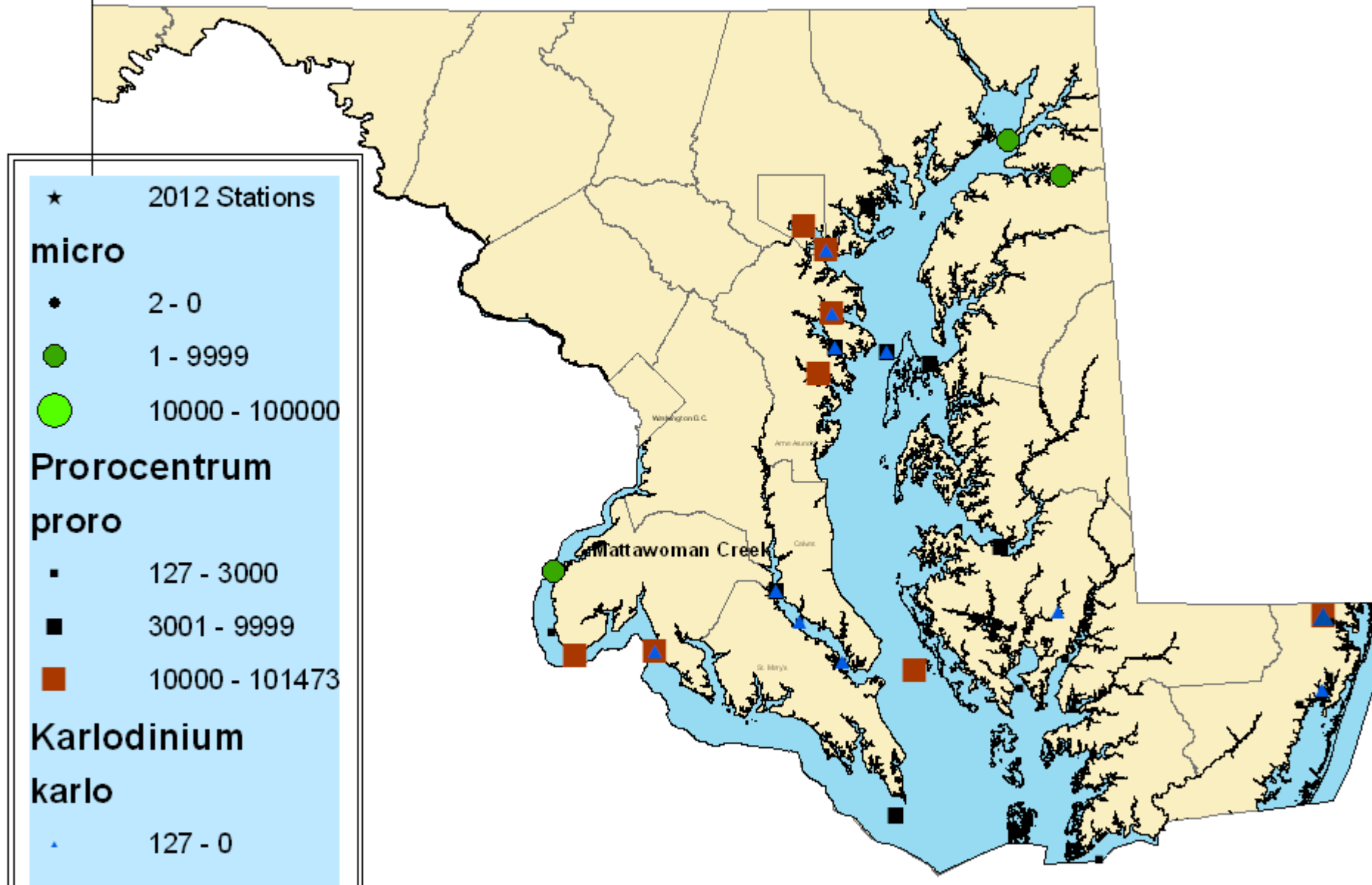


US EPA ARCHIVE DOCUMENT

# Maryland HAB Events 2012

# Distribution of HAB's in MD- 2012



2009 HAB Events	#ELISA Samples Tested	#Samples with elevated Microcystin toxin	Advisory issued	
Broadford Lake	10	2	Y	
Piney Run Reservoir	4	1	Y	
Frank and Needwood Lk.	5	2	Y	
Trinity Lake	1	1	Y	
Hampshire Lake	1	1	Y	
Lake Lariat	1	1	Y	
Transquaking River	23	10	Y	
Magothy River	1	0	N	
Total	46			

2010 HAB Events	#ELISA Samples Tested	#Samples with elevated Microcystin toxin	Advisory issued	
Fountain Rock Quarry	18	4	Y	
Sassafras River	5	0	N	
Deep Creek Lake	1	0	N	
Lake Needwood	3	1	Y	
Trinity Lake	3	1	Y	
Lake Lariat	5	2	Y	
Transquaking River	18	11	Y	
Smithville Lake	2	0	N	
Williston Lake	10	5	Y	
Potomac River	2	0	N	
Piney Run Reservoir	8	4	Y	
Bush River	1	0	N	
Chicomacomico River	1	0	N	
Total	77			

