STREAM DISCHARGE DATA SHEET

Complete this data sheet and keep for your records. Data can be submitted online at mostreamteam.org. Site # Stream County County Site Location								
Date/ Time (military time) R Frained Data Submitter (responsible volunteer) Participants						_ Rainfall (inches in last 7 days) Water Temp. (°C) Stream Team Number		
If discharge is unmeasurable due to conditions, please indicate: Flow too low to measure Flow too high to measure								
For reporting USGS gage value (special cases only): USGS gage #atatcfs								
Instructions for Calculation of Stream Discharge (Flow)								
large boulders, with a noticeable current, and with a depth as uniform as possible. Stretch the tape measure sure provided by the program across the stream. The "0" point should be anchored at the flowing edge of the stream. The end of the tape measure should be anchored at the opposite end so that it is taut and even with the other flowing edge. Do not measure nonflowing water. Stream Width (Feet)								
Step 1b: Determine stream cross-sectional area. The first step in determining cross-sectional area is to measure and calcu- late the average stream depth. In the table below, for streams less than 20 feet wide, record depth measurements at every foot. For streams greater than 20 feet wide, record depth measurements every two feet. The depth must be measured in tenths of a foot (e.g. 1.7 feet equals one foot and seven tenths). DO NOT MEASURE DEPTH IN INCHES.								
Interval	Depth in	Interval	1-FOOT Depth in	Interval	S Depth in	depth measurements by the number of intervals at which mea- surments were taken.		
1		11		21	1000			
2		12		22				
3		13		23		Sum of Depths Number of Average Depth (feet) Intervals (feet)		
4		14		24				
5		15		25		The final step in calculating the cross-sectional area is multiply		
6		16		26		the average depth (in feet) by the stream width (in feet) at the		
7		17		27		point where the tape measure is stretched across the stream.		
8		18		28				
9		19		29				
10		20		30		Average Depths Stream Width Cross Sectional		
Sum		Sum		Sum		(Teet) (Teet) Area (Teet) ²		

Step 2: Determine the average velocity for the stream. A minimum of four velocity measurements should be taken from equal intervals across the stream's width. For example, if the stream is eight feet wide, then velocity measurements should be taken at approximately every foot and a half across the stream in order to derive four measurements. For a stream width of 16 feet, velocity measurements should be taken at approximately three feet increments across the stream to derive four measurements. This method of measuring the stream velocity will ensure that velocity measurements are recorded for the slow and fast portions of the stream. For greater accuracy, more than four measurements are recommended for wider streams.

To measure the water's surface velocity, the first step is to select two points located equal distance upstream and downstream from the tape measure you have stretched across the stream. Determine the distance between these two points and record this value (in feet) in the **Distance Box** on the back of this page. A 10-foot total float distance is a recommended starting point. This distance can be lenghtened or shortened depending on stream swiftness. Count the number of seconds it takes a neutrally buoyant object (such as a wiffle practice golf ball) to float this distance. Record this time (in seconds) in the table on the back of this page for each float trial you complete.

