Distribution of Data Source Points

Watersheds
- Des Plaines
- Fox River
- Kishwaukee

Data
- Macroinvertebrates (mIBI)
- Fish (fIBI)
- Water Chemistry

Sources
- Illinois Environmental Projection Agency (IEPA)
- Lower DuPage River Watershed Coalition
- DuPage River Salt Creek Workgroup
- Upper Des Plaines River Watershed Workgroup
How Many Sensitive Species Do We Expect at Good Sites?

• Calculate number of Chloride sensitive species at each site

• Plot the number of sensitive fish species vs. the fish IBI (fIBI) at each site

• Is there a strong threshold response between the fIBI and Chloride sensitive species?
  • Few outliers with high sensitive fish species counts at low fIBIs
Chloride Probability Plot and Sensitive Species (fish)

**Wadeable and Headwater Streams**

**Percentile of Meeting Sites**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Stream Type</th>
<th>Very Poor</th>
<th>Poor</th>
<th>Fair</th>
<th>Good</th>
<th>Excellent</th>
<th>Mean/Median</th>
<th>IQR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Chloride (mg/L)</td>
<td>Head-Wade</td>
<td>295</td>
<td>168.7</td>
<td>175.6</td>
<td>120.0</td>
<td>40</td>
<td>123.3/156.5</td>
<td>49.0-171.0</td>
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</tbody>
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