Introduction and Survey Objectives

The entire 11.5 miles of the Radley Creek is classified as Class I trout water with brown trout as the dominant salmonid. Brook trout are present in lower numbers but are relegated to the extreme headwater reaches. Trout populations are supported entirely by natural reproduction with no stocking. Habitat development projects have been completed in several areas throughout the stream including the survey site. Fishing access is very good with multiple DNR managed properties. Objectives of the trend survey are to monitor relative abundance and size structure.

Regulations: Entire Stream - Category 3  Size Limit: All Trout - 9 inches  Daily Bag Limit: 3 (in total)

Survey Information

<table>
<thead>
<tr>
<th>Site location</th>
<th>Survey Date</th>
<th>Station Length</th>
<th>GPS (Start/Finish)</th>
<th>Gear</th>
<th>Dippers</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWY 22 TREND</td>
<td>7/10/2014</td>
<td>2095 ft.</td>
<td>44.2767,-89.1681</td>
<td>Towed Barge</td>
<td>3</td>
</tr>
</tbody>
</table>

Metric Descriptions

- **Catch per effort (CPE)** is an indirect method of measuring fish population relative abundance. For all trout surveys we typically quantify CPE by the number and size of trout captured per mile of stream. CPE indexes are compared to statewide streams by percentile (PCTL). For example, if a CPE is in the 90th percentile, it is higher than 90% of the other CPEs in the state. CPE percentiles can also be used to categorize trout abundance by 33rd (low density), 66th (moderate), 90th (high), and 95th (very high) benchmarks.

- **Length frequency distribution** describes size structure and is the number of trout captured and grouped by one inch size intervals.

Survey Method

- The 2014 survey indicated brown trout density for adult size fish was at high levels with CPEs ranking at the 85th percentile for >6+ inch trout and have remained relatively stable over the past 10 years. CPEs for 9+, 12+ and 15+ inch trout are at moderate levels and also have remained stable.

- Young of year (Y0Y) relative abundance was lower than the 10 year average.

- The Radley Creek has proven to produce good numbers of mid-size (8-12 inch) trout, especially in areas with habitat development work. It is recommended that habitat development be expanded to areas just upstream of the trend site.

- The current regulation appears to be working well and no changes are recommended at this time.