Spring, Lucerne and Deer Lake Management Planning Meeting

Fisheries
Lucerne Lake

48 acre clear water seepage lake
Max depth around 33’
Mostly undeveloped shoreline
Sampled in 2011
Spring Electrofishing
Spring

40 acre spring-fed with outlet
Max depth 37’
Mean depth 22’
Sampled in 2013

Spring Electrofishing
Deer Lake

• 15 acre seepage lake
• Max depth around 14’
• History of periodic winterkills
  – Last winterkill in 2008
  – Most likely will see a kill this year (severe?)
• No recent fisheries information
FISHERIES MANAGEMENT

we make fishing better
Largemouth Bass

- Fairly high abundance
  - 129 captured in our survey
  - 206/hour >8”
  - Prefer closer to 150/hour
- Below average size structure
  - Mean length of 9.7” (3.5” – 19.0”)
  - PSD12 = 20%
  - RSD14 = 2%
- Average growth – 14” in 6-7 years
Lake Lucerne Largemouth Bass

Largemouth Bass Growth Rates
Lucerne Lake, Waushara Co.

Completed Summers of Growth

<table>
<thead>
<tr>
<th>Length (inches)</th>
<th>Lucerne Lake 2011</th>
<th>Statewide Average</th>
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<td>3.7</td>
<td>8.6</td>
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<td>6.1</td>
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Mean Length (Inches)
Bluegill

• Abundance good
  – 204 caught in our shocker survey
  – 406/hour

• Size structure good
  – Mean length of 6.2” (2.0”-8.5”)
  – PSD6 = 56%
  – RSD8 = 8%

• Average growth – 6” by age 4
Lake Lucerne Bluegill

Number of fish vs Length (inches) for Lake Lucerne Bluegill in 2011.
Largemouth Bass

• Abundance above average
  – 163 captured in our survey
  – 125.5/hour > 8”
  – Relative abundance increased since 05
• Size structure average
  – PSD12 = 32%
  – RSD14 = 11%
• Growth below average
  – 14” by age 8
Largemouth Bass Length Distribution from Electrofishing on Spring Lake May 14th, 2013.

N = 163
Bluegill

- Above average abundance
  - 494/hour > 3”

- Size structure average
  - Mean length 5.0” (1.9” – 8.2”)
  - PSD6 = 32%
  - RSD7 = 20%
Bluegill Length Distribution Electrofishing on Spring Lake
May 14th, 2013.

N = 258
Conclusion

• Habitat
  – Consistent “High” rankings in shoreline scores
  – Protection of existing habitat
  – Improve or restore areas of concern
  – Use of large woody debris in littoral area
  – Continue monitoring for “invasives”
Thank You!

Questions??