Honeoye Lake Monitoring Program for 2003-2009

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Honeoye Lake Watershed Task Force
Effect of Lake Depth on Trophic Indices

V-Factor / Phosphorus

\[ R^2 = 0.58 \]

V-Factor = \frac{\text{Mean Depth (m)}}{\text{Cube Root (Volume (km}^3))]}

Phosphorus (ug/l)

Honeoye
Conesus
Otisco
Cayuga
Keuka
Hemlock
Owasko
Canandaigua
Seneca
Skaneateles
Canadice
Historical Secchi Readings

Midlake Site D Secchi Reading (May-October)
Average 3.6 meters
Midlake Site D Chlorphyll-a Reading (May-October)
Average 12.8 ug/l
Midlake Site D Surface Total Phosphorus (May-October)
Average 24.8 ug/l
## Trophic Indicators Summary

<table>
<thead>
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</thead>
<tbody>
<tr>
<td><strong>TP (ug/l)</strong></td>
<td>&lt;10</td>
<td>10-20</td>
<td>&gt;20</td>
<td>13.7</td>
<td>24.8</td>
<td>42.4</td>
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<td><strong>Chlorophyll-a (ug/l)</strong></td>
<td>&lt;4</td>
<td>4-10</td>
<td>&gt;10</td>
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<td><strong>Secchi (m)</strong></td>
<td>&gt;4</td>
<td>2-4</td>
<td>&lt;2</td>
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Seasonal Variation of Lake Temperature Difference

Midlake Site D Water Temperature Difference (Surface - Bottom)
2003-2009 Average
Seasonal Variation of DO & Secchi Variation

Midlake Site D  Bottom DO and Secchi
2003-2009 Average

Date

DO (mg/L)   .

Secchi (m)   .

Avgerage DO
Average Secchi
Seasonal Variation of Surface Chlorophyll-a

Midlake Site D Chlorophyll-a at 0m
Seasonal Variation of Deep Water TP

Midlake Site D Total Phosphorus at 8m

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<th>2007</th>
<th>2008</th>
<th>2009</th>
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<td>200</td>
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Seasonal Variation of Deep Water SRP

Midlake Site D Soluble Reactive Phosphorus at 8m

- 2003
- 2007
- 2008
- 2009
Effect of Location In Lake

2008 Sites D & F Sechii Disk Readings

2008 Sites D & F Chlorophyll-a Readings

2008 Site F Dissolved Oxygen
Full Report

Report Available at:

hvaweb.org/water_quality_monitoring.html

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