WELCOME

Lauderdale Lakes Improvement Association

2018 Annual Members Meeting

Welcome & Introductions

- LLIA Executive Committee
  - Debbie Ferrari – President
  - Ron Mueller – Vice President
  - Herb Sharpless – Treasurer
  - Gary Storandt – Secretary
  - Dave DeAngelis
  - Jim Dion
  - Don Henderson

Directors Meeting

- Agenda
  - Call to Order
  - Approval of Agenda
  - Approval of Minutes of 4/28/18 Meeting
  - Unfinished Business
  - New Business
    - Appointment of Sue Marcus as a Director of District #9
  - Adjourn

Annual Membership Meeting

- Call To Order
- Approval of Agenda
- Approval of Minutes of 6/10/17 Annual Meeting
- Election of Directors for Even Numbered Districts
- Treasurer's Report
- Special Presentations
  - Water Quality
  - Lauderdale Lakes Lake Management District Update
  - New LLIA Web Site
  - Roles of Lake Organizations and Q&A
- Unfinished Business
- New Business
  - Directory
- Recognition
- Adjourn

Election of Directors *(even numbered Districts)*

District # 2 (LL 35-78)	Jesse Lawrence Karen Lawrence	Jackie Rumer
District # 4 (LL 116-202)	Jim Frenchy	Pete Spaulding
District # 6 (LL 355-389A)	Charlotte Anderson Patricia Cady	Gary Storandt
District #8 (LL 533-560)	Bob Brockman	Patty Hargrave
District #10 (LL 721-756)	Dave DeAngelis	Ron Mueller
District #12 (LL 785-819)	Walker Johnson	Dan Lohens
District #14 (LL 855-881)	Mike Barrett	Dave Sherbula
District #16 (LL 912-950)	*	
District #18 (MH 1-129)	Eric Rullman	Lynette Rullman
District #20 (LB 3-52)	Mark Weseman	

* *District #16 will be covered by Peg Eggert & Jane Larsen of District #15*

Treasurer's Report

Lauderdale Lakes Improvement Association
Walworth County, Wisconsin
Protecting, improving and adorning the Lauderdale Lakes and its shores
established 1902

Lauderdale Lakes Improvement Association
Balance Sheet
As of June 6, 2018

	Mar 31, 18	Jun 6, 18
ASSETS		
Current Assets		
Checking/Savings		
Peoples Bank		
Certificates of Deposit		
Peoples Bank CD 11/05/19 1.0%	5,355	5,355
Peoples Bank CD 4/5/19 1.0%	5,269	5,269
Peoples Bank CD 7/6/17 0.5%	5,295	5,295
Peoples Bank CD 8/6/18 1.0%	5,275	5,275
Total Certificates of Deposit	21,195	21,195
Peoples Bank Checking	22,755	29,489
Total Peoples Bank	43,949	50,683
Edward Jones		
Certificates of Deposit		
Discover Bank CD 7/7/21 2.84%	0	4,810
Capital One BK CD 4/19/21 2.25%	4,981	4,981
Goldman Sachs CD 9/2/20 2.25%	5,041	5,041
AM Expr Cent BK CD 4/6/20 1.9%	5,000	5,000
Ally Bank CD 11/18/19 1.4%	10,000	10,000
BMW Bank of NA CD 4/25/19 1.9%	5,088	5,088
Discovery Bank CD 8/28/18 1.9%	5,014	5,014
Discover Bank CD 4/9/18 1.15%	5,001	0
Total Certificates of Deposit	40,126	39,934
Money Market	5,497	6,058
Total Edward Jones	45,623	45,993
Total Checking/Savings	89,573	96,676
Total Current Assets	89,573	96,676
TOTAL ASSETS	89,573	96,676
LIABILITIES & EQUITY		
Equity		
Retained Earnings	85,655	85,655
Net Income	3,918	11,021
Total Equity	89,573	96,676
TOTAL LIABILITIES & EQUITY	89,573	96,676

Checking Account held at Advia Credit Union

4 Year Operating Reserve held in CD Ladder at Edward Jones and Advia Credit Union

Current Year Net

Lauderdale Lakes Improvement Association
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Lauderdale Lakes Improvement Association
Profit & Loss
January 1 through June 6, 2018

	Jan 1 - Jun 6, 18
Income	
LL Signs	60
Contribution	350
Fish Stocking	
Fishapalooza	3,141
Fish Jamboree	150
Fish Stocking - Other	4,918
Total Fish Stocking	8,209
Investment Income	
Dividend Income	25
Gain (Loss) on Investments	-1
Interest Income	398
Total Investment Income	422
Membership Dues	
Lake Preservation Fund	2,000
Membership Dues - Other	13,155
Total Membership Dues	15,155
Sales- small items	
Directory	17
History Books	45
Total Sales- small items	62
Total Income	24,258
Expense	
Donations	7,400
Meeting expenses	
Director Meetings	27
Total Meeting expenses	27
Memberships and Conferences	
Conferences	399
Memberships	950
Total Memberships and Conferences	1,349
Office expenses	859
Postage and Delivery	917
Printing and Reproduction	1,969
Professional Fees	
Data Updates	500
Professional Fees - Other	0
Total Professional Fees	500
Web Site	216
Total Expense	13,237
Net Income	**11,021**

Fish Stocking Budgeted at $7,000

Lake Preservation Reserve $7296

370 Members YTD with 550 Goal

Budgeted Donations

Feb & May Shorelines

Special Presentation: Water Quality

Rachel Sabre – WDNR Water Resource Management Specialist

Water Quality Data & The Citizen Lake Monitoring Network

For Lauderdale Lakes Improvement Association Annual Meeting June 9, 2018

By: Rachel Sabre

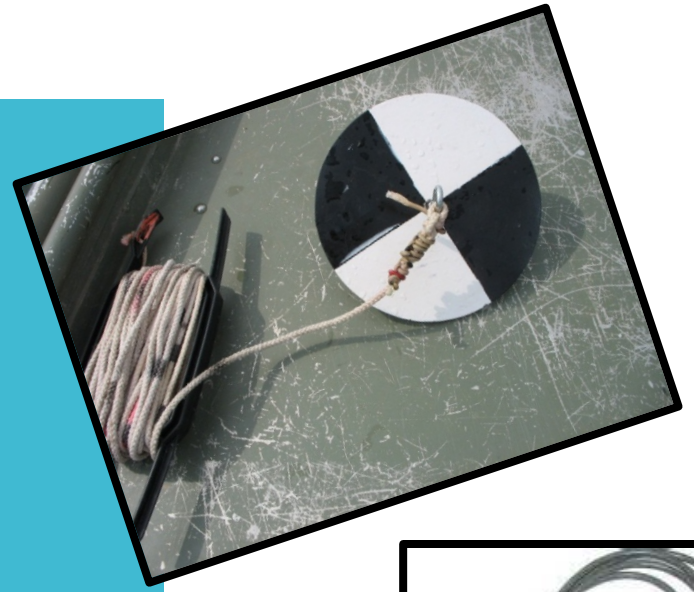
WDNR, Water Resources Management Specialist

A huge heartfelt THANK YOU to all that have helped monitor on Green, Middle and Mill Lakes over the years with the Citizen Lake Monitoring Network:

Dave DeAngelis, Mark Cursio, Jeff Vogt Bud Vance, Pete Spaulding, Charlie Lawrence, Roger DuClos and many more…

The Department could not collect all this important monitoring data without the help of volunteers like you!!

CLMN
Data Collected



Lauderdale Lakes:

Green Lake
Middle Lake
Mill Lake

Google Earth Image 9/8/2008

What are Phosphorous and Chlorophyll?

- **Phosphorus** – a chemical element.
- Found in human and animal waste, soil erosion, detergents, septic systems, lawns and farm runoff.
- Plants love it!

- **Chlorophyll** - a green pigment found in cyanobacteria and the chloroplasts of algae and plants.
- Likes P and sunlight.

Mixing and Stratification

Mixing – circulation of the water.

Initiated by wind, topography, inflow from streams and/or cold water.

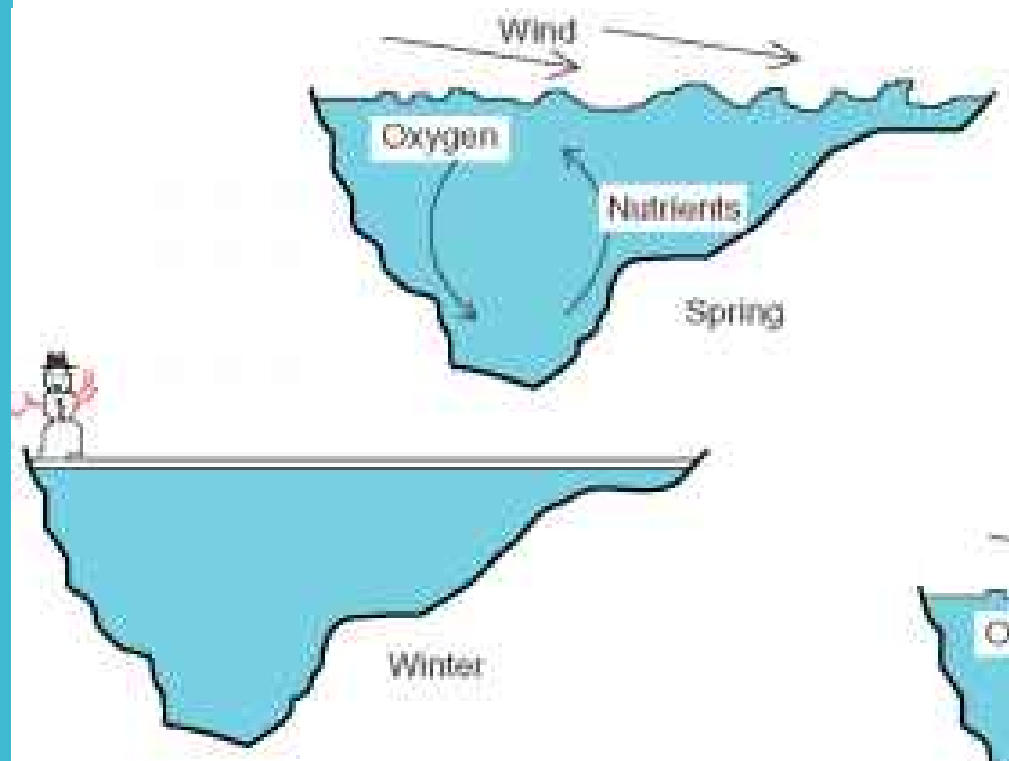
Stratification – layering of water columns

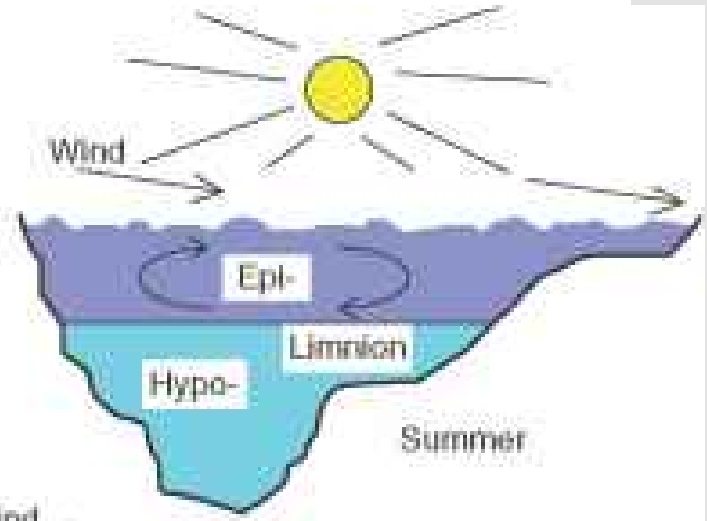
Usually occurs at lakes greater than 20 feet deep.

But can depend on lake size and location in the landscape.

