

Stream Velocity Data Sheet

Station Name _____

Date of survey ___/___/___

River/Stream _____

Volunteer Group _____

1. Starting point description: _____

2. Ending point description: _____

3. Distance in between _____ feet

4. Seconds for orange to travel: First time _____ seconds

Second time _____ seconds

Third time _____ seconds

Average _____ seconds

5. Distance in between stations

Average number of seconds equals _____ feet/second

Continue to the Stream Discharge Data Sheet

Comments:

Data recorded by _____

Date recorded _____

Stream Velocity & Discharge Data Sheet

Station Name _____

Station Number _____

Date of survey ___/___/___

River _____

Volunteer Group _____

1. Travel distance of floatable object _____ feet
2. Travel time of floatable object:
 - First time _____ seconds
 - Second time _____ seconds
 - Third time _____ seconds
 - Average _____ seconds
3. Velocity (divide travel distance by travel time) **(v)** _____ **feet/sec**
4. Channel width:
 - at beginning of segment _____ feet
 - at middle of segment _____ feet
 - at end of segment _____ feet

Average (w) _____ **feet**

5. Channel depths:

	beginning of segment	middle of segment	End of segment
1/4 across	feet	feet	feet
1/2 across	feet	feet	feet
3/4 across	feet	feet	feet

Average of average depths **(d)** _____ **feet**

6. Stream bottom type (choose one) **(a)**
 - a. (0.8) rough, loose rocks, coarse gravel
 - b. (0.9) smooth, mud, sand, hardpan rock

7. Discharge calculation:

$$r = v * w * d * a$$

r = discharge in cubic feet per second.

v = velocity of stream in feet per second.

w = average width of channel section tested (average of three measurements above).

d = average depth in feet (use average from nine measurements)

a = constant whose value depends on the nature of the stream bottom:

8. Stream Discharge _____ feet³/second

Data recorded by _____

Date recorded _____