

D.O. and Temperature Data Sheet

School: _____

Weather: _____

Teacher: _____

Stream Name: _____

Air Temperature: _____

Test Location: _____

Test Kit: LaMotte or Hach or Other _____

Date: _____ Time: _____

Names of Student Monitors: _____

Step #1: Record at least 3 GOOD replicate sample values in the chart below.

Replicate #1	_____ mg/L
Replicate #2	_____ mg/L
Replicate #3	_____ mg/L
Replicate #4 (if needed)	_____ mg/L

Step #2: Record the average of your 3 replicate samples of dissolved oxygen in the box below.

Dissolved Oxygen Test Result	_____ mg/L (record the average)
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Step #3: Record the water temperature in degrees Celsius. (Make sure the thermometer has been in the stream for at least 2 minutes!)

Temperature Test Result	_____ °C
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Step #4: Record dissolved oxygen and temperature test results from previous monitoring data recorded for your site in table below.

Test Results Date: _____	_____ mg/L	_____ °C
Test Results Date: _____	_____ mg/L	_____ °C

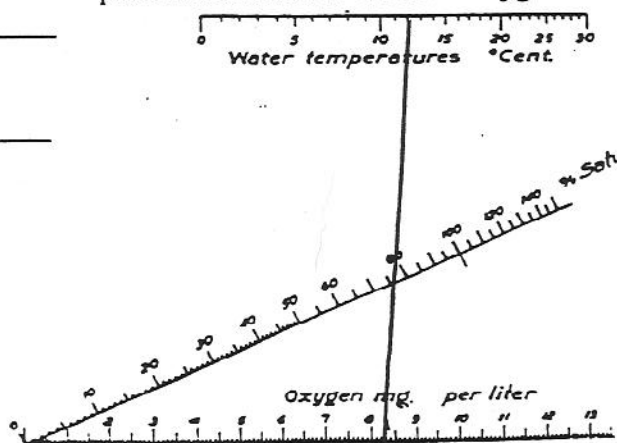
Step #6: Have the recorder sign below once each activity is completed.

Test Completed _____ Date _____

Data Reviewed _____ Date _____

Data Transferred to
Master Data Sheet _____ Date _____

Step #5: Using the chart below, find the percent saturation of dissolved oxygen.



D.O. % Saturation: _____ %

Optimal Dissolved Oxygen Levels: The optimal level of dissolved oxygen in the stream for salmon is 9 mg/L. 7-8 mg/L are acceptable levels.

Optimal Temperature Levels: For a stream to be rated Class A by the State of Washington, temperatures should be no higher than 18°C. Optimal level for hatching salmon=9°C. Optimal level for adult salmon=12°C.