Coastal Plain Macroinvertebrate Index (CPMI)\textsuperscript{1}

Study area: southern New Jersey, below the geologic fall-line; Middle Atlantic Coastal Plain ecoregion, excluding the Pinelands National Reserve. See figure A1.

Index Metrics
1. Total number of genera
2. Total number of EPT genera
3. Percent Ephemeroptera genera
4. Hilsenhoff Biotic Index
5. Percent Clinger genera

\begin{tabular}{|c|c|c|c|c|}
\hline
Index & Metric & Score \\
\hline
Number of genera & >25 & 17-25 & 9-16 & <9 \\
Number of EPT genera & >9 & 7-9 & 4-6 & <4 \\
% of Ephemeroptera & >29 & 20-29 & 10-19 & <10 \\
Hilsenhoff Biotic Index & <4.9 & 4.9-6.0 & 6.1-7.3 & >7.3 \\
% Clingers & >51 & 34-51 & 17-33 & <17 \\
\hline
\end{tabular}

Assessment Rating

<table>
<thead>
<tr>
<th>Score</th>
<th>Excellent</th>
<th>Good</th>
<th>Fair</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>22-30</td>
<td>12-20</td>
<td>10-6</td>
<td>&lt; 6</td>
</tr>
</tbody>
</table>

Reference

Attributes

**Excellent:** Minimal changes in structure of biological community and minimal changes in ecosystem function. Virtually all native taxa are maintained with some changes to biomass and/or abundance; ecosystem functions are fully maintained within the range of natural variability.

**Good:** Some evident changes in structure of the biotic community and minimal changes in ecosystem function. Some changes in structure due to loss of some rare native taxa; shifts in relative abundance of taxa but sensitive-ubiquitous taxa are common and abundant; ecosystem functions are fully maintained.

**Fair:** Moderate to major changes in structure of biological community and moderate changes in ecosystem function. Sensitive taxa are markedly diminished; conspicuously unbalanced distribution of major groups from that expected; organism condition shows signs of physiological stress; system function shows reduced complexity.

**Poor:** Extreme changes in structure of biological community and major loss of ecosystem function. Extreme changes in structure; wholesale changes in taxonomic composition; extreme alterations from normal densities and distributions; organism condition is often poor; ecosystem functions are severely altered.

\textsuperscript{1} Based on 100 organism subsample, genus level taxonomy.