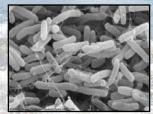
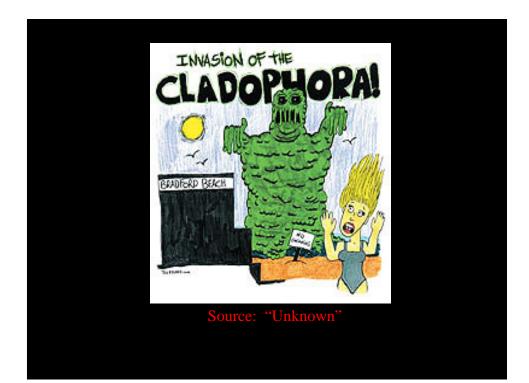
Impact of Cladophora mats on E. coli concentrations in beach water



Colleen M. McDermott, D.V.M., Ph.D. Department of Biology and Microbiology University of Wisconsin - Oshkosh Oshkosh, WI 54901 Phone - (920) 424-1100 Fax - (920) 424-1101 E-mail -mcdermot@uwosh.edu http://bact.uwosh.edu/





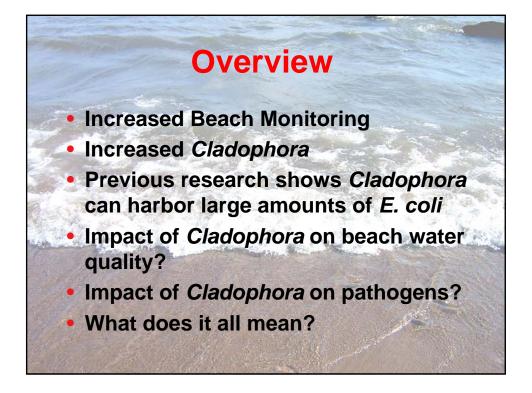
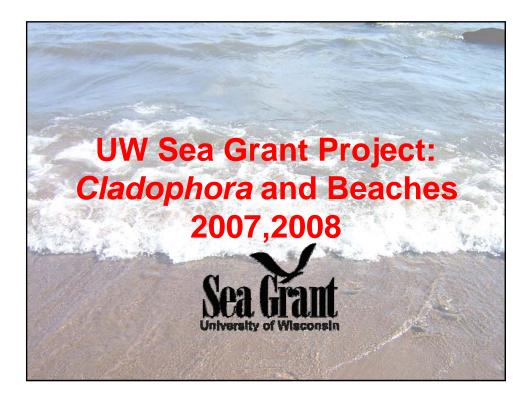


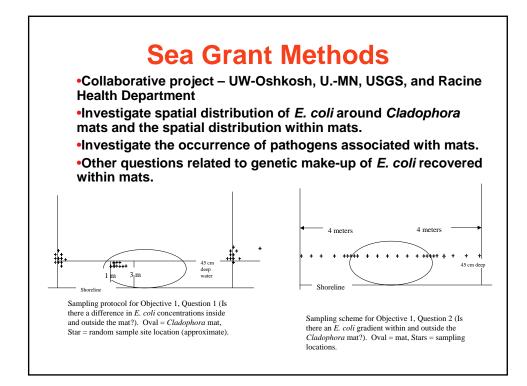


		Table 1. E. coli concentrations in Wisconsin.			
		Beach	County	E. coli (CFU/g Dry Weight Cladophora)	<i>E. coli</i> seasonal average i water (MPN/100 ml water)
		Murphy (floating)	Door	22,515	244.1
		Murphy (on shore)	Door	17,670	244.1
		Whitefish Dunes (on shore)	Door	39,501	50.1
		Sister Bay (floating)	Door	10,874	89.8
		Baileys Harbor (on shore)	Door	1,729	93.8
1	and the second second second second	Sunset (floating)	Door	1,254	165.4
and the second second	and the second	Menomonie Park (floating)	Winnebago	16,790	121.4
Contraction of the second	Murphy Park	Menomonie Park (on-shore)	Winnebago	31,288	121.4
and the second sec	marphyraik	'floating'=Cladophora collected			
and the second s		on-shore'=Cladophora that was	s on the beach		
2500-			- Cito	States Avenue	7. 10
2000 1500 E. coli MPN/100mL 500		Mat Poper IM Avay IM to Mat SM Avay SM Rtof Mat 10M Avay 10M Avay 10M Cri Mat 10M Avay			



