

# Maine Stream Explorers

## Basic Field Data Sheet


















**A treasure hunt for healthy streams in Maine.** Your objective is to find aquatic insects and other macroinvertebrates. The "Sensitive" macroinvertebrates prefer streams with good habitat and cold, clean water. The "Moderately Sensitive" bugs are a little more tolerant of pollution and habitat alteration. The "Tolerant" ones are least sensitive to pollution but they are not bad; they are just tough. Thank you and have fun!

Stream Name:		Town:		Collection Date:	
Latitude:		Longitude:		Photos:    upstream                      downstream	
Description of Sample Location:					
Names of Collectors:					
Total time at the stream:			Time spent sorting and identifying macroinvertebrates:		
Number of samples collected:		Rocks	Tree roots and undercut banks	Logs and branches	Plants

**Abundance Categories:** 1-5 = Few (F), 6-25 = Common (C), more than 25 = Abundant (A)

**PICTURES ARE NOT TO SCALE**

Sensitive to pollution	<b>Mayflies</b> Look for 6 legs, 3 thin tails (sometimes 2), and gills on the abdomen. Some have protective plates over gills.		
Abundance:			
Sensitive to pollution	<b>Stoneflies</b> Look for 6 legs, 2 thin tails, and no gills on the abdomen. Some may have fuzzy gills in their "arm pits."		
Abundance:			
Sensitive to pollution	<b>Casemaking Caddisflies</b> They have a grub-like body with 6 legs. Usually a creamy color.	<b>Freeliving Caddisfly</b>	<b>Water Snipe Fly</b>
		<p>sometimes green</p>	
Abundance:		Abundance:	Abundance:

Moderately Sensitive to pollution	<b>Netmaking Caddisflies</b> Soft body with 6 legs. White, yellow, or green 			<b>Dragonflies</b> 6 legs and no visible gills 	
	Abundance:			Abundance:	
Moderately Sensitive to pollution	<b>Damselflies</b> 6 legs and 3 paddle-shaped gills 		<b>Dobsonfly &amp; Alderfly</b> 		<b>Beetles</b> 
	Abundance:		Abundance:		Abundance:
Moderately Sensitive to pollution	<b>Water Penny</b> 	<b>Limpet</b> 	<b>Crane fly</b> 	<b>Blackfly</b> 	<b>Midge (white, grey)</b> 
	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:
Tolerant of pollution	<b>Amphipod</b> 	<b>Isopod</b> 	<b>Leech</b> 	<b>Aquatic Worm</b> 	<b>Midge (red, orange)</b> 
	Abundance:	Abundance:	Abundance:	Abundance:	Abundance:
Sensitive (# of kinds)		Moderately Sensitive (# of kinds)		Tolerant (# of kinds)	

Please return this form to Phillip Keefe at Maine Audubon, Gisland Farm

Please e-mail pictures of sites and macroinvertebrates to Phillip Keefe at [pkeefe@maineaudubon.org](mailto:pkeefe@maineaudubon.org)

If you questions about the macroinvertebrate keys, contact Tom Danielson at [thomas.j.danielson@maine.gov](mailto:thomas.j.danielson@maine.gov)

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Comments: