

EAST & WEST DEEP-WATER STATIONS, GREEN LAKE, GREEN LAKE COUNTY, WI, USA

Today is partly cloudy, with low & variable winds. Terrible motor-boat-slop as a Saturday!
 The East Secchi is very unusual and I may have been in an area that was stirred up for some reason. I should have moved and tried it again.

Unknown minnows in a large school visible again near surface in deep-water. Large masses of floating aquatic plants! One monarch butterfly is seen flying over lake.

Today it is strange that so very few *Daphnia* & *Cyclops* are evident in the two samples of plankton tows at both East and West as these critters are usually very visible in samples via eyes. A fishing guide believes these two listed above show up on his depth finder at 30 feet and the bluegills are at a level below them. I would like to go deeper with the plankton net for a more satisfying "picture". I wonder if this observation will happen again.

CUSTER COLORS

	TIME	SECCHI(FT)	SURFACE TEMP (F)	½ SECCHI & ½ M		LAKE OBSERVATIONS
WEST	10:55	10.5	76	4.0	2.0	MURKY & GREEN
EAST	11:30	5.5	77	2.0	2.0	MURKY & GREEN
AIR: WEST: 75 F; EAST: 78 F						

MY PERCEPTION OF LAKE: **4** "Swimming and aesthetic enjoyment very much reduced" (Masses of floating macrophytes! Filamentous algae very abundant over attached plants in littoral zone. Many blue-greens are present. No bloom.)

Microscopic observations of plankton samples collected at both East & West deep-water stations via 17 ft. Wisconsin Plankton Net vertical pulls. These organisms are estimated into four categories below:

	<u>Very Abundant</u>	<u>Abundant</u>	<u>Infrequent</u>	<u>Present</u>
<u>Blue-greens:</u>	<i>Anabaena</i> <i>Microcystis</i>	<i>Nodularia</i>	<i>Gleocapsa</i> <i>Gleotrichia</i> <i>Gomphosphaeria</i>	<i>Aphanthecea</i> <i>Coelosphaerium</i> <i>Lungbya</i>
<u>Greens:</u>		<i>Gloeocystis</i> Little Green Balls, <i>Oocystis</i>	<i>Botryococcus</i> <i>Coelastrum</i> <i>Pediastrum</i> <i>Sphaerocystis</i>	<i>Mougeotia</i> <i>Golenkinia</i> <i>Spirogyra</i>
<u>Dinoflag. & Protozoa:</u>	<i>Ceratium</i>	<i>Vorticella</i>) <i>Stentors</i>		"ice-cream cone"
<u>Diatoms:</u>	<i>Fragilaria</i>	<i>Meridium?</i>		
<u>Desmids & "Golden":</u>		<i>Dinobryon</i> <i>Synuria</i> & another moving colony (ball-shape),	<i>Staurastrum</i> , <i>Cosmarium</i>	Unknown Strands
<u>Zooplankton:</u>			Nauplii Cyclopoids,	immature zebra mussels Daphnidia
<u>Metazoans & Rotifers:</u>		<i>K. cochlearis</i> <i>Polyarthra</i>	<i>Collotheca</i> (eggs 0-3)	<i>Asplanchna</i> <i>K. quadrata</i>
<u>Others:</u>	Pieces of plants & animals! Conjugation in gr. algal filaments	Debris		Over-the-hill algal filaments Empty cells in algal filaments

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Question has come up: What year did the emerald green shiners disappear from Green Lake?
 Can anyone answer that?