



## Stream flow data record

Site #	Stream width (w)	Stream depth (d) (average of 5 locations across stream)						*Stream velocity (v)	**Streambed roughness (a)
		1	2	3	4	5	Avg.		
Site 1									
Site 2									
Site 3									
Average									

\*Use a floating ball to measure a distance along the stream. Time the ball's travel over the distance.

$$\text{Velocity} = \frac{\text{Distance (feet)}}{\text{Time (seconds)}}$$

\*\*Streambed roughness—rubble, gravel, or plant: a = 0.8; smooth mud, silt, or bedrock: a = 0.9

To calculate stream flow rate (r), use the information on the above data chart. Use the **average** value of each measurement at the three sites in the formula:  $r = w \times d \times v \times a$

$$\text{Stream flow} = \frac{r}{\text{r}} = \frac{w}{w} \times \frac{d}{d} \times \frac{v}{v} \times \frac{a}{a} = \text{ft}^3/\text{sec}$$

## Temperature data record

	Air temperature			Water temperature		
	°C	°F	Time	°C	°F	Time
Site 1						
Site 2						
Site 3						

Note:

$$\frac{9 \times (^\circ\text{C} + 32)}{5} = ^\circ\text{F}$$

$$\frac{5 \times (^\circ\text{F} - 32)}{9} = ^\circ\text{C}$$

## pH data record

	Sample 1	Sample 2	Sample 3	Average
Site 1				
Site 2				
Site 3				

## Dissolved oxygen (DO) data record

	Sample 1	Sample 2	Sample 3	Average	Time
Site 1					
Site 2					
Site 3					

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