

SPECIES LIST - LAKE MICHIGAN PHYTOPLANKTON (1983 - 1992)

DIVISION	TAXON	AUTHORITY
BACILLARIOPHYTA		
	Achnanthes affinis	Grun.
	Achnanthes clevei	Grun.
	Achnanthes conspicua	A. Mayer
	Achnanthes dispar	
	Achnanthes exigua	Grun.
	Achnanthes exilis	Kutz.
	Achnanthes flexella	(Kutz.) Brun.
	Achnanthes hauckiana	Grun.
	Achnanthes lanceolata	(Breb.) Greg.
	Achnanthes lapponica	
	Achnanthes levanderi	Hust.
	Achnanthes linearis	(W. Sm.) Grun.
	Achnanthes microcephala	(Kutz.) Grun.
	Achnanthes minutissima	Kutz.
	Achnanthes oestrupii	(Backm. & A. Cl.) Hust.
	Achnanthes sp.	
	Actinocyclus normanii	
	Amphipleura pellucida	(Kutz.) Kutz.
	Amphora hemicycla?	Stoerm. & Yang
	Amphora ovalis	(Kutz.) Kutz.
	Amphora perpusilla	(Grun.) Grun.
	Amphora sp.	
	Amphora thumensis	(Mayer) A. Cl.
	Anomoeoneis vitrea	(Grun.) Patr. & Reim.
	Asterionella formosa	Hass.
	Aulacoseira ambigua	(Grun.) O. Mull.
	Aulacoseira distans	(Ehr.) Kutz.
	Aulacoseira granulata	(Ehr.) Ralfs
	Aulacoseira islandica	O. Mull.
	Aulacoseira italica	(Ehr.) Kutz.
	Aulacoseira sp.	
	Caloneis bacillum	(Grun.) Cl.
	Caloneis sp.	
	Cocconeis diminuta	Pant.
	Cocconeis disculus	(Schum.) Cl.
	Cocconeis placentula	Ehr.
	Cocconeis sp. #2	
	Coscinodiscus lacustris	Grun.
	Coscinodiscus sp.	
	Cyclostephanos dubius	(Fricke) Bound
	Cyclostephanos sp.	
	Cyclostephanos tholiformis	
	Cyclotella antiqua	w. sm.
	Cyclotella atomus	Pant.
	Cyclotella catenata	Brun.
	Cyclotella comensis	Grun.
	Cyclotella comta	(Ehr.) Kutz.
	Cyclotella cryptica	Reim. et al.
	Cyclotella delicatula	Hust.
	Cyclotella glomerata	Bachm.
	Cyclotella krammeri	
	Cyclotella kuetzingiana	Thw.
	Cyclotella meneghiniana	Kutz.
	Cyclotella michiganiana	Skv.
	Cyclotella ocellata	Pant.
	Cyclotella ocellata - auxospore	
	Cyclotella operculata	(Ag.) Kutz.
	Cyclotella pseudostelligera	Hust.
	Cyclotella sp.	
	Cyclotella sp. #1	
	Cyclotella sp. #2	
	Cyclotella sp. #4	
	Cyclotella sp. - auxospore	
	Cyclotella stelligera	(Cl. & Grun.) V.H.
	Cyclotella tecta	Hak. & Boss
	Cyclotella wolterecki	Hust.
	Cymatopleura solea	(Breb. & Godey) W. Sm.
	Cymatopleura sp. #1	
	Cymbella cesatii	(Rabh.) Grun. ex A.S.
	Cymbella cistula	(Ehr.) Kirchn.
	Cymbella delicatula	Kutz.

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	<i>Cymbella microcephala</i>	Grun .
	<i>Cymbella minuta</i>	Hilse
	<i>Cymbella norvegica</i>	Grun .
	<i>Cymbella prostrata</i>	(Berk.) Cl.
	<i>Cymbella sinuata</i>	Greg.
	<i>Cymbella</i> sp.	
	<i>Denticula tenuis</i>	
	<i>Diatoma elongatum</i>	
	<i>Diatoma</i> sp.	
	<i>Diatoma tenue</i>	Ag.
	<i>Diploneis elliptica</i>	(Kutz.) Cl.
	<i>Diploneis oculata</i>	(Breb.) Cl.
	<i>Diploneis ovalis</i>	
	<i>Diploneis parma</i>	Cl.
	<i>Diploneis</i> sp.	
	<i>Entomoneis ornata</i>	(J.W. Bail.) Reim.
	<i>Entomoneis</i> sp.	
	<i>Fragilaria brevistriata</i>	Grun .
	<i>Fragilaria capucina</i>	Desm.
	<i>Fragilaria construens</i>	(Ehr.) Grun.
	<i>Fragilaria crotonensis</i>	Kitton
	<i>Fragilaria intermedia</i>	Grun .
	<i>Fragilaria lapponica</i>	Grun .
	<i>Fragilaria leptostauron</i>	(Ehr.) Hust.
	<i>Fragilaria pinnata</i>	Ehr.
	<i>Fragilaria</i> sp.	
	<i>Fragilaria</i> sp. #4	
	<i>Fragilaria vaucheriae</i>	(Kutz.) Peters.
	<i>Fragilaria virescens</i>	Ralfs
	<i>Gomphonema affine</i>	Kutz.
	<i>Gomphonema dichotomum</i>	Kutz.
	<i>Gomphonema gracile</i>	Ehr. em. V.H.
	<i>Gomphonema olivaceum</i>	(Lyngb.) Kutz.
	<i>Gomphonema parvulum</i>	Kutr.
	<i>Gomphonema</i> sp.	
	<i>Gomphonema tenellum</i>	Kutz.
	<i>Gomphonema tergestinum</i>	(Grun.) Fricke
	<i>Gyrosigma acuminatum</i>	(Kutz.) Rabh.
	<i>Gyrosigma sciotense</i>	(Sulliv. & Wormley) Cl.
	<i>Melosira varians</i>	Ag.
	<i>Meridion circulare</i>	(Greg.) Ag.
	<i>Navicula acceptata</i>	Hust.
	<i>Navicula anglica</i>	Ralfs
	<i>Navicula aurora</i>	SW.
	<i>Navicula capitata</i>	Ehr.
	<i>Navicula cincta</i>	(Ehr.) Ralfs
	<i>Navicula cryptocephala</i>	Kutz.
	<i>Navicula exigua</i>	Greg. ex Grun.
	<i>Navicula gastrum</i>	(Ehr.) Kutz.
	<i>Navicula graciloides</i>	A. Mayer
	<i>Navicula gregaria</i>	Donk.
	<i>Navicula integra</i>	(W. Sm.) Ralfs
	<i>Navicula jaernefeldtii</i>	Hust.
	<i>Navicula lacustris</i>	Greg .
	<i>Navicula lanceolata</i>	(Ag.) Kutz.
	<i>Navicula menisculus</i>	Schum.
	<i>Navicula odiosa</i>	Wallace
	<i>Navicula platystoma</i>	
	<i>Navicula pupula</i>	Kutr.
	<i>Navicula radiosa</i>	Kutz.
	<i>Navicula reinhardtii</i>	(Grun.) Grun.
	<i>Navicula rhyncocephala</i>	Kutz .
	<i>Navicula seminuloides</i>	Hust.
	<i>Navicula seminulum</i>	Grun.
	<i>Navicula</i> sp.	
	<i>Navicula</i> sp. #19	
	<i>Navicula submuralis</i>	Hust.
	<i>Navicula tripunctata</i>	(O.F.Mull.) Bory
	<i>Navicula viridula</i>	(Kutz.) Ehr.
	<i>Nitzschia acicularioides</i>	Arch. non Hust.