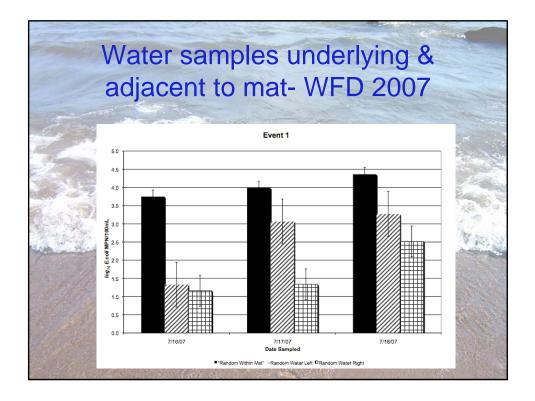


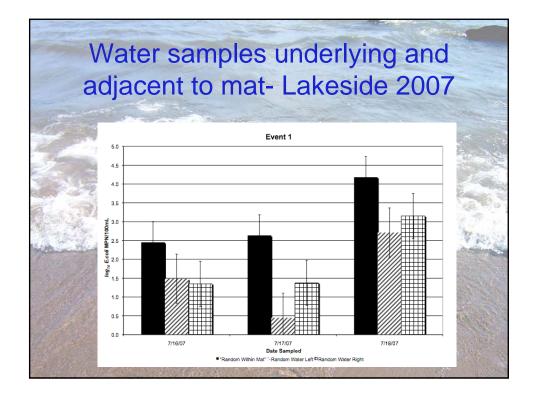


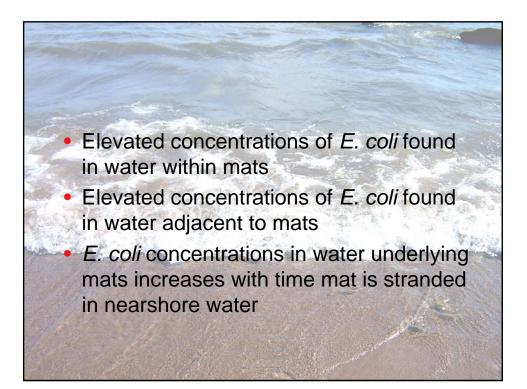


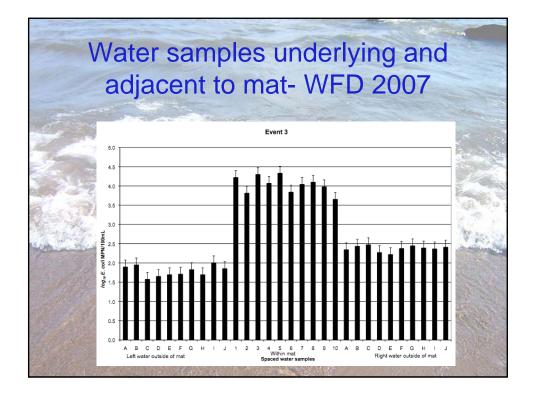


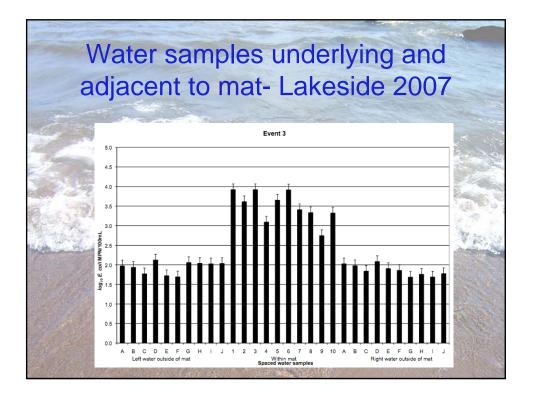


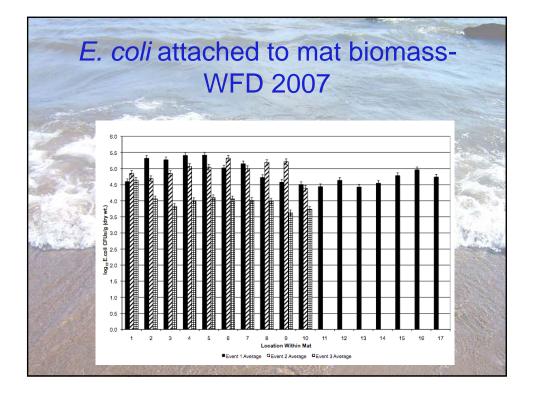


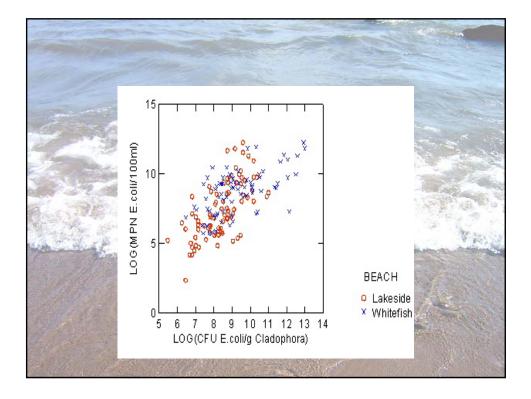




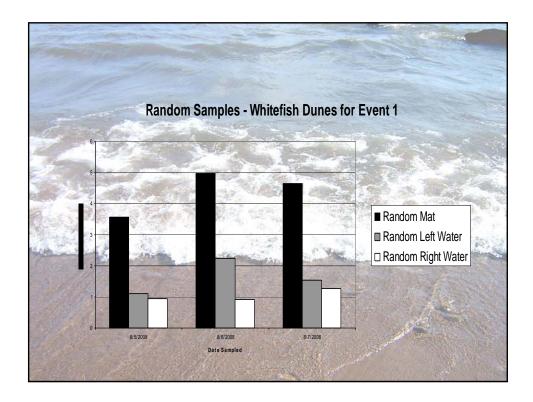


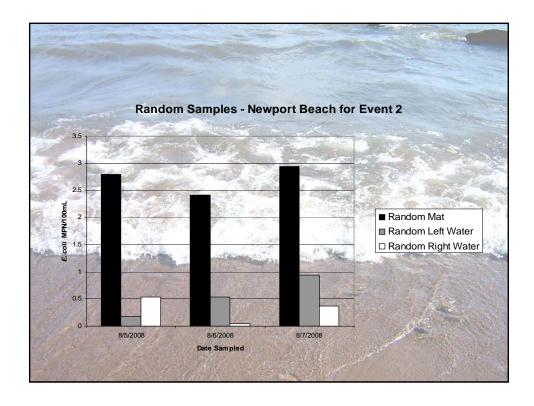


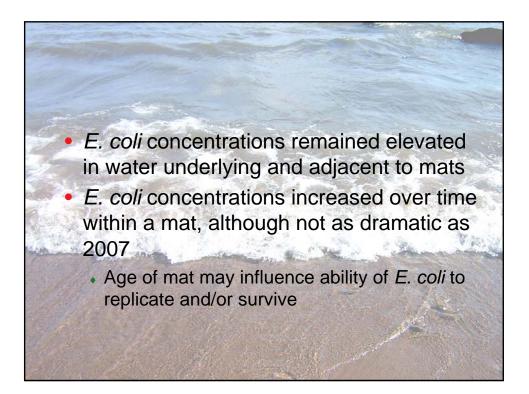


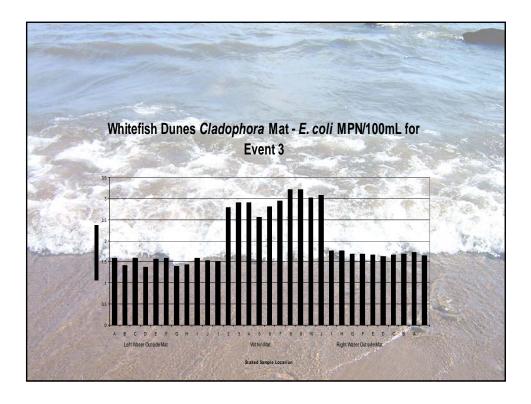


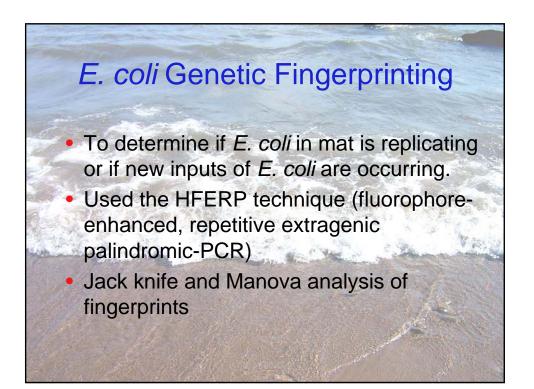


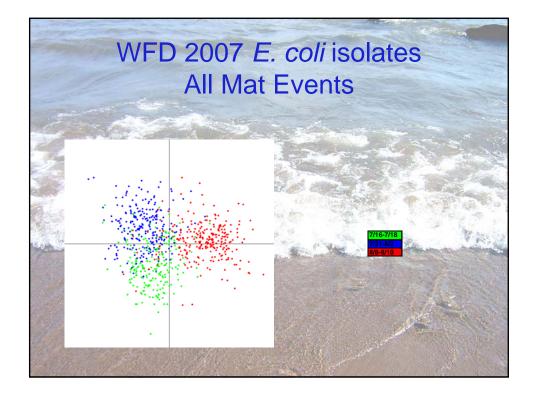


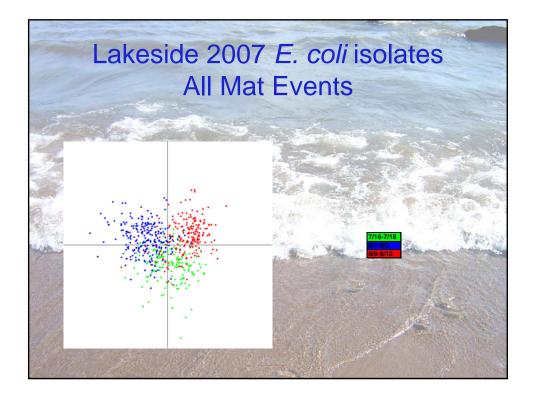


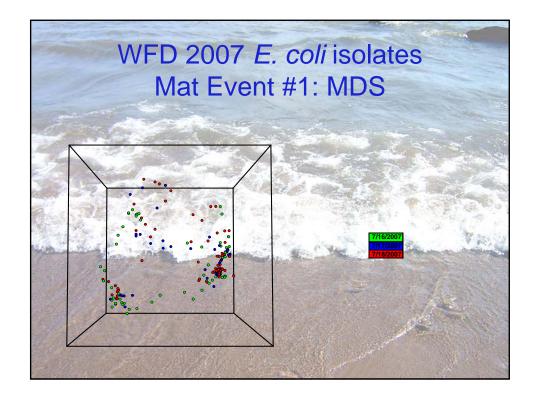












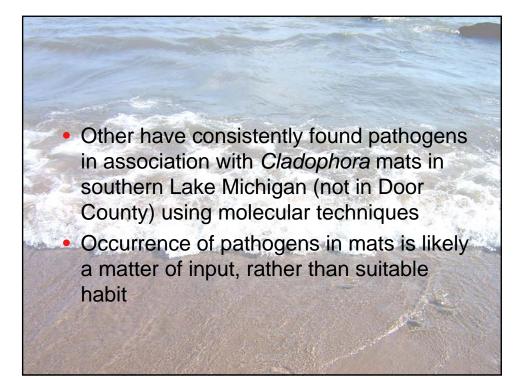


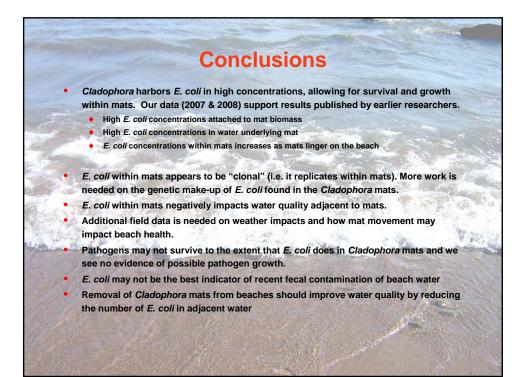


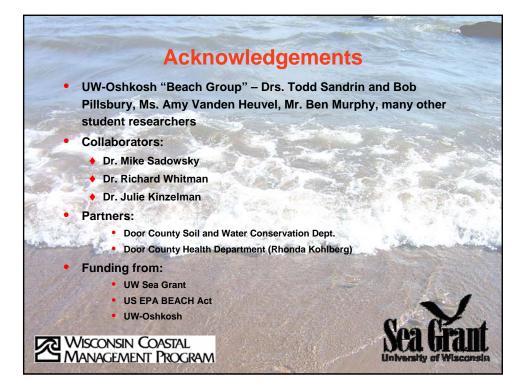




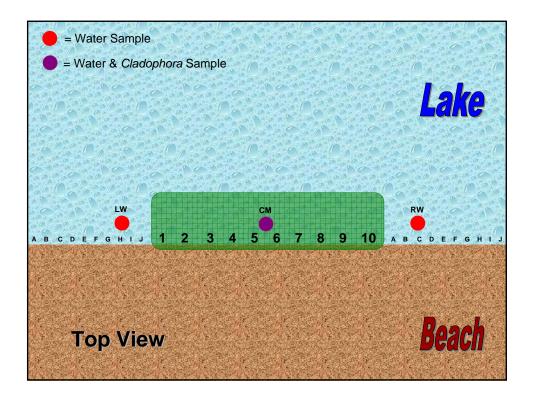


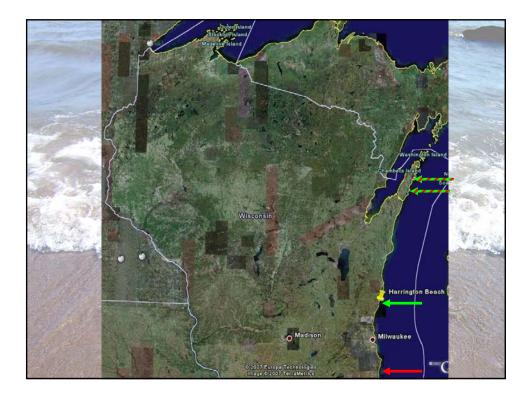


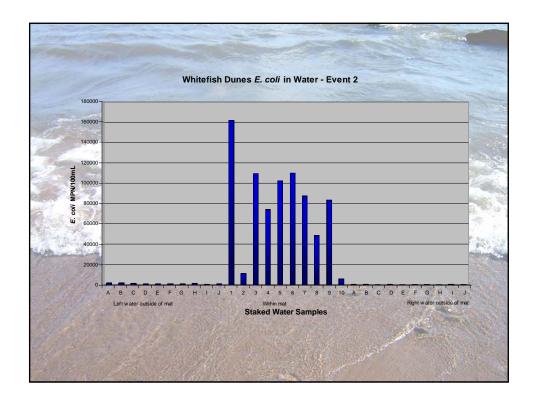


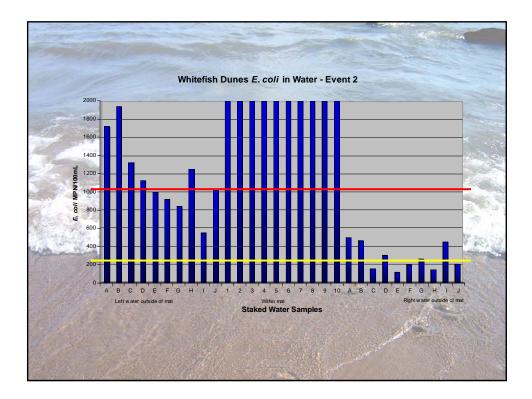


