

## Worcester Cyanobacteria Monitoring Collaborative

	WCI Phycoyanin	VIC Results June 26, Particle	2025		
Lake and Overall Risk	Concentration (ug/l)	Concentration (#/ml)	Cyanobacteria Density	Cyanobacteria Observed	Notes
Bell Pond	ND	11	none		
Burncoat Pond	No Data	1299	low	Aphanizomenon	Overall exposure risk not ra due to insufficient data
Coes Reservoir	16	380	high	Aphanizomenon, Dolichospermum	
Cooks Pond	11	255	none		
Ecotarium Pond	ND	102	none		
East Lake Waushacum	ND	10	none		
Farm Pond	ND	11	none		
Green Hill Park Pond	225	61	some	Aphanizomenon , Dolichospermum, Microcys	tis Debris
Indian Lake	ND	68	some	Microcystis , Microcystis Debris	
Jordan Pond	23	45101	high	Dolichospermum , Microcystis Debris	
Kiver Pond	11	1675	some	Microcystis	
Leeseville Pond	16	309	none		
Lake Quinsigamond	ND	244	low	Aphanizomenon, Dolichospermum	
Little Indian Lake	26	1976	low	Microcystis	
Manchaug Pond	ND	18	low	Microcystis Debris	
Newton Pond	ND	100	some	Dolichospermum , Microcystis Debris	
Patch Pond	34	43	some	Aphanizomenon	
Patch Reservoir	9	98	low	Aphanizomenon	
Salisbury Pond	24	1203	some	Micrcystis, Microcystis Debris	
Stevens Pond	12	57	some	Dolichospermum	
Lake Chauncy	9	46	some	Dolichospermum	
Lake Lashaway	ND	21	some	Microcystis Debris	
	Previous Resu	lts for Lakes Not Te	sted this Period		
Elm Park Pond	134	8881	some	Dolichospermum , Microcystis Debris	Last sampled 6/12/23
Risk of Exposure	Phycocyanin ug/I	Particles/ml	Comparative density of cyanobacteria		
Almost none Low	0-15 15-20	0-1000 1000-5000	none		
Elevated Blooming	20-50 >50	5000-10000 >10000	some high	See reverse side for details	
Results are based on metho	ds that are not certified by the	Commonwealth of MA but are	presented as recommenda	ations so that lake users can make	
		encourage people to use their an an arrive structure and the second structure and the second structure str		doubt, stay out!" ely. If your pet has ingested scums	
ij you or your per nus been e		nobcteria, contact your vetering			



## **Interpreting WCMC Results**

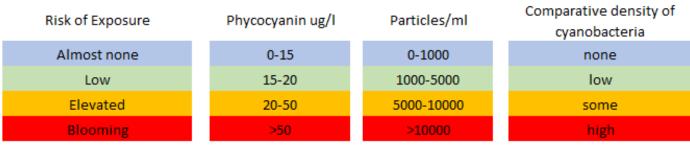
## If you or your pet has been exposed to water that may contain cyanotoxins, rinse with tap water immediately. Do not let animals lick their fur. If your pet has ingested scums or water containing cyanobacteria, contact your veterinarian as soon as possible and see these CDC guidelines:

Cyanobacterial Blooms: Information for Veterinarians | Harmful Algal Blooms | CDC.

The WCMC is a group of volunteer community scientists that is developing ways to assess risk to cyanotoxin exposure using fast and low cost methods. These results are based on methods that are not certified by the Commonwealth of MA but are presented as recommendations so that lake uses can make informed choices about their contact.

## We encourage people to use their best judgement, and "If in doubt, stay out!"

The WCMC does not measure cyanotoxins, instead the group uses four parameters to determine the **risk of cyanotoxin exposure**. These include **phycocyanin concentration**, **particle concentration**, **cyanobacteria density**, and the **cyanobacteria observed**. Each of the results are ranked and given a color to identify severity. The overall risk of exposure at each lake is determined by reviewing all four parameters together.



ND = Below detection limits

**Risk of Exposure:** Overall risk of exposure to cyanotoxins in the waterbody based on a holistic interpretation of the data collected.

**Phycocyanin:** Cyanobacteria-specific pigment concentration in the water. The more phycocyanin there is in the water, the more cyanobacteria are present. However, because different kinds of cyanobacteria produce different quantities of phycocyanin, the risk of toxin production is different for the same concentration of phycocyanin when there are different cyanobacteria present.

**Particle Concentration:** Particles include living and non-living materials and can be a proxy for overall turbidity of the water. High concentrations of particles in the water can be indicative of cyanobacteria blooms, but can also be the result of other factors such as non-living debris and sediment. The phycocyanin concentrations and cyanobacteria density help to interpret if particles are due to cyanobacteria or other sources.

**Cyanobacteria Density:** The ratio of cyanobacteria to other organisms in the sample. Higher densities can indicate elevated risk of exposure to cyanotoxins. Density results do not consider concentration, but in general, systems dominated by cyanobacteria are at higher risk for producing toxins.

**Cyanobacteria Observed:** Genera of cyanobacteria identified in the sample. Because different cyanobacteria have different levels of phycocyanin, observed cyanobacteria help determine the threshold of phycocyanin that is considered risky.