DATA FORM FOR CALCULATING FLOW Solving the equation: Flow = $\frac{ALC}{T}$ Where: A = Average cross-sectional area of the stream. L = Length of the stream reach measured (usually 6.5 meters). C = A coefficient or correction factor (0.8 for rocky-bottom streams or 0.9 for muddy-bottom streams). T = Time, in seconds, for the float to travel the length of L. A: Average Cross-Sectional Area Transect #1 (upstream) Transect #2 (downstream) Interval width Depth Interval width Depth (meters) (meters) (meters) (meters) A to B = ____ (at B) A to B = ____ (at B) B to C = ____ B to C = ____ (at C) (at C) C to D = ____ (at D) C to D = ____ (at D) D to E = ____ D to E = ____ (shoreline) (shoreline) Totals Totals = Avg. depth = Avg. depth Cross-sectional area of Transect #1 Cross-sectional area of Transect #2 = Total width (m) X Avg. depth (m) = Total width (m) X Avg. depth (m) (Cross-sectional area of Transect #1 + Cross-sectional area of Transect #2) ÷ 2 = Average Cross-sectional area $m^2 + m^2 + 2 =$ T: Travel Time L: Length of Stream Reach Travel Time of Float (sec.) Trial #1 Trial #2 Trial #3 C: Coefficient Total = Avg. time sec. m³/sec.