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CSLAP!

**Not just a (bad) acronym...
(but we'll go through it anyway)**

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C (means Citizens)

Citizens are the most Critical part of the program

They do the work

They know their lakes (and can tell us when they're out of whack.....the lakes, not the citizens)

They can sample in good weather and not quite as good (please don't go out when it is really bad)

They have been pre-teens and post-AARP, scientist and luddite, long-timers and first gen

They number nearly 2000



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S (Statewide)

Just west of Montauk to Just east of Erie

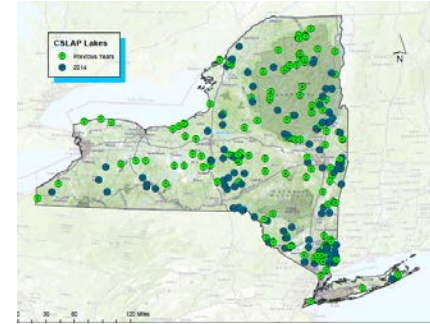
Just south of the border to just north of Henry Hudson's Mouth

Great Lakes to tiny little (but still great) ponds

67 of them in the Lower Hudson River basin

Nearly every lake in Madison County

But not enough in some parts of the state(wide)





L

(Lake)



And pond

And reservoir

And “flow(age)” and “landing”

Public and private

Good and less good and really bad

Almost bottomless to bottom full

More than 250 of them, half of that right now



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A (ssessment)

What a bureaucratic word!

But it's what we do....

“the evaluation or estimation of the nature, quality, or ability of something”

Huh?

It means how DEC (and FOLA and lake communities and...) determine the condition of the lake

And how we assign priorities and make permitting decisions and

So it really means what grade we give a lake

Lake Use				
	PWL	Average Year	2014	Primary issue
Potable Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable
Swimming	◆	■	■	Algae levels
Boating / Fishing	●	▲	●	Invasive plants
Aquatic Life	●	●	◆	High pH
Aesthetics	◆	◆	▲	Algae blooms
Fish Consumption	<input type="checkbox"/>	▲	▲	Algae blooms

- Supported
- ▲ Threatened
- ◆ Stressed
- Impaired
- Not Known





P (Program)

No pictures can make
this interesting.....

Another bureaucratic term

“Program” =

organized
coordinated (coordinator)
sustained
funded
integrated
(paperwork)
(quality control)
(standardized)
(training)

So what is CSLAP?



State volunteer
lake monitoring
program

Run by DEC and
NYS FOIA

Started 1983 w/
25 lakes and 150
samplers

Initially run
with D&W

No lake size
limits

Public or
private lakes

CEL 17-
0305 (1988)
mandates
program



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More stuff about it

Program continuous 1986-present

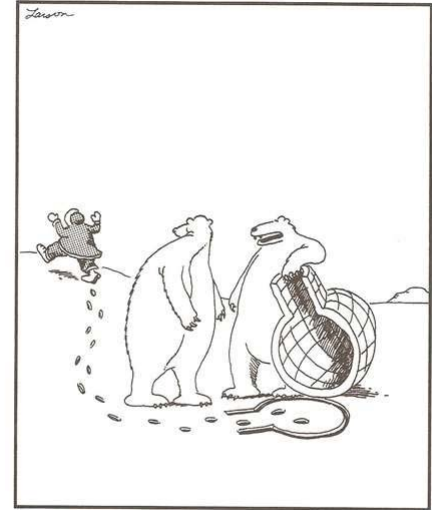
From 1986-2014:

- >25,000 samples at 250+ lakes
- Lakes sampled 1-29 years
- >1700 volunteers
- 2014 – 120 lakes

Program focus on eutrophication

Subsidized program:

- State dedicates \$80-120k annual
- NYSFOLA lake associations contribute appx. \$50k (\$350-500 per lake)
- EPA grants \$25-40k annually

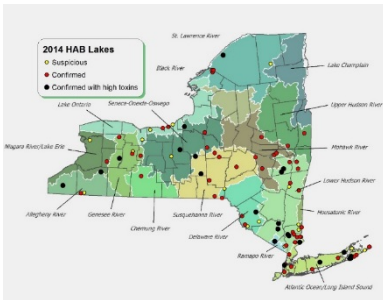


"I lift, you grab. ... Was that concept just a little too complex, Carl?"



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Who Does What: DEC (me)



- Overall program direction
- Subsidizes most of program costs
- Provides program coordinator
- Develops QAPP, SOPs, sampling protocols, analytical test patterns
- Coordinates laboratory contracts
- Conducts volunteer training
- Identifies macrophyte samples
- Analyzes data, writes summary reports
- Communicates results (EPA, agencies, lake associations, municipalities, HAB notification,..)
- “Portal” to state government
- ECL 17-0305 (1988) mandates program

Who Does What: NYSFOLA (Nancy and committee)

- Day-to-day operation of program
- Prepares sampling kits
- Coordinates sample receipt and cooler transmission with laboratory
- Handles most communication with volunteers
- “Chooses” candidate lakes
- Conducts volunteer training
- Enters field data
- Provides/maintains newsletter, annual conference, web page for program communication, committee w/DEC
- Provides upfront costs and outside push when state budget/red tape delays program



Who Does What: Citizen volunteers



- Member association of NYSFOLA
- Participate in group or individual training
- Follow CSLAP sampling protocol
- Collect and process water, HAB and plant samples
- Collect field and lake perception measurements
- Send and receive samples from laboratory
- Maintain equipment and supplies
- Communicate results to lake association
- Provide lake management information to DEC/NYSFOLA
- Tell DEC and NYSFOLA what we are doing wrong

Who Does What: The Lab

Upstate Freshwater Institute

Receives and returns all coolers

Troubleshoots sample issues

Transmits data/info to FOLA/DEC

Analyzes water chemistry samples

Analyzes some HAB screening tests

Creates sampling kits (with FOLA)

Provides assistance in analyzing results

Transmits HABs samples to ESF

Way more stuff



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Who Does What: The Other Lab

SUNY ESF

Receives shoreline HAB samples

Runs and reports HAB screening tests

Runs and reports algal toxin results

Provides interpretive information about HAB results

Receives public (post CSLAP and non-CSLAP) HAB samples



Core Program

All lakes sampled 8x per year- biweekly from May/June through September/October

- Surface samples analyzed for nutrients, algae, color, pH, conductivity, calcium
- Open water and shoreline HABs samples through SUNY ESF
- Hypolimnetic samples analyzed for nutrients, iron, manganese, arsenic
- Field data includes water clarity measurements, standardized lake perception

Most lakes sampled single site in deepest part of lake- multiple sites established at larger lakes

Limited plant surveys conducted at some lakes—DOW identifies plants and transfers info to iMap



Deliverables

CSLAP reports (20-40pp) issued annually for each of 110 CSLAP lakes

- Audience= lake associations, lakefront residents, municipalities, agencies (DEC, APA, others), academic researchers
- Includes other DEC (fisheries, LCI), federal, other data
- Individual reports posted on DEC website (<http://www.dec.ny.gov/lands/77821.html>) and NYSFOLA website (www.nysfola.org)
- Assessment summaries used for state PWL /305b assessments and for 303d recommendations

Scorecards

Q&A Summary

Primary data for NYS HABs notification program

Data used for small lakes TMDL modeling

Lake perception data used for nutrient criteria development



What We've Done Right

Confirmed validity of volunteer monitoring data

Imbedded into state monitoring plan

Utilized lake volunteers in meaningful / effective way:

- Spatial- network to identify statewide distribution of invasives
- Temporal- respond to periodic events, such as HABs
- Local knowledge- perception of lakes- contemporary vs. “normal”

Efficient use of monitoring resources

Developing partnerships for evaluating, assessing, managing problems



Where We Need to Go

Move from standardized (one size fits all) program to tailored program:

- More categories besides deep and shallow lakes
- Limited individualized reporting
- Real time management response

Better distribution / use of data, reports, network

Faster reporting

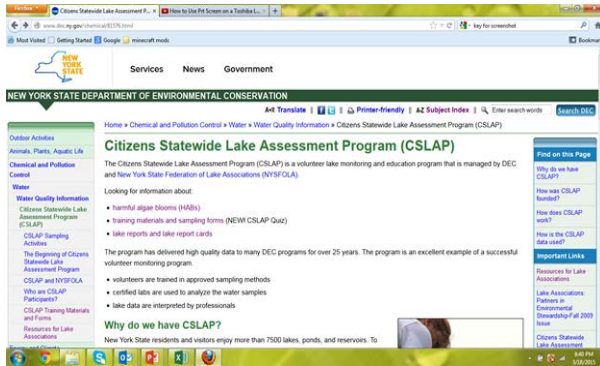
Meeting demand

Building next generation of program managers and data users

Build DEC and FOLA sustainability



For more information....



CSLAP website

FOLA website

Reports (Q&A, scorecards...)

PWL Assessments

or contact Scott Kishbaugh,

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