Summer – warm water on top

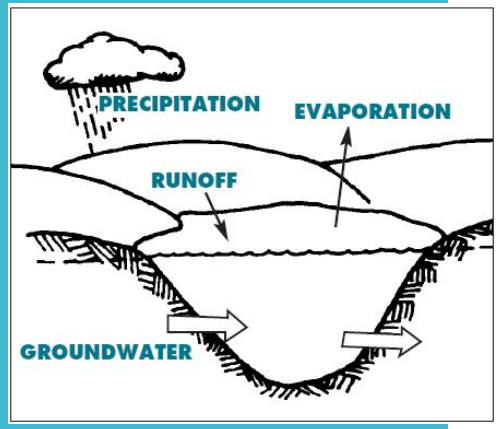
Winter - warmer water on bottom



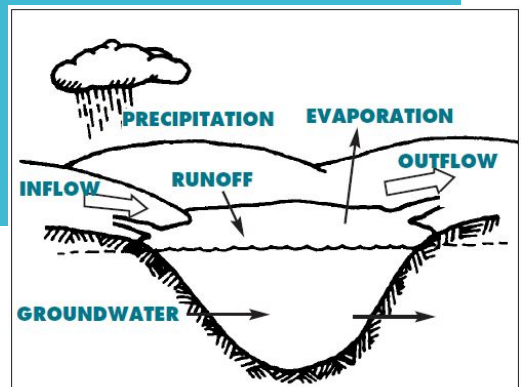


Understanding your data

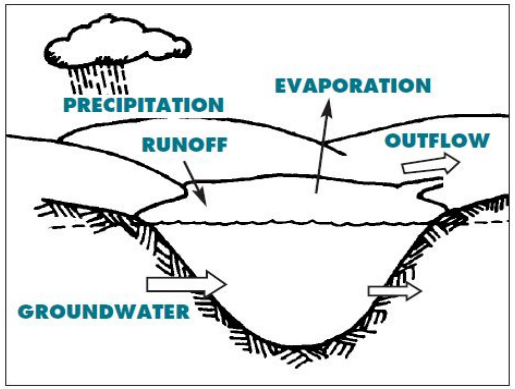
Seepage Lakes –fed mainly by precipitation and runoff, no inlet or permanent outlet. Low in nutrients, are acidic and susceptible to acid rain.



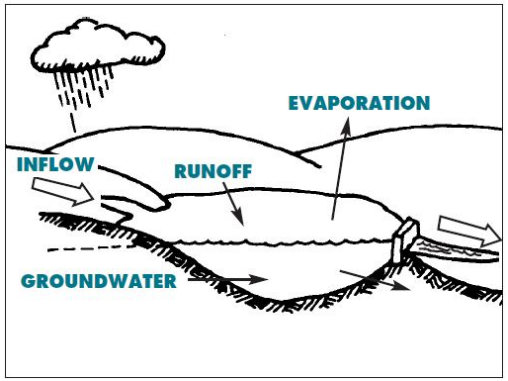
Drainage Lakes – Fed by groundwater, rain, and runoff. Have an inlet and an outlet. Water quality can be highly variable.



Groundwater Drainage Lakes – fed by groundwater, precipitation, and limited runoff. Have a permanent outlet but no inlet. Contain low to moderate amounts of nutrients, are usually buffered by acid rain.



Impoundments – man-made by dams. Typically have higher nutrient loads, due to land use practices in the stream/river.



What is the Trophic State Index

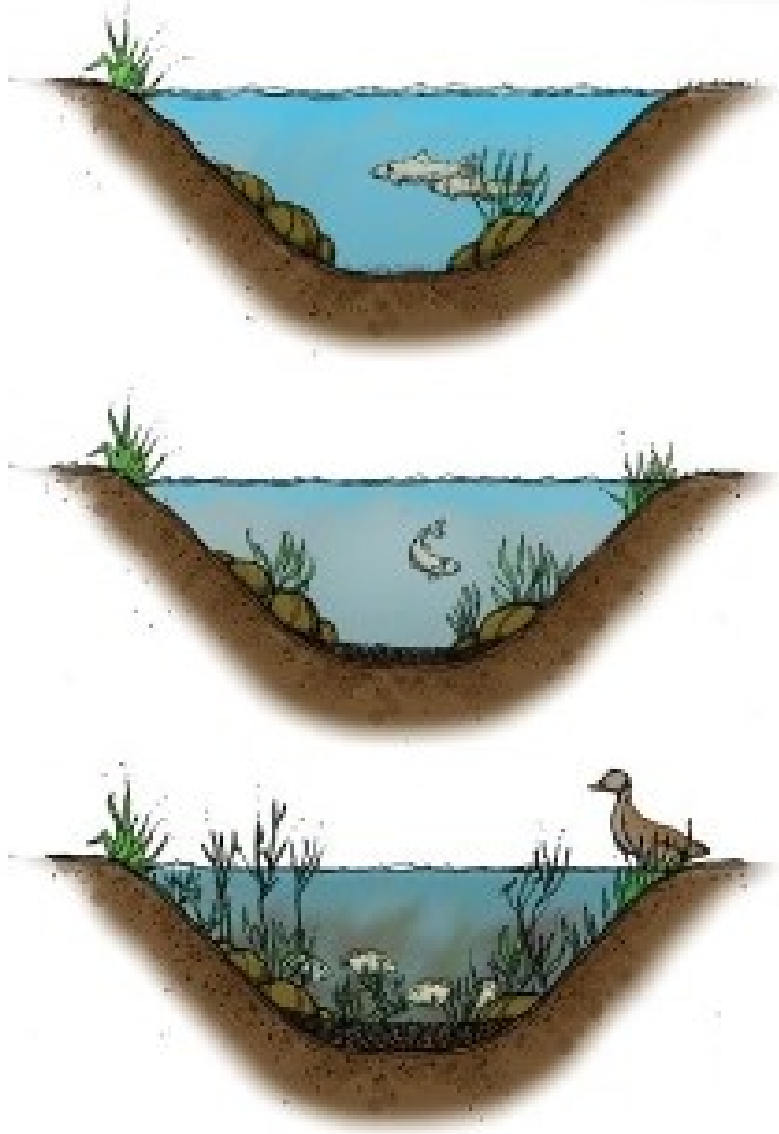
A measure of nutrient enrichment in the lake using secchi, P, and Chl calculations.

$$\left(\frac{1}{z}\right)\left(ln\frac{I_0}{I_z}\right) = k_w + \alpha C$$

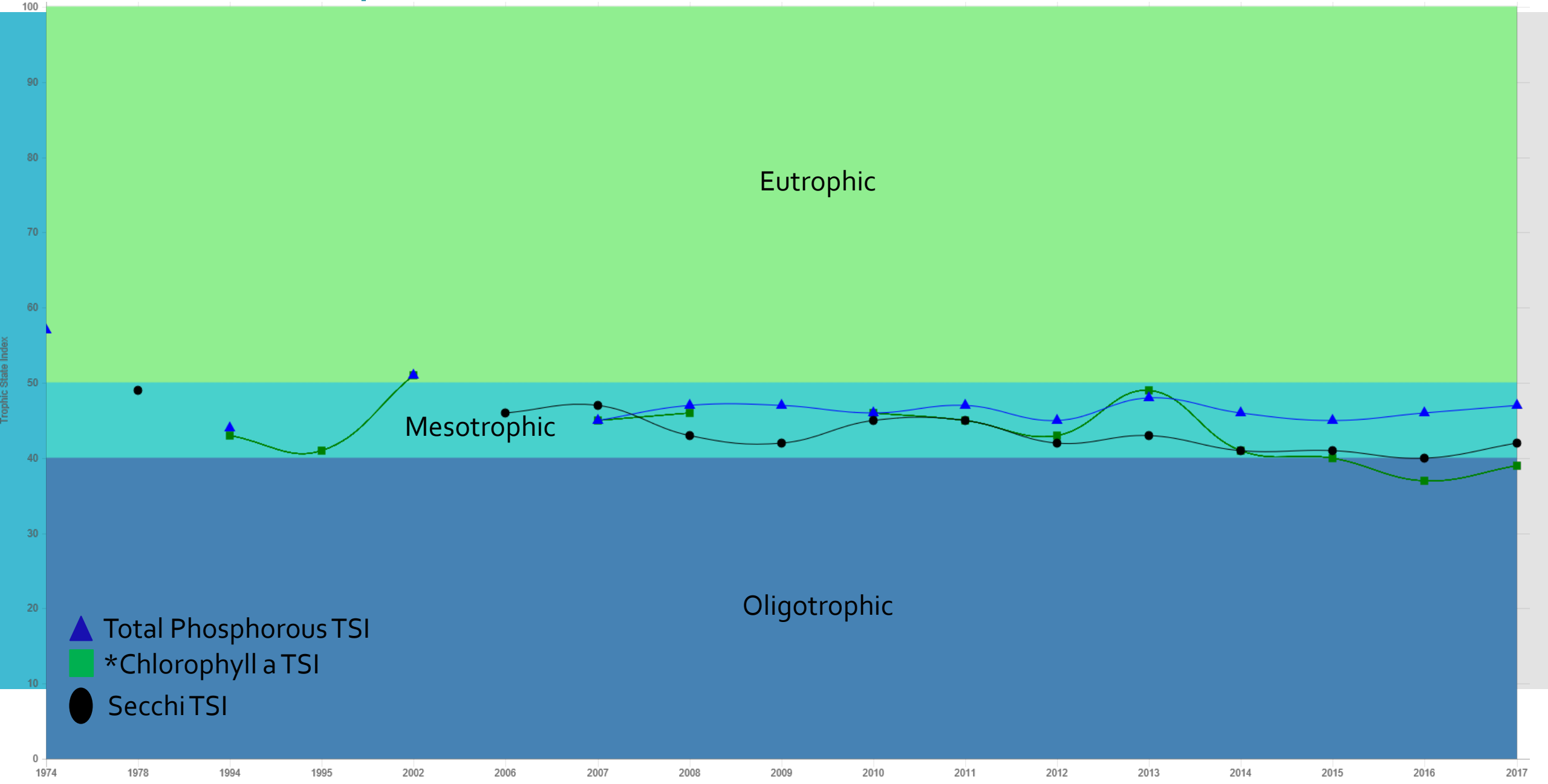
TI	Chl	P	SD	Trophic Class
<30—40	0—2.6	0—12	>8—4	Oligotrophic
40—50	2.6—20	12—24	4—2	Mesotrophic
50—70	20—56	24—96	2—0.5	Eutrophic
70—100+	56—155+	96—384+	0.5—<0.25	Hypereutrophic

Three main categories of TSI

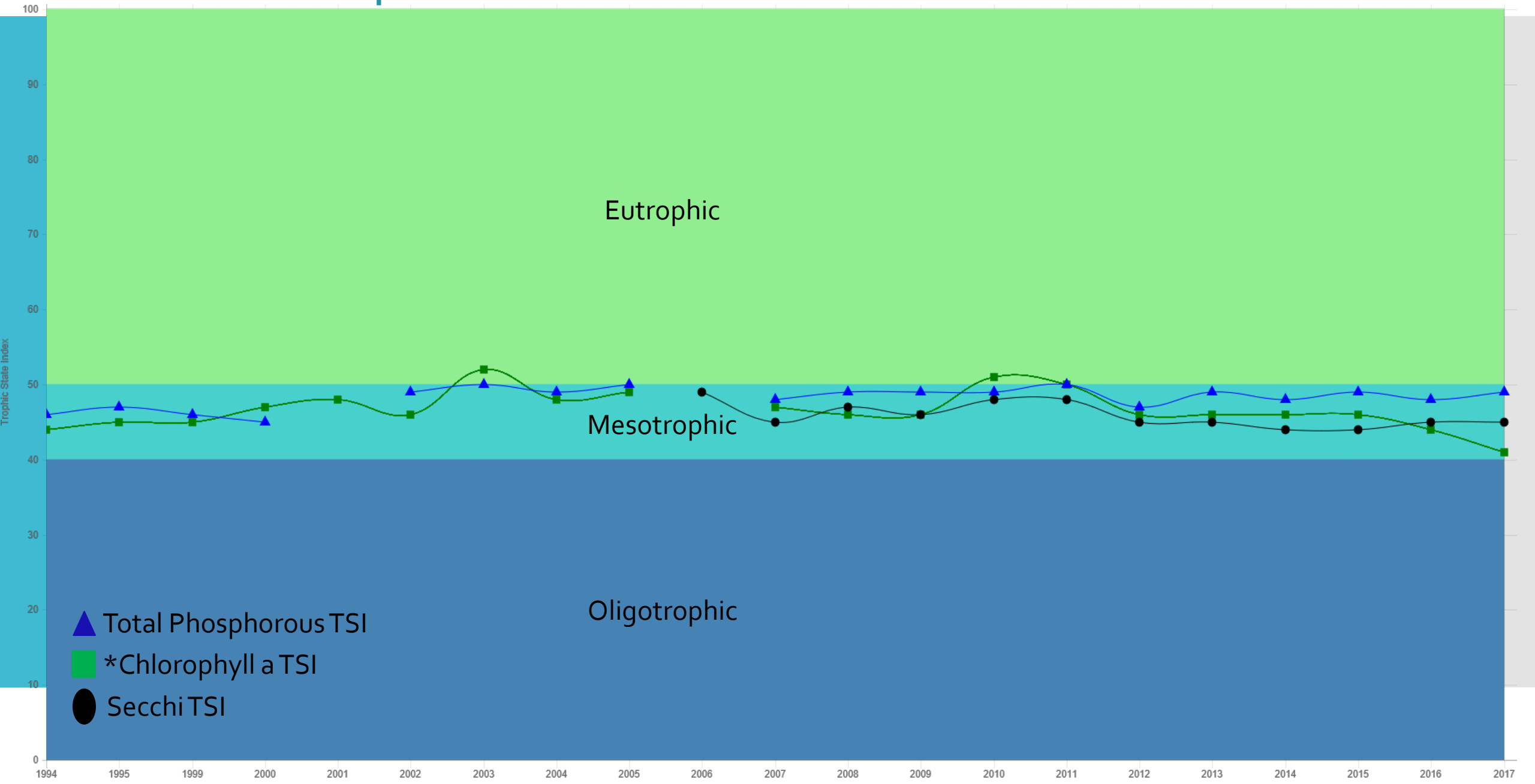
- Oligotrophic – Low levels of organic matter – tend to be deep and clear , oxygen rich bottom supports cold water fish such as trout , Phosphorus is limiting
- Mesotrophic – more organic matter, oxygen level in lake bottom is low
- Eutrophic- High levels of organic matter – abundant plant growth , poor clarity , stratified with oxygen poor bottoms



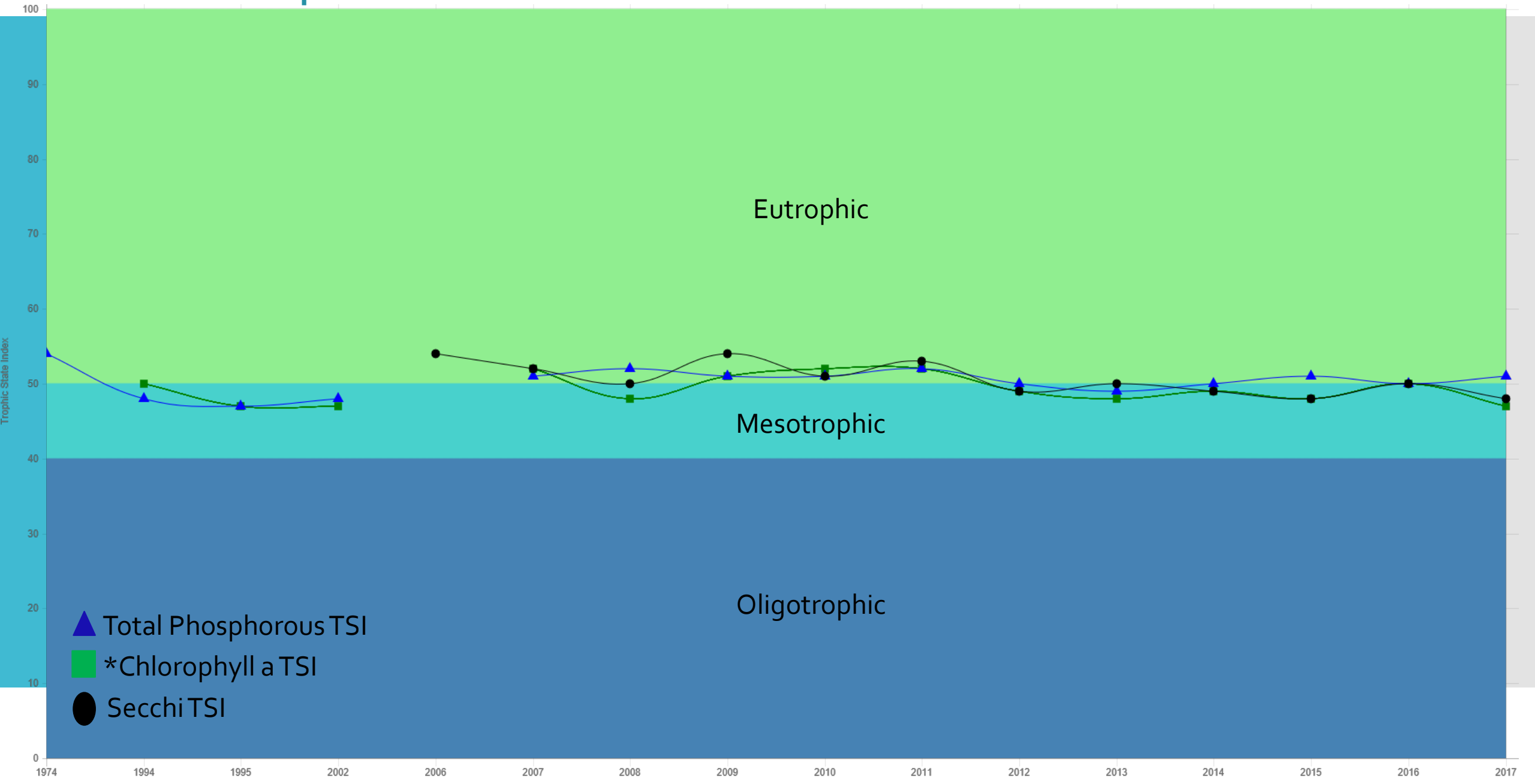
Green Lake Trophic State Index



Middle Lake Trophic State Index



Mill Lake Trophic State Index



What does the DNR do with the data?

- All of the data CLMN volunteers collect goes directly into the DNR's database (called "SWIMS").
- Every 2 years, DNR runs automated assessments on all of the data in SWIMS, for phosphorus, chlorophyll, and Secchi depth.
- Your lake's values are compared to the statewide thresholds to see what condition your lake is in.

  Is its water clarity:

  Is it supporting recreation and the fish community?

  Should it be put on the ***Impaired Waters List*** so management actions can be pursued?

What does the DNR do with the data…continued

Impairment thresholds are set for both TP and Chl a based on lake type.

Thresholds set for Fish and Aquatic Life (FAL)and Recreation.

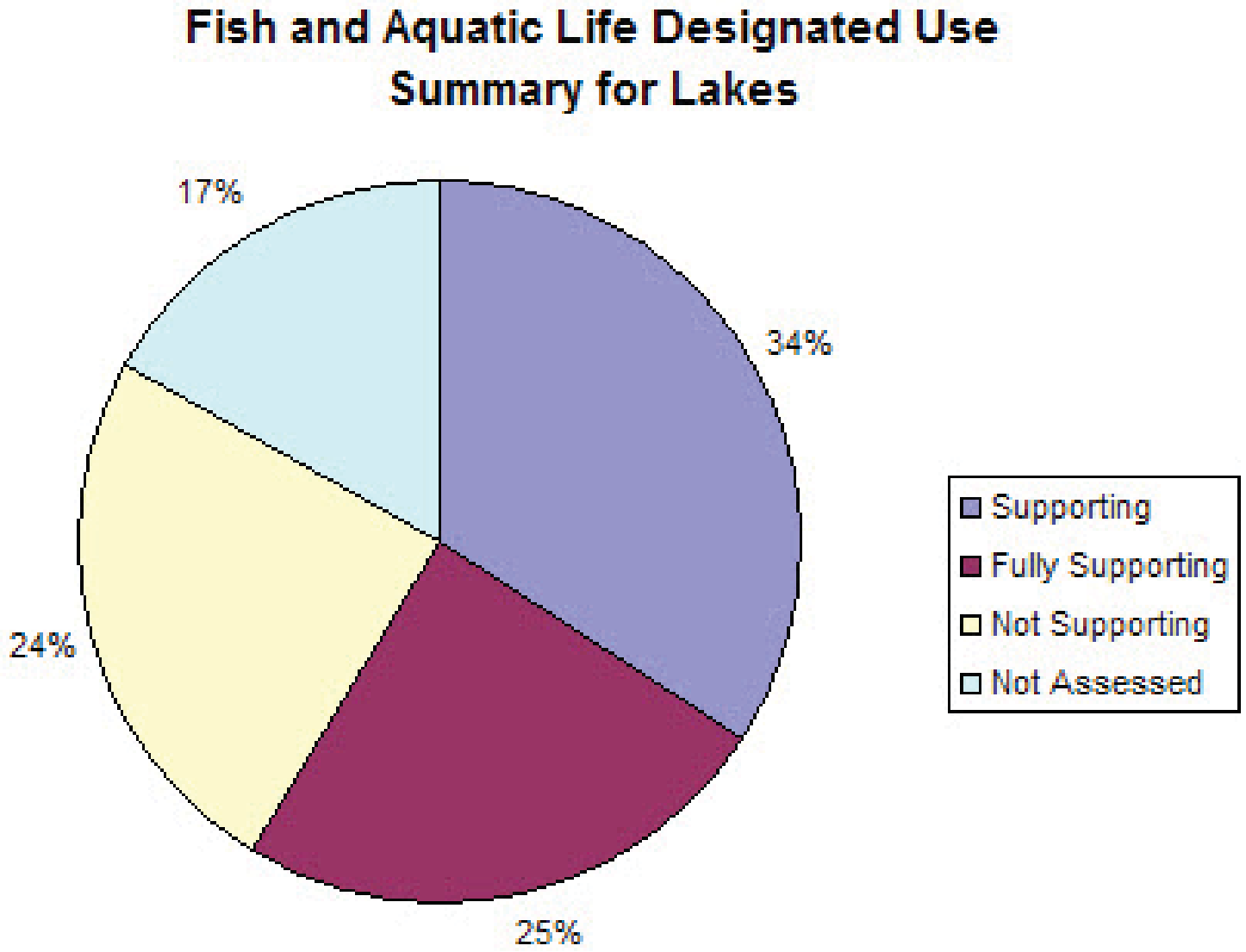
Threshold for FAL is higher

	Impairment Thresholds by Lake Type						
	Shallow			Deep			
Assessment Type	Headwater Drainage	Lowland Drainage	Seepage	Headwater Drainage	Lowland Drainage	Seepage	Two-Story Fishery
TP REC	≥40 ug/L			≥30 ug/L		≥20 ug/L	≥15 ug/L
TP FAL	≥100 ug/L			≥60 ug/L			≥15 ug/L
CHL FAL	≥60 ug/L			≥27 ug/L			≥10 ug/L
CHL REC	>30% of days > 20 ug/L chl a			>5% of days > 20 ug/L chl a			

***Nuisance algal blooms are defined as > 20 ug/L of chl a**

What does the DNR do with the data… continued?

WDNR also looks at how Wisconsin's lakes are doing on a statewide scale.

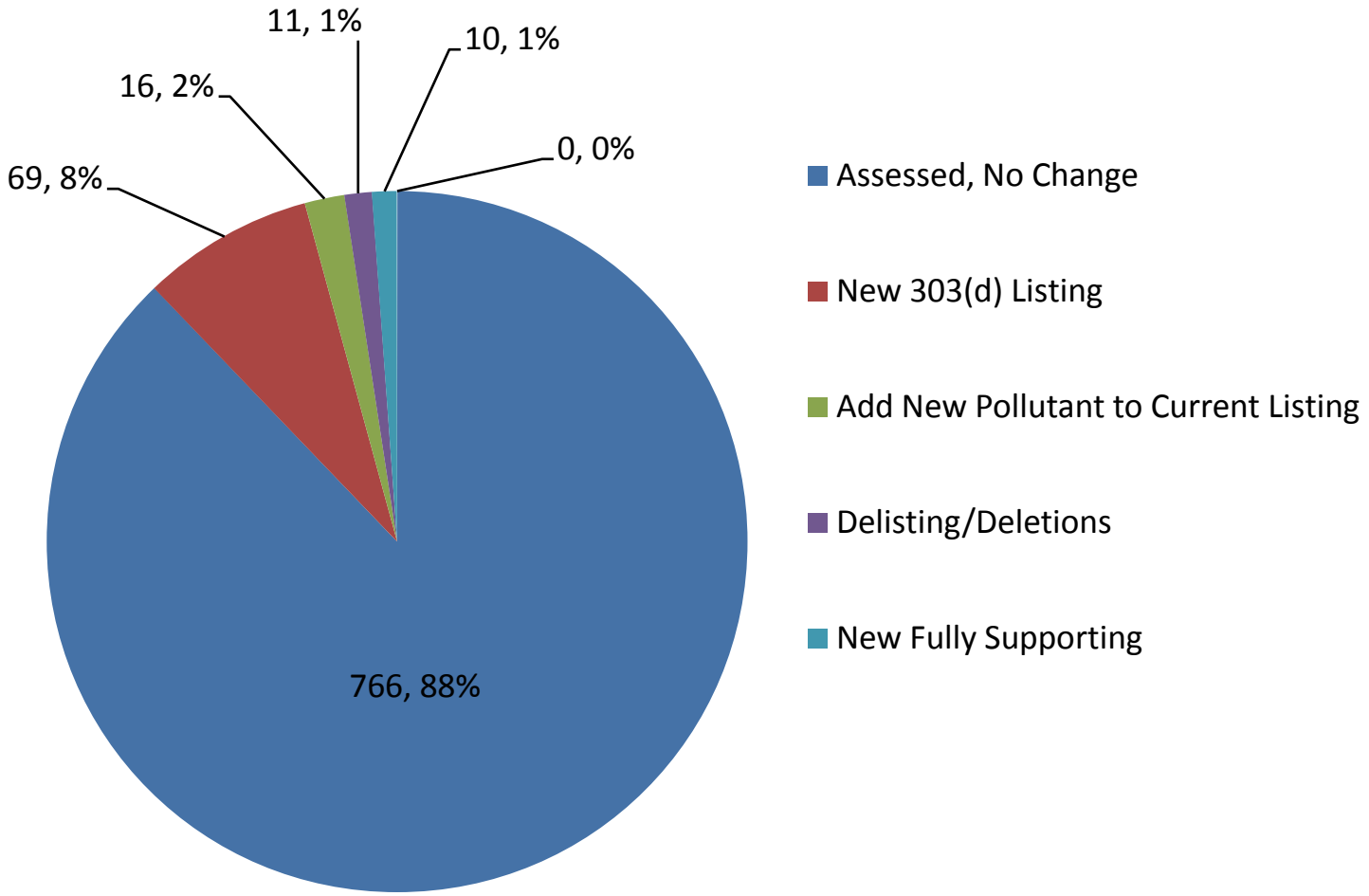


2016 Lake & Reservoir Assessments

Over 800 lakes or reservoirs were assessed

Of these, 115 were draft impaired waters listing changes that were reviewed by biologists

After biologists review, 96 impaired waters listing changes were made, including 69 newly listed lakes or reservoirs



How is the data used nation-wide?

Our results are summarized into a report, reviewed by DNR biologists and the public, and sent to the federal Environmental Protection Agency (EPA).

When EPA gets Wisconsin's data, it reviews & approves it.

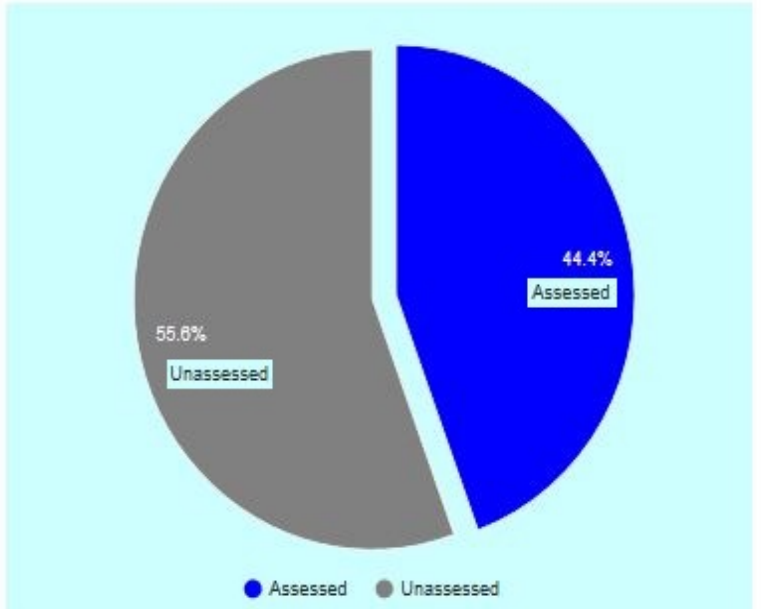
Your data goes into a national database.

Once EPA has all the states' data, it is all compiled into a "National Water Quality Inventory Report to Congress".

National Summary
Water Quality Attainment in Assessed Lakes, Reservoirs, and Ponds

Description of this table

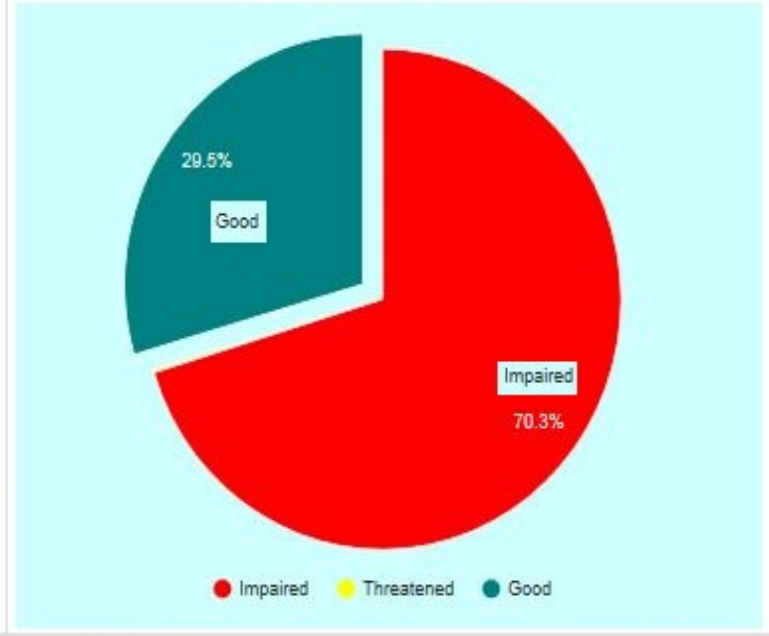
All
Lakes, Reservoirs, and Ponds



Assessed Status	Acres
Assessed	18,513,819
Unassessed	23,152,230
Total Acres	**41,666,049**

Description of this table

Assessed
Lakes, Reservoirs, and Ponds



Attainment Status	Acres
Good	5,470,004
Threatened	34,621
Impaired	13,009,194
Total Acres Assessed	**18,513,819**

How is the data applied locally?

Lake Associations can use the data to decide on the best protection or restoration strategies for their lakes.

They can use the data:

- To apply for Lake Management Grants
- For Aquatic Plant Management
- For education of homeowners around the lake

DNR uses data for Watershed Plans, to recommend management options.

Data used to develop pollutant reduction plans (known as Total Maximum Daily Load analyses, or TMDLs) created by third party or DNR.

Information about each lake is published on DNR's website.

Questions?

CLMN Contact Info:
Rachel Sabre- Southeast & South Central
(262) 574-2133
Rachel.Sabre@Wisconsin.gov

Special Presentation:

Lauderdale Lakes Lake Management District Update

Photo courtesy of Brenda Wisniewski

Jack Sorenson – Lake District Board Chairman

Special Presentation: New LLIA Web Site

Kevin Henderson – LLIA Web Site Committee Chair

Special Presentation: Roles of Organizations at Lauderdale Lakes

Debbie Ferrari – LLIA President

Government Units

LL Lake Management District
(est 1991)

Funding: tax levy & charges, user fees, DNR grants & reimbursements, Town of LaGrange

- Lauderdale Lakes Country Club & Community Center
- Water Safety Patrol
- Weed Harvesting
- Dam
- Septic pumping
- Pier inspector
- Clean Boats Clean Waters
- Identify, monitor & manage pollutant sources

Communications: *District Dialogue*

Other Government Units Impacting Lake Community:
Towns of LaGrange & Sugar Creek
Walworth County
State of Wisconsin

Community Organizations

LL Improvement Association
(est 1902)

Funding: annual memberships, donations & Directory advertisers

- Monitor water quality
- Annual fish stocking / habitat
- Support water safety
- Preserve natural habitat
- Communication includes all groups
- Monitor legislation impacting lake; engage where appropriate
- Document history of lake area

Communications: *Shorelines & Lauderdale Lakes Directory*

Kettle Moraine Land Trust
(est 2000)

Funding: annual memberships, donations & private grants

- Originally Lauderdale Lakes Conservancy
- Accredited land trust serving Walworth County
- Owns & maintains 4 preserves, holds conservation easements & partners with DNR and County to maintain additional properties
- Connects people with nature & education activities for all ages

Communications: *Nature News*

Social / Special Interest

LL Yacht Club
(est 1953)

Funding: annual memberships, event fees, donations

- Numerous social events on and off lake
- Annual 4th of July fireworks display

Communications: *The Flag Hoist*

LL Sailing Club
(est 1968)

Funding: annual memberships, event fees, donations

- Race each Sunday from first Sunday in June to Labor Day
- Social events

Communications: via website

Other Social/Special Interest Groups:
Lauderdale Lakeriders (snowmobiling)
LAS Water Ski Team

QUESTIONS?

- Committee Chairs
  - Communication……Open
  - Fish……Jim “Corky” Corcoran
  - History……Kathryn Ingle Calkins
  - Membership……Open
  - Nominating……Jim Dion
  - Planning & Zoning……Don Henderson
  - Property……Ron Mueller
  - Water Quality……Dave DeAngelis
  - Water Safety……Debbie Ferrari
  - Web Site……Kevin Henderson

The home stretch…

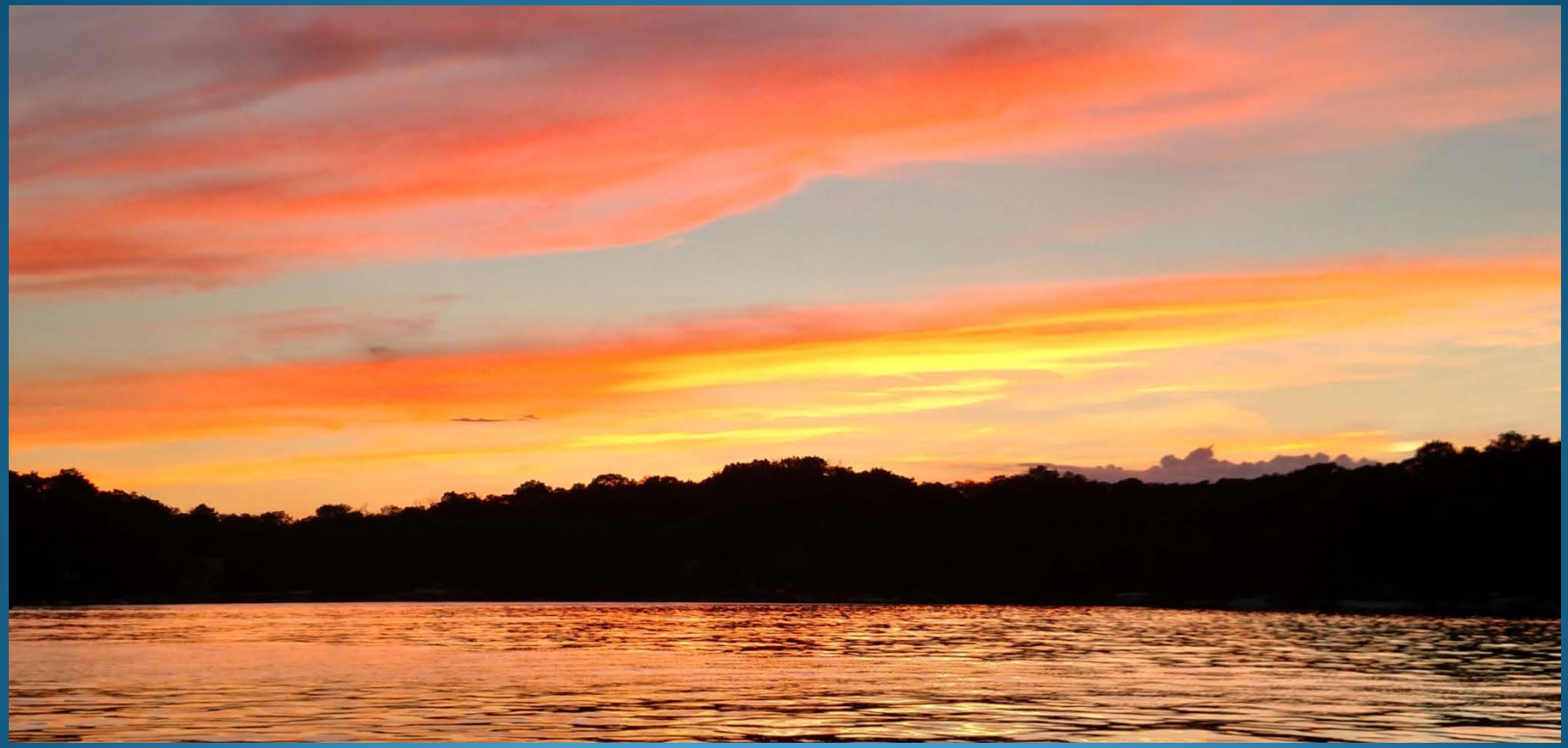
- Unfinished Business
- New Business
  - 2019 – 2021 Directory
- Recognition

Thank you!

- Bud Vance, Editor & Published of Shorelines 1999-2018

- Brian Walsh, Fish Committee Chair 2011-2017

ADJOURN



ENJOY YOUR SUMMER!