	<i>Nitzschia acicularis</i>	(Kutz.) W. Sm.

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	Nitzschia acula	Hantz. ex Cl. & Grun.
	Nitzschia acuta	Hantz.
	Nitzschia amphibia	Grun .
	Nitzschia angustata	(W. Sm.) Grun.
	Nitzschia bacata	Hust.
	Nitzschia capitellata	Hust.
	Nitzschia closterium	(Ehr.) W. Sm.
	Nitzschia confinis	Hust.
	Nitzschia denticula	Grun
	Nitzschia dissipata	(Kutz.) Grun.
	Nitzschia fonticola	Grun.
	Nitzschia frustulum	(Kutz.) Grun.
	Nitzschia gandersheimiensis	Krasske
	Nitzschia graciliformis	Lang.-Bert. & Simon.
	Nitzschia gracilis	Hantz.
	Nitzschia impressa	Bust.
	Nitzschia kuetszingiana	Hilse
	Nitzschia lacuum	
	Nitzschia lauenburgiana	Hust.
	Nitzschia linearis	W. Sm.
	Nitzschia mediocris	Hust.
	Nitzschia palea	(Kutz.) W. Sm.
	Nitzschia paleacea	Grun.
	Nitzschia pura	Bust.
	Nitzschia pusilla	(Kutz.) Grun. em. L.-B.
	Nitzschia recta	Hantz.
	Nitzschia romana	Grun.
	Nitzschia rostellata	Hust.
	Nitzschia sigmoidea	(Ehr.) W. Sm.
	Nitzschia sociabilis	Hust.
	Nitzschia sp.	
	Nitzschia sp. #01	
	Nitzschia sp. #02	
	Nitzschia sp. #10	
	Nitzschia sp. #15	
	Nitzschia spiculoides	Hust.
	Nitzschia spiculum	Hust.
	Nitzschia subacicularis	Hust.
	Nitzschia sublinearis	Hust.
	Nitzschia tenuis	W. Sm.
	Nitzschia tropica	Hust.
	Nitzschia valdestrita	Al- & Hust.
	Opephora martyi	Herib.
	Bhizosolenia eriensis	B.L. Sm.
	Bhizosolenia longiseta	Zach.
	Bhizosolenia sp.	
	Bhoicosphenia sp.?	
	Bhoicosphenia curvata	(Kutz.) Grun.
	Skeletonema potamos	(Weber) Hasle & Evens.
	Stauroneis smithii	Grun.
	Stephanodiscus alpinus	Hust.
	Stephanodiscus binderanus	(Kutz.) Krieg.
	Stephanodiscus carconensis	Grun.
	Stephanodiscus hantzschi	Grun.
	Stephanodiscus lacens	
	Stephanodiscus minutulus	Hak.
	Stephanodiscus niagarae	Ehr.
	Stephanodiscus parvus	Hak. + Stoerm.
	Stephanodiscus sp.	
	Stephanodiscus sp. #03	
	Stephanodiscus sp. #05	
	Stephanodiscus sp. #09	
	Stephanodiscus sp. - auxospore	
	Stephanodiscus tenuis	Hust.
	Stephanodiscus transilvanicus	Pant.
	Surirella birostrata	Bust.
	Surirella ovata	Kutz.
	Synedra acuta	Kutz.
	Synedra amphicephala	Kutz.
	Synedra cyclopum	Brutschy
	Synedra delicatissima	W. Sm.

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	<i>Synedra filiformis</i>	Grun.
	<i>Synedra miniscula</i>	Grun.
	<i>Synedra ostenfeldii</i>	(Krieg.) A. Cl.
	<i>Synedra parasitica</i>	W. Sm.
	<i>Synedra radians</i>	Kutz.
	<i>Synedra sp.</i>	
	<i>Synedra ulna</i>	(Nitz.) Ehr.
	<i>Tabellaria fenestrata</i>	Kutz.
	<i>Tabellaria flocculosa</i>	(Both) Kutz.
	<i>Thalassiosira fluviatilis</i>	Hust.
CHLOROMONOPHYTA		
	<i>Vacuolaria sp.</i>	
CHLOROPHYTA		
	<i>Acanthosphaera sp. #1</i>	
	<i>Ankistrodesmus braunii</i>	(Corda) Ralfs
	<i>Ankistrodesmus falcatus</i>	
	<i>Ankistrodesmus fusiformis</i>	
	<i>Ankistrodesmus gelifactum</i>	(Chod.) Bourr.
	<i>Ankistrodesmus gracilis</i>	(Reinsch) Kors.
	<i>Ankistrodesmus sp. #01</i>	
	<i>Ankistrodesmus sp. #02</i>	
	<i>Ankistrodesmus stipitatus?</i>	(Chod.) Kom.-Legn.
	<i>Ankyra judayi</i>	(G.M. Sm.) Fott
	<i>Ankyra sp.</i>	
	<i>Arthrodesmus sp.</i>	
	<i>Botryococcus braunii</i>	Kutz.
	<i>Botryococcus sp.</i>	
	<i>Carteria cordiformis</i>	(Carter) Dill.
	<i>Carteria sp.</i>	
	<i>Carteria wisconsinensis</i>	Huber-Pest.
	<i>Chlamydocapsa planktonica</i>	(W. & G.S. West) Fott
	<i>Chlamydocapsa sp.</i>	
	<i>Chlamydomonas globosa</i>	Snow
	<i>Chlamydomonas planktonica</i>	(West & West) Fott
	<i>Chlamydomonas sp.</i>	
	<i>Chlorella sp.</i>	
	<i>Chlorogonium sp.</i>	
	<i>Chodatellopsis sp.</i>	
	<i>Closteriopsis sp.</i>	
	<i>Closterium aciculare</i>	T. West
	<i>Closterium acutum v. variable</i>	(Lemm.) Krieg.
	<i>Closterium exile</i>	
	<i>Closterium gracile</i>	Breb
	<i>Closterium sp.</i>	
	<i>Closterium sp. X3</i>	
	<i>Coelastrum cambricum</i>	Arch.
	<i>Coelastrum microporum</i>	Nag. in A. Braun
	<i>Coelastrum sp.</i>	
	<i>Cosmarium depressum</i>	
	<i>Cosmarium melanosporum</i>	Archer
	<i>Cosmarium sp.</i>	
	<i>Crucigenia fenestrata</i>	Schmidle
	<i>Crucigenia irregularis</i>	Wille
	<i>Crucigenia quadrata</i>	Morren
	<i>Crucigenia rectangularis</i>	A. Braun
	<i>Crucigenia tetrapedia</i>	(Kirch.) W. & G.S. West
	<i>Dictyosphaerium ehrenbergianum</i>	Naeg.
	<i>Dictyosphaerium pulchellum</i>	Wood.
	<i>Dictyosphaerium sp.</i>	
	<i>Diplochlois lunata</i>	(Fott) Fott
	<i>Disporea crucigenioides</i>	
	<i>Echinocoleum sp.</i>	
	<i>Elakatothrix gelatinosa</i>	Wille
	<i>Elakatothrix genevensis</i>	
	<i>Elakatothrix lacustris</i>	
	<i>Elakatothrix sp.</i>	
	<i>Elakatothrix viridis</i>	(Snow) Printz
	<i>Franceia droescheri</i>	(Lemm.) G.M. Sm.
	<i>Franceia ovalis</i>	(France) L.

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DIVISION	TAXON	AUTHORITY
CHLOROPHYTA	Franceia sp.	
	Gloedactinium limneticum	G.M. Sm.
	Gloeocystis gigas	
	Gloeocystis planktonica	
	Gloeocystis sp.	
	Golenkinia radiata	(Chod.) Wille
	Golenkinia sp.	
	Gonium sp.	
	Green coccoid	
	Green filament	
	Green flagellate - ovoid	
	Green flagellate - sphere	
	Kirchneriella contorta	(Schmid.) Bohm
	Kirchneriella elongata	G.M. Sm.
	Kirchneriella obesa	(w. west) Schmidle
	Kirchneriella sp.	
	Lagerhemia ciliata	(Lagerh.) Chod.
	Lagerhemia genevensis	(Chod.) Chod.
	Lobomonas sp.	
	Microspora sp.	
	Monoraphidium Braunii	(Nag.) Kom.-Legn.
	Monoraphidium contortum	(Thur.) Kom.-Legn.
	Monoraphidium convolutum	(Corda) Kom.-Legn.
	Monoraphidium dybowski	
	Monoraphidium griffithii	(Berkel.) Kom.-Legn.
	Monoraphidium irregulare	(G.M. Sm.) Kom.-Legn.
	Monoraphidium minutum	(Nag.) Kom.-Legn.
	Monoraphidium pusillum	(Prints.) Kom.-Legn.
	Monoraphidium setiformae	(Nyg.) Kom.-Legn.
	Monoraphidium sp. #01	
	Monoraphidium tortile	(W. & W.) Kom.-Legn
	Nephrocytium Agardhianum	Nag.
	Nephrocytium limneticum	(G.M. Sm.) G.M. Sm.
	Oedogonium sp.	
	Oocystis sp.	
	Oocystis sp. #1	
	Oocystis borgei	Snow
	Oocystis crassa	Wittr. in Wittr. & Nord.
	Oocystis elliptica	w. west
	Oocystis gigas v. incrassata	
	Oocystis lacustris	Chod.
	Oocystis marsonii	Lemm.
	Oocystis nodulosa	
	Oocystis parva	West & West
	Oocystis pusilla	Hansg.
	Oocystis solitaria	Wittr. in Wittr. 6 Nord.
	Oocystis submarina	Lagerh.
	Pediastrum sp.	
	Phacotus minuscula	Bourr.
	Planktonema lauterbornii	Schmidle
	Planktonema sp.	
	Pyramidomonas sp.	
	Quadrigula lacustris	(Chod.) G.M. Sm.
	Scenedesmus acutus	Lemm.
	Scenedesmus arcuatus	Lemm.
	Scenedesmus armatus	(Chod.) G.M. Sm.
	Scenedesmus bijuga	(Turp.) Lagerh.
	Scenedesmus ecornis	(Ralfs) Chod.
	Scenedesmus quadrata	
	Scenedesmus quadricauda	(Turp.) Breb.
	Scenedesmus securiformis	Playf.
	Scenedesmus sp.	
	Schroederia setigera	(Schroed.) Lemm.
	Sphaerello cystis lacustris	Skuja
	Sphaerello cystis lateralis	Fott & Novak.
	Sphaerocystis schroeteri	Chod.
	Staurastrum sp.	
	Stichococcus sp.	
	Tetraedron minimum	(A. Braun) Hansg.
	Tetraedron regulare	
	Tetraspora lacustris	Lemm.

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CHLOROPHYTA	Tetraspora lemmermannii	Fott.
	Tetrastrum glabrum	
	Tetrastrum heteracanthum	(Nordst .) Chod.
	Treubaria planktonica	(G.M. Sm.) Korch.
	Trochiscia sp.	
	Ulothrix sp.	
CHRYSOPHYTA	Bitrichia chodatii	(Rev.) Chod.
	Bitrichia ohridiana	(Fott) Nich.
	Bitrichia ollula	(Fott) Nich.
	Choanoflagellate	
	Chromulina erkensis	
	Chromulina minor	
	Chromulina sp.	
	Chromulina zartensis	Doff.
	Chrysochromulina sp.	
	Chrysococcus rufescens	
	chrysococcus sp.	
	Chrysolykos angulatus	(Willen) Nauw.
	Chrysolykos planktonicus	Mack.
	Chrysolykos skujae	(Nauw.) Bourr.
	Chrysolykos skujae - cyst	
	Chrysolykos sp.	
	Chrysophycean coccoids	
	Chrysosphaerella longispina	Laut. em. Nich.
	Chrysosphaerella rodlei	
	Desmarella brachycalyx	
	Desmarella moniliformis	
	Desmarella sp.	
	Dinobryon - cyst	
	Dinobryon acuminatum	Rutt.
	Dinobryon bavaricum	Imhof
	Dinobryon borgei	Lemm.
	Dinobryon crenulatum	
	Dinobryon cylindricum	Imhof
	Dinobryon divergens	Imhof
	Dinobryon evenulatum	
	Dinobryon sertularia	Ehr.
	Dinobryon sociale	Ehr.
	Dinobryon sp.	
	Dinobryon stokesii	Lemm.
	Dinobryon tubaeformae	Nyg.
	Dinobryon utriculus	Stein
	Epipyxis sp.	
	Halobryon sp.	
	Halobryon sp. #01	
	Haptophyceae	
	Hyalobryon sp.	
	Kephyrion asper	
	Kephyrion boreale	Skuja
	Kephyrion cupuliformae	Conr .
	Kephyrion cylindricum	
	Kephyrion doliolum	Conr .
	Kephyrion littorale	Lund.
	Kephyrion ovale	
	Kephyrion rubi-calustri	Conr .
	Kephyrion sp.	
	Kephyrion sp. #1 -Pseudokephyrion entzii	Conr.
	Kephyrion sp. #2	
	Kephyrion sp. #3	
Kephyrion spirale	(Lack.) Conr.	
Kephyriopsis sp. (ovoid)		
Lagynion sp.		
Mallomonas majorensis	Skuja	
Mallomonas pseudocoronata	Prescott	
Mallomonas sp.		
Mallomonas sp. #3		
Monosiga ovata	S. Kent	
Ochromonas sp.		
Ochromonas sp. #4		

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CHRYSOPHYTA		
	Paraphysomonas sp.	
	Pseudokephyrion acutum	
	Pseudokephyrion alaskanum	
	Pseudokephyrion attenuatum	
	Pseudokephyrion conicum	(Schill.) Schum.
	Pseudokephyrion formosissimum	
	Pseudokephyrion latum	(Schill.) Schum.
	Pseudokephyrion millerense	Nich.
	Pseudokephyrion sp. #1	
	Pseudokephyrion undulatissimum	Scherff.
	Salpingoeca amphorae	Kent
	Salpingoeca gracilis	Clark
	Salpingoeca sp.	
	Spiniferomonas sp.	
	Stichogloea sp.	
	Stylotheca aurea	(Bachm.) Boloch.
	Stylotheca sp.	
	Stylotheca sp. #1	
	Unidentified chrysophyte	
	Unidentified coccoid - ovoid	
	Unidentified coccoid - sphere	
	Unidentified coccoids	
	Unidentified loricate - flag. sphere	
	Unidentified loricate - ovoid	
	Unidentified loricate - ovoid flagellate	
	Unidentified loricate - sphere	
	Uroglena sp.	
COLORLESS FLAGELLATES		
	Bicoeca campanulata	(Lack.) Bourr. em. Skuja
	Bicoeca crystallina	Skuja
	Bicoeca lacustris?	J. Clark
	Bicoeca mitra	
	Bicoeca petiolata	(Stein) Pringsh.
	Bicoeca sp.	
	Bicoeca sp. #01	
	Bicoeca sp. #02	
	Bicoeca sp. #04	
	Bicoeca tubiformis	Skuja
	Colorless flagellate	
	Lagenoeca globosa	France
	Mastigella sp.	
	Sphaