



Dead Zones - Lesson 3: Activity B

Air Supply: Graphing Dissolved Oxygen

Data sheet

Use your graph to answer these questions

1. How deep is your station?

Depth = _____m

2. What was the maximum and minimum dissolved oxygen level in your water column?

Max = _____ mg/l

Min = _____ mg/l

3. Does your station fall within the hypoxic zone (<2 mg/l)?

Yes

No

4. Does your station have anoxic conditions (0 mg/l)?

Yes

No

5. What is the height (size) of the dead zone at your station in meters?

Subtract the maximum depth from the minimum depth of the hypoxic zone

(Max depth) _____ m – (Min depth) _____ m = _____ m



6. What percent of the water column is hypoxic at your station?

Divide the height the of hypoxic zone by the total depth

(Height of hypoxic zone) _____ m ÷ (total depth) _____ m = _____ m

Multiply your answer by 100

(Answer) _____ x 100 = _____%

7. Describe a property of water in lakes related to dead zones.

8. How can dissolved oxygen levels influence organisms living in a lake?

9. How can human activities affect dead zones?