

Citizen Science in Action:

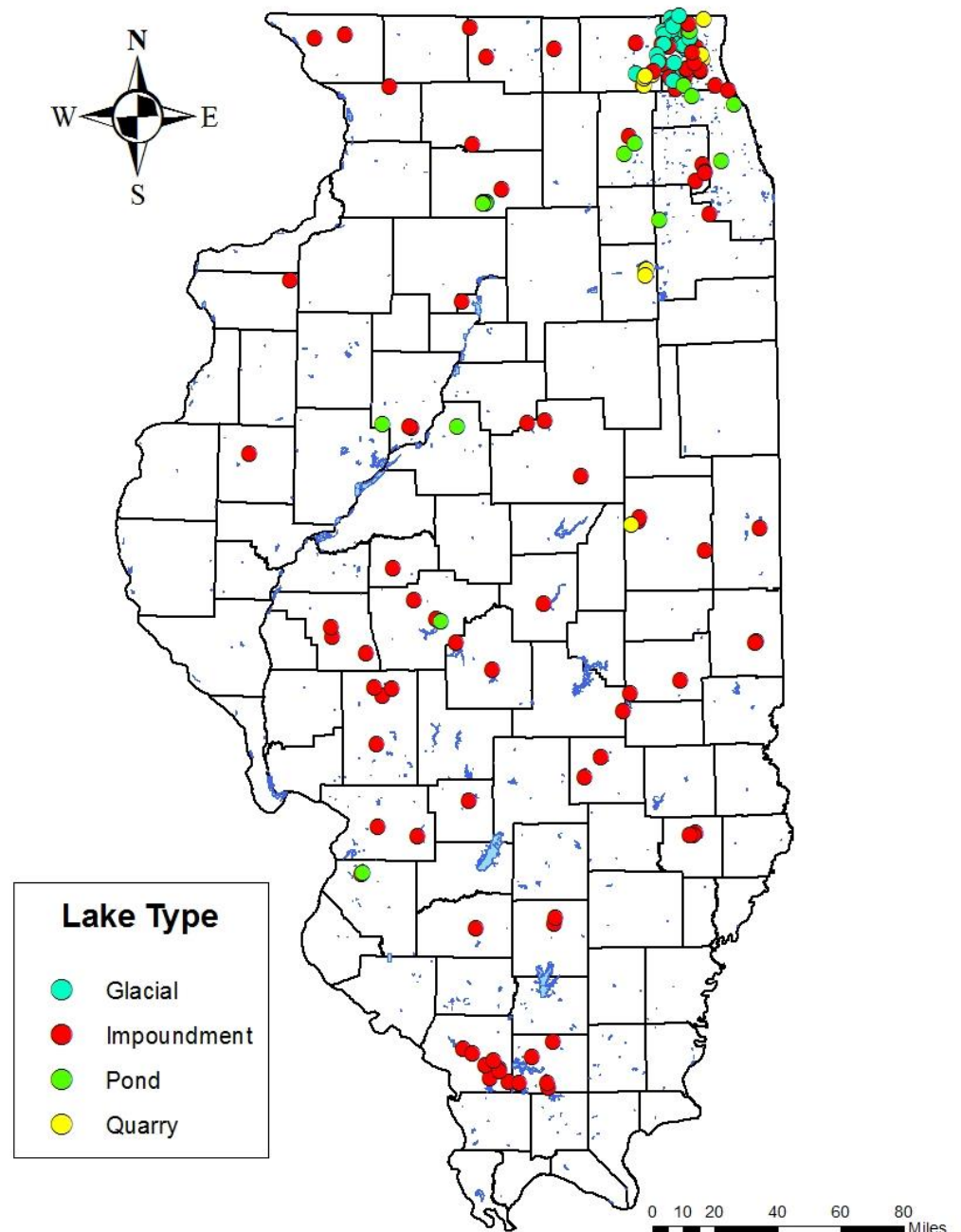
Review of the 2018 VLMP Year

Presented by Gregg Miller

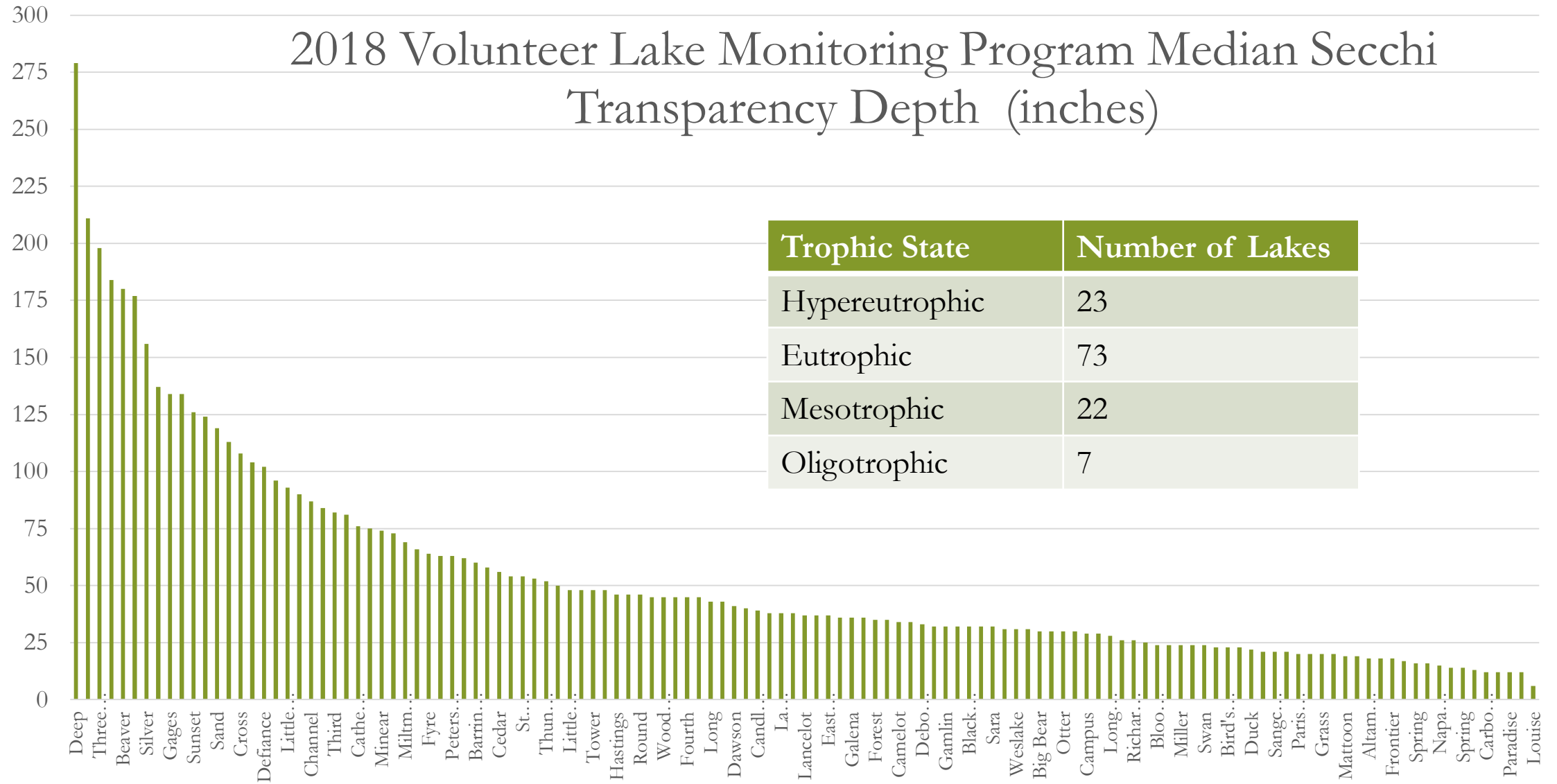
Tiers by Volunteer:

- Total Participants:
 - 258 Volunteers across 129 Lakes
- Tier 1:
 - 57 Lakes
- Tier 2:
 - 69 Lakes
 - 8 Lakes Expanded
- Tier 3:
 - 3 Lakes

2018 VLMP Lakes



2018 Volunteer Lake Monitoring Program Median Secchi Transparency Depth (inches)

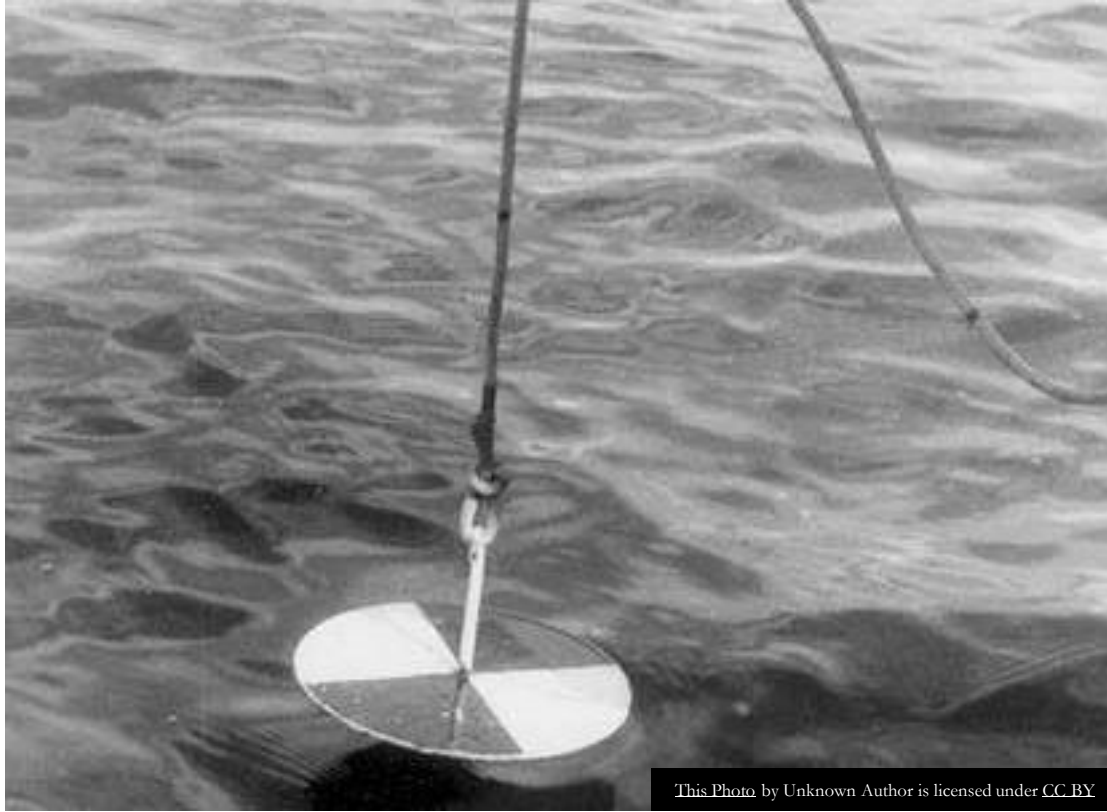


Trophic State	Number of Lakes
Hypereutrophic	23
Eutrophic	73
Mesotrophic	22
Oligotrophic	7

Highlights from the Year:



- Heavy loading of nutrients in Illinois lakes
- Illinois Water Quality Standard (WQS) for Total Phosphorus (TP) is 0.05 mg/l
- 51 lakes that had at least one sampling event where TP > 0.05 mg/l (IL WQS)
- Roughly 70% of the lakes monitored exceeded this standard
- Total nitrogen had a median range of 0.330 mg/l to 3.79 mg/l
- When determining if TP or nitrogen limits algal growth, 14% of lakes are limited by nitrogen, and 48% are limited by a combination of the two



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Secchi Dip-In

- Volunteers have been participating since 1994
- Gather global snapshot of water quality
- Occurs simultaneously with Lakes Appreciation Month across all of July

Citizen Scientist Apps:

Bloomwatch



Welcome to bloomWatch!

Crowdsourcing to find and report
potential cyanobacteria blooms

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iNaturalist



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Thank You!

For more information, visit:

- <https://www2.illinois.gov/epa/topics/water-quality/monitoring/vlmp/Pages/default.aspx>
- <http://www.secchidipin.org/>
- <https://cyanos.org/bloomwatch/>
- <https://www.inaturalist.org/>

For Questions, contact:

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