## DATA FORM FOR CALCULATING FLOW

$$
\text { Solving the equation: Flow }=\frac{\mathrm{ALC}}{\mathrm{~T}}
$$

Where:
A = Average cross-sectional area of the stream. L = Length of the stream reach measured (usually 20 ft .).
$C=A$ 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)

Interval width
(feet)
Depth (feet)
$A$ to $B=$ $\qquad$(at B)
$B$ to $C=$ $\qquad$ (at C)
C to $\mathrm{D}=$ $\qquad$
(at D)
D to $\mathrm{E}=$ $\qquad$ (shoreline)

Totals

$\square$ $\div 4$
$=$ Avg. depth
 ft

Cross-sectional area of Transect \#1
$=$ Total width ( ft ) X Avg. depth ( ft )
$\square$ X $\square$ $=$ $\square$ $\mathrm{ft}^{2}$

## Transect \#2 (downstream)

Interval width
(feet)
$A$ to $B=$ $\qquad$
Depth (feet)
$B$ to $C=$ $\qquad$
$\qquad$
$\qquad$ (at B)
$C$ to $D=$
D to $\mathrm{E}=$
$\square$
Totals $\square$

(shoreline)
$\square$ $\div 4$
$=$ Avg. depth $\square$

## Cross-sectional area of Transect \#2

$=$ Total width (ft) X Avg. depth (ft)

$\square$ $=$ $\square$ $\mathrm{ft}^{2}$
(Cross-sectional area of Transect \#1 + Cross-sectional area of Transect \#2) $\div 2$ = Average Cross-sectional area

$$
\mathrm{A}=\left(\square \mathrm{ft}^{2}+\square \mathrm{ft}^{2}\right) \div 2=\square \mathrm{ft}^{2}
$$




