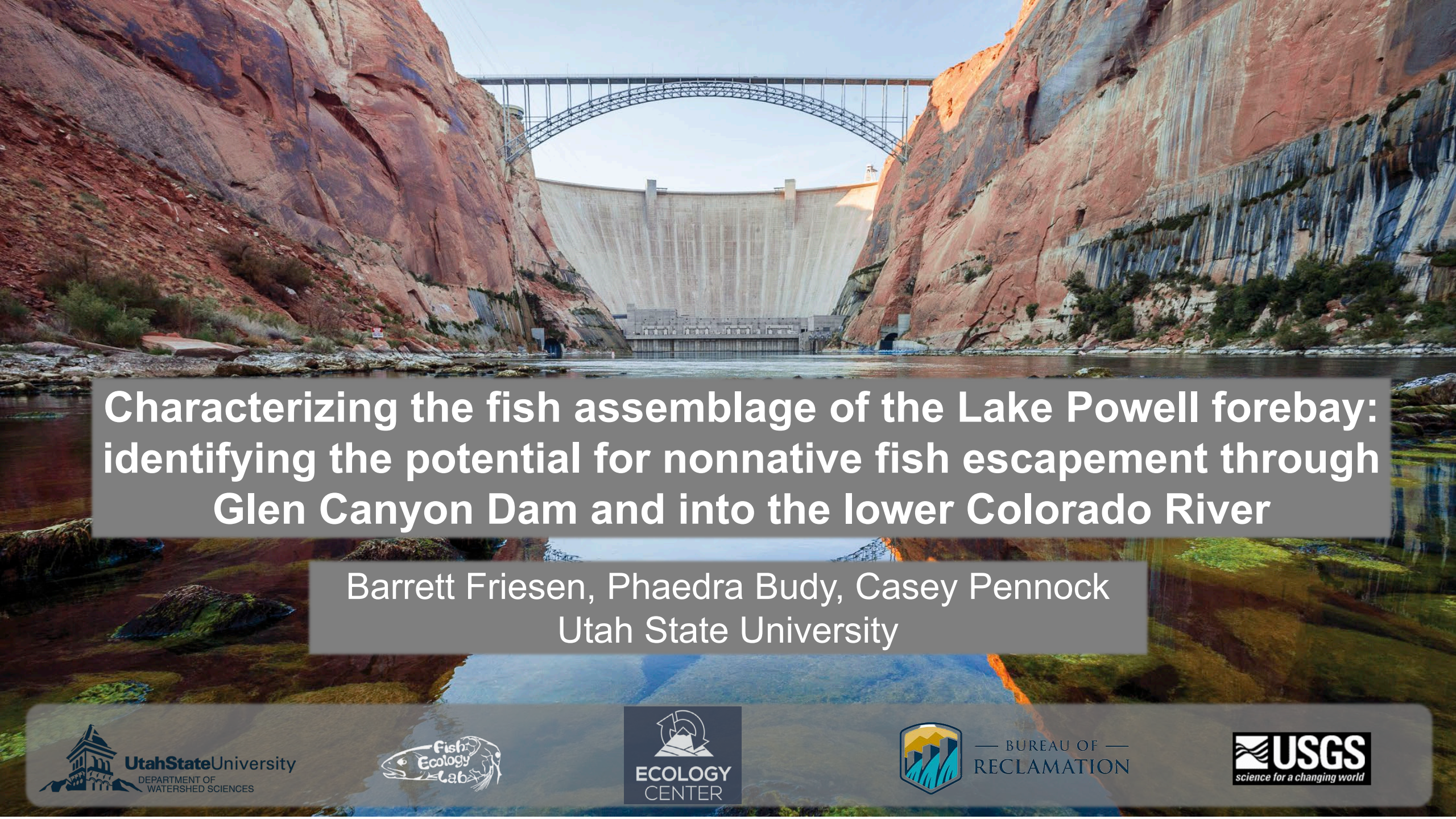


A wide-angle photograph of the Glen Canyon Dam, a large concrete arch dam, situated between two massive red rock cliffs. The dam's reflection is visible in the calm water of the forebay. The sky is clear and blue.

Characterizing the fish assemblage of the Lake Powell forebay: identifying the potential for nonnative fish escapement through Glen Canyon Dam and into the lower Colorado River

Barrett Friesen, Phaedra Budy, Casey Pennock
Utah State University

Lake Powell Update

August 2022

Accomplishments

- Gillnets: 9 nights, 6 nets per night, 411 fish sampled
- Minnow traps: 9 nights, 12 traps per night, 205 fish sampled
- Temperature and dissolved oxygen profiles
- Ichthyoplankton tows
- Installation of 10 station submersible ultrasonic receiver (SUR) network
- Began ultrasonic tag implantation

Challenges

- Implanted only one fish with ultrasonic tag
- Sensor Fish deployment through GCD postponed



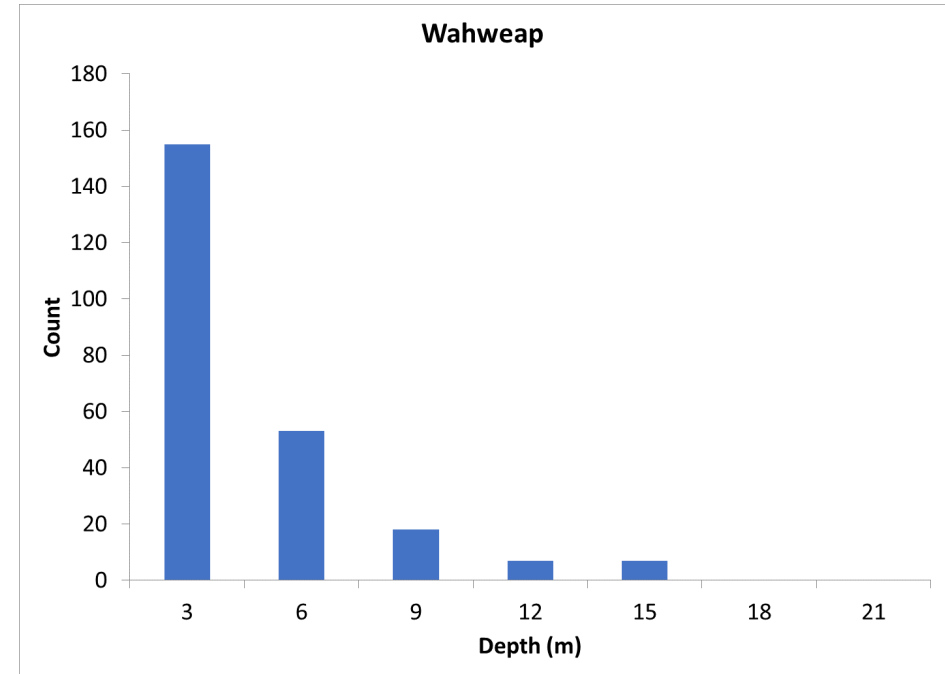
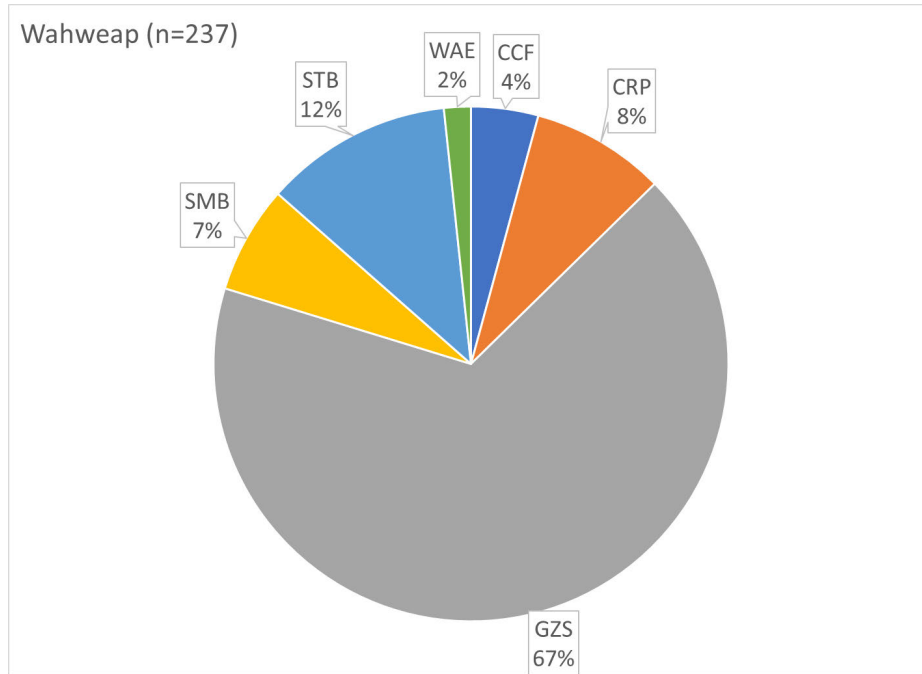
Study focuses on area near GCD

