

non-impacted
slightly impacted
moderately impacted
severely impacted



THE COMMUNITY SCIENCE INSTITUTE

Bio-monitoring RESULTS 2021

Cayuga Lake Watershed

Seneca Lake Watershed

Owasco Lake Watershed

	Total Family Richness	EPT Richness	Family Biotic Index	Percent Model Affinity	Density Orgs/sample	BAP Value Biological Assessment Profile
Enfield Creek 8/12/21 42.402741N, 76.588935W Upper R.H.Treman State Park	12.0 slight impact	9.0 no impact	5.16 slight impact	72% slight impact	1700	7.5 slight impact
Enfield Creek 8/31/21 42.398095N, 76.546700W just upstrm of rte 13 bridge	12.0 slight impact	7.0 slight impact	5.02 slight impact	57% slight impact	310	6.6 slight impact
Fishkill Creek 8/12/21 Upper Treman, upstream of Enfield Creek	15.0 no impact	9.0 no impact	4.40 no impact	68% no impact	600	8.4 no impact
Buttermilk Creek 7/22/21 42.40174N, 76.512054W Upper Buttermilk, downstream of Lake Treman	10.0# slight impact	5.0# slight impact	3.98# no impact	73%# no impact	53	6.5# slight impact
Buttermilk Creek 9/25/21 42.417105N, 76.522558W Lower Buttermilk near playground	13.0 slight impact	7.0 slight impact	5.01 slight impact	65% no impact	266	7.1 slight impact
Six Mile Creek 8/29/21 42.396300N, 76.334333W Slaterville 600 Rd.	13.5 no impact	8.5 no impact	3.81 no impact	67% no impact	445	8.2* no impact
Six Mile Creek 9/2/21 42.402909N, 76.436369W upstream of German Cross Rd	11.5 slight impact	6.5 slight impact	4.24 no impact	77% no impact	992	7.6* no impact
Six Mile Creek 9/1/21 42.419465N, 76.465312W first good riffle dwnstrm of Potters Falls	11.5 slight impact	6.0 slight impact	4.62 slight impact	63% slight impact	1,316 (analyzed live)	6.8* slight impact
Six Mile Creek 9/18/21 42.434082N, 76.504191W just downstream of Plain St. Bridge	11.0 slight impact	7.0 slight impact	3.60 no impact	63% slight impact	1,464	7.3 slight impact
Cascadilla Creek 9/21/21 42.440917N, 76.448354W Game Farm Rd	12.0 slight impact	8.0 no impact	4.68 slight impact	42% moderate impact	3,420	6.3 slight impact
Cascadilla Creek 9/30/21 42.441510N, 76.468277W Cornell Aquaculture Building	12.0 slight impact	8.0 no impact	4.39 no impact	45% moderate impact	1,980	6.7 slight impact
Fall Creek 9/21/21 42.455180N, 76.493173W Cornell Botanic Garden Footbridge (upstream)	9.0 moderate impact	6.0 slight impact	5.32 slight impact	56% slight impact	1,383	5.9 slight impact
Virgil Creek 7/21/21 42.494555N, 76.31386W Virgil Creek Rd	12.0 slight impact	5.0 slight impact	5.22 slight impact	61% slight impact	5,688	6.5 slight impact
Salmon Creek 8/27/21 42.539959N, 76.543486W Myers Point	10.0# slight impact	3.0# slight impact	5.06# slight impact	51%# slight impact	85	5.6# slight impact
Great Gully Creek 9/26/21 42.807746N, 76.701681W Upstream Rte 90	9.0# moderate impact	4.0# slight impact	4.66# slight impact	63%# slight impact	44	6.1# slight impact
Catharine Creek 8/5/21 42.327932N, 76.844442W South Genesee Street	14.0# no impact	6.0# slight impact	5.09# slight impact	63%# slight impact	82	7.1# slight impact
Tug Hollow Creek 10/8/21 42.423581N, 76.852775W upstream of CR 5 bridge	14.0 no impact	10.0 no impact	4.25 no impact	70% no impact	262	8.5 no impact
Sawmill Creek 5/27/21 42.49861373N, 76.88883207W Mouth - Dwnstrm Peach Orchard Rd	10.0 slight impact	7.0 slight impact	3.44 no impact	57% slight impact	202	7.0 slight impact
Fillmore Glen Creek 9/14/21 42.703076N, 76.419865W Millard Fillmore Elementary School	14.0 no impact	6.0 slight impact	5.16 slight impact	60% slight impact	620	7.0 slight impact

* Based on the average of two replicate samples. All other results are based on a single sample.

Total number of organisms collected in sample was less than 100 required for accurate metrics calculations. Organism counts were lower than previous seasons for many samples, likely due to heavy flow conditions washing organisms away. Some sites seemed to take longer than expected to repopulate.

BAP is a composite index that incorporates Total Family Richness, Family Biotic Index, EPT Richness and Percent Model Affinity.