



**Life in Mead Lake
during summer, uses oxygen
faster than it can be replaced**



Why can't the lake keep up with Oxygen demand?



- Summer heat and poor water circulation limit the movement of oxygen from the surface down into deeper water.
- Life in the lake continues using oxygen
- Deep water oxygen becomes depleted
- Low oxygen harms fish habitat and encourages algae blooms

The images that follow, present a vertical, side view of a column of water from 5 different areas, and the amount of Oxygen at each area, over the summer months.

Look for the changes of Oxygen level in the size, shape, and blending of color in different areas which are separated by a series of vertical and curved lines.

Darkest Blues = Good Oxygen – Happy fish and other invertebrates

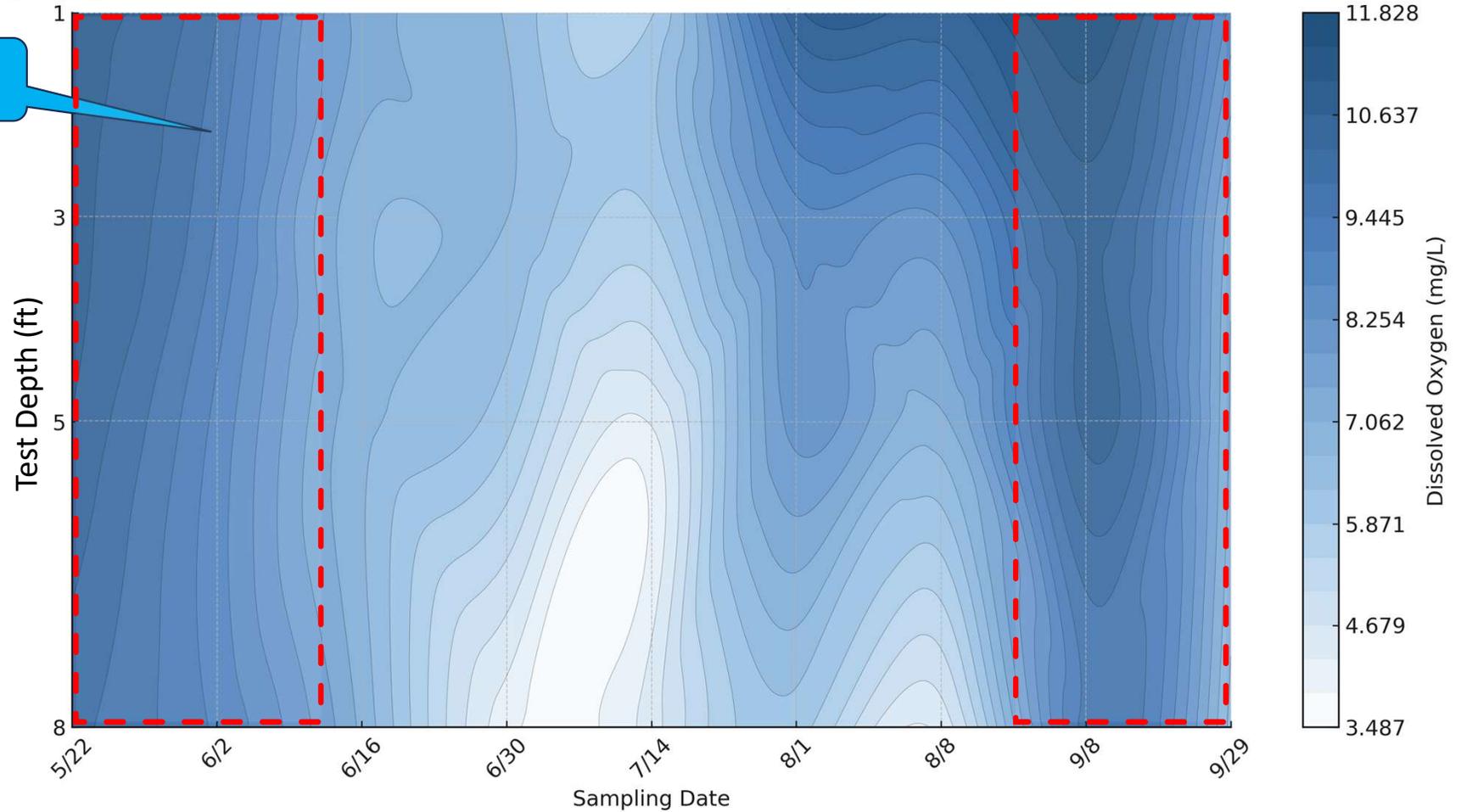
Lighter Blues = Lower Oxygen

White = Low to no Oxygen



East Point

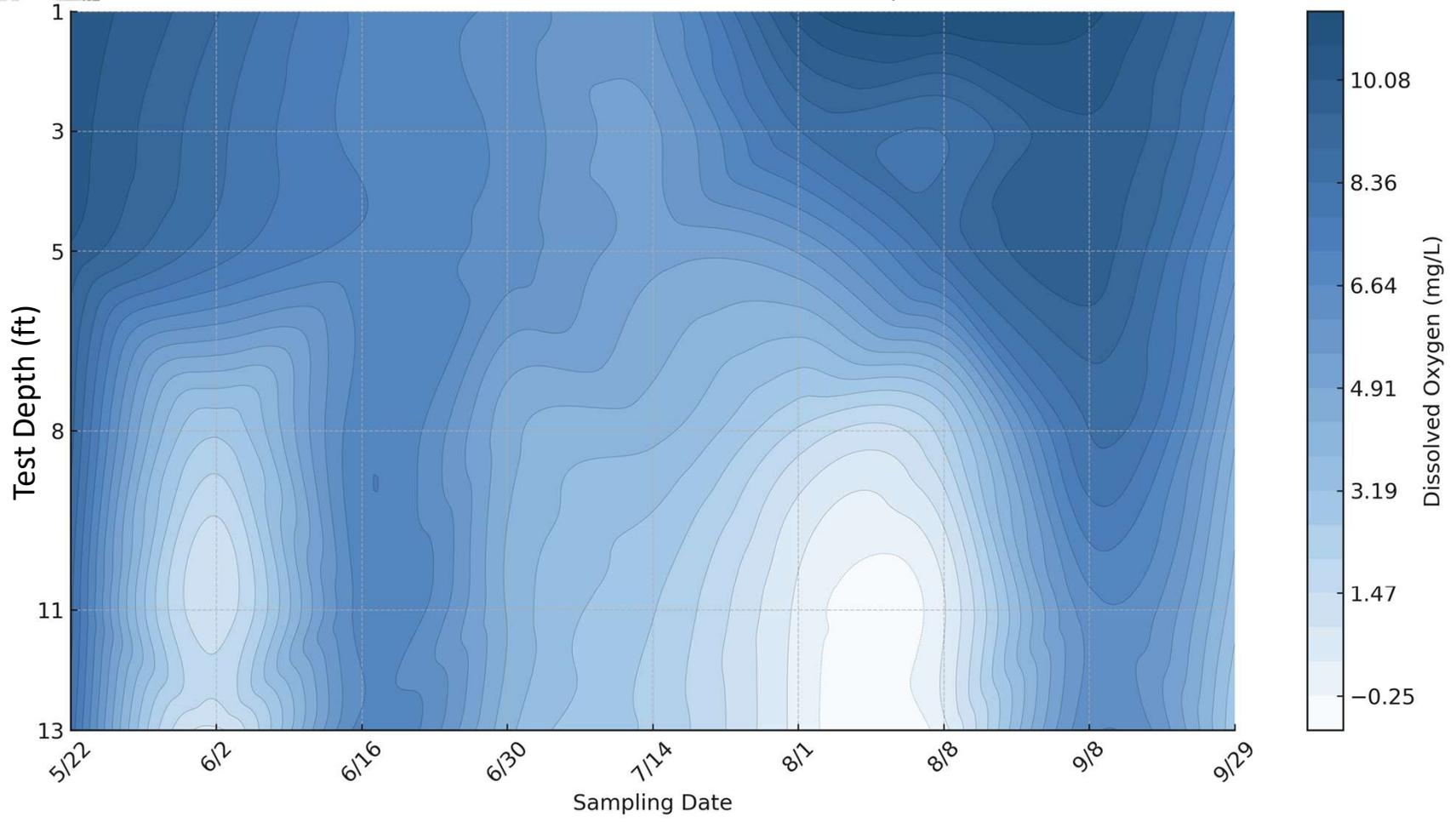
Dissolved Oxygen Profile – Surface to Bottom Mead Lake – East Point (9ft max depth)





Narrows East

Dissolved Oxygen Profile – Surface to Bottom Mead Lake - Narrows East (14ft max depth)



Darkest Blues =
Good Oxygen

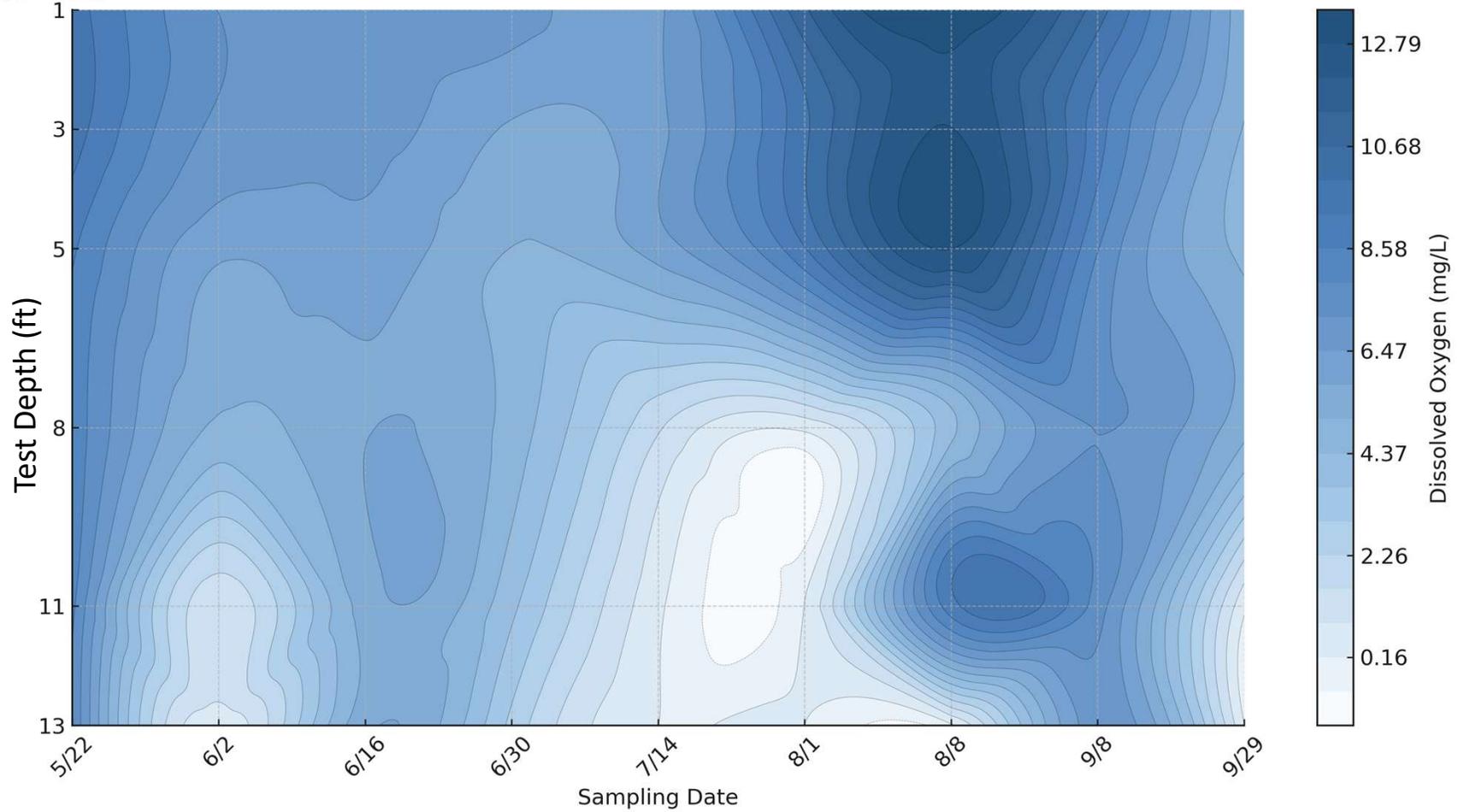
Lighter Blues =
Lower Oxygen

White = Low to
no Oxygen



Deep Hole 2

Dissolved Oxygen Profile – Surface to Bottom Mead Lake – Deep Dam 2 (14ft max depth)



Darkest Blues =
Good Oxygen

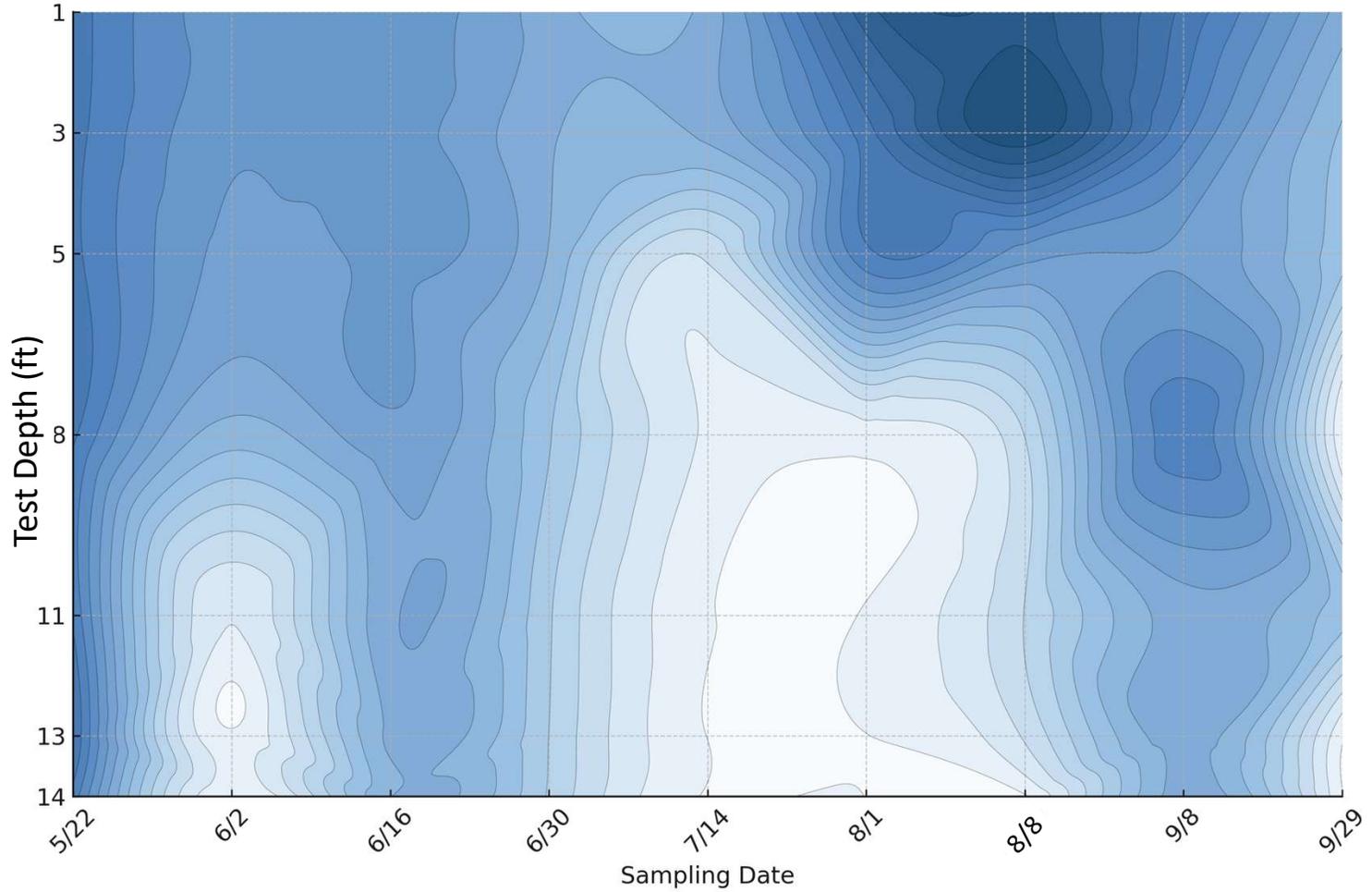
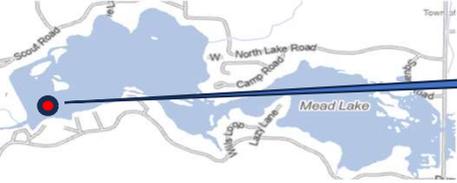
Lighter Blues =
Lower Oxygen

White = Low to
no Oxygen



Deep Hole 1 Dam

Dissolved Oxygen Profile – Surface to Bottom
Mead Lake – Deep Hole Dam (15ft max depth)



Darkest Blues =
Good Oxygen

Lighter Blues =
Lower Oxygen

White = Low to
no Oxygen



Why can't the lake keep up with Oxygen demand?

Summer heat and poor water circulation limit the movement of oxygen from the surface down into deeper water.

What can be done to improve circulation?

Supplement natural circulation with artificial circulation to restore oxygen balance.



Working for solutions to change:

From This  To This