Regions:

1. Forebay
2. Confluence
3. Wahweap



31 Jul – 2 Aug gillnet catch data: Wahweap species and depth

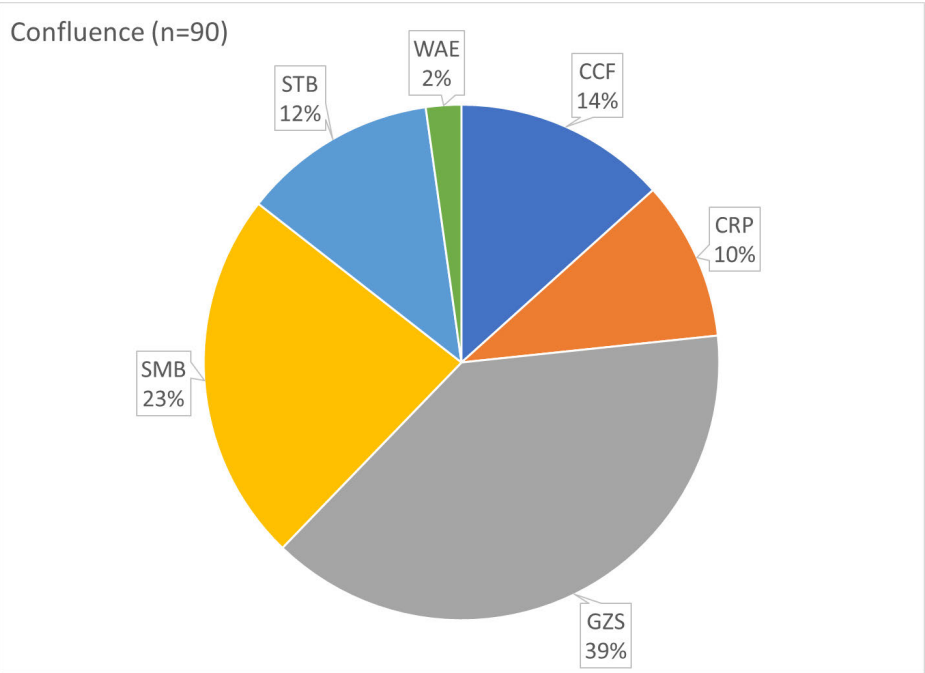


WAE = Walleye
CCF = Channel Catfish
CRP = Common Carp
GZS = Gizzard Shad
SMB = Smallmouth Bass
STB = Striped Bass

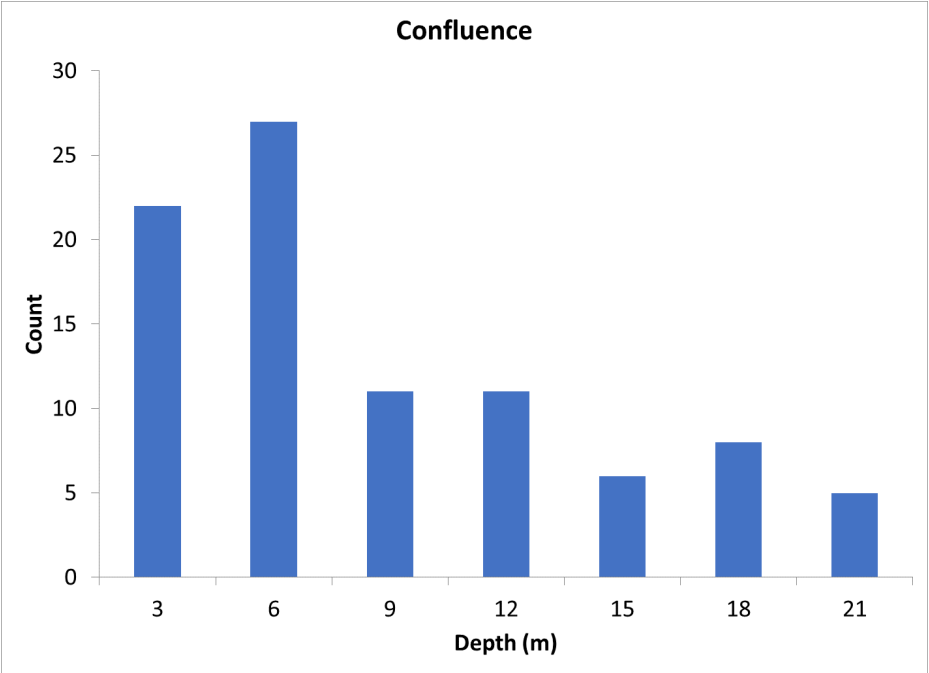


Preliminary data

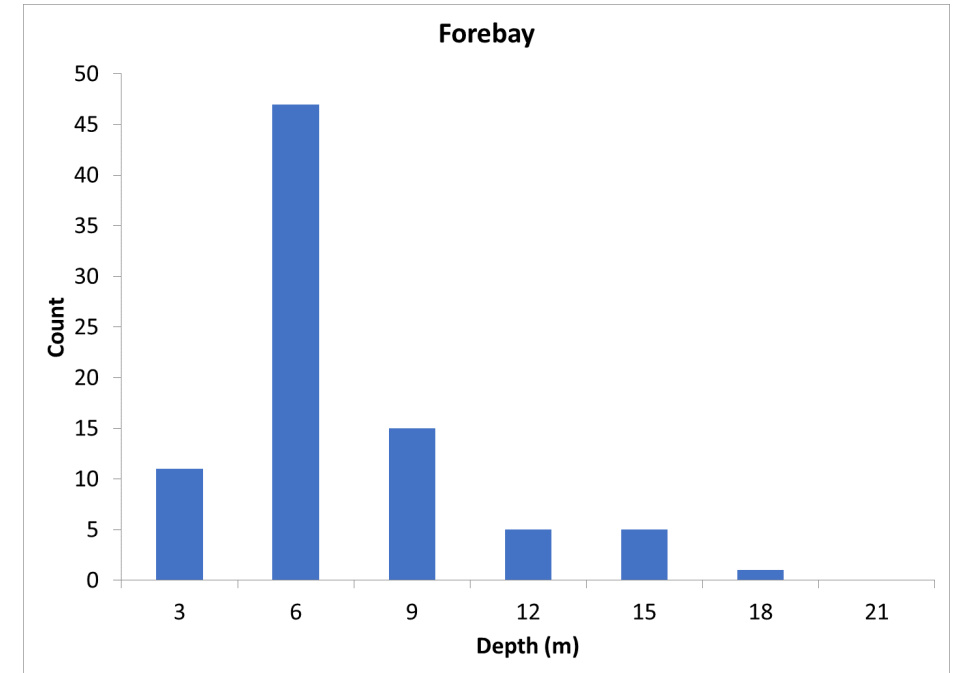
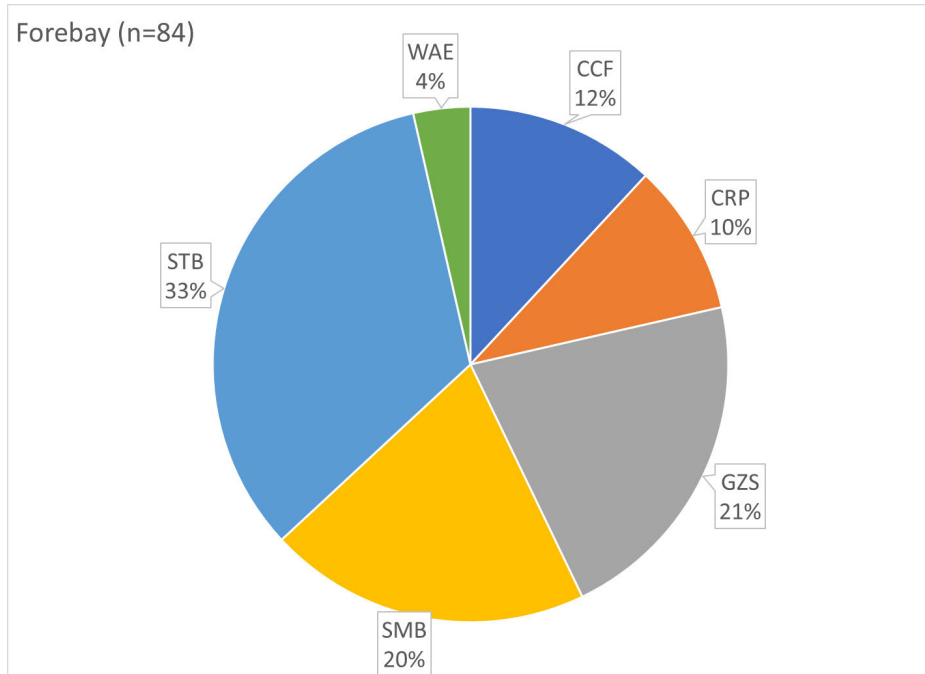
3 Aug – 5 Aug gillnet catch data: Confluence species and depth



WAE = Walleye
CCF = Channel Catfish
CRP = Common Carp
GZS = Gizzard Shad
SMB = Smallmouth Bass
STB = Striped Bass



6 Aug – 8 Aug gillnet catch data: Forebay species and depth

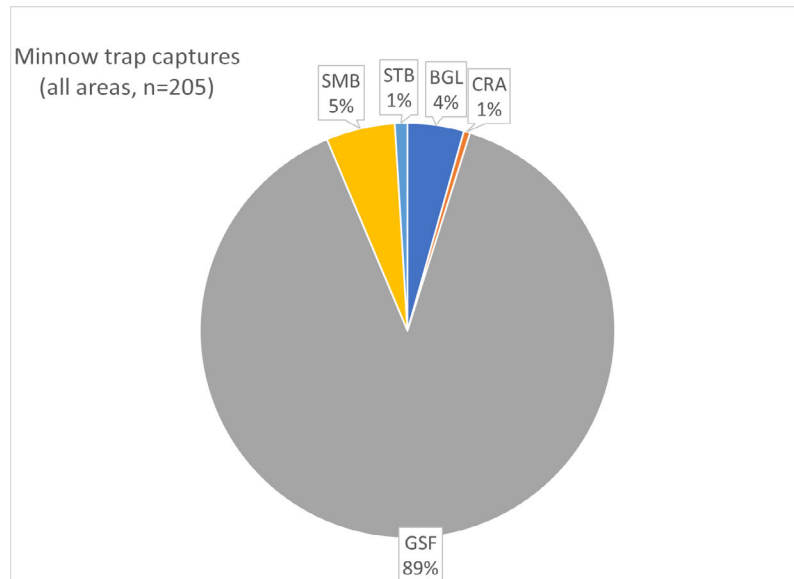
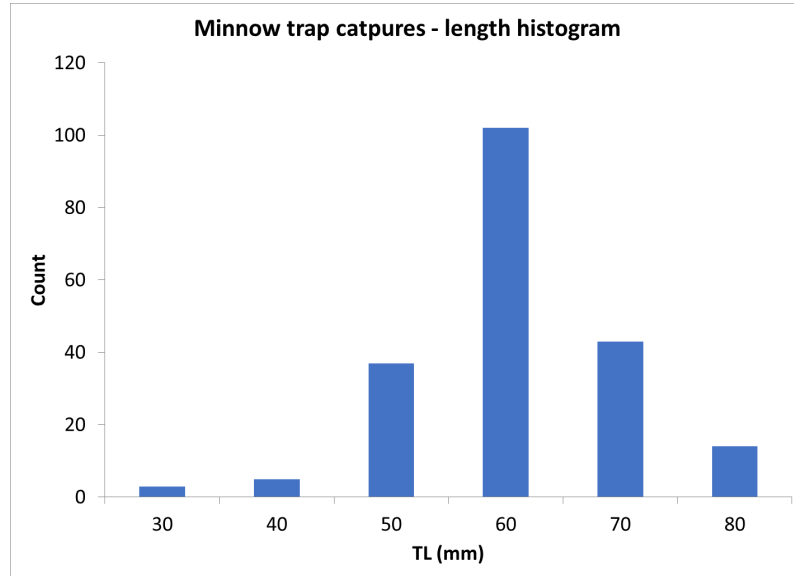


WAE = Walleye
CCF = Channel Catfish
CRP = Common Carp
GZS = Gizzard Shad
SMB = Smallmouth Bass
STB = Striped Bass



Preliminary data

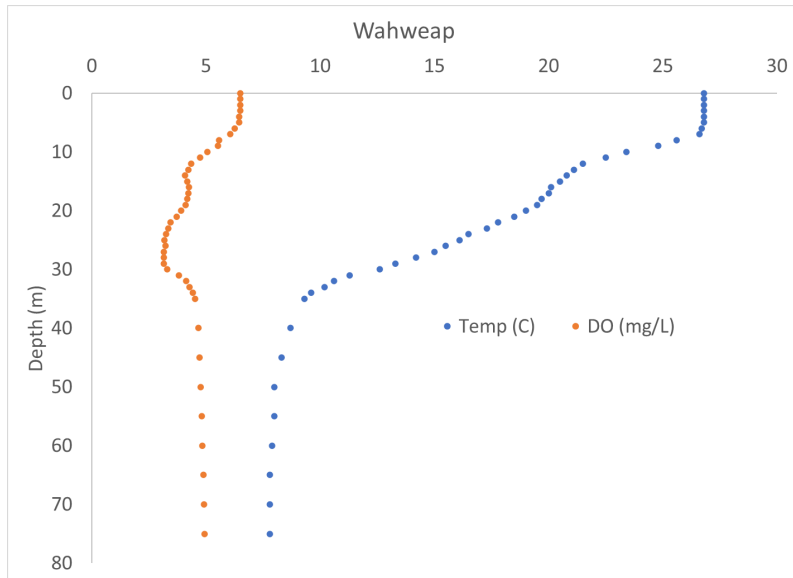
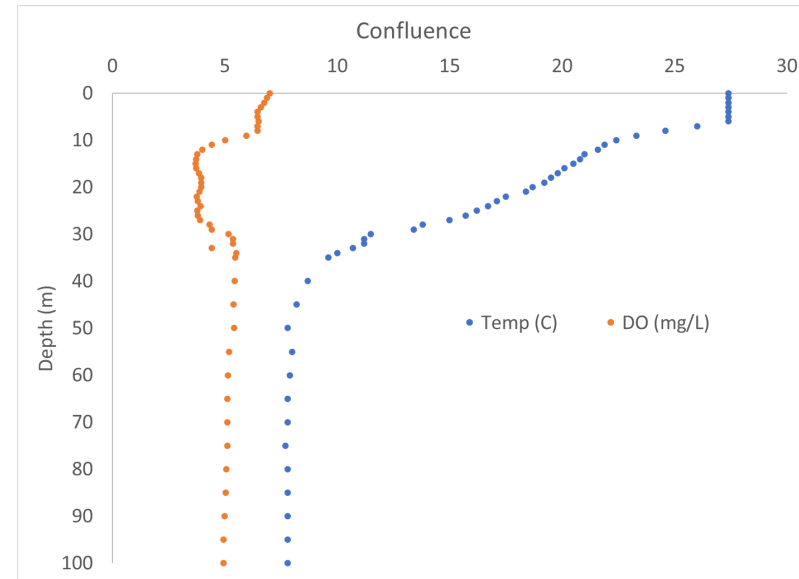
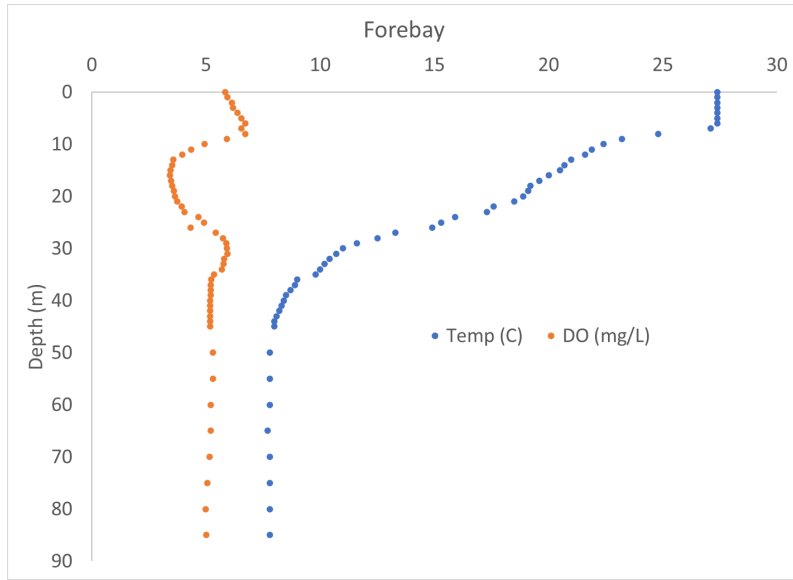
31 Jul – 8 Aug minnow trap sampling: size and species



Observations:

- Capturing additional species compared to June
- Green Sunfish still predominant
- Average size has increased since early summer (51 mm to 57 mm)

Temp & DO profiles: 31 July 2022



Observations:

- Epilimnion is formed, extending down to about 30 m
- Top of penstock intake at 18.4 m depth
- Low DO in a zone at 10-25 m depth
- Generally low DO, compared to earlier seasons

Preliminary data



Thank you!