

Hoosier Riverwatch Stream Flow (Discharge) Data Sheet

Date: ____/____/____

Volunteer ID: _____

Site ID: _____

Stream Name: _____

Solving the equation:

Where:

W = Average Width

Z = Average Depth

FLOW (D) = W x Z x V x n

V = Average Velocity

n = Coefficient (0.8 for gravel/rocky bottom streams; 0.9 for muddy or bedrock bottom stream)

D = Flow/Discharge

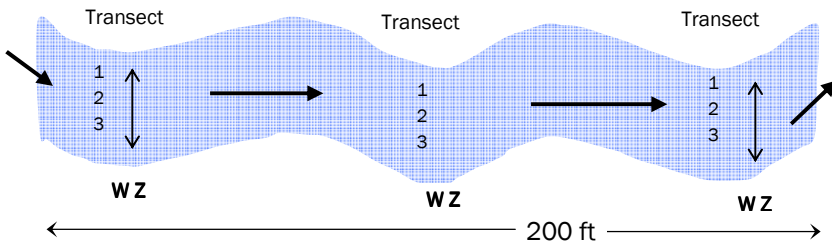
Convert measurements of feet + inches to feet

1 inch = 0.0833 feet

W

River Width

(one measurement at each transect)



Transect

Width (ft)

1

2

3

Average

Z

River Depth

(three measurements along each transect)

Transect

1

2

3

Average of Transects

Transect 1 (ft)

Transect 2 (ft)

Transect 3 (ft)

Average of Averages

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V

Surface Velocity = Length/Time

(allow the object to attain velocity before timing)

Transect

Length (ft)

Time (seconds)

Velocity (ft/sec)

1

2

3

Average

D

Stream Flow or Discharge

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W x **Z** x **V** x **n***

=

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D (cfs)

* Coefficient (0.8 for gravel/rocky bottom streams; 0.9 for muddy or bedrock bottom streams)