

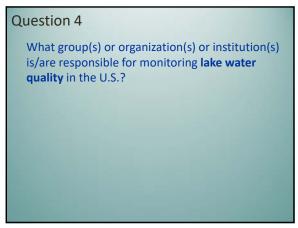




Question 3 Which state in the northeastern U.S. has the lowest <u>levels of algae</u> in its lakes? ME, NH, VT, NY, MA, CT, RI, NJ, PA, OH, IN, IL, MI, WI, MN, IA, MO LAGOS-NE Lake Point

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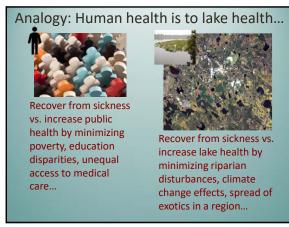
Why do these facts & statistics matter? Policymakers need this type of information



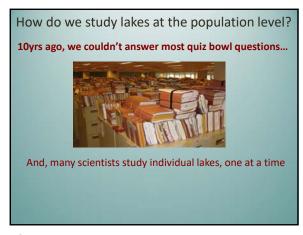
Analogy: Human health is to lake health... An individual lake is A population of lakes is understood & managed by lake understood & legislated by those who study & users/owners & make decisions about managers lake health

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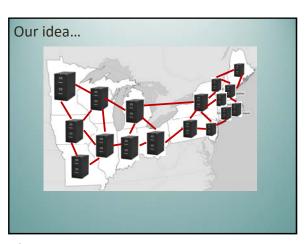
Lessons learned: (1) We need to study lakes individually AND at the population level so that we can continue to enjoy, understand, and manage lakes, as well as make sound decisions about lakes (i.e., set good policies).





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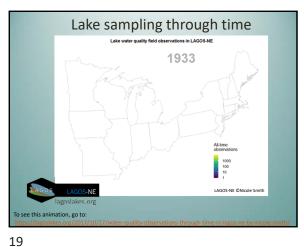


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Data sources for lake water quality

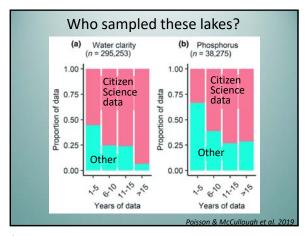
- State natural resource agencies
- Tribal natural resource agencies
- Federal agencies
- Citizen science programs
- University research programs





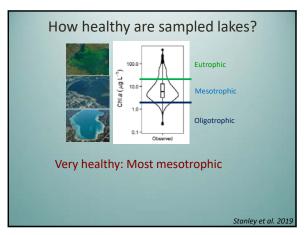
Who sampled these lakes? (a) Water clarity (n = 295,253) (b) Phosphorus (n = 38,275) 1.00 Citizen Citizen Science Science 다 0.75 Proportion of data data data 0.50 0.50 0.25 0.25 Other 1990 2000 1990 2000 Year Year Poisson & McCullough et al. 20

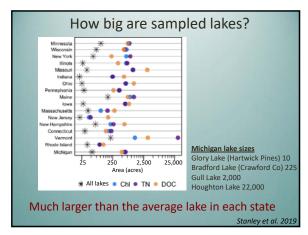
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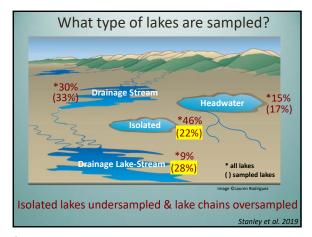


Lessons learned: (2) We can compile existing data to study lakes at the population level. (3) Citizen-collected data make up a VERY HIGH proportion of available water quality data AND long-term data.

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(1) We need to study lakes individually AND at the population level so that we can continue to enjoy, understand, and manage lakes, as well as make sound decisions about lakes (i.e., set good policies).

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(3) Citizen-collected data make up a VERY HIGH proportion of available water quality data AND long-term data.

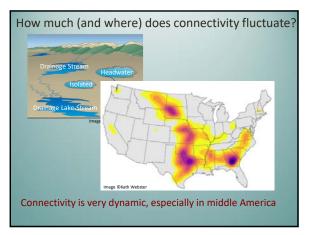
(4) Lakes sampled are generally healthy, large, and connected to other lakes (especially when compared to the whole lake population).

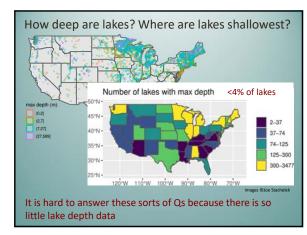
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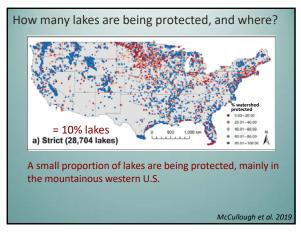


Many lakes are unnamed, but 'Mud Lake' is very common and there are regional differences in what we call a 'lake'

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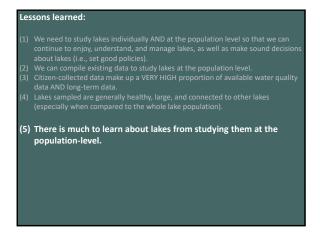








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Platinish S. Somona, Linds C. Bosco, Multiand Emastrian, Famin F. Bedray, Grant S. Goldman, Grant S. Goldman, Margin B. Bosco, G. Goldman, J. Company, J. Goldman, G. Goldman, J. Company, J. Goldman, G. Goldman, J. Company, J. Goldman, G. Goldman, J. Goldman, J. Goldman, J. Goldman, J. Goldman, J. Goldman, G. Goldman, J. Goldman, G. Goldman, J. Goldman, G. Goldman, J. Goldman, G. Goldman, J. Goldman, J. Goldman, J. Goldman, G. Goldman, G. Goldman, J. Goldman, G. Gol

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