STROUD WATER RESEARCH CENTER
www.stroudcenter.org

Stream Discharge Data

Name(s):

Site ID:	**GPS (Lat/Long):**		**Velocity Meter Type:**
Logger ID:	**Date:**	**Staff Gage Height at start (m):**	**Serial Number:**
Stream Name:	**Start Time:** AM / PM	**Staff Gage Height at end (m):**	
Location:	**StopTime:** AM / PM	**Sensor-Reported Water Depth at start (mm):**	**Calibration Date:**
	Time Zone: EST / EDT	**Sensor-Reported Water Depth at end (mm):**	

CROSS SECTION AND VELOCITY

When safely wadeable, take a wetted cross section measurement, recording the distance along the measuring tape (tagline) and the water depth across the stream. The tagline should be strung between the bank pins. If a velocity meter is available, record the water velocity at each interval. Make note of the RPIN/LPIN (right/left bank pin) and REW/LEW (right/left edge of water). Right and left are determined when facing downstream. If wadeable, whether using a flow meter or neutrally buoyant object, always record Points to Note, Distance Along Tagline, and Water Depth. If not wadeable, use Predicted Wetted Cross Sectional Area estimate (from StagetoAreaPredictor spreadsheet) and measure/record velocity data in Neutrally Buoyant Object section (right) or Unwadeable Flow Meter Velocity section (back).

Point	Points to Note (LPIN/RPIN LEW/REW)	Distance Along Tagline (m)	Water Depth (m)	Velocity (m/s) (Using Flow Meter)	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

NEUTRALLY BUOYANT OBJECT

Float object through main path of the stream. The measured transect should be halfway between the start and stop point. The total distance should be enough to ensure a travel time of >5 seconds.

TOTAL Travel Distance (m):

Start-to-Transect Distance (m):

Transect-to-End Distance (m):

Float #	Travel Time (seconds)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

CROSS SECTION AND VELOCITY

Point	Points to Note LPIN/RPIN LEW/REW	Distance Along Tag-line (m)	Water Depth (m)	Velocity (m/s) (Using Fow Meter)	Comments
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

UNWADEABLE FLOW METER VELOCITY

Take 1-10 flow meter velocity measurements near the cross section that appear to be representative of the velocity of the main flow of the stream. These velocity measurements should taken wherever is accessible considering unwadeable conditions.

Measurement #	Flow meter velocity (m/s)	Location in stream channel
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Notes: