Stream Name			Location(County, Road, Site # if known, Township, Range, Section)			WATER ACTION VOLUNTEERS
1. SITE LOCATION  Length Assessed:				ft.	3. VELOCITY MEASUREMENT	
2. STREAM WIDTH & DEPTH					Float Trials Time (seconds)  1 2	
Width: foot ac		foot across the wic	tream $\leq$ 20 ft. wide, measure depth every of across the width. If stream is $>$ 20 ft. wide, easure depth at 20 equal intervals across the tire width.		3 # of trials	
Interval	Depth (10 <sup>th</sup> ft.)		Interval	Depth (10 <sup>th</sup> ft.)	sum of trials: sec. ÷ =	sec.
1	0		11		V	Average Float Time
2			12			
3			13		$\div$ $=$ $\frac{\text{ft./sec.}}{}$	
4			14		length assessed average float time Average Surface \	elocity elocity
5			15			
6			16		4. CALCULATING STREAM FLOW	
7			17			-
8			18		Correction value for rough, loose, coarse, weedy bottom: Correction value for smooth bottom:	0.8 0.9
9			19			
10 sum	ft.	Add ← together →	20 sum	ft.	correction value	face Velocity
				ft.		FINAL CORRECTED STREAM FLOW:
ft.	÷ # of intervals	= Average I	ft. Depth	Total Sum of Depths	cross-sectional area corrected surface velocity × 0.76 =	ft. <sup>3</sup> /sec. (round to the nearest tenth)
	average de	ft. × stream	ft.	= ft. <sup>2</sup> Cross-Sectional Area	Measuring stream flow w method overestimates flo <b>multiply our stream flo</b> stream flow discharge.	with the surface float test ow by 24%. This is why we must www by 0.76 for a final corrected

\_\_\_Time\_

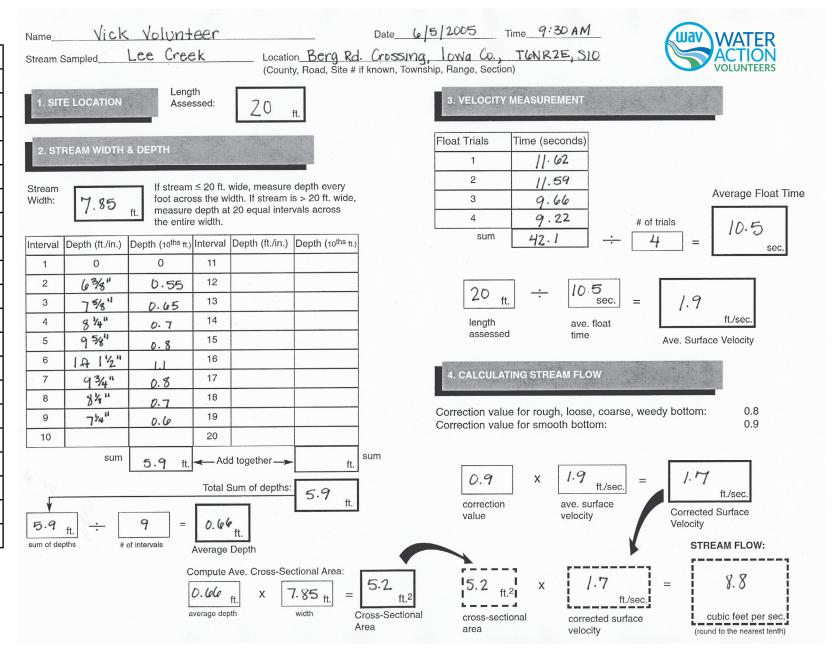
Date\_\_

Name\_

## **Sample Stream Flow Worksheet**

## **Depth Conversion Chart**

Inches	Tenths of ft.		
3/8 - 7/8	0.05		
1/11/2	0.1		
15/8-2	0.15		
2 <sup>1/8</sup> - 2 <sup>5/8</sup>	0.2		
23/4-31/4	0.25		
3 <sup>3/8</sup> -3 <sup>7/8</sup>	0.3		
<b>4-4</b> <sup>3/8</sup>	0.35		
4 <sup>1/2</sup> -5	0.4		
5 <sup>1/8</sup> -5 <sup>5/8</sup>	0.45		
5 <sup>3/4</sup> -6 <sup>1/4</sup>	0.5		
6 <sup>3/8</sup> -6 <sup>7/8</sup>	0.55		
7-7 <sup>3/8</sup>	0.6		
7 <sup>1/2</sup> -8	0.65		
8 <sup>1/8</sup> -8 <sup>5/8</sup>	0.7		
8 <sup>3/4</sup> -9 <sup>1/4</sup>	0.75		
9 <sup>3/8</sup> -9 <sup>7/8</sup>	0.8		
10/103/8	0.85		
101/2-11	0.9		
1111/8-115/8	0.95		
113/4-12	1.0		



For more information, contact WAV staff at <a href="wav@extension.wisc.edu">wav@extension.wisc.edu</a> Learn more at <a href="www.wateractionvolunteers.org">www.wateractionvolunteers.org</a>