

non-impacted
slightly impacted
moderately impacted
severely impacted



# THE COMMUNITY SCIENCE INSTITUTE

## Bio-monitoring RESULTS 2016

Cayuga Lake Watershed

	Total Family Richness	EPT Richness	Family Biotic Index	Percent Model Affinity	Density Orgs/sample	BAP Value Biological Assessment Profile
<b>Enfield Creek - Mouth</b> 5/27/16 42.398095N, 76.546700W just upstrm of rte 13 bridge	<b>18.0</b> no impact	<b>11.0</b> no impact	<b>4.77</b> slight impact	<b>74%</b> no impact	450*	<b>8.8</b> no impact
<b>Six Mile Creek-Slatville 600rd</b> 9/3/16 42.396300N, 76.334333W Slaterville 600 Rd.	<b>15.5</b> no impact	<b>8.0</b> no impact	<b>3.48</b> no impact	<b>65%</b> no impact	1,856	<b>8.6</b> no impact
<b>Six Mile Creek-upstrm GerCrs</b> 9/1/16 42.402909N, 76.436369W German Cross Rd	<b>19.5</b> no impact	<b>10.0</b> no impact	<b>4.54</b> slight impact	<b>58%</b> slight impact	not calculated (analyzed live)	<b>8.3</b> no impact
<b>Six Mile Creek-blw Potters Falls</b> 9/2/16 42.419465N, 76.465312W first good riffle dwnstrm of Potters Falls	<b>11.5</b> slight impact	<b>5.0</b> slight impact	<b>4.34</b> no impact	<b>51%</b> slight impact	1,548 (analyzed live)	<b>6.5</b> slight impact
<b>Six Mile Creek-Plain Street</b> 8/28/16 42.434082N, 76.504191W just downstream of Plain St. Bridge	<b>11.5</b> slight impact	<b>6.5</b> slight impact	<b>4.43</b> no impact	<b>51%</b> slight impact	646 (analyzed live)	<b>6.5</b> slight impact
<b>Fall Creek</b> 8/31/16 42.457884N, 76.437961W Freese Rd	<b>12.0</b> slight impact	<b>8.0</b> no impact	<b>5.09</b> slight impact	<b>60%</b> slight impact	3933	<b>6.9</b> slight impact
<b>Fall Creek -LakeSt Upstrm</b> 9/25/16 42.453137N, 76.493173W upstream of Lake St bridge (dwntrn)	<b>12.0</b> slight impact	<b>7.0</b> slight impact	<b>4.18</b> no impact	<b>49%</b> moderate impact	3372	<b>6.7*</b> slight impact
<b>Fall Creek -LakeSt Dnstrm</b> 9/25/16 42.453347N, 76.495711W downstream of Lake St bridge (dwntrn)	<b>10.0</b> slight impact	<b>7.0</b> slight impact	<b>3.77</b> no impact	<b>43%</b> moderate impact	1520	<b>6.9*</b> slight impact
<b>Taughannock Creek</b> 7/9/16 42.492533N, 76.692656W Perry City Rd	<b>12.5</b> slight impact	<b>6.5</b> slight impact	<b>4.94</b> slight impact	<b>55%</b> slight impact	4,666	<b>6.6</b> slight impact
<b>Taughannock Creek</b> 7/9/16 42.529682N, 76.635175W ~500' dwnstrm of Rte 96 bridge	<b>15.0</b> no impact	<b>8.0</b> no impact	<b>4.70</b> slight impact	<b>63%</b> slight impact	1150	<b>7.8</b> no impact
<b>Paines Creek</b> 6/1/16 42.735908N, 76.698634W ~1/2 mile upstream from mouth	<b>8.0</b> moderate impact	<b>3.5</b> slight impact	<b>4.18</b> no impact	<b>79%</b> no impact	1,878	<b>6.6</b> slight impact

Seneca Lake Watershed

<b>Catharine Creek</b> 9/18/16 42.327932N, 76.844442W South Genesee St.	<b>14.0</b> no impact	<b>8.5</b> no impact	<b>4.56</b> slight impact	<b>57%</b> slight impact	2,208	<b>7.7</b> no impact
<b>Glen Creek</b> 7/27/16 42.374974N, 76.873064W Watkins Glen SP Lower Entrance	<b>13.0</b> slight impact	<b>7.0</b> slight impact	<b>4.42</b> no impact	<b>86%</b> no impact	1,240	<b>7.9</b> no impact
<b>Glen Creek</b> 7/27/16 42.368652N, 76.901243W Upstream of Punchbowl/Watkins Glen SP	Sample collected but there was extremely low flow at this location and the entire sample yielded only 50 organisms (pulled live) therefore not meeting the required 100 organism minimum for analysis.					
<b>Tug Hollow (Logan) Creek</b> 9/5/16 42.425821N, 76.868772W Glen Eldridge	<b>16.0</b> no impact	<b>8.0</b> no impact	<b>4.50</b> no impact	<b>55%</b> slight impact	1,388	<b>8.0*</b> no impact
<b>Big Stream</b> 7/5/16 42.490348N, 76.914326W Glenora Point	<b>16.0</b> no impact	<b>8.5</b> no impact	<b>5.36</b> slight impact	<b>79%</b> no impact	1,963	<b>8.4</b> no impact
<b>Keuka Outlet</b> 9/26/16 42.657781N, 77.035167W Upstream of Penn Yan Wstwr Trtmnt Outflow	<b>12.0</b> slight impact	<b>6.0</b> slight impact	<b>4.01</b> no impact	<b>65%</b> no impact	4,364	<b>7.3*</b> slight impact
<b>Keuka Outlet</b> 9/26/16 42.658278N, 77.034332W Dwnstrm of Penn Yan Wstwr Trtmnt Outflow	<b>17.0</b> no impact	<b>6.0</b> slight impact	<b>4.95</b> slight impact	<b>50%</b> slight impact	2,826	<b>7.1*</b> slight impact

Susquehanna River Watershed

<b>Owego Creek</b> 9/8/16 42.11215N, 76.278384W Talcott St Bridge	<b>16.0</b> no impact	<b>9.5</b> no impact	<b>4.73</b> slight impact	<b>74%</b> no impact	9,318	<b>8.7</b> no impact
<b>Owego Creek</b> 9/6/16 42.128506N, -76.26998W Upstream of Turner St Bridge	<b>10.5</b> slight impact	<b>7.0</b> slight impact	<b>4.12</b> no impact	<b>59%</b> slight impact	12,453	<b>6.9</b> slight impact

\* Results marked with an asterisk are based on just one replicate sample.  
All other results are based on an average of the results from 2 replicate samples.

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