2011 HAB Events	#ELISA Samples Tested	#Samples with elevated Microcystin toxin	Advisory issued	
Williston Lake	10	8	Y	
Transquaking River	12	4	Y	
Broadford Lake	11	0	N	
Lake Needwood	3	0	N	
Bunting Pond	2	2	Y	
Lake Lariat	2	1	Y	
Transquaking River	18	11	Y	
Patapsco River	1	0	N	
Sassafras River	2	0	N	
Potomac River	8	2	Y	
Cunningham Falls	2	1	Y	
Corsica River	1	0	N	
Mattawoman River	<u>1</u>	0	N	
Total	73			

2012 HAB Events**	#ELISA Samples Tested	#Samples with elevated Microcystin toxin	Advisory issued	
Transquaking River	11	6	Y	
Sassafras River	2	0	N	
Williston Lake	3	0	N*	
Mattawoman River	1	0	N	
Potomac River	1	0	N	
Northwest Creek	<u>1</u>	1	Y	
Total	19			
*Preliminary Advisory				
** Includes samples taken before 7/18				

Table 1: 2012 cyanoHAB water contact advisories by waterbody date and county  
Department of Natural Resources.

Waterbody	County	Start	End	Duration (days)
NW creek	Queen Annes	7/11	Still ongoing	>70
Lake Needwood	Montgomery	7/26	???	
Transquaking- <i>Higgins Pond</i>	Dorchester	7/28	11/3	128
Williston Lake	Caroline	8/8	9/15 or 19	37
Poplar Island Ponds	Talbot	8/24	Still ongoing	
Lake Lariat	Calvert			permanent posting

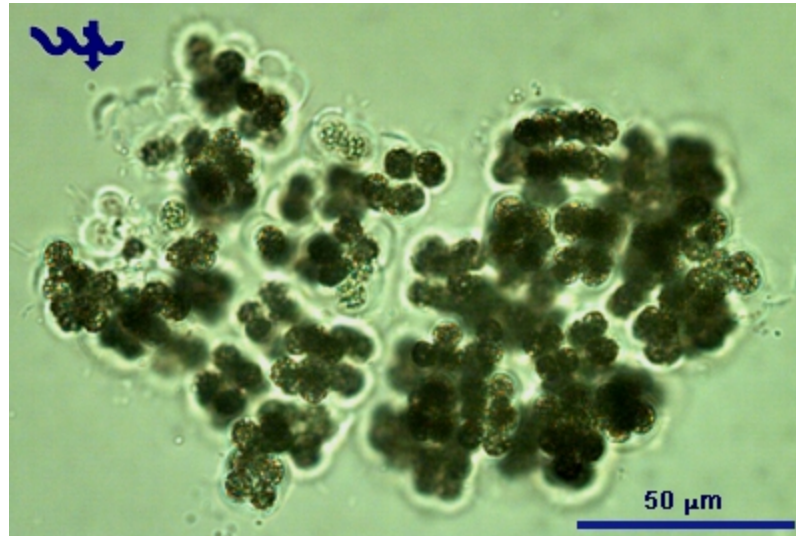
## **Lake Williston Update**

- **Drained the Lake in late Autumn**
  - **Barley used to deter algae growth**
  - **Bad Storms / Drought this year**
  - **Most of this summer – good for campers**
- Below: August, 2012**



# *Microcystis virdis* - a new specie for the bay at 1.5 million cells/ml

- Nanticoke River October 8, 2012





Species	Total Count	Total Cell Count	Location
ANABAENA	2540	78740	Nanticoke River at Sharpstown
APHANIZOMENON FLOS-AQUAE	1270	31115	Nanticoke River at Sharpstown
CUSPIDOTHRIX	2540	73025	Nanticoke River at Sharpstown
<b>MICROCYSTIS VIRIDIS</b>	<b>13335</b>	<b>1503680</b>	<b>Nanticoke River at Sharpstown</b>
EUGLENA	1270	1270	Nanticoke River at Sharpstown
BODO	1270	1270	Nanticoke River at Sharpstown
CHAETOCEROS SUBTILIS VAR ABNORMIS F. ABNORMIS	635	1270	Nanticoke River at Sharpstown
CYCLOTELLA (<10u)	2540	2540	Nanticoke River at Sharpstown
MELOSIRA	635	3175	Nanticoke River at Sharpstown
KIRCHNERIELLA	635	635	Nanticoke River at Sharpstown
SCENEDESMUS QUADRICAUDA	635	1270	Nanticoke River at Sharpstown
STAURASTRUM	635	1270	Nanticoke River at Sharpstown
GYMNODINIUM	1905	1905	Nanticoke River at Sharpstown
CRYPTOPHYCEAE	1270	1270	Nanticoke River at Sharpstown
UNIDENTIFIED FLAGELLATE	4445	4445	Nanticoke River at Sharpstown

# Poplar Island 2012















