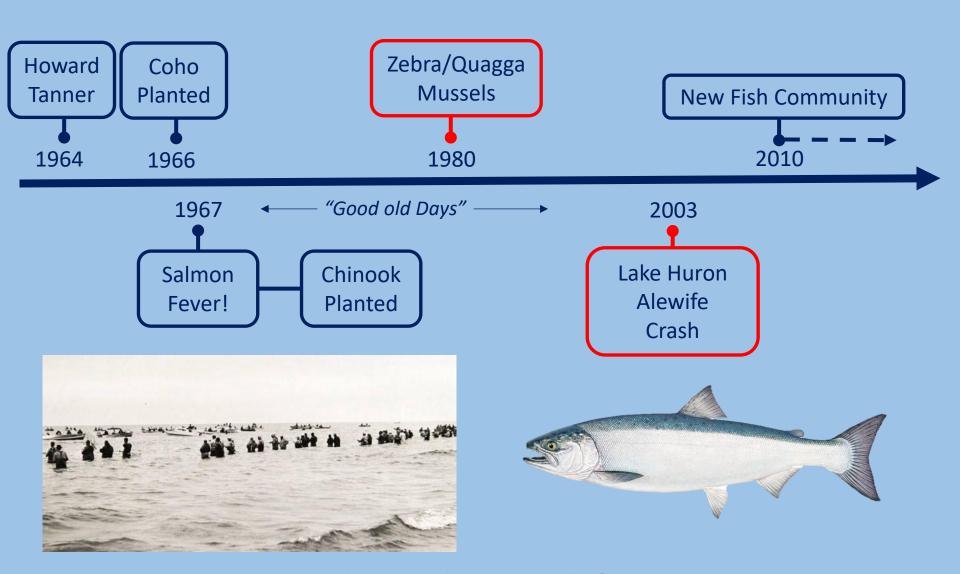






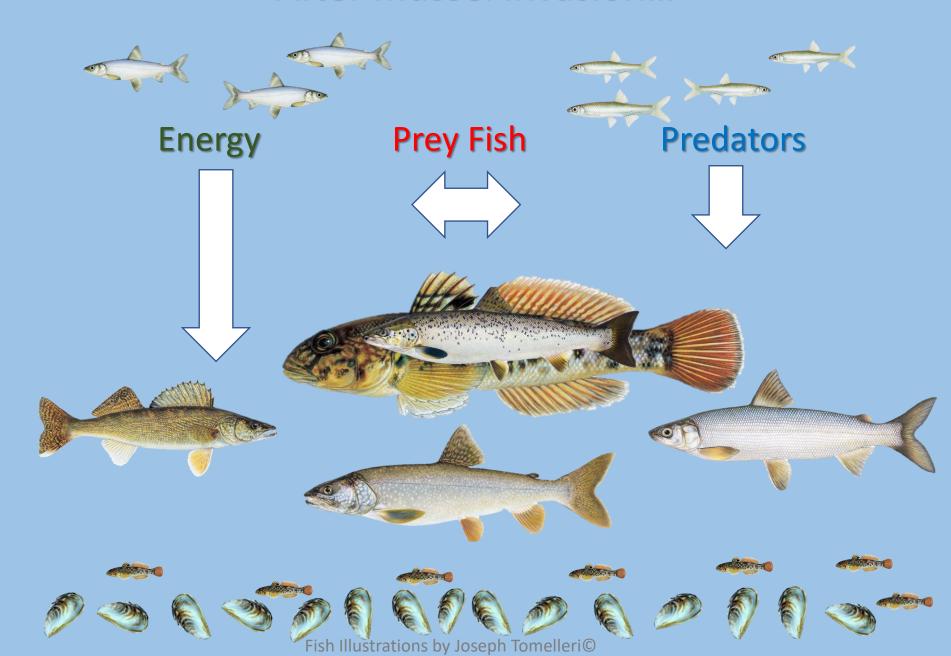


Timeline



Fish Illustration by Joseph Tomelleri©

After mussel invasion...



A New Lake Huron

Losers



Alewife



Chinook Salmon

Tourist Industry

Anglers





Walleye

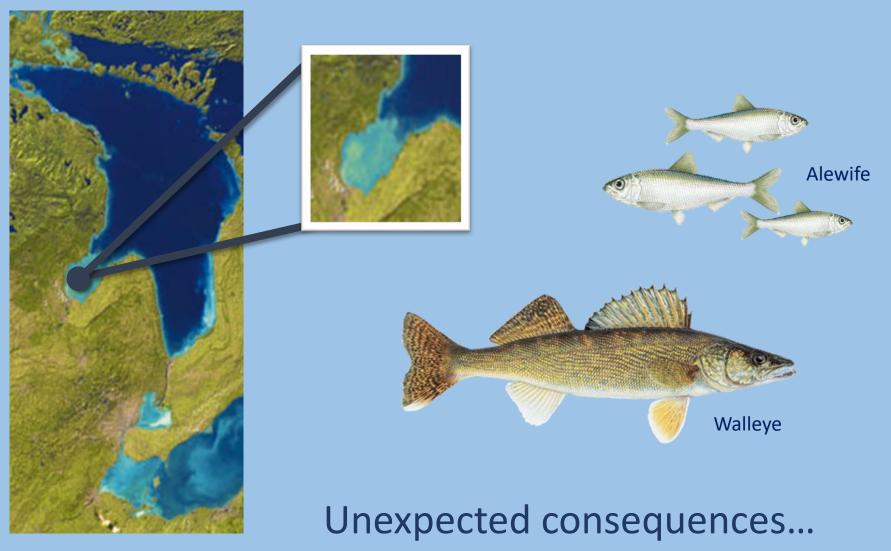


"Versatile" Salmon



Anglers

Saginaw Bay



Fish Illustrations by Joseph Tomelleri©

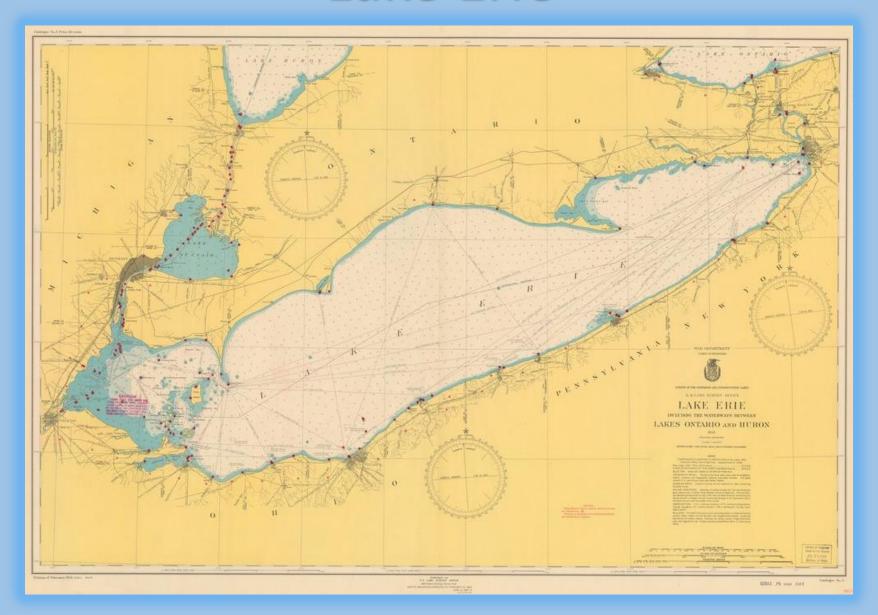
What does it all mean?



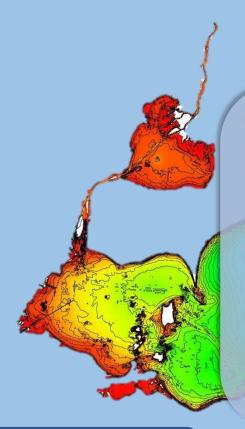
- Mussels Here to Stay
- Less Food
- Alewives Gone
- Change is Constant

