

Big Thunder Lake

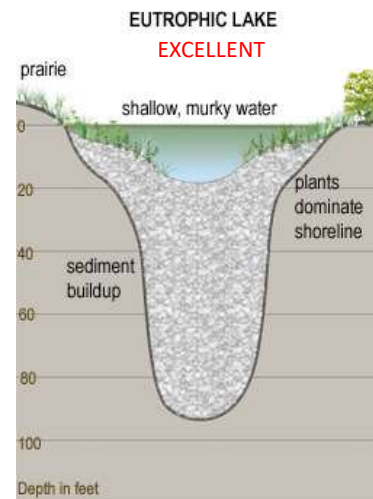
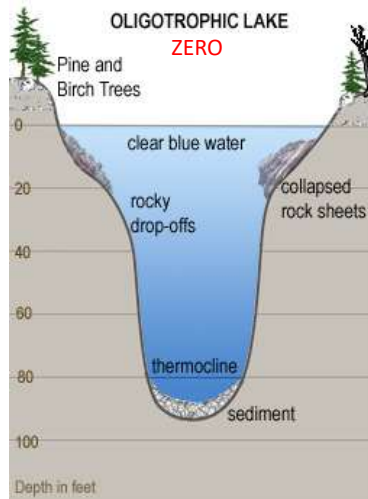
Water Quality Monitoring



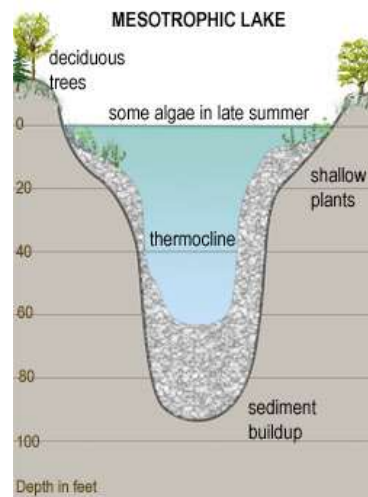


Lake *Trophic* States

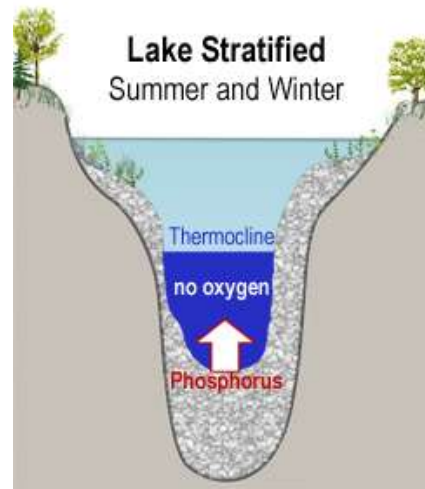
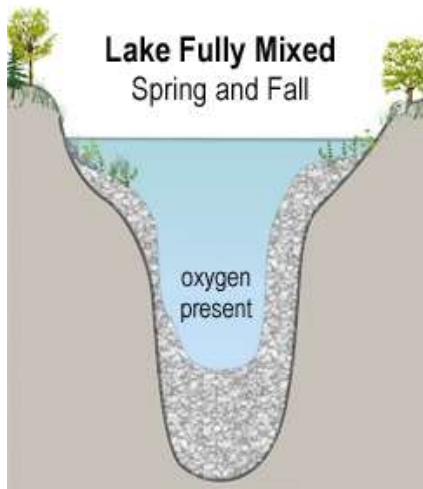
"NUTRITION"



