

Adopt-a-Stream



River Round October 2013 Data and Trends

All insects: This metric includes all of the insect families in the sample, and serves as a general indicator of the stream health.

EPT: Standing for Ephemeroptera-Plecoptera-Trichoptera, this metric includes all of the mayfly, stonefly, and caddisfly families in the sample. These insects are sensitive to water temperature and oxygen availability. Stagnant or warm streams will not have many of these families.



Sensitive: There are a small handful of insect families in the Huron River watershed that are particularly sensitive to organic pollution. In other words, this metric is calculated from insects that are not likely to be found in streams polluted with fertilizers or animal and human waste.

	Site #	Current Site Condition	October 2013 Samples			Averages since 2010				
Site Location			All Insects	EPT	Sensitive	All Insects	EPT	Sensitive	Comments	Trend
Fleming Creek: Botanical Gardens	9	Fair	No sample this season			13.5	4.8	' 10	No significant changes over time (1993- 2013)	-
Fleming Creek: Galpin Road	84	Fair	18	5	2	13.3	4.7	1.0	We have detected a significant decrease of spring sensitive families here since 2004, but fall families have remained steady.	↓
Fleming Creek: Geddes Road	11	Fair	6	2	0	10.3	3.5	0.6	Slight, but significant increase in sensitive species over time in fall samples (although no sensitive species were found in this fall's sample). This was shown by establishment of a sensitive species (Athericidae, a watersnipe fly), in 2009. (1992-2013)	1
Fleming Creek: Warren Road	13	Good	12	6	3	14.3	7.0	3.5	This site remains one of the best that we visit, and since 1994 has improved significantly in fall collections. Spring collections show improvement as well, though not quite statistically significant.	↑
Fleming Creek: Radrick Farms	12	Fair	No sample this season			10.7	5.0	1.0	No significant changes over time (1994-2013)	-

記録サ Capniidae: slender winter stonefly Perlodidae: Nemouridae: broadback

Perlidae: Common stonefly

stonefly

Winter Stoneflies

SITE LOCATION	SITE	2013 SAMPLES					ALL YEARS				
	#	Capniidae Nemouridae Perlidae Perlodidae		Abundance Rating	Total # Families	First sampled	# Times sampled	Avg. Family Count		Max Family Count	
					• -	1					
Fleming Creek: Botanical Gardens	9	Like all of the Fleming Creek sites, Capnids ar is the only site of the 5 on Fleming Creek at w			Ilso this	1995	12	1.6	1	2	
Fleming Creek: Galpin Rd		Like all of the Fleming Creek sites, Capnids an	-	/ found here. F	Perlodids						
	84	were also found here for the first time in 2013.				2005	7	1.1	1	2	
		x x		Frequent	2						
Fleming Creek: Geddes Road	11	Like all of the Fleming Creek sites, Capnids ar Perlodids are often found, though not this year		/ found here, a	ind	1995	14	1.1	1	2	
		х		Abundant	1						
Fleming Creek: Radrick Farms	12	Like all of the Fleming Creek sites, Capnids ar	e consistently	/ found here.		1997	9	1.1	1	2	
Fleming Creek: Warren Road	13	Like all of the Fleming Creek sites, Capnids ar	e consistently	/ found here.		1000					
		x		Rare	1	1996	14	1.0	1	1	
				0.1							

Patterned stonefly

Taeniopterygidae: broadback winter

stonefly