

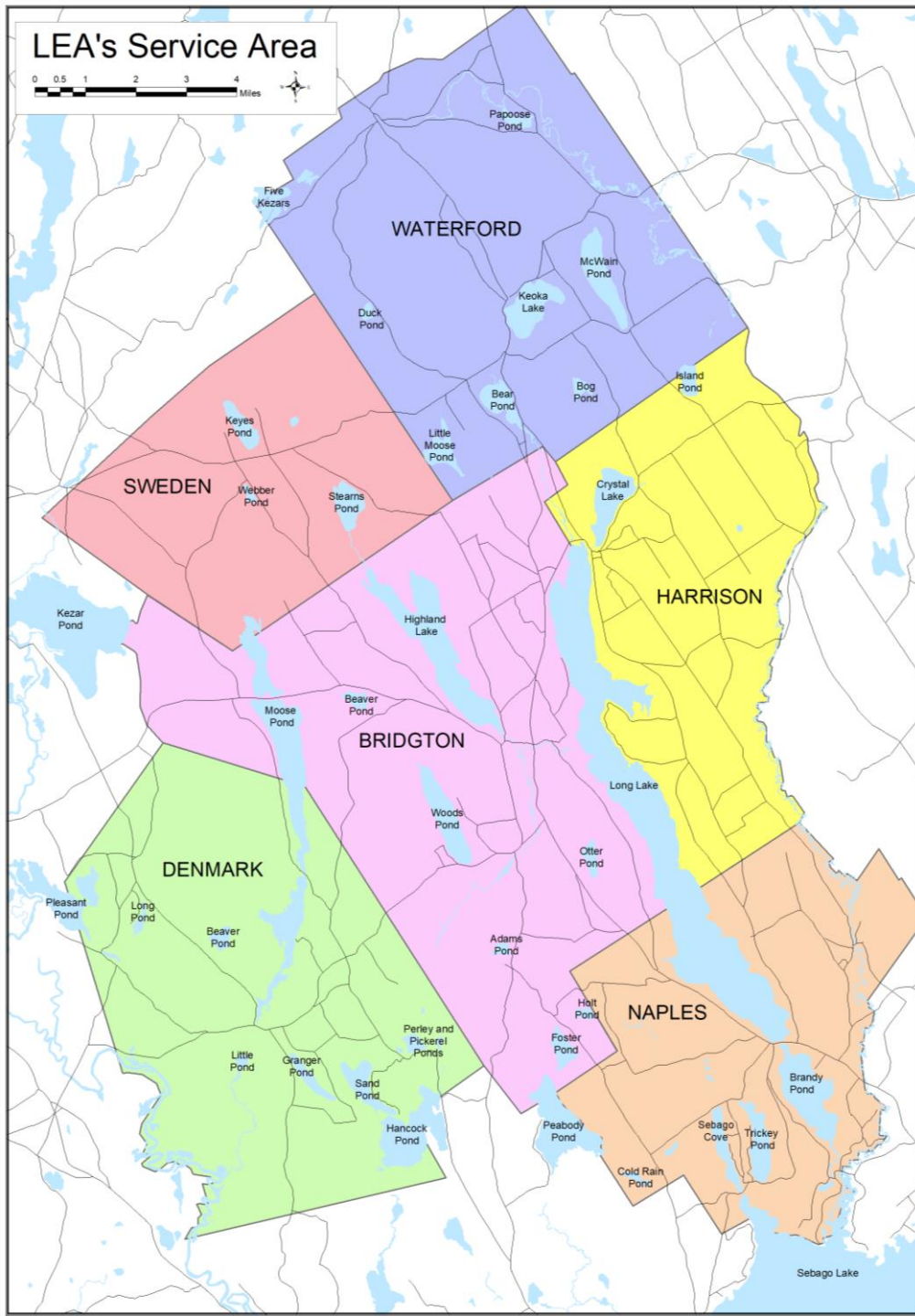


LAKES ENVIRONMENTAL ASSOCIATION

Protecting Maine Lakes Since 1970



2022 Casco Bay Monitoring Network Update
Maggie Welch – Limnologist – Lakes Environmental Association



Monitoring Program Overview

Long-term monitoring program

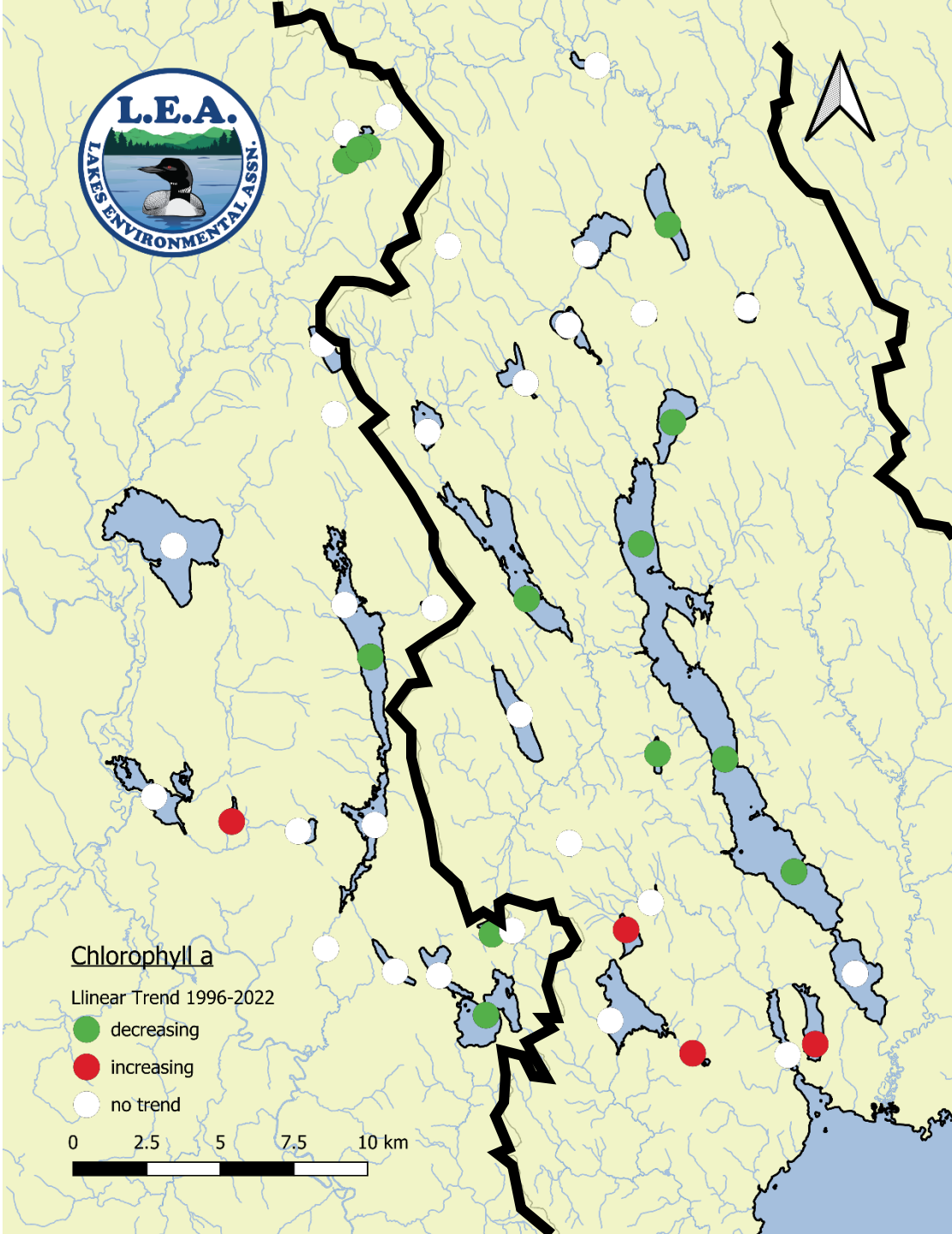
Total phosphorus, chlorophyll-a, oxygen, clarity, temperature, pH, color, conductivity, alkalinity

Advanced monitoring programs

High resolution temperature monitoring, flourometer, loon productivity, acid rain monitoring, algae identification

Maine Lake Science Center

GLEON automated buoys, winter lake monitoring, bathymetry, nutrient analysis, flow imaging microscopy, Gloeotrichia monitoring, sonde profiles, photosynthetically active (or available) radiation (aka: 'light') profiles, cyanotoxins analysis (Abraxis test strips), E.coli monitoring



Chlorophyll-a Trend

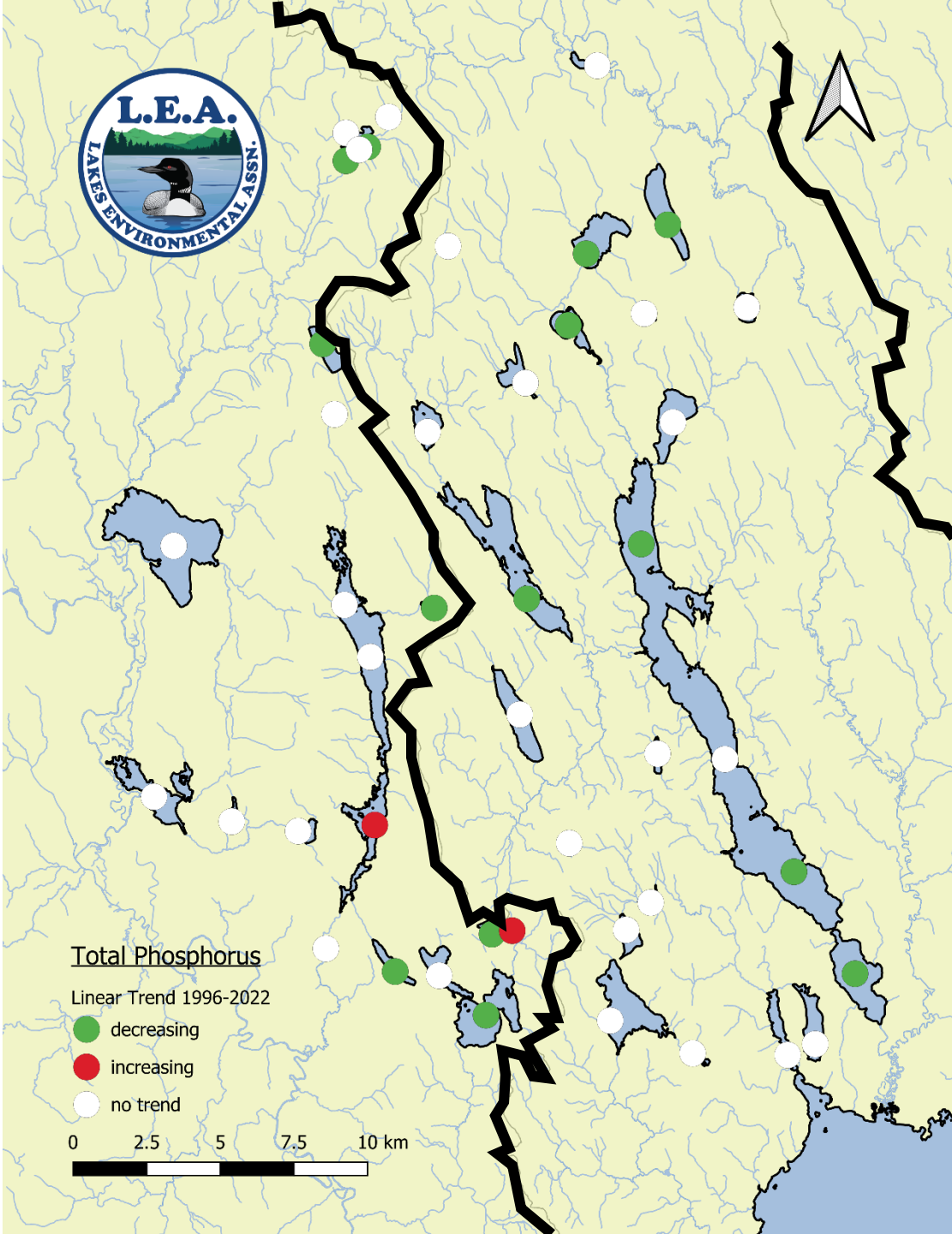
26 test sites visited 8 times each

19 test sites visited 1 time each

chl-a samples analyzed in 2022: 254

Mean chl-a concentration for all lakes:
2.7 PPB

Chl-a concentration range:
1 PPB – 24 PPB



Total Phosphorus Trend

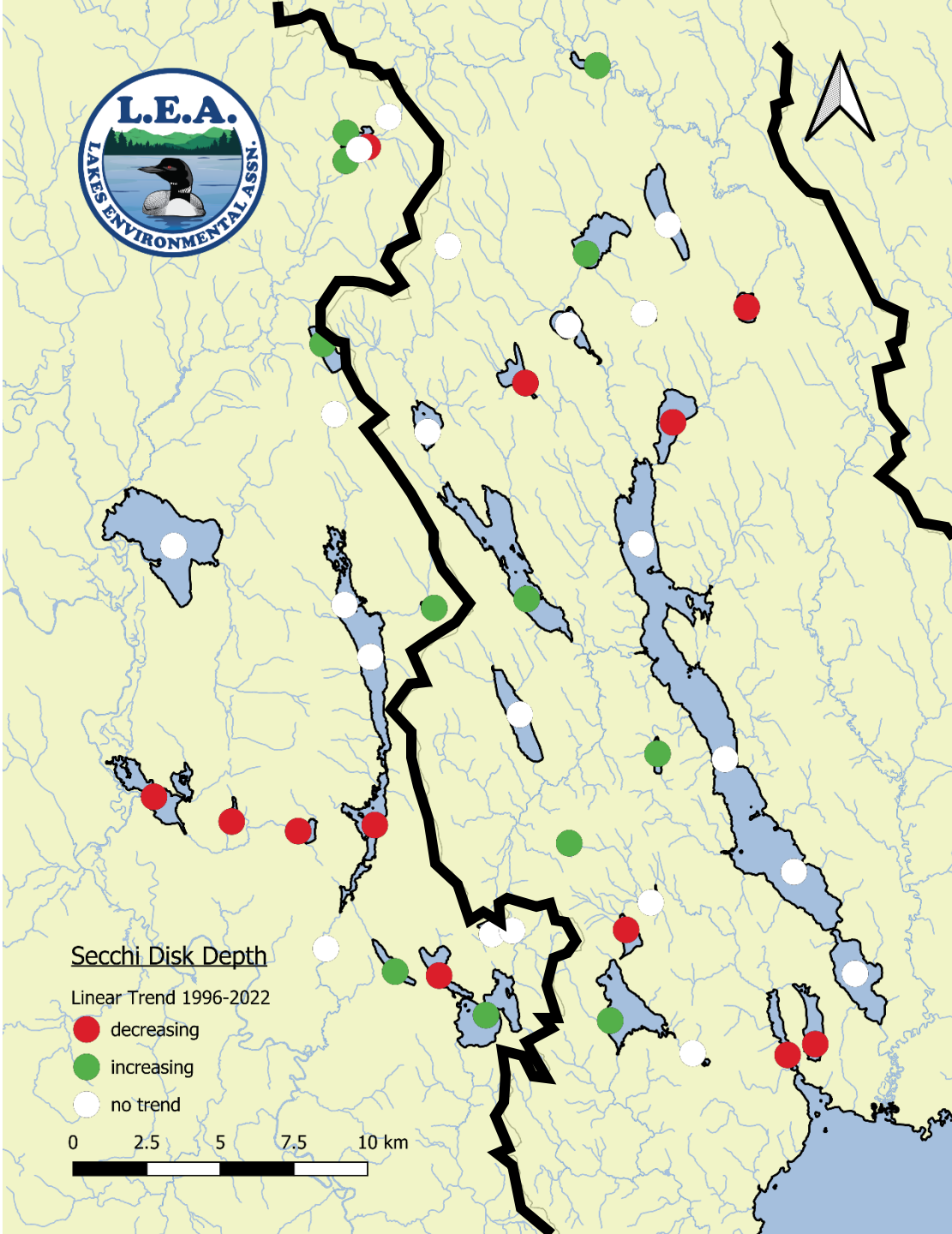
26 test sites visited 8 times each

19 test sites visited 1 time each

total phosphorus samples analyzed in 2022: 254

Mean total phosphorus concentration for all lakes: 7.0 PPB

Total phosphorus concentration range: 2 PPB – 23 PPB



Clarity Trend

26 test sites visited 10 times each

19 test sites visited 1 time each

secchi readings in 2022: 316

Mean secchi for all lakes: 6.4 meters

Secchi range: 1.27 meters – 12.00 meters

For info about specific lakes and ponds or to learn more about our monitoring programs please visit our website

Water testing reports

<https://mainelakes.org/water-testing-report/>

Near real-time buoy data for Long and Highland lakes

https://mainelakes.org/news_article/view-live-water-quality-data/

Information about individual lakes

<https://mainelakes.org/lake-information/>