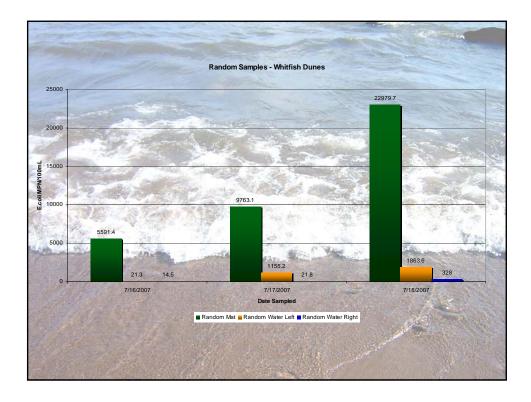


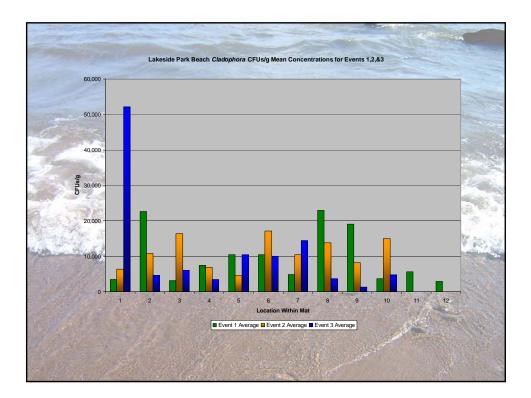


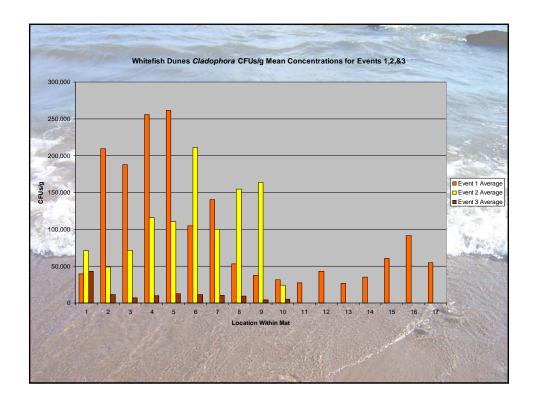


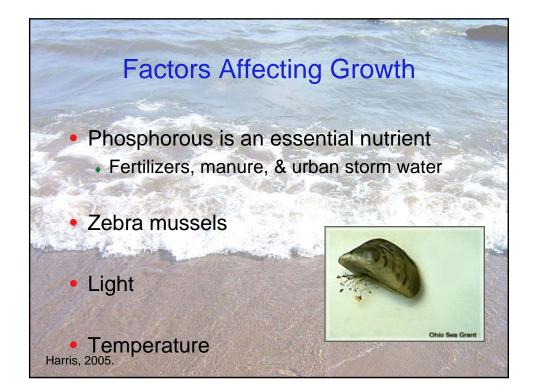


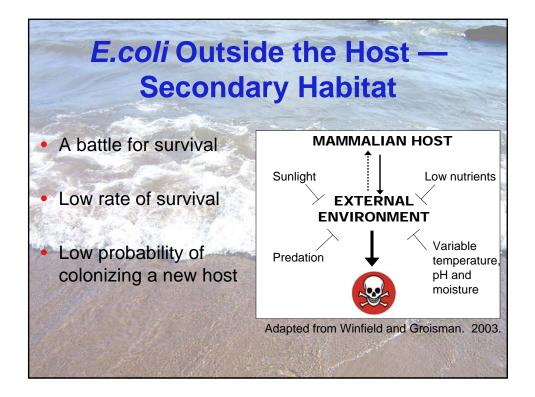


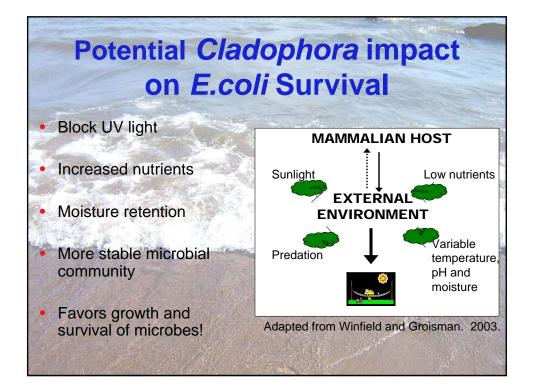




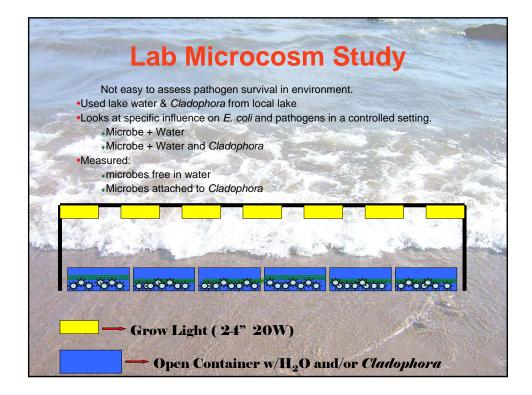


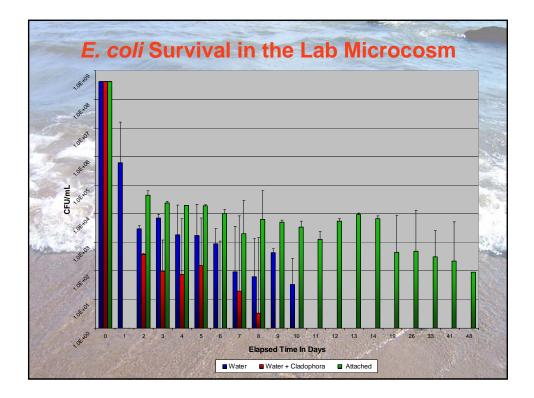


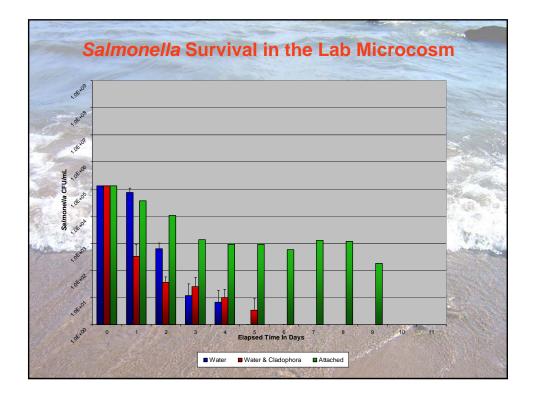




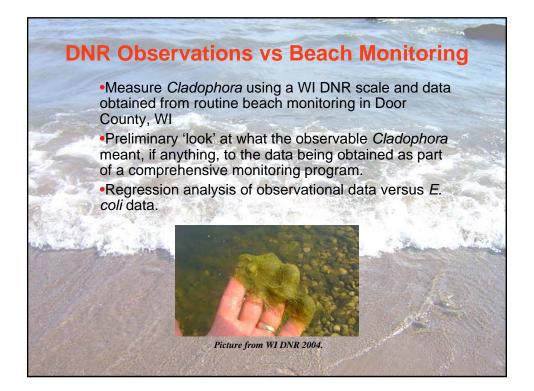


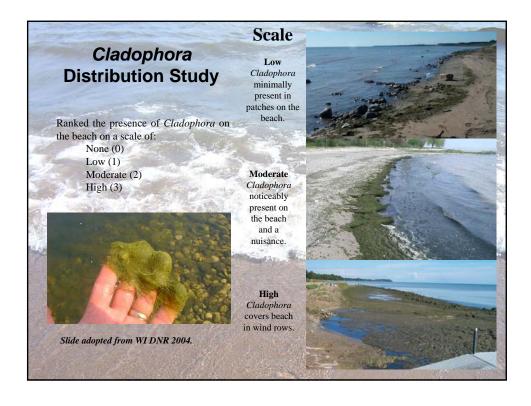






Microoganisms	Sample	Trial #	Hours to 50 Decline
.coli	Water Only	1	82.6
		2	77.8
	Water + Cladophora	1	37.7
		2	57.8
	Attached	1	92.6
		2	90.5
Salmonella	Water Only	1	72.2
		2	-
	Water + Cladophora	1	57.8
		2	65.0
	Attached	1	-
<u></u>		2	80.9
Shigella	Water Only	1	40.1
	Mater / Oledester	2	40.3 37.7
	Water + Cladophora		37.7 47.5
	Attached	2	47.5
	Attached	2	42.5 54.2
*Not enough data to	o conduct calculation.	189	





Contraction of the second				Beach	F value	P value
Beach	F value 0.156	P value 0.695		Anclam	1.047	0.315
Anciam Bailey's Harbor	0.156	0.695		Bailey's Harbor	0.173	0.679
Egg Harbor	6.621	0.013		Egg Harbor	0.766	0.385
Ellison	0.114	0.737	4 0005	Ellison	0.117	0.734
Ephraim	1.572	0.215	2005	Ephraim	0.691	0.410
Europe 1	0.002	0.969		Europe 1	0.033	0.858
Europe 2	0.002	0.969		Europe 2	0.92	0.346
Europe 3	0.491	0.487	State of the second	Europe 3	0.246	0.624
Fish Creek	0.071	0.791	1	Fish Creek	0.464	0.499
