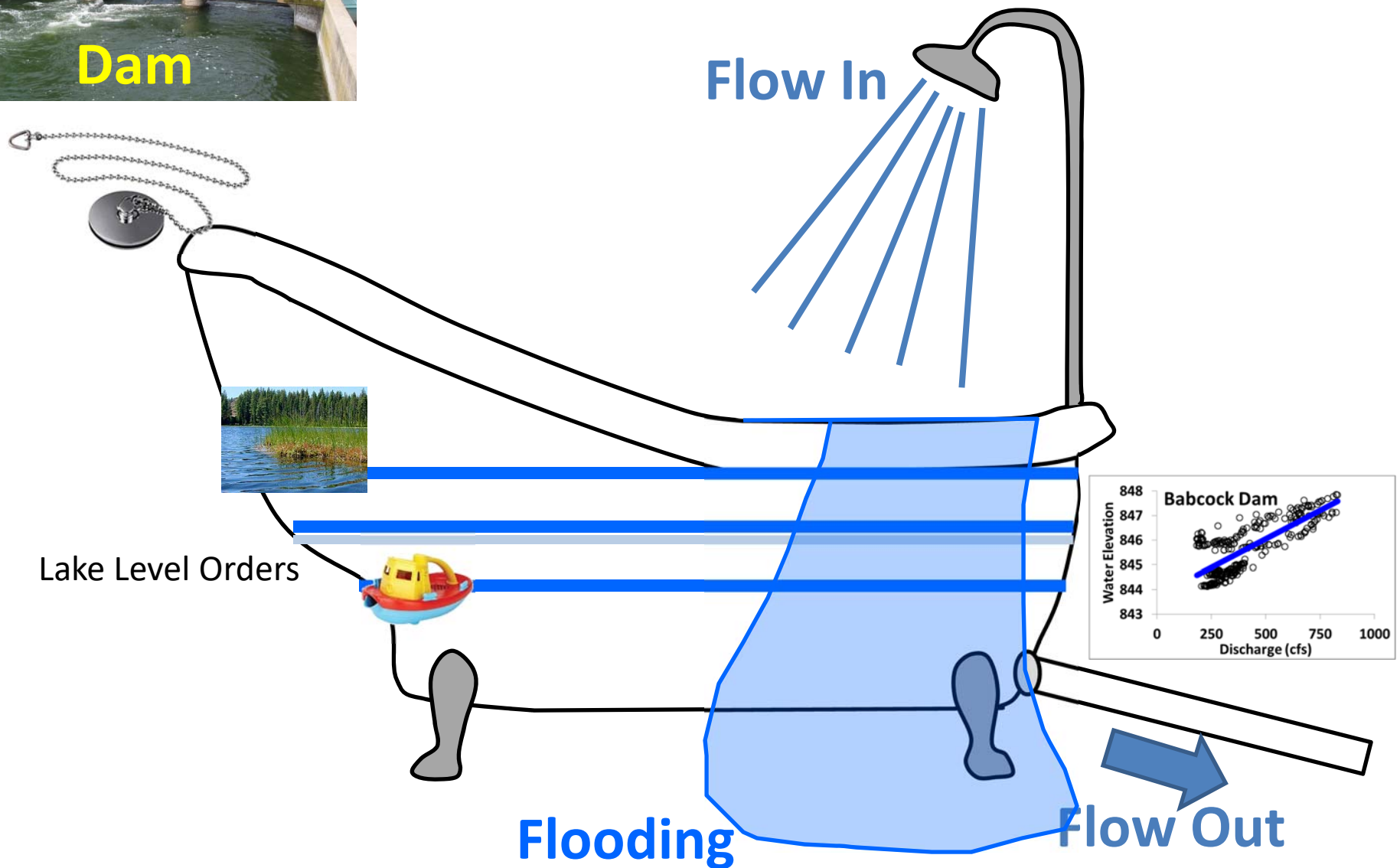


Yahara Chain of Lakes - Task Force

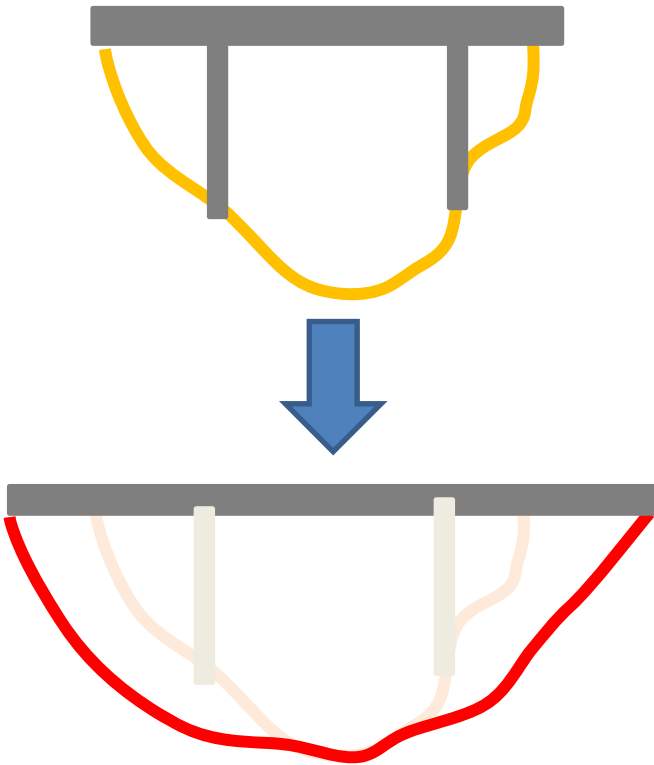
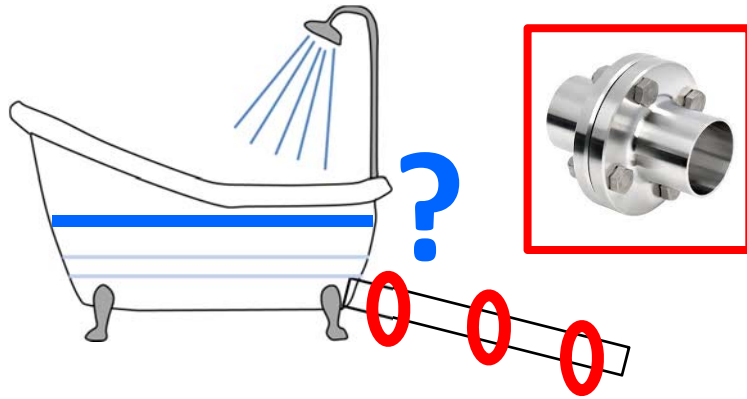
February 18, 2019



Water Levels and Flow

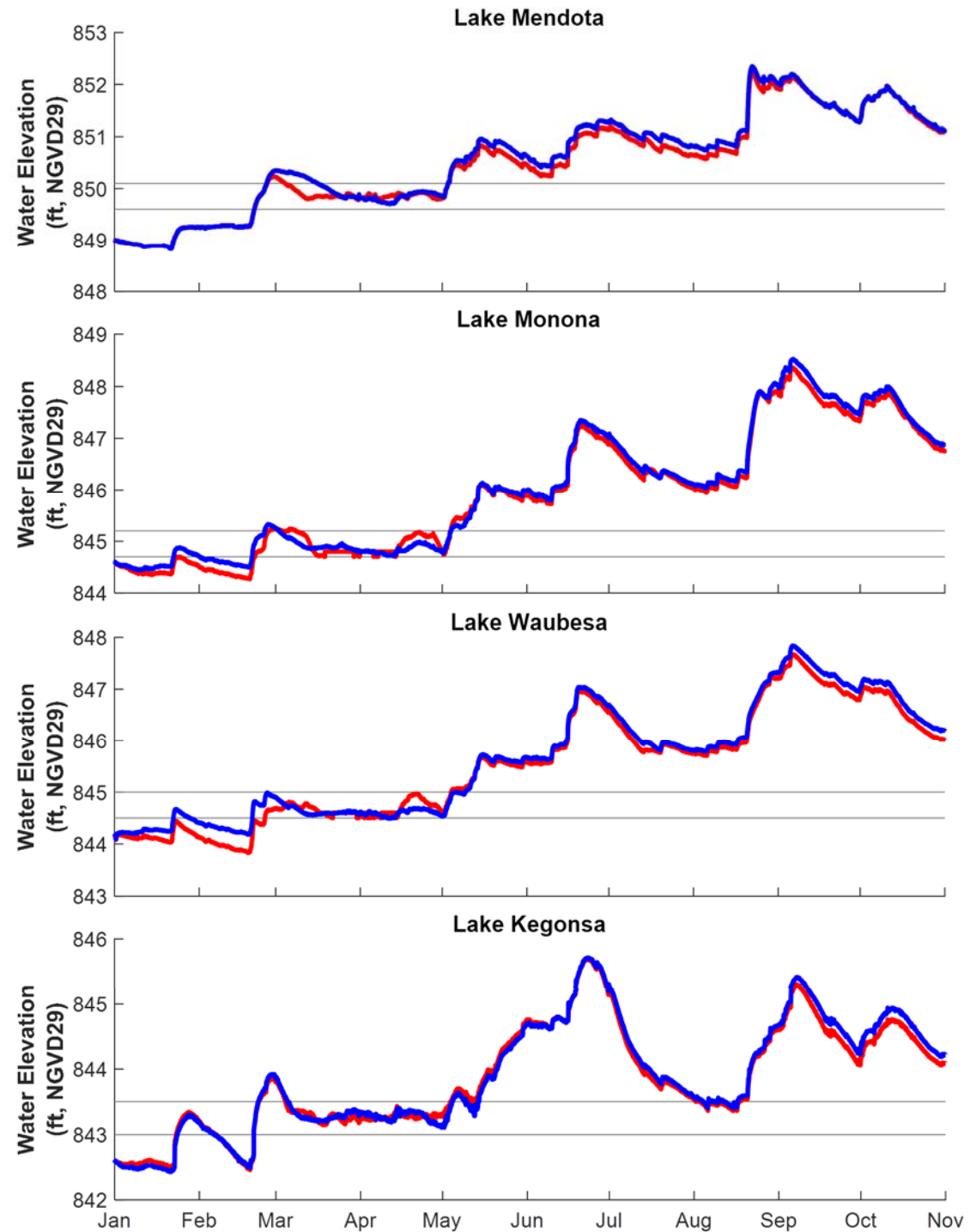
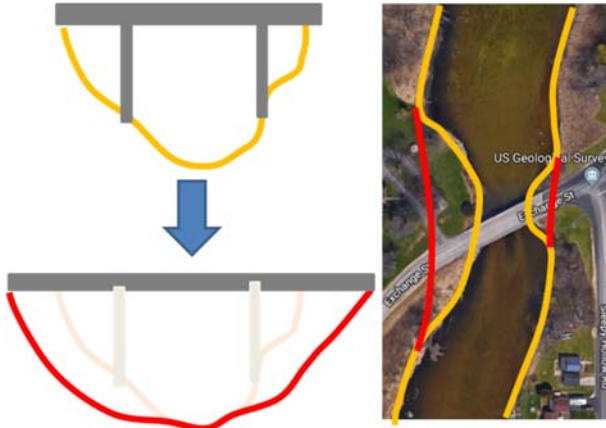


Mitigation – Bridge Modifications

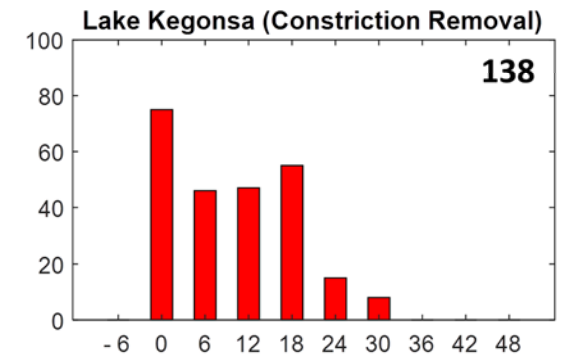
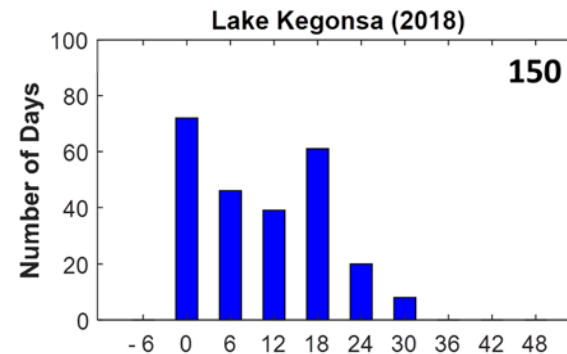
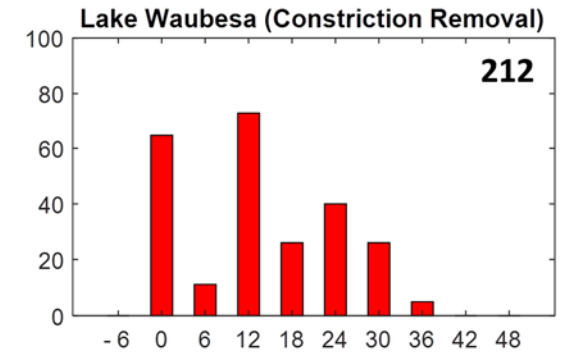
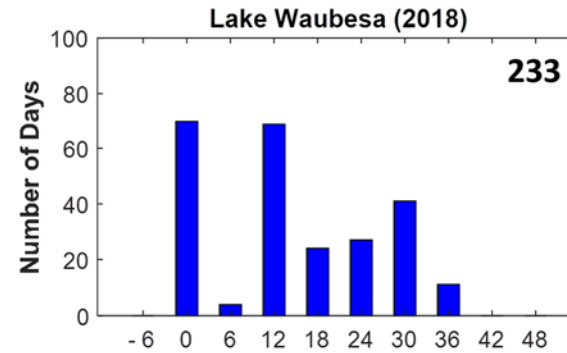
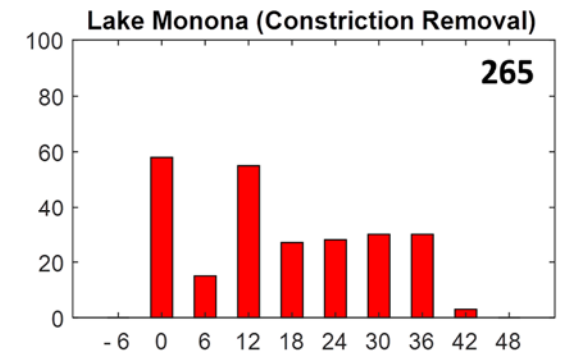
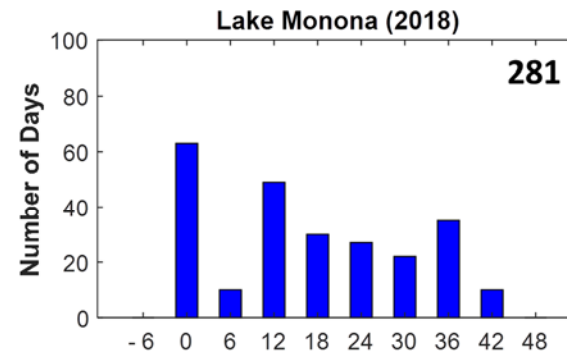
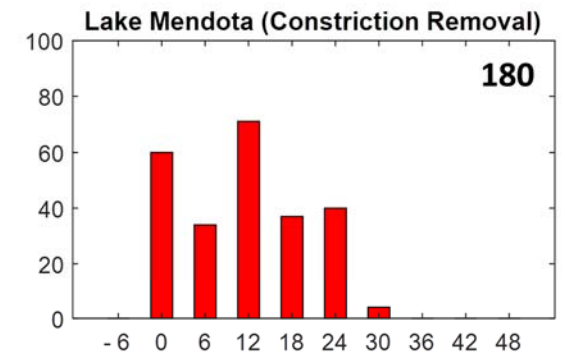
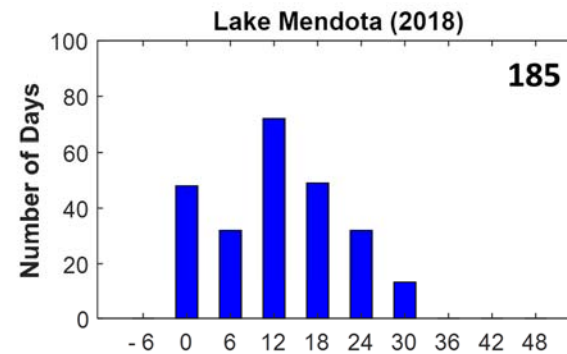
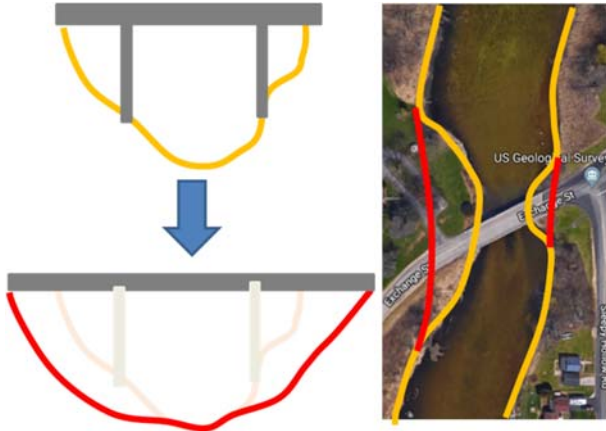


14 Bridges

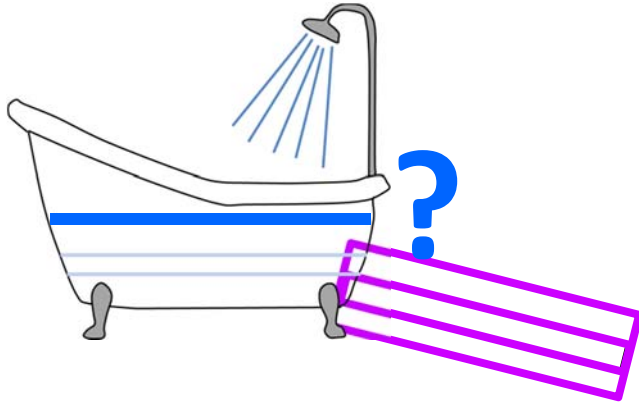
Bridge Modifications



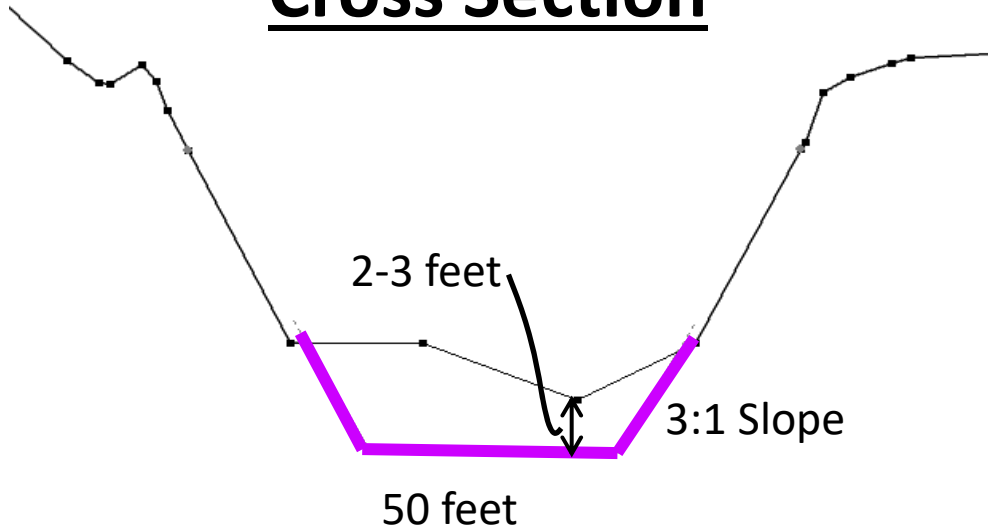
Bridge Modifications



Mitigation – Yahara River Dredging



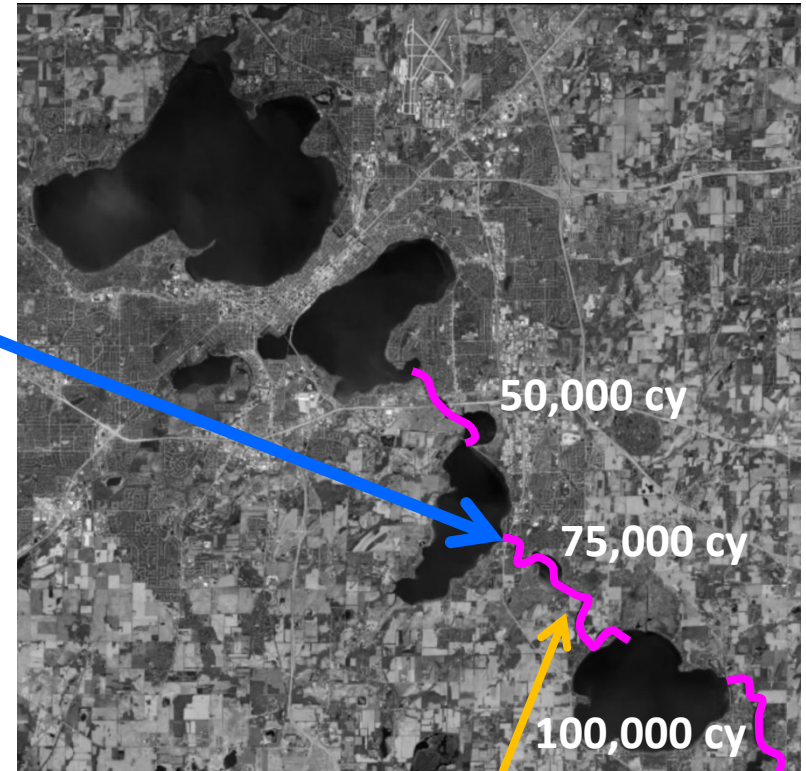
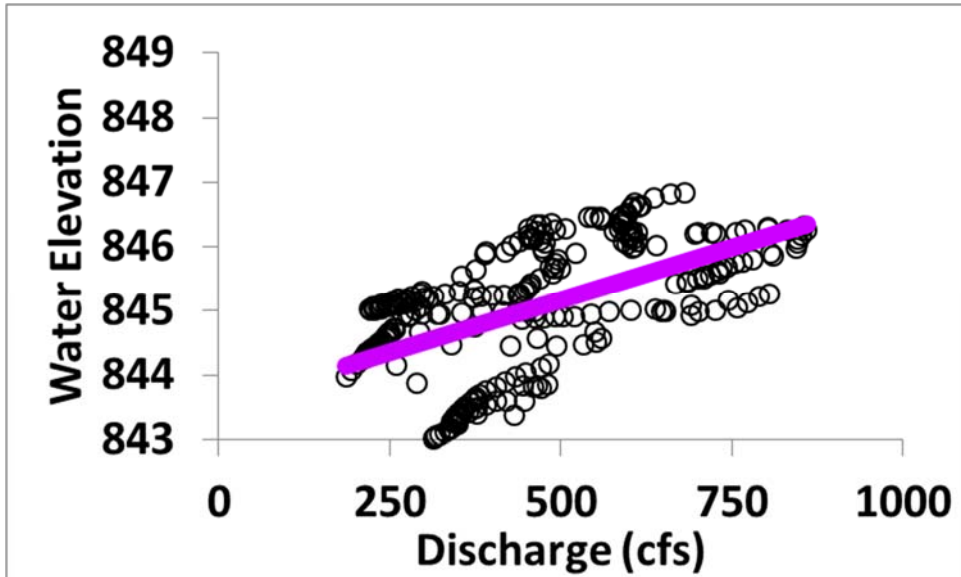
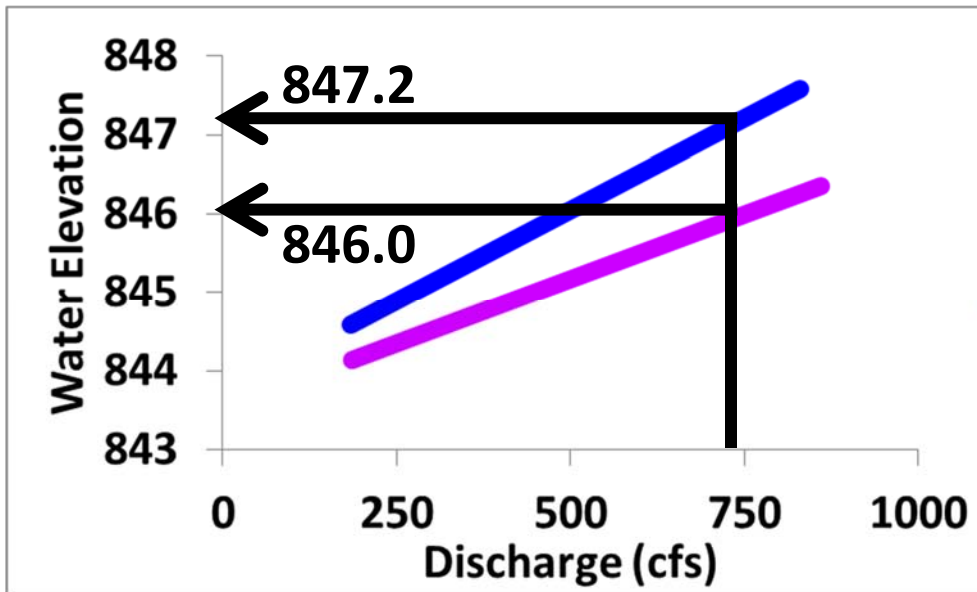
Cross Section



**Historic
Fish
Weir**



Mitigation – Yahara River Dredging

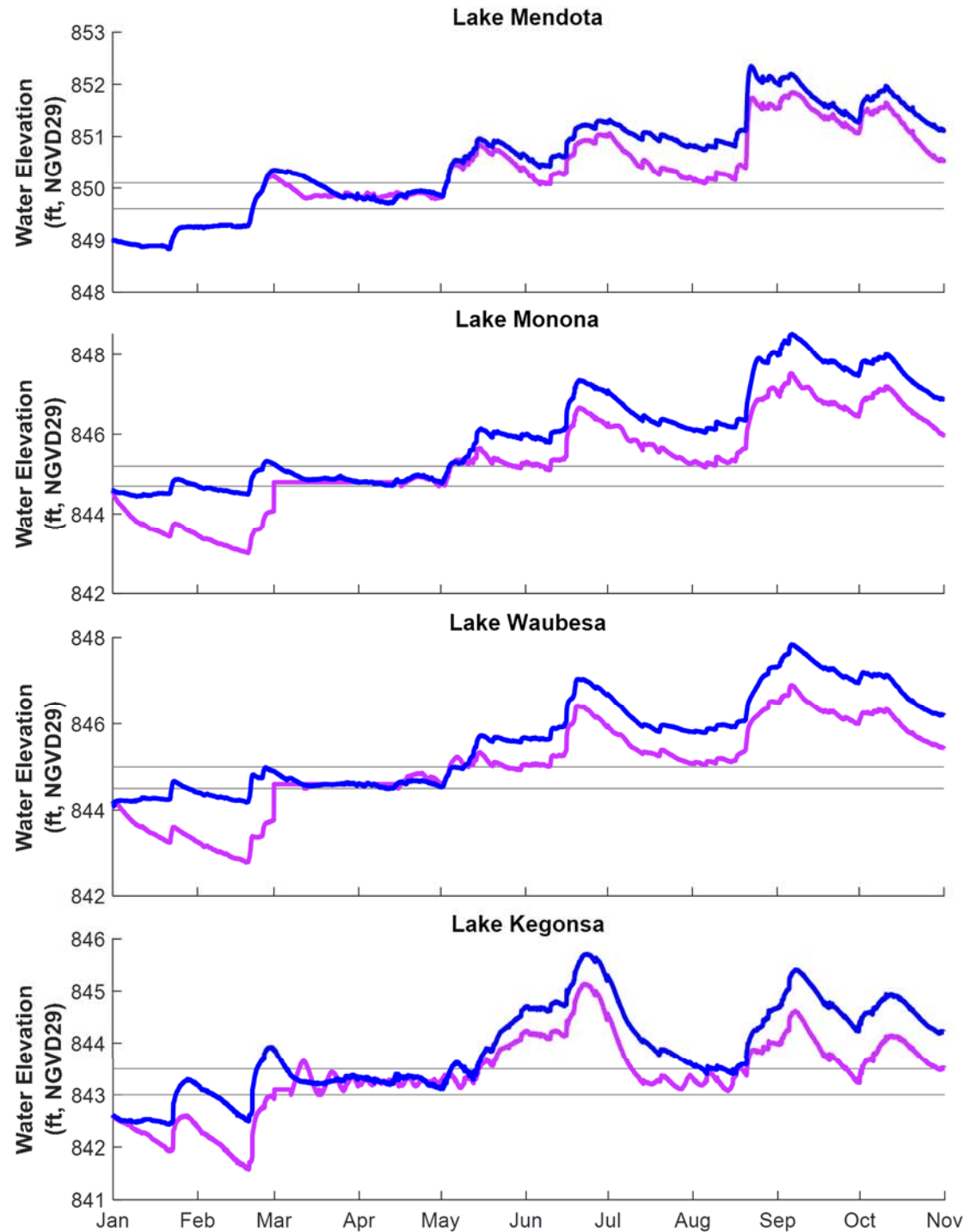
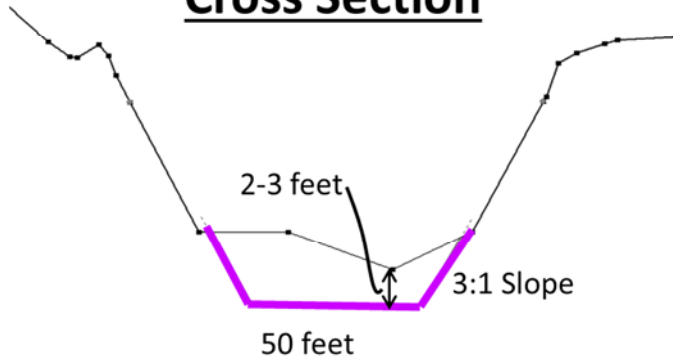


Historic
Fish
Weir



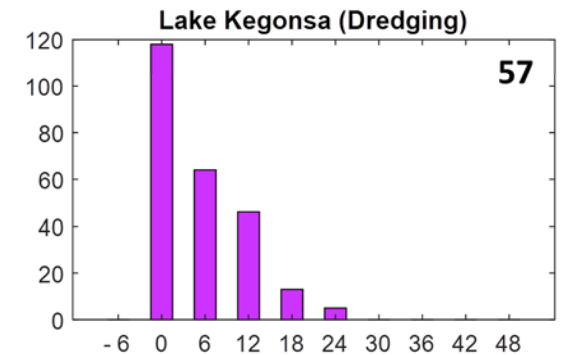
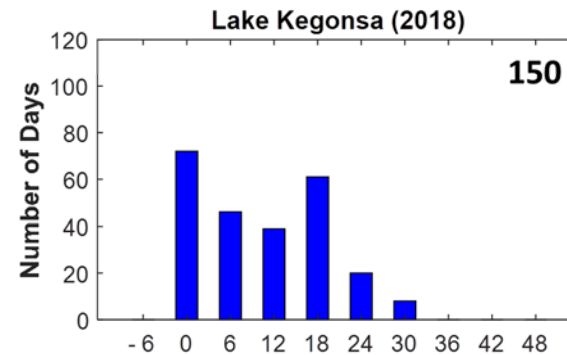
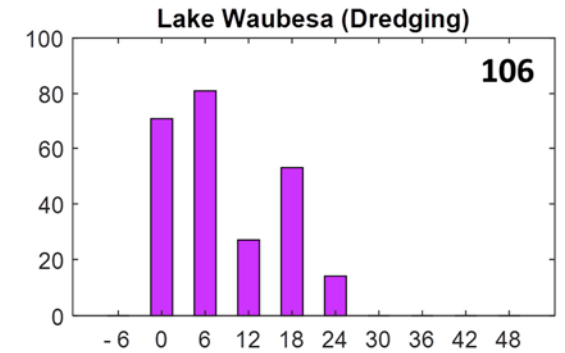
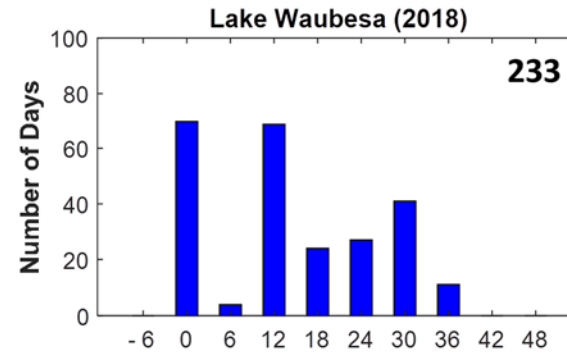
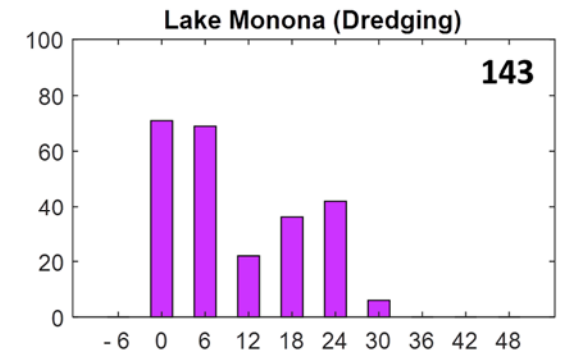
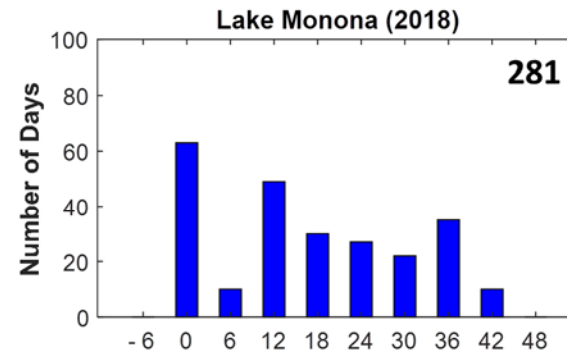
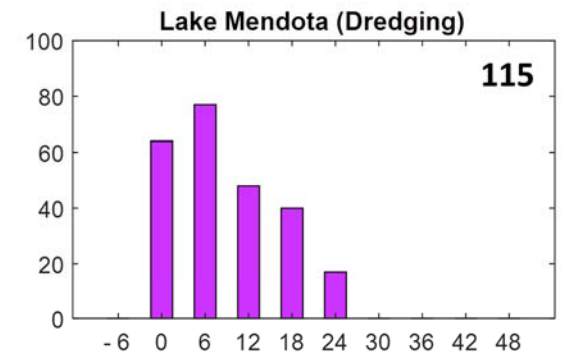
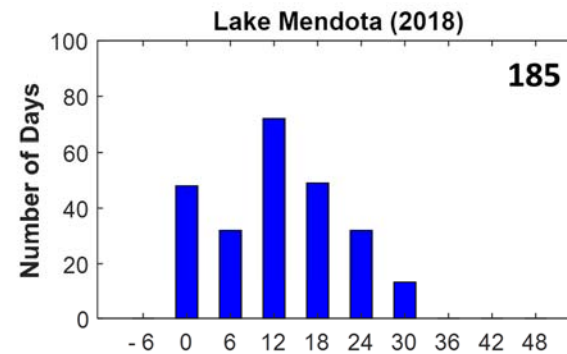
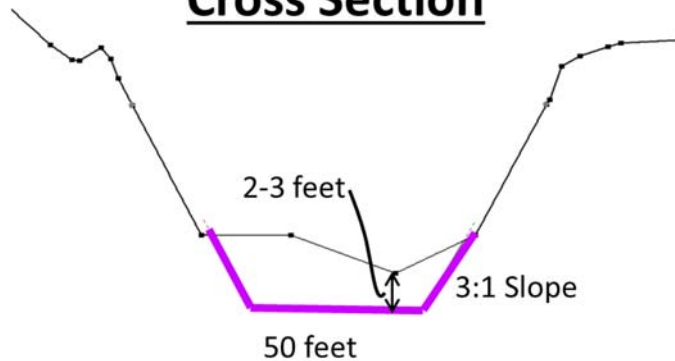
Yahara River Dredging

Cross Section

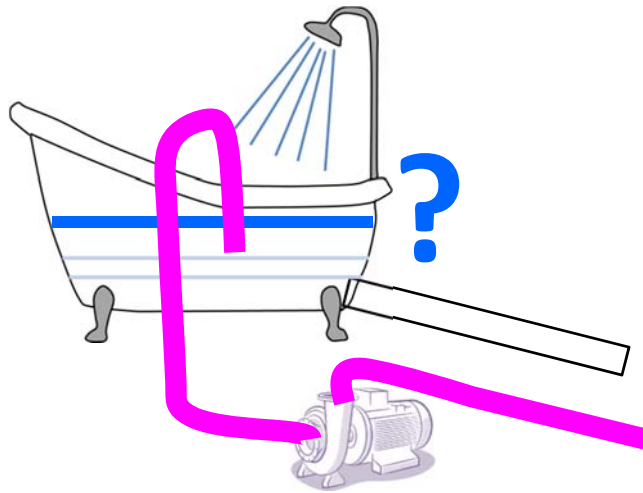


Yahara River Dredging

Cross Section

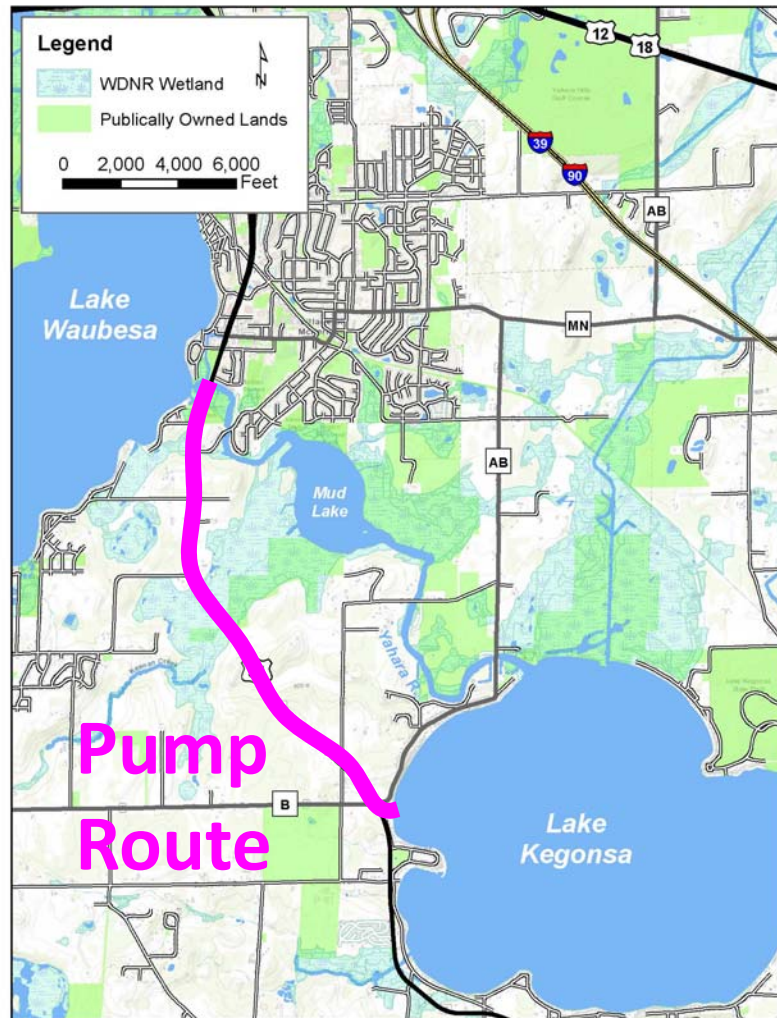


Mitigation – Flow Reroute and Pumping

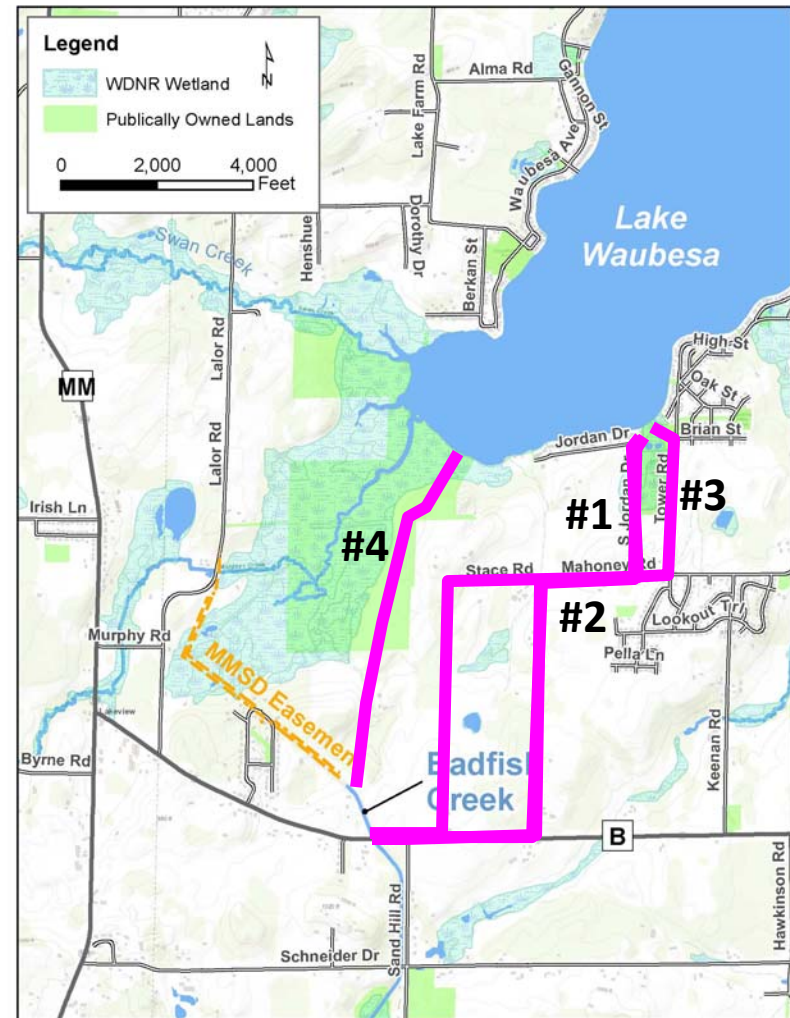


Mitigation – Flow Reroute and Pumping

Down

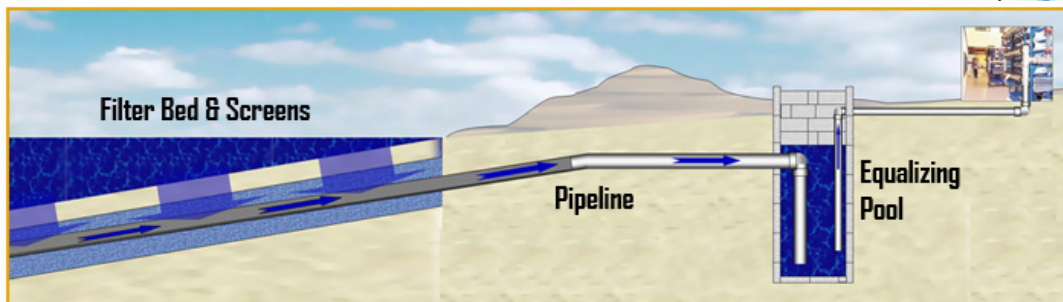
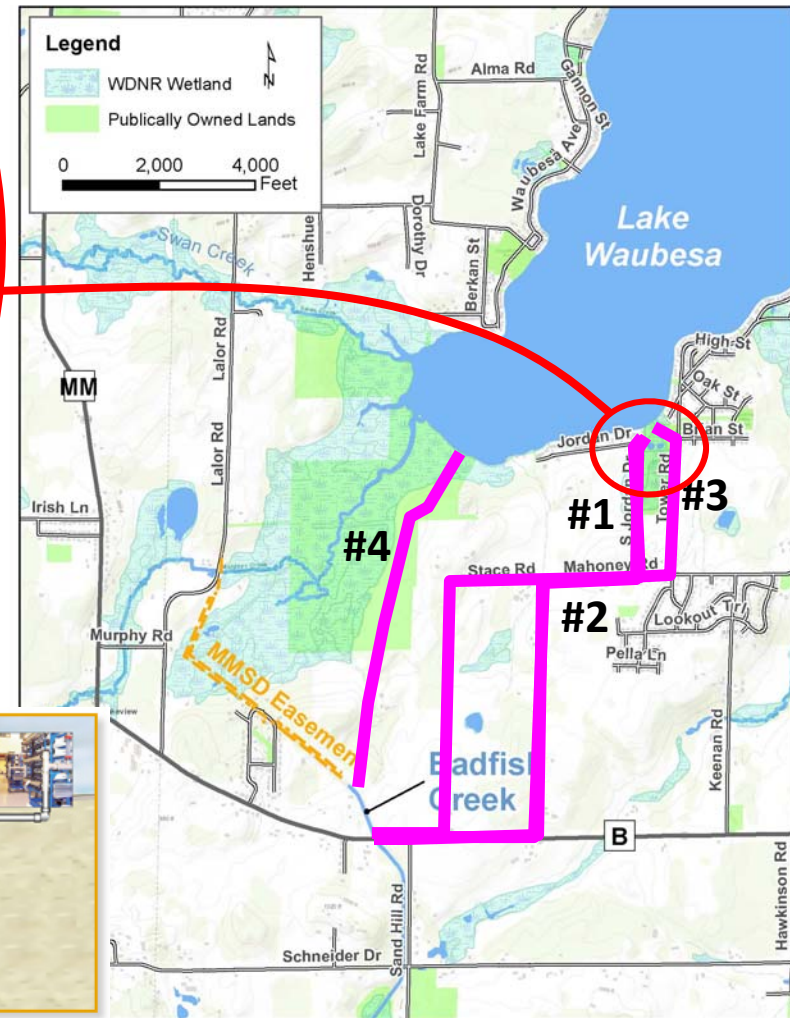
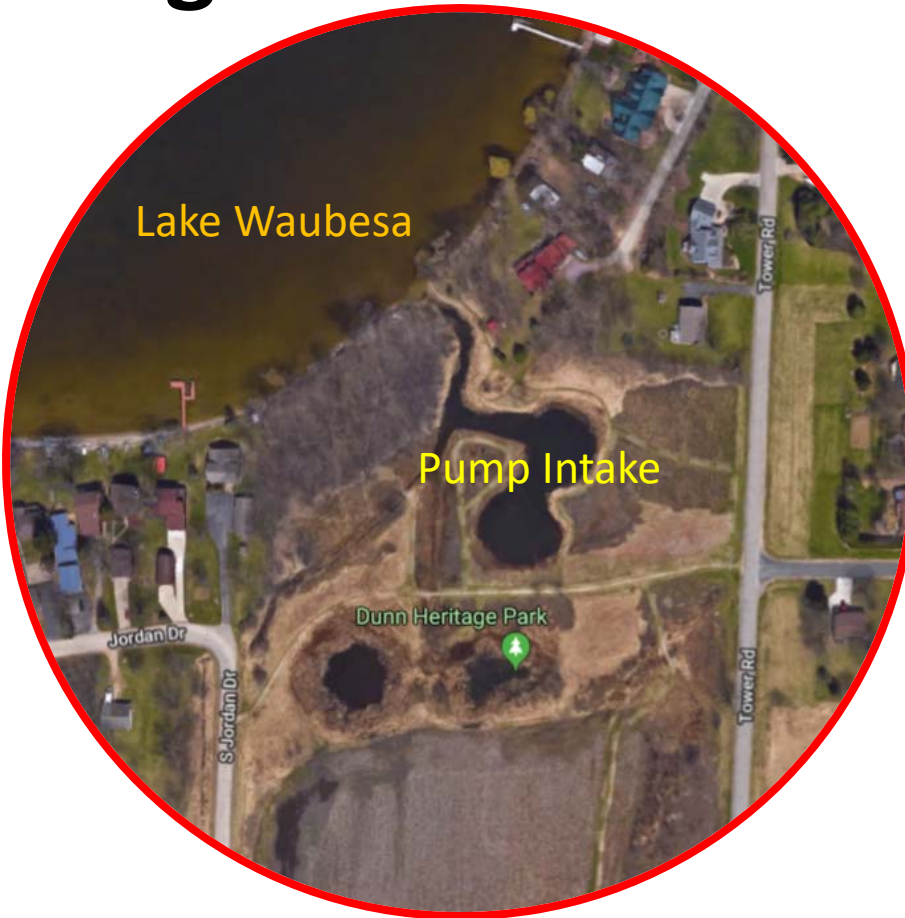


Out

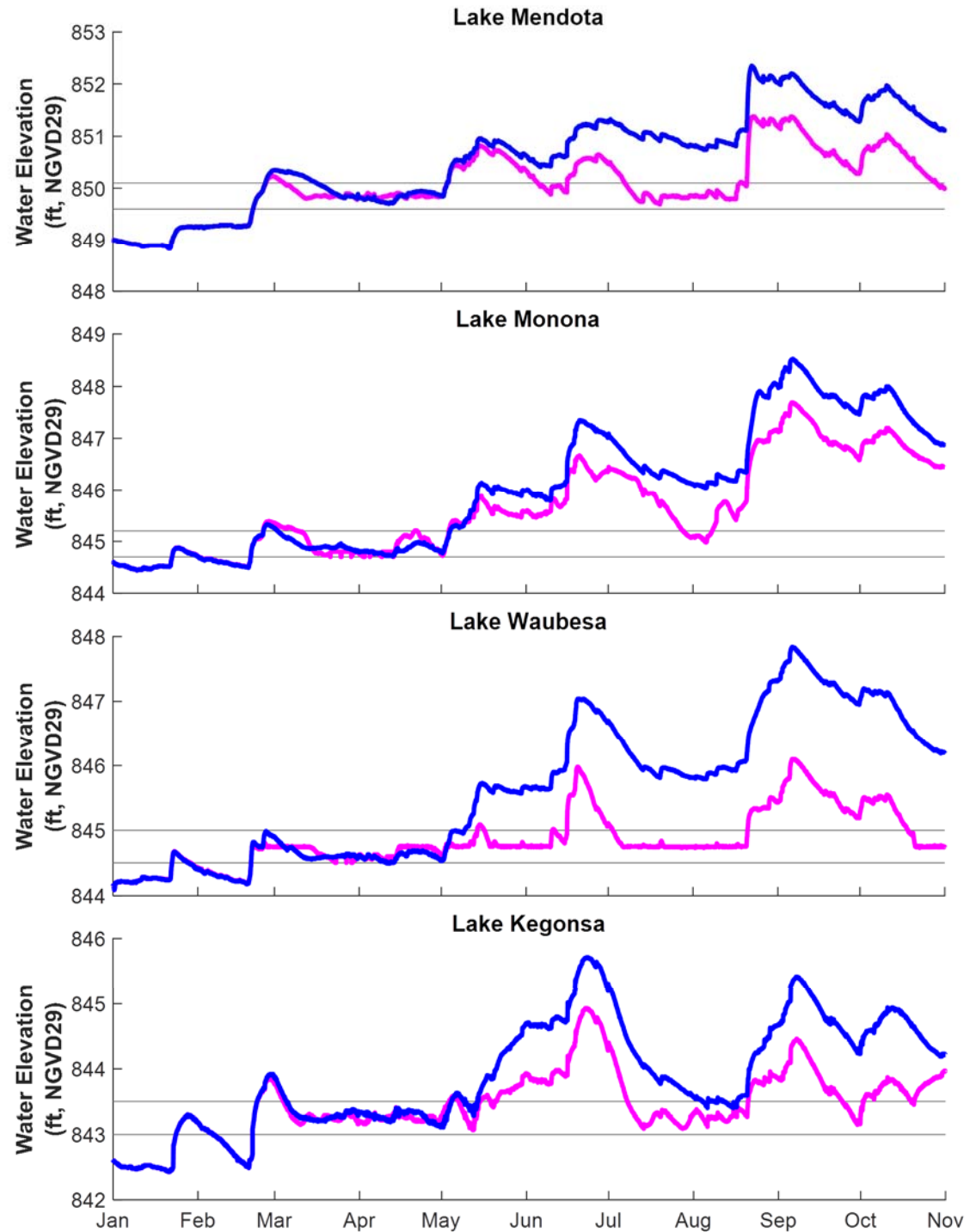


Mitigation – Flow Reroute and Pumping

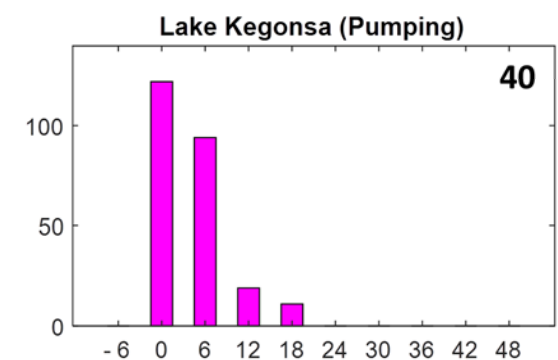
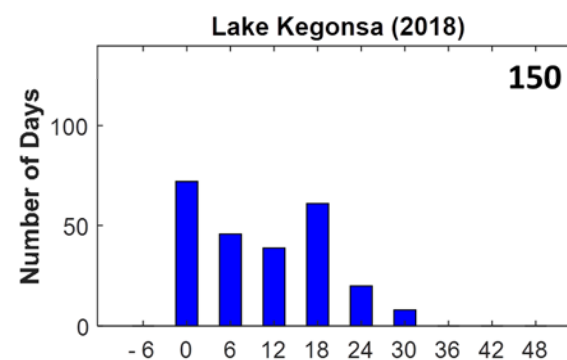
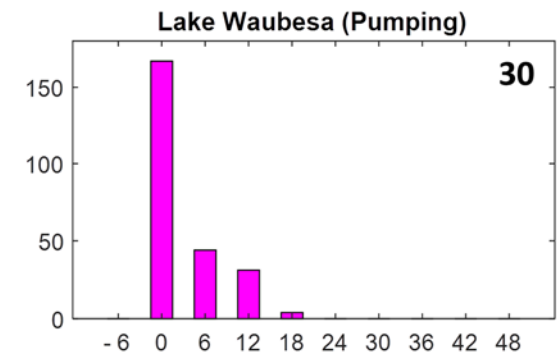
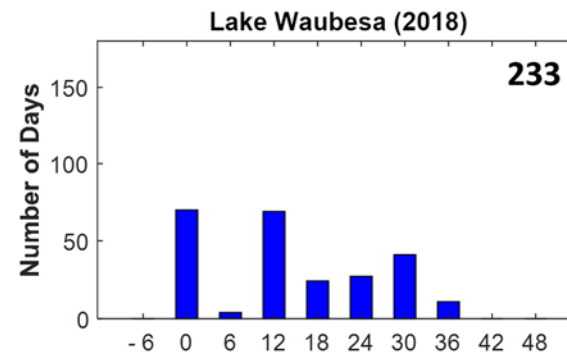
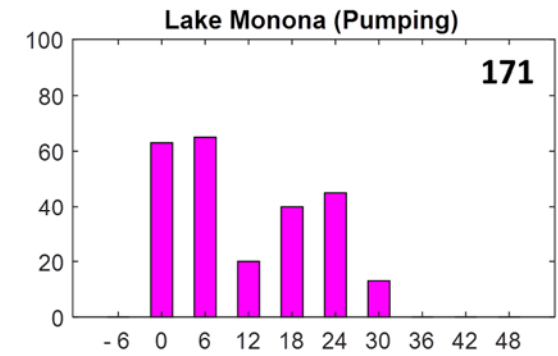
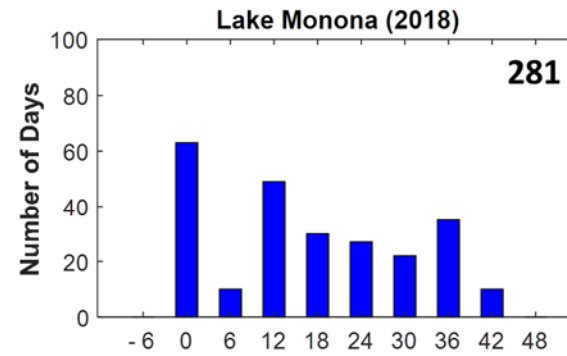
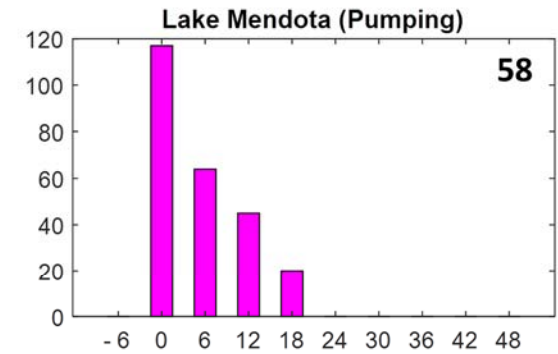
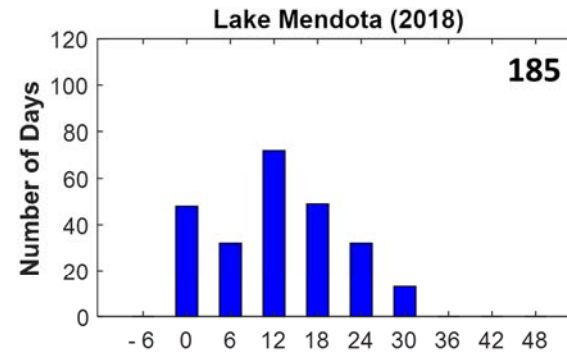
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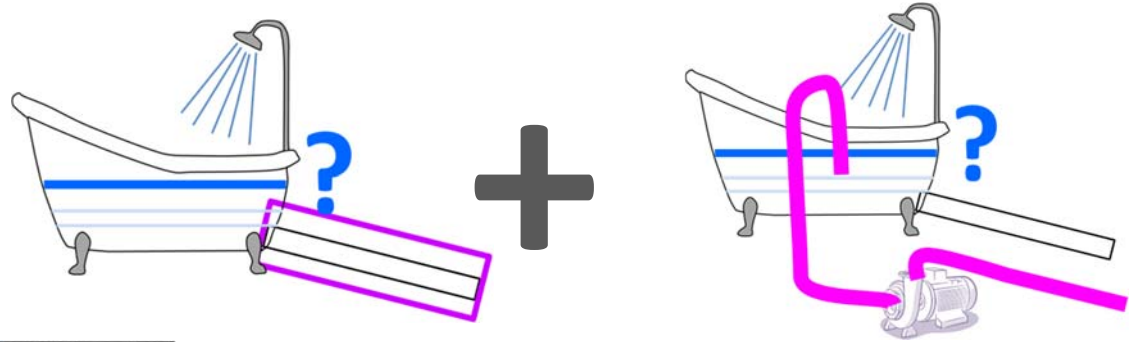
Flow Reroute and Pumping



Flow Reroute and Pumping



Mitigation – Dredging & Flow Reroute



~230,000 Acres



Flow Increase = 95,000 ac-ft

5 inches
of water stored evenly
across the watershed



Yahara Chain of Lakes Watershed:
230,000 acres (minus lakes)

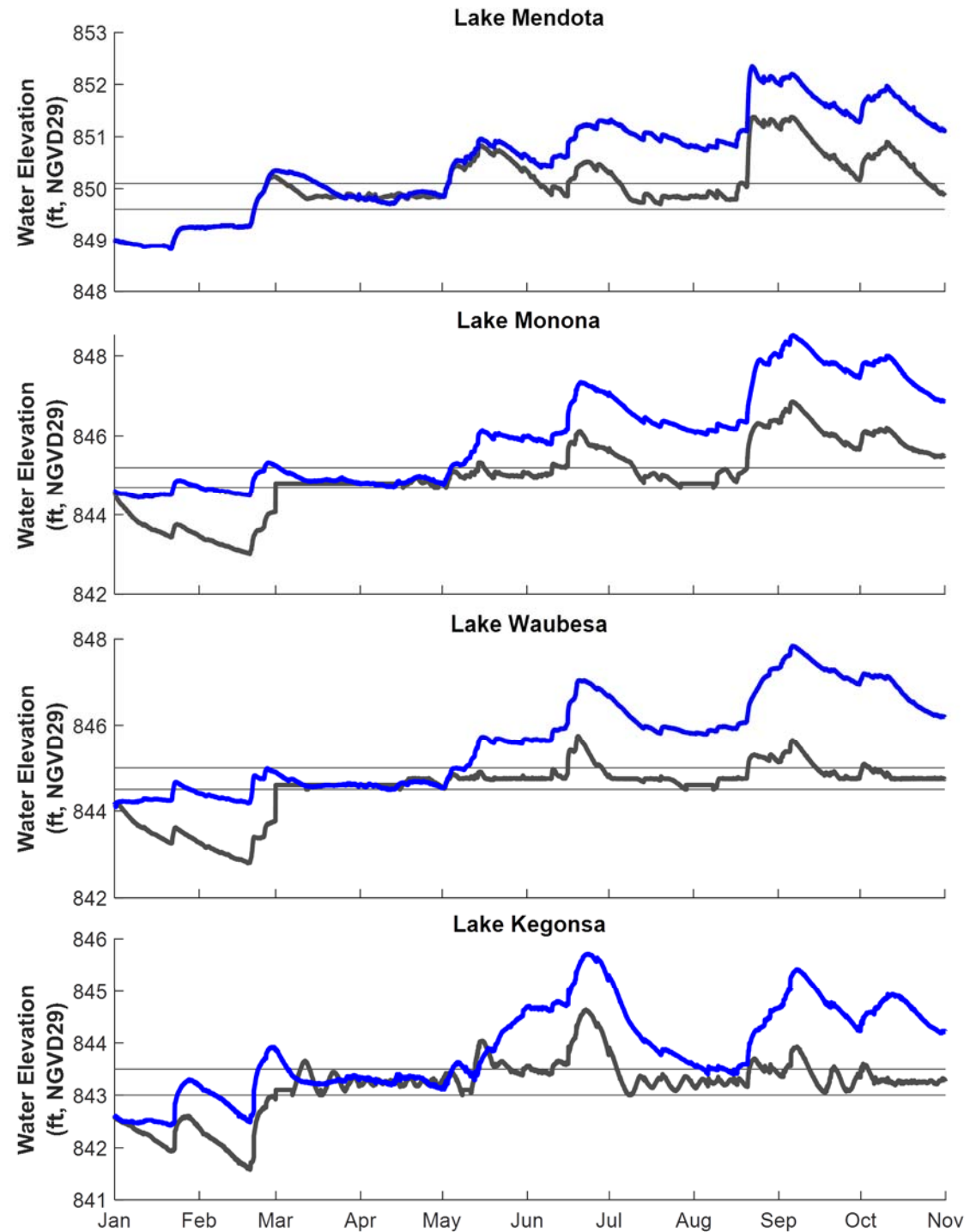
OR

34,000 gallons
of water stored on every 1/4 acre
lot in the watershed

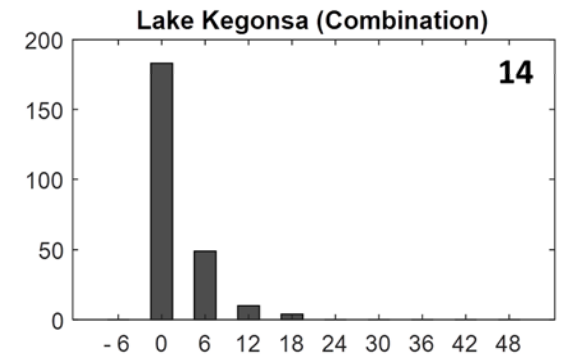
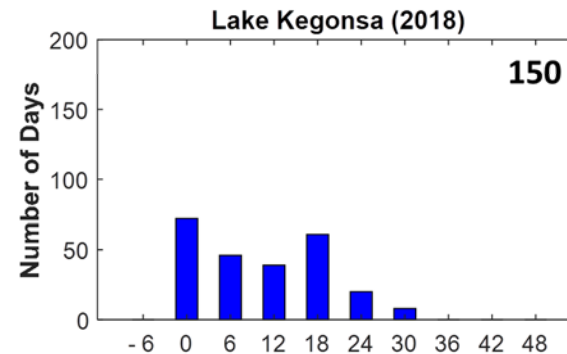
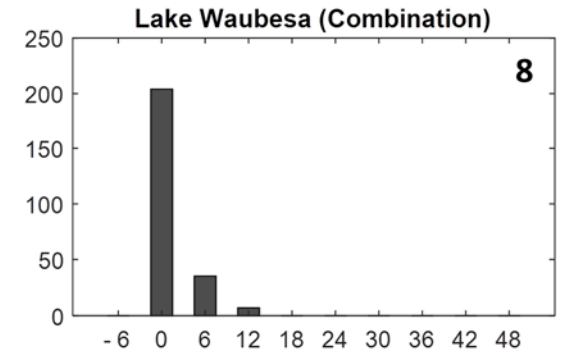
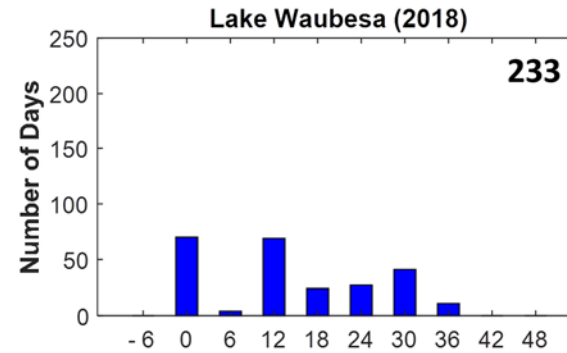
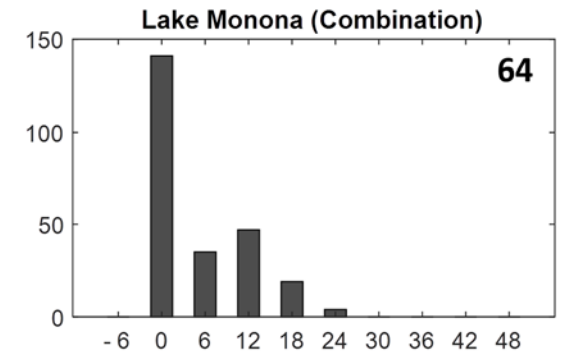
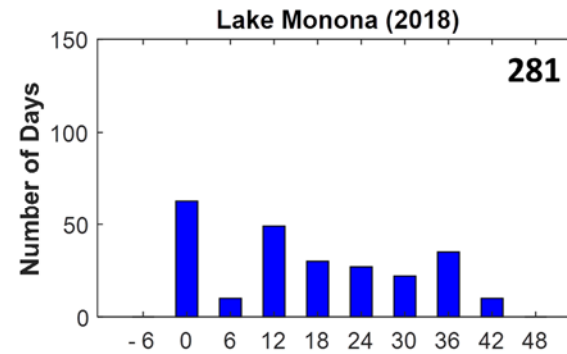
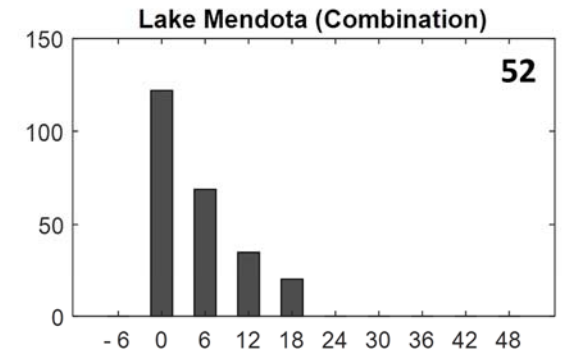
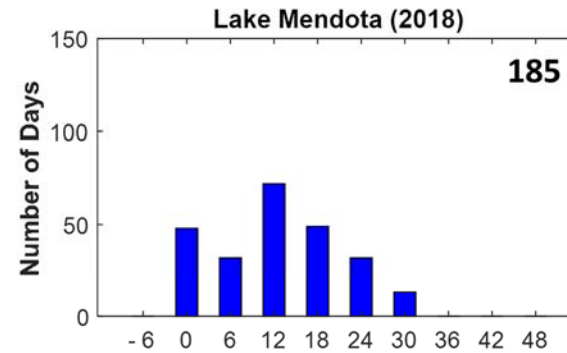


That's a 55 gallon rain
barrel filled 618 times!

Dredging & Flow Reroute



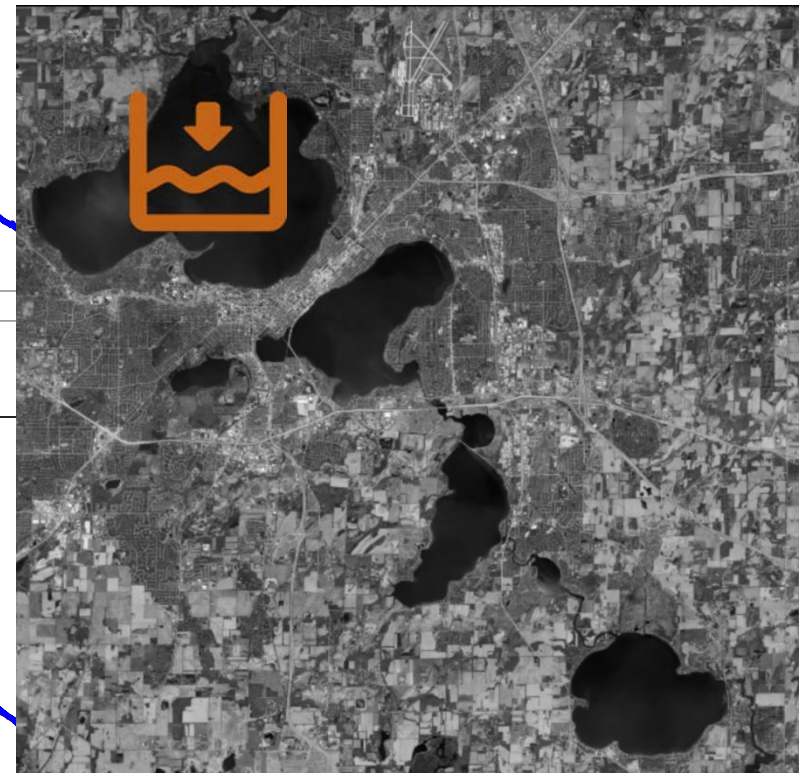
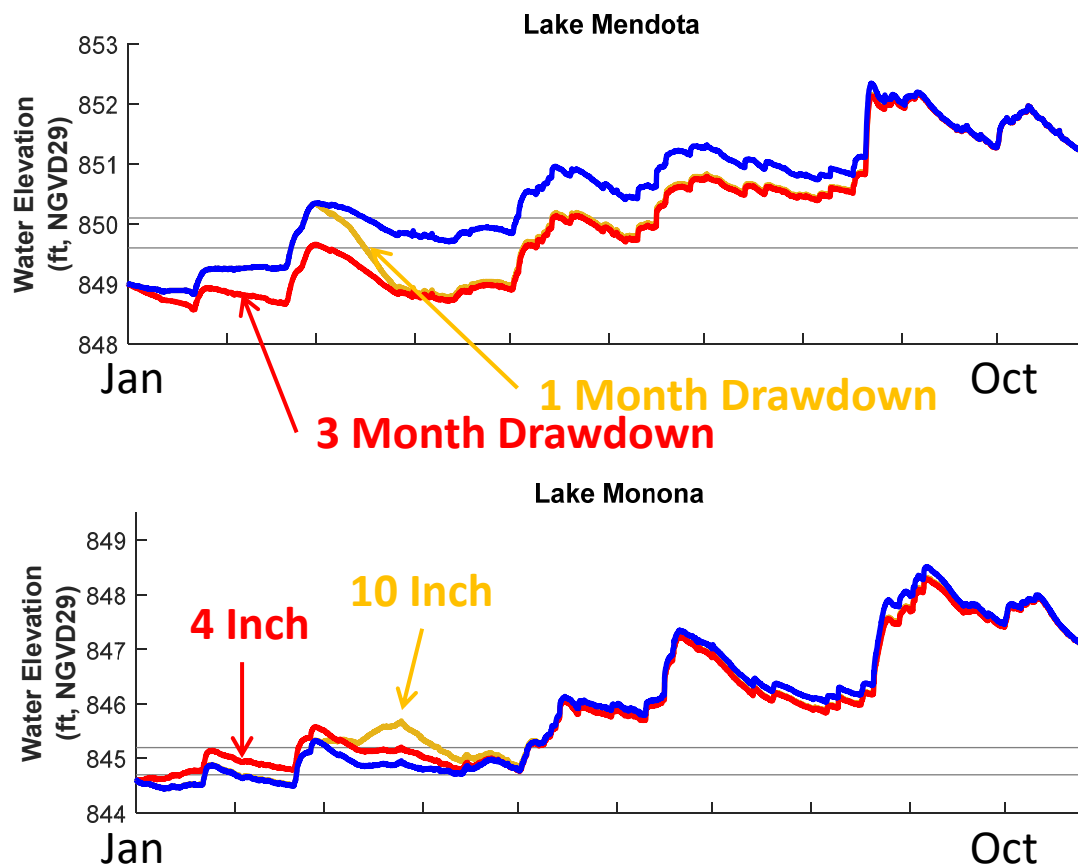
Dredging & Flow Reroute



Summary of Scenarios

Adaptation

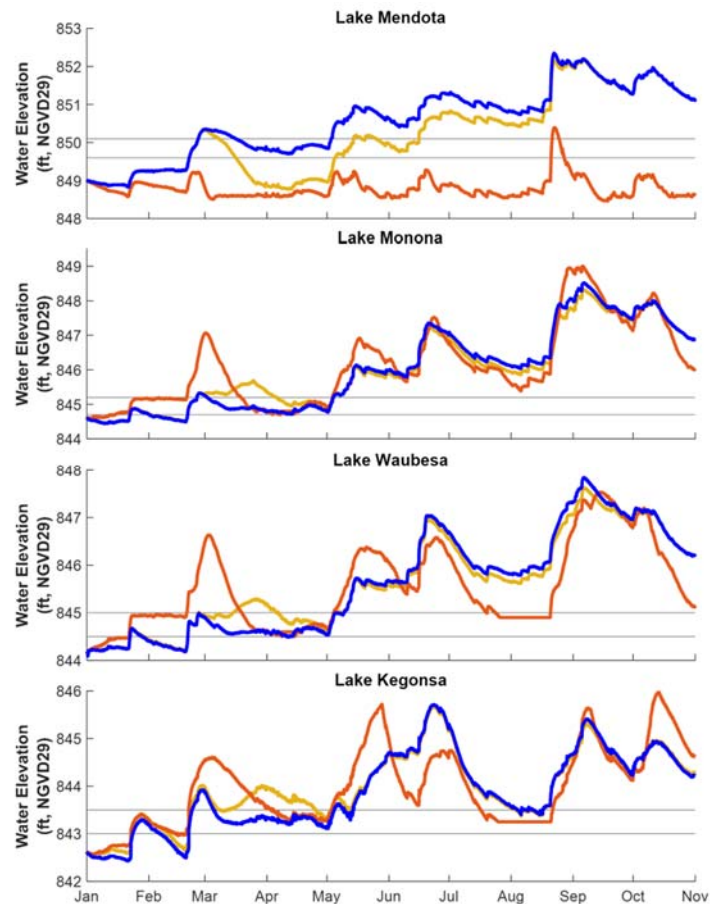
a. Lower Lake Mendota one foot (flood storage or maintain lower)



Summary of Scenarios

Adaptation

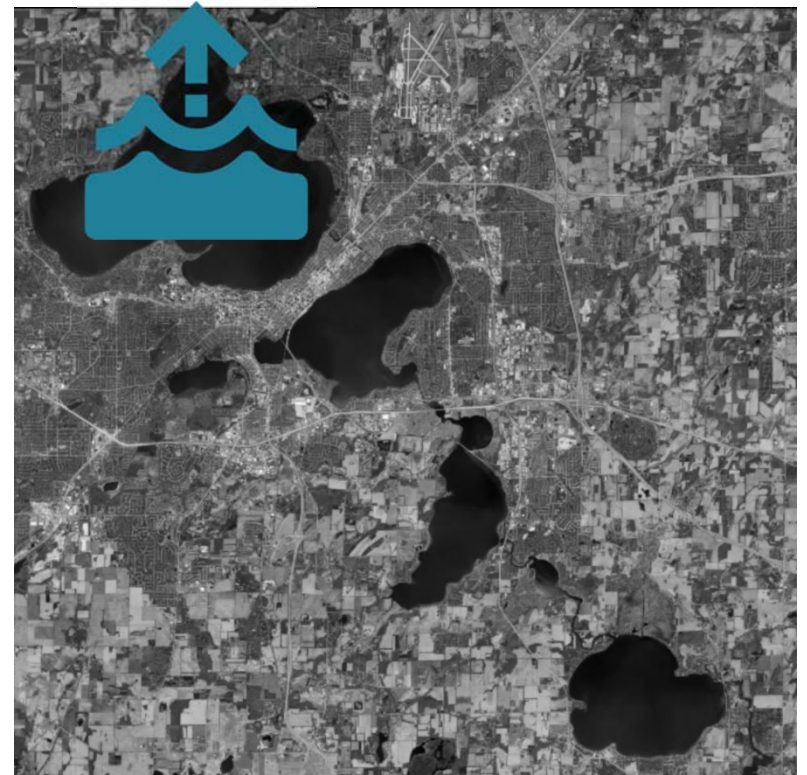
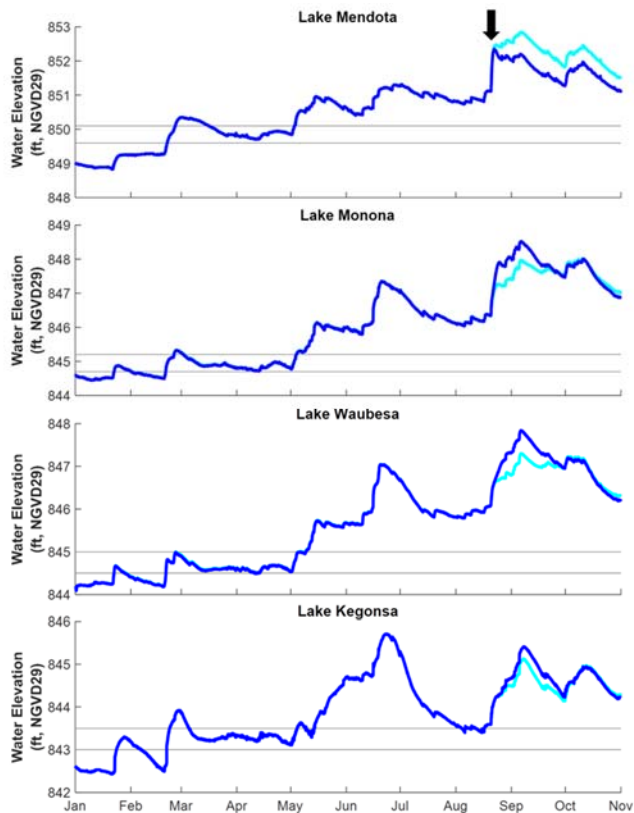
- a. Lower Lake Mendota one foot
(flood storage or maintain lower)



Summary of Scenarios

Adaptation

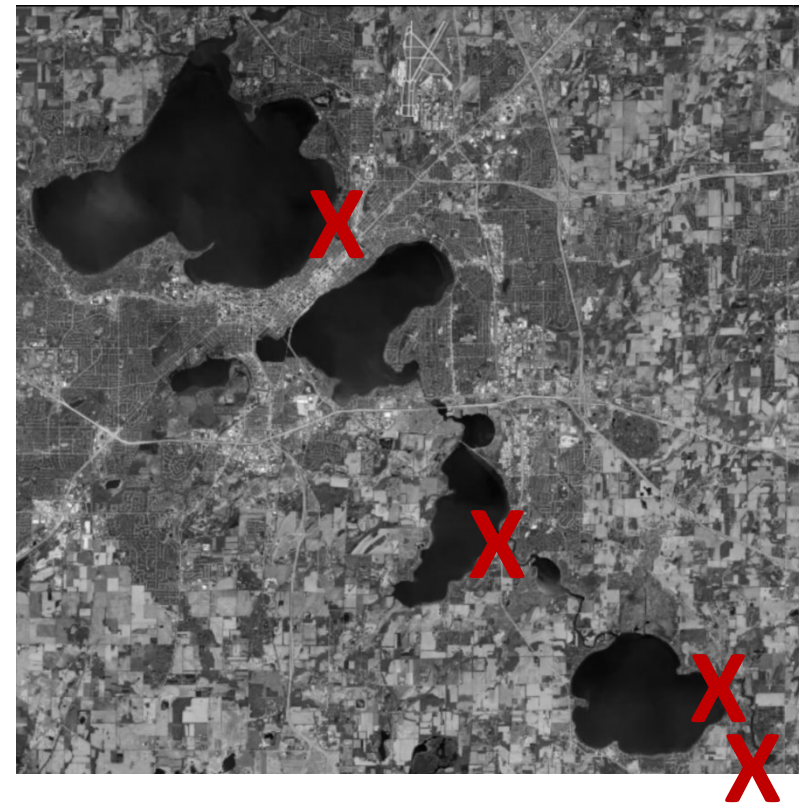
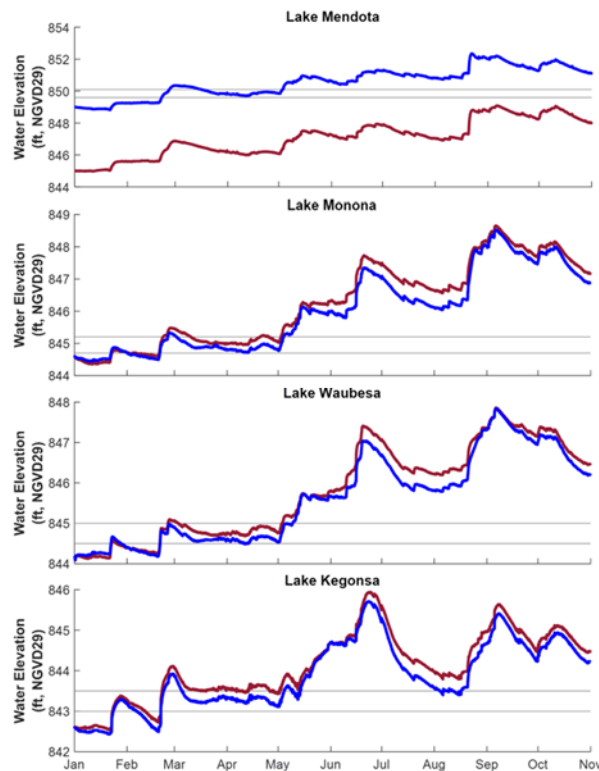
- a. Lower Lake Mendota one foot
(flood storage or maintain lower)
- b. Manage Lake Mendota at
100 year water level



Summary of Scenarios

Adaptation

- a. Lower Lake Mendota one foot
(flood storage or maintain lower)
- b. Manage Lake Mendota at
100 year water level
- c. Remove all dams from the Yahara Lakes



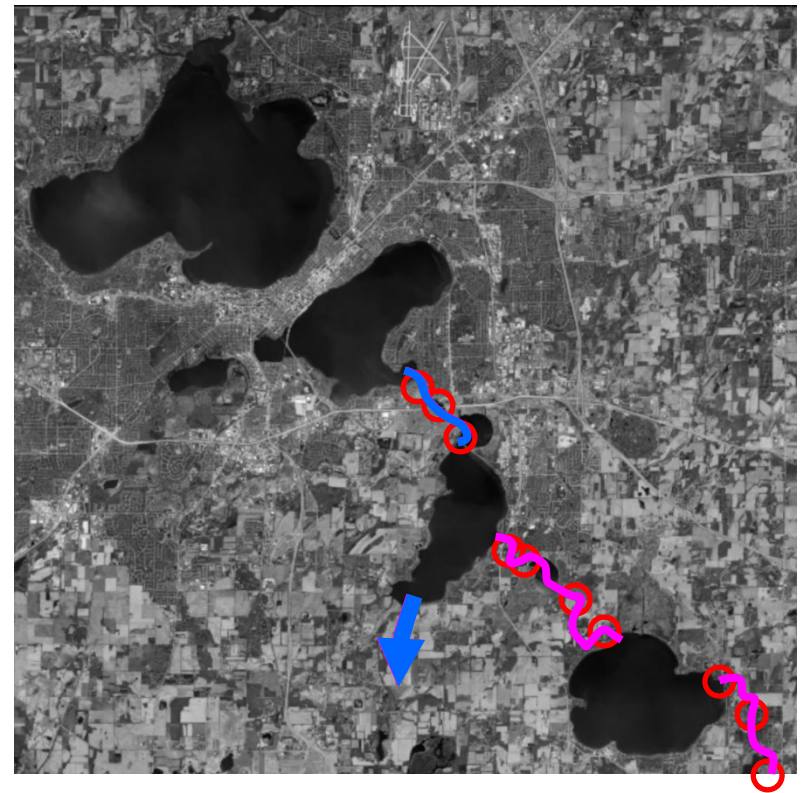
Summary of Scenarios

Adaptation

- a. Lower Lake Mendota one foot
(flood storage or maintain lower)
- b. Manage Lake Mendota at
100 year water level
- c. Remove all dams from the Yahara Lakes

Mitigation

- a. Bridge Modifications
- b. Yahara River Dredging
- c. Flow Reroute and Pumping
- d. Combined (b) and (c)



Summary of Scenarios



	Lake Mendota	Lake Monona	Lake Waubesa	Lake Kegonsa
Adaptation				
(a) Lower Lake Mendota one foot – Flood Storage	-2"	-2"	-2"	-0.5"
Lower Lake Mendota one foot – Maintain Lower	-24"	+6"	-3"	+3"
(b) Manage Lake Mendota at 100 year level	+6"	-6"	-6"	0"
(c) Remove all dams from the Yahara lakes	-39"	+2"	+1"	+3"
Mitigation				
(a) Bridge Modifications	-1.5"	-2"	-2"	-0.25"
(b) Yahara River Dredging	-6"	-12"	-11"	-7"
(c) Flow Reroute and Pumping	-12"	-10"	-21"	-10"
(d) Combined (b) and (c)	-12"	-20"	-25"	-13"