- Adapt
- Re-Evaluate
- Learn and Apply

Lake Erie



Lake Erie



Max Depth: 210 ft

Avg Depth: 62 ft

Area: 10,000 mi²

Volume: 116 mi³

Residence Time: 2 years

Oligotrophic

Eutrophic

Lake Erie Bathymetry Map
- NOAA

Productivity



Lake Erie Walleye









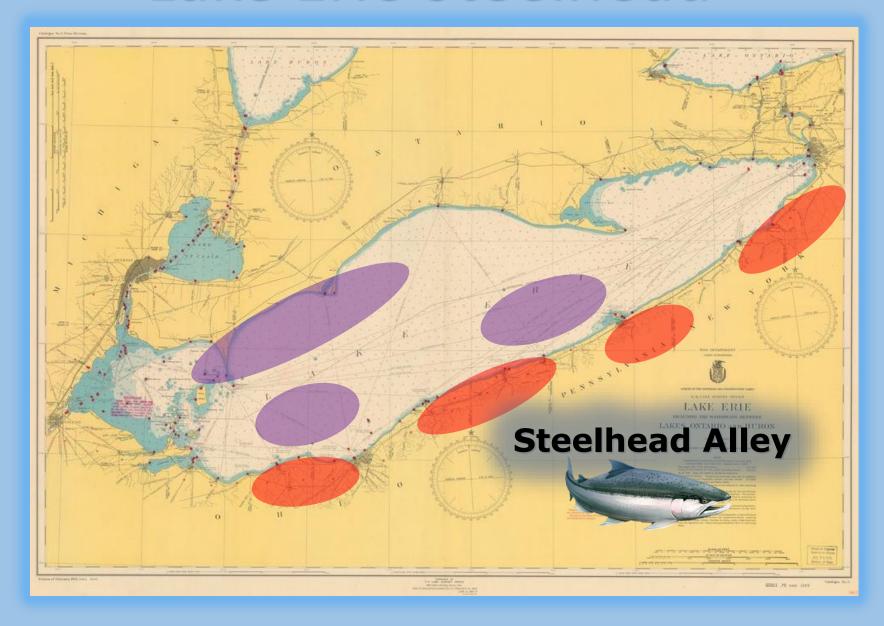
Lake Erie Steelhead



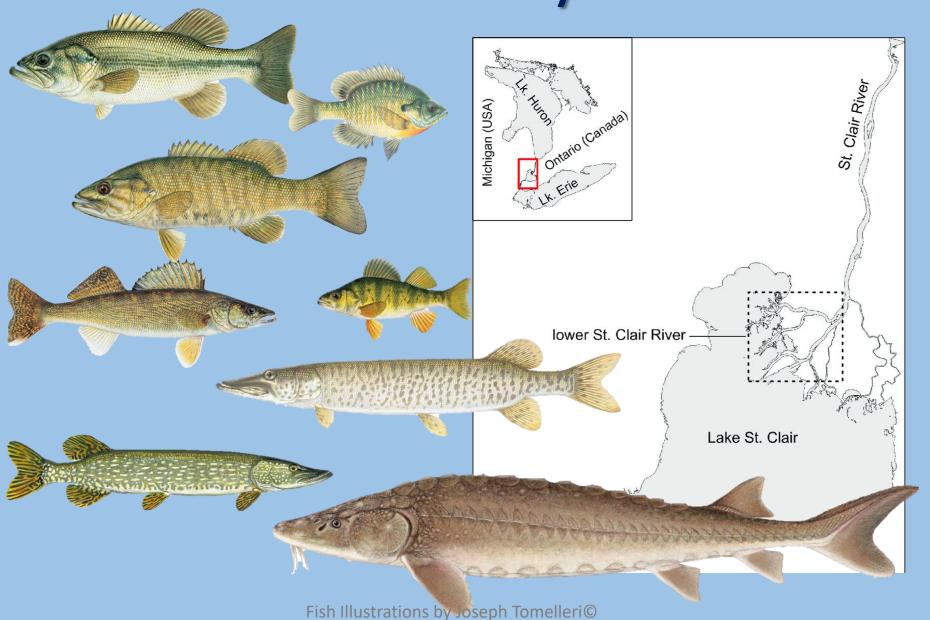




Lake Erie Steelhead



St. Clair System



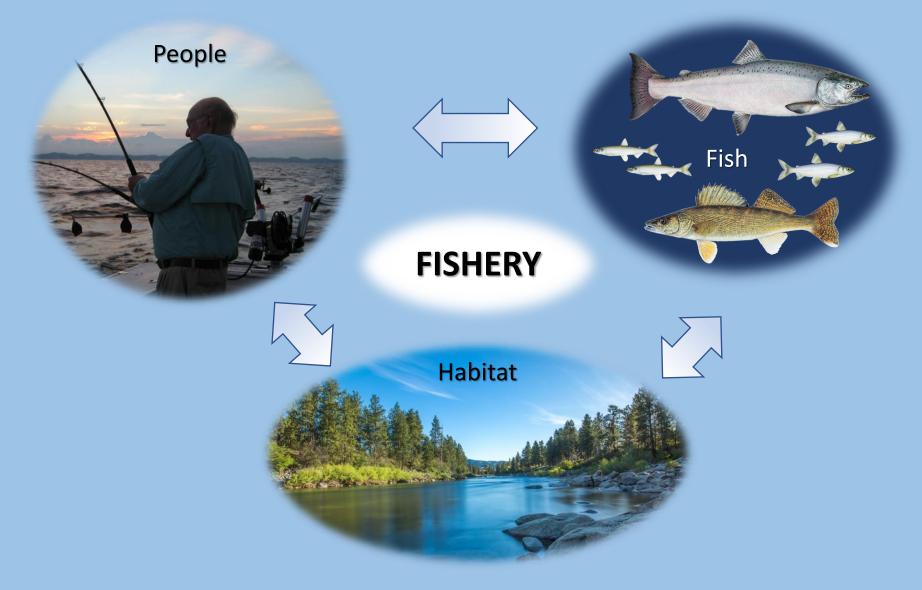








Fisheries Are Complicated



Native Vs. Sport Fishery



Moving Forward...





Questions?