Pleasant and Irogami Lake Management Planning Meeting

Fisheries
Irogami

289 acres
Max depth around 6’
Mean depth 2.5’
History of Winterkills
Sampled in 2011
  Spring Fyke Netting
  Spring Electrofishing
Pleasant Lake

126 acre clear water seepage lake
Max depth around 30’
Mean depth 15’
Water level fluctuations not uncommon
Sampled in 2012
Irogami Lake Northern Pike – Fyke Netting Size Distribution

N = 81
Mean = 19.5
Northern Pike

- Below average abundance
  - .27/acre
  - .44/acre in 2001
- Poor size structure
  PSD21 = 25%
  RSD26 = 4%
  RSD26 = 31% in 2001
Irogami Lake Yellow Perch – Fyke Netting Size Distribution

N = 67
7.5”-11.0
Mean = 9.6”
Irogami Lake LMB – Fyke Netting Size Distribution

N = 62
Mean = 8.8”

Irogami Lake LMB – Electrofishing Size Distribution

N = 783
Mean = 8.9”
Largemouth Bass

• High abundance
  – 417/hour >8”
  – Prefer closer to 150/hour

• Poor size structure
  – PSD12 = 8%
  – RSD14 = 1%
Irogami Lake Bluegill - Fyke Netting Size Distribution

N = 328
Mean = 5.1”

Irogami Lake Bluegill - Electrofishing Size Distribution

N = 24
Mean = 7.3”
Bluegill

- Abundance low
  - Only 24 caught in our shocker survey
  - 58/hour (112/hour in 2001)
  - Winterkill in 2007

- Size structure good
  - PSD6 = 75%
  - RSD8 = 38%
Pleasant Lake Northern Pike – Fyke Netting Size Distribution*

N = 24
Mean = 16.6
*This is not a true representation of the NP population
Northern Pike

- We missed the major spawn
- Only sampled 41 fish
- Length range 10.0”-32.0”
- Mean length of 17.3”
- RSD26 = 12%
Largemouth Bass – Fyke Netting Size Distribution

N = 24
Mean = 11.2”

Largemouth Bass – Electrofishing Size Distribution

N = 234
Mean = 10.9”
Largemouth Bass

- Abundance slightly high
  - 192/hour
- Size structure fair
  - PSD12 = 30%
  - RSD14 = 2%
- Growth below average
  - 14” by age 8
Pleasant Lake Bluegill – Fyke Netting Size Distribution

- N = 126
- Mean = 6.7"

Pleasant Lake Bluegill – Electrofishing Size Distribution

- N = 211
- Mean = 6.0"
Bluegill

- Abundance average
  - 348/hour
- Size structure good
  - PSD6 = 82%
  - RSD7 = 52%
  - RSD8 = 2% (harvest?)
- Growth below average
  - 6” by age 5
Conclusion

• Habitat
  – Both lakes are highly developed
  – “Low” ranking
  – Protection and restoration of near shore
  – Use of Large Woody Debris LWD in Littoral Zone

• Removal of 14” size limit for LMB (Irogami)

• Lower bag limit (10?) for Bluegill
Thank You!

Questions??