



# THE IZAAK WALTON LEAGUE OF AMERICA

## Creek Freaks | Chemical Monitoring Data Form

Date \_\_\_\_\_ Time \_\_\_\_\_ # of participants \_\_\_\_\_ Program Leader \_\_\_\_\_

Site Name \_\_\_\_\_ GPS Coordinates (decimal degrees): \_\_\_\_\_

### WEATHER CONDITIONS

Check all that apply:

Today:                     Sunny     Overcast     Intermittent Rain     Steady Rain     Heavy Rain     Snow  
 Yesterday:               Sunny     Overcast     Intermittent Rain     Steady Rain     Heavy Rain     Snow  
 Day Before Yesterday:  Sunny     Overcast     Intermittent Rain     Steady Rain     Heavy Rain     Snow

Nitrate-N \_\_\_\_\_ (mg/l)

Phosphate \_\_\_\_\_ (mg/l)

Chloride \_\_\_\_\_ mg/l (Convert Quantab Units to mg/L using the chart provided on the bottle)

Transparency (record whole numbers only - no tenths) \_\_\_\_\_ centimeters

Other Stream Assessment Observations and Notes \_\_\_\_\_

<u>Water Quality Summation</u> for Chemical Tests				
	EXCELLENT	GOOD	FAIR	POOR
Dissolved Oxygen (% Saturation)	80-120	70-80 120-140	50-70 >140	<50
pH (units)	7.0-7.5	6.5-7.0 7.5-8.5	5.5-6.5 8.5-9.0	<5.5 >9.0
Chloride (Cl) <sup>-</sup> (mg/L)	0-20	20-50	50-250	>250
Reactive Phosphate (PO <sub>4</sub> X <sup>3-</sup> ) (mg/L)	0-0.2	0.2-0.5	0.5-2.0	>2.0
Nitrate (NO <sub>3</sub> ) <sup>-</sup> (mg/L)	0-3	3-5	5-10	>10
Transparency (cm)	> 65.0	65.0-35.0	35.0-15.5	< 15.5

Source: Izaak Walton League's Project Watershed CNY/SOS, 1999; Mitchell and Stapp, 1997; <http://watermonitoring.uwex.edu/pdf/level1/datasheets/data-DOTempTrans2010.pdf>

## Chemical Monitoring Data Form (cont.)

### STUDENT-COLLECTED DATA

Water Temperature

\_\_\_\_\_ °C

Dissolved Oxygen

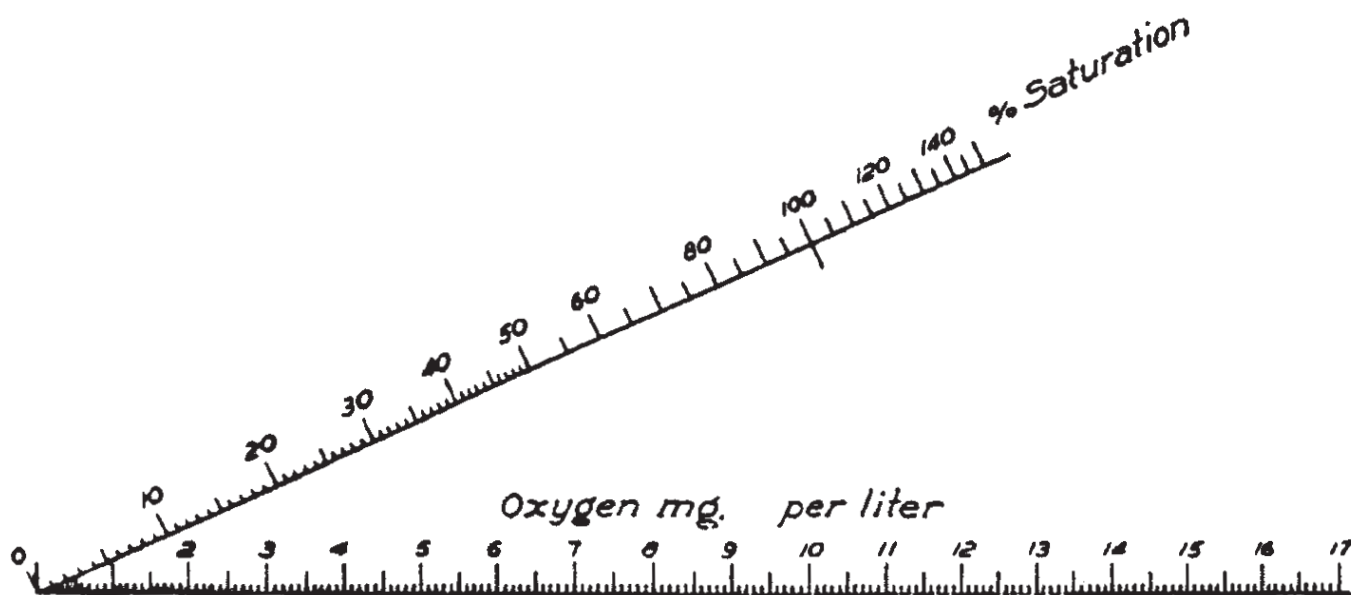
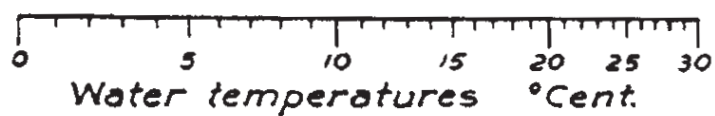
\_\_\_\_\_ mg/L

pH

\_\_\_\_\_ pH units

\_\_\_\_\_ % saturation

### FINDING THE PERCENT SATURATION OF DISSOLVED OXYGEN



To read this chart, use a straight edge. Place the straight edge on the mg/L of oxygen you have determined for your site, then place the other end of the straight edge on the water temperature you have measured. The point where the straight line passes through the line labeled “% Saturation” is your percent saturation.

Diagram reprinted with permission from M.K. Mitchell and W. B. Stapp, *Field Manual for Water Quality Monitoring*