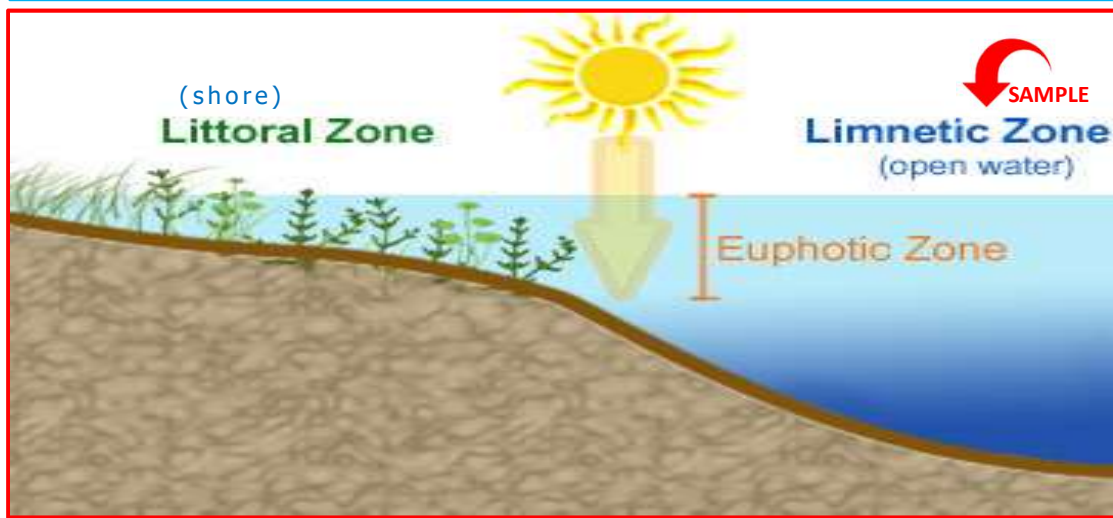
Big Thunder Lake



Seasonal Conditions

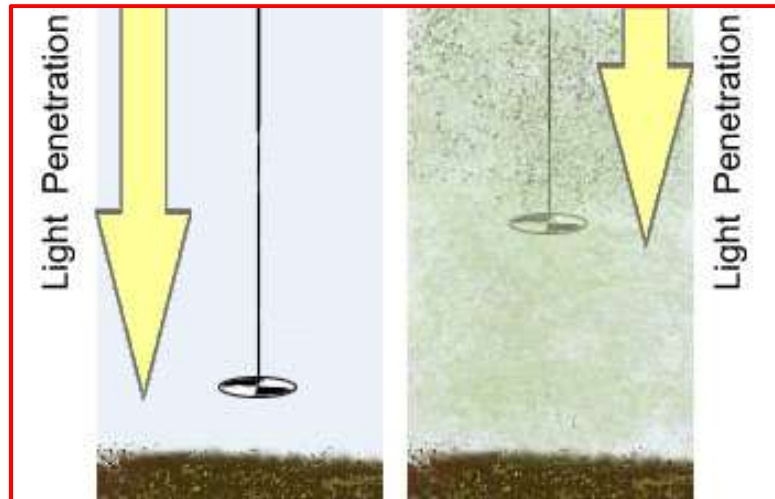


Euphotic (Sunlight) Zone



SECCHI DISK READING

Water Transparency



Collection Tools

SECCHI DISK



THERMOMETER



Collection Tools

2 METER TUBE

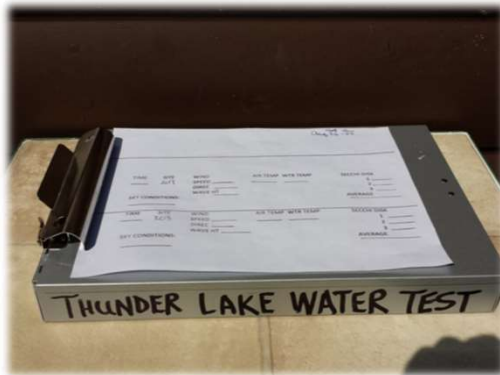


3 BOTTLES



Collection Tools

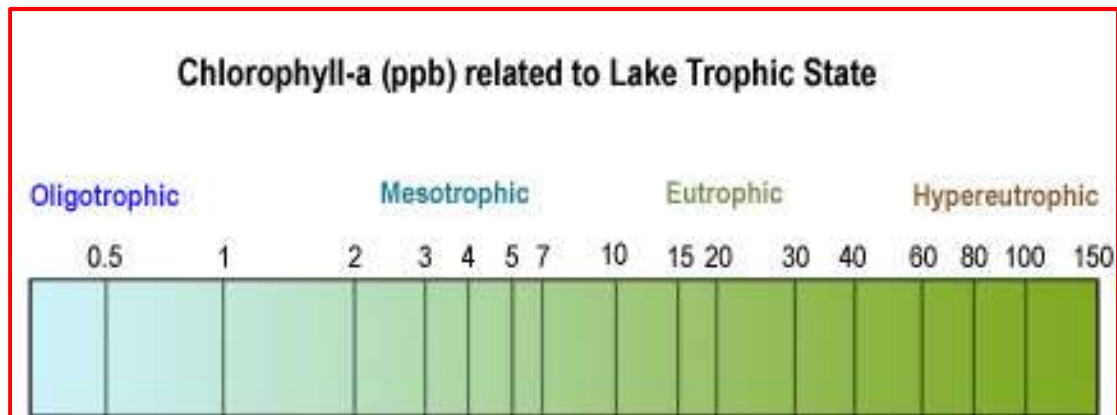
CLIPBOARD



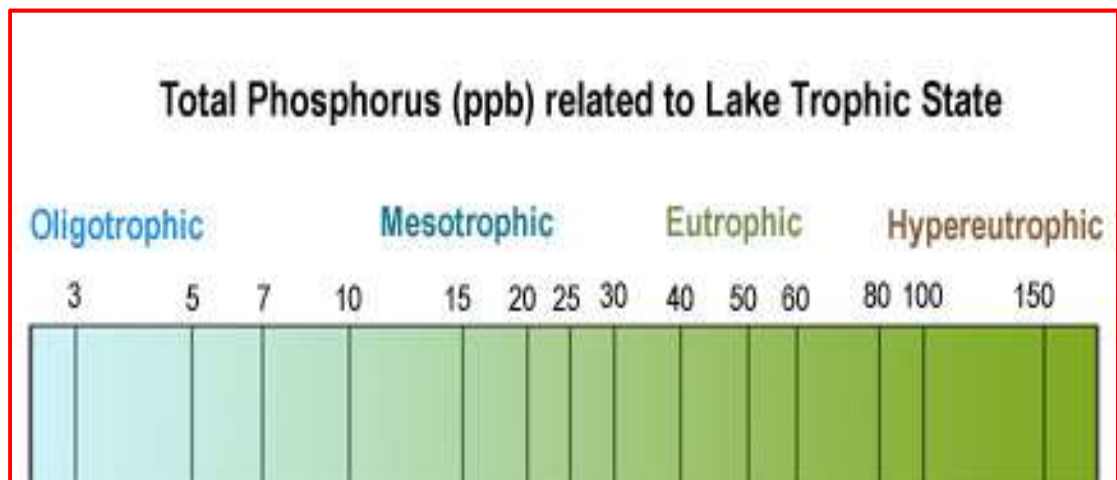
BOAT with ANCHOR



Chlorophyll-a Correlation

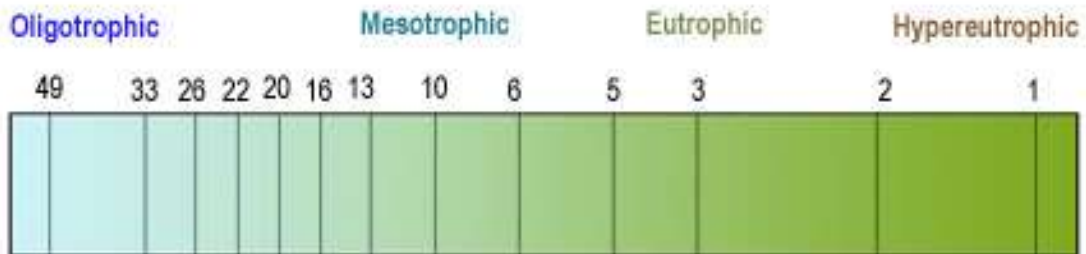


Total Phosphorous Correlation

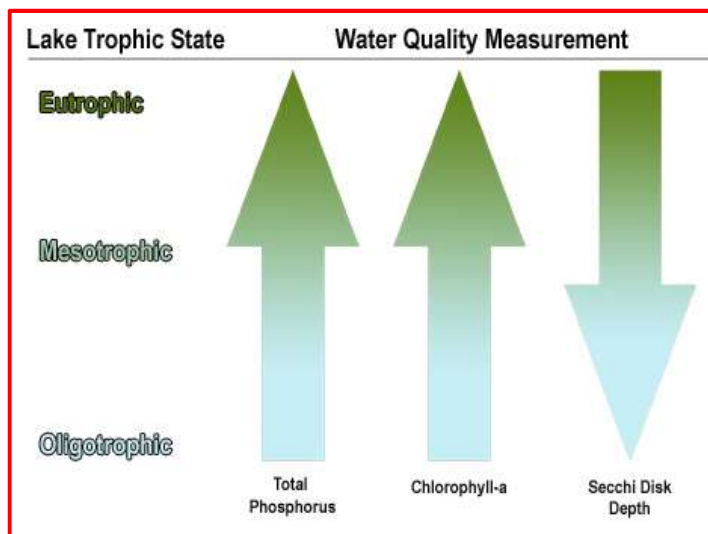



Transparency Correlation

Transparency (Secchi depth, ft) related to Lake Trophic State



Parameter Correlation






**Regional Monitoring
Benthic**


San Diego County, NM 92051
San Diego County, NM 92051
Phone: (619) 281-8840
Email: dm@rmbn.org

Observational Data

Physical Condition / Recreational Suitability



Please fill out this form for each waterbody you go to during data day (the days you collected water). The information will be used for the RMBN website and is used to determine how users perceive lakes for recreational water use. (For instructions on how to record observations, watch video #3 on our website www.rmbn.org)

Weather Conditions / Record observations for		Wind Direction		Weather	
Wind Speed	<input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Strong	<input type="checkbox"/> North <input type="checkbox"/> Northeast <input type="checkbox"/> Southeast <input type="checkbox"/> South <input type="checkbox"/> Southwest <input type="checkbox"/> West <input type="checkbox"/> Northwest		<input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Mostly Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Snow	<input type="checkbox"/> Surface Water Temp (°F) <input type="checkbox"/> Air Temp (°F) <input type="checkbox"/> Humidity % <input type="checkbox"/> Wind Speed (mph) <input type="checkbox"/> Wind Direction (degrees)

Physical Condition/Recreation Suitability

Water Color	Physical Condition	Recreational Suitability	Lakes Used	Erosion	Shoreline Permeability
<input type="checkbox"/> Clear <input type="checkbox"/> Green <input type="checkbox"/> Brown <input type="checkbox"/> Turbidity <input type="checkbox"/> Teal/mud	<input type="checkbox"/> Cloudy/Dark <input type="checkbox"/> Some algae <input type="checkbox"/> No algae <input type="checkbox"/> High algae <input type="checkbox"/> Lowest algae	<input type="checkbox"/> Beautiful <input type="checkbox"/> Good <input type="checkbox"/> Slightly degraded <input type="checkbox"/> No swimming <input type="checkbox"/> No swimming <input type="checkbox"/> Possible	<input type="checkbox"/> Swimming <input type="checkbox"/> Canoeing <input type="checkbox"/> Kayaking <input type="checkbox"/> Fishing <input type="checkbox"/> Boating	<input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Minor <input type="checkbox"/> Agriculture <input type="checkbox"/> Pasture <input type="checkbox"/> Private Access	<input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input type="checkbox"/> Minor <input type="checkbox"/> Agriculture <input type="checkbox"/> Pasture <input type="checkbox"/> Private Access

Field Comments:

From how comments, please contact us (at dm@rmbn.org, 219-281-8840, or write a letter in the comments box above. Sample results will be posted on our Lakes Monitoring Program website within approximately 7-10 days of sample receipt. All the data you provide will be posted on the RMBN's internet database (RMBN).

***Name you put for participating in the Lakes Monitoring Program**

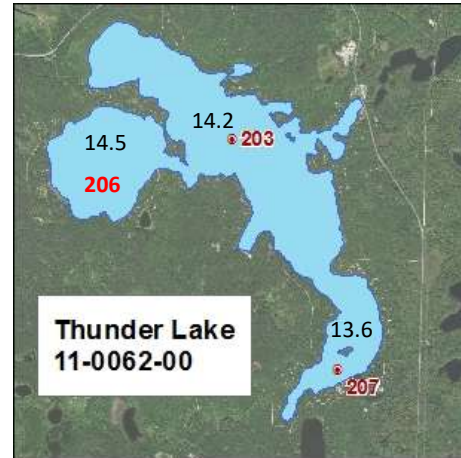
Monday Delivery



To Longville
by 9 am

Lakes Monitoring Information

- <https://www.rmbel.info/data/>
 - Links
- MPCA CLMP Historical Secchi Data
- MPCA Assessment Report



THANK YOU
For
LISTENING

LOON NEST PROJECT



LOON'S NEST VIEW OF A BOAT WAKE



"It's One of Those Heavy Traffic Days Kiddo"



FLOATING LOON NEST THOUGHTS

- Cash Luck Donation
- Project Leader
- Volunteers
 - Design Decisions
 - Annual Maintenance
- Nest Location
- Nest Placement
- Nest Numbers
- <https://cabinlife.com/articles/article/help-keep-loons-on-your-lake>



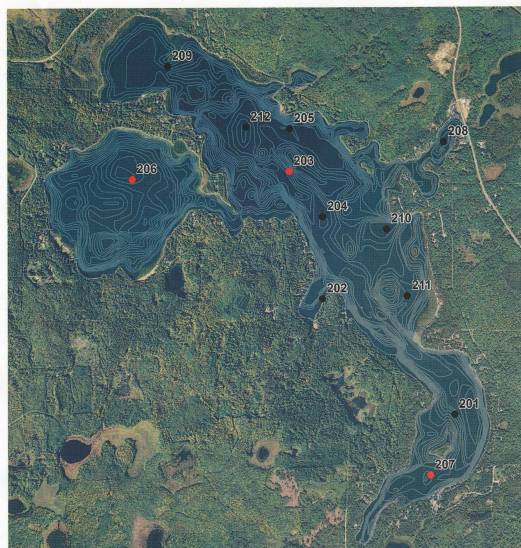
Artificial Nesting Platform



FLOATING LOON NEST +



22 lb. Donated Anchor from Lowell Shephard



ORGANIZATION: Thunder Lake Association
PROJECT: Lake Monitoring
LAKE NAME: Thunder
MN LAKE ID #: 11-0062-00
SITE ID #: 203 LAT/LONG (decimal degrees): 46.956704, -93.972656
SITE ID #: 206 LAT/LONG (decimal degrees): 46.955954, -93.990412
SITE ID #: 207 LAT/LONG (decimal degrees): 46.933287, -93.956368

0 0.4 0.8 Miles