Gislason	0.397	0.541		Gislason	0.390	0.544
Haines	1.367	0.247		Haines	1.311	0.273
Jackson Harbor Ridges	0.016	0.900		Jackson Harbor Ridges	4.957	0.043
Lakeside	0.022	0.884	14.10 March 14.10	Lakeside	0.678	0.417
Murphy	2.192	0.144	and the second second	Murphy	2.121	0.151
Newport	0.036	0.850	The second second	Newport	0.609	0.438
Nicolet	3.281	0.076		Nicolet	6,486	0.014
Otumba	0.002	0.962	and and the second	Otumba	1.257	0.267
Percy Johnson	3.041	0.109	and again the second	Percy Johnson	0.384	0.545
Portage Park	0.156	0.696	2006	Portage Park	0.334	0.343
Rock Island	0.234	0.637	2000	Rock Island	N.C. Marken	0.441
Sand Dune	0.042	0.840			0.092	
Sandy Bay	1.382	0.252		Sand Dune*	n/a	n/a
Schoolhouse	0.009	0.926		Sandy Bay	4.659	0.043
Sister Bay	1.855	0.179		Sturgeon Bay Rec. Canal	3.387	0.079
Sturgeon Bay Rec. Canal	0.037	0.848		Sunset	0.112	0.740
Sunset	0.016	0.901		Whitefish Bay	0.073	0.791
Whitefish Bay	1.869 0.319	0.177		Whitefish Dunes	0.413	0.523

