WCMC Results October 3, 2022										
Lake and Overall Risk	Phycoyanin Concentration (ug/I)	Particle Concentration (#/ml)	Cyanobacteria Density	Cyanobacteria Observed						
Bell Pond	ND	639	low	Microcystis debris						
Coes Reservoir	107	8321	high	Woronchinia, Dolichospermum, Aphanizomenon						
Cooks Pond	ND	3894	low	Microcystis debris						
Ecotarium Pond	10	4091	none							
Elm Park Pond	222	19755	high	Microcystis debris						
Green Hill Pond	9	7806	some	Microcystis debris, Dolichospermum						
Indian Lake	10	9019	low	Microcystis debris						
Manchaug Pond	ND	491	none							
Newton Pond	ND	946	low	Aphanizomenon						
Patch Pond	ND	17527	none							
Salisbury Pond	9	3226	none							
Stevens Pond	ND	1450	low	Dolichospermum, Microcystis debris						
Risk of Exposure  Almost none	Phycocyanin ug/l 0-15	Particles/ml 0-1000	Comparative density of cyanobacteria none	Stacteria Monitoria						
Low	15-20	1000-5000	low	STANDARY OF THE PARTY OF THE PA						
Elevated	20-50 >50	5000-10000 >10000	some	See reverse side for details						
Blooming	>50	>10000	high	See reverse side for details						

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!"

If you or your pet has been exposed to water that may contain cyanotoxins, rinse the areas with tap water immediately. If your pet has ingested scums or water containing cyanobcteria, contact your veterinarian as soon as possible.

Learn more at WorcesterMA.gov/WCMC

WCMC Results October 15, 2022									
Lake and Overall Risk	Phycoyanin Concentration (ug/l)	Particle Concentration (#/ml)	Cyanobacteria Density	Cyanobacteria Observed					
Burncoat Pond	93	85611	high	Microcystis, Microcystis debris, Woronichinia, Aphanizomenon					
Cooks Pond	ND	6125	low	Woronichinia, Microcystis debris					
Dark Brook Reservoir	ND	1760	none						
Farm Pond	ND	3990	some	Microcystis debris, Aphanizomenon					
Flint Pond	90	6154	some	Aphanizomenon, Dolichospermum, Microcystis, Microcystis debris					
Green Hill Park Pond	21	12026	high	Woronichinia, Dolichospermum, Microcystis, Microcystis debris					
Indian Lake	29	8308	some	Microcystis, Woronichinia, Dolichospermum, Aphanizomenon, Microcystis Debris					
Jordan Pond	ND	2543	none						
Kiver Pond	61	7491	low	Microcystis debris					
Leesville Pond	ND	2924	low	Aphanizomenon					
Little Indian	65	23100	high	Dolichospermum, Microcystis, Aphanizomenon					
Manchaug Pond	ND	529	none						
Newton Pond	ND	5183	low	Microcystis debris					
Patch Pond	66	4913	low	Dolichospermum, Microcystis, Aphanizomenon					
Lake Quinsigamond	46	3295	high	Dolichospermum, Microcystis debris, Aphanizomenon, Woronichinia					
Stevens Pond	ND	455	none						
East Lake Waushicum	11	2626	some	Aphanizomenon, Woronichinia, Dolichospermum					
				ia M					
Risk of Exposure	Phycocyanin ug/l	Particles/ml	Comparative density of cyanobacteria	Succeria Monion					
Almost none	0-15	0-1000	none	or the second se					
Low	15-20	1000-5000	low	To My Mark					
Elevated	20-50	5000-10000	some	W • W					
Blooming	>50	>10000	high	See reverse side for details					

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Learn more at WorcesterMA.gov/WCMC



## **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 cyanobcteria, 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 users 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.

Risk of Exposure	Phycocyanin ug/l	Particles/ml	Comparative density of cyanobacteria
Almost none	0-15	0-1000	none
Low	15-20	1000-5000	low
Elevated	20-50	5000-10000	some
Blooming	>50	>10000	high

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 cyanobactera identified in the sample. Because different cyanobacteria have different levels of phycocyanin, observed cyanobacteria help determine the threshold of phycocyanin that is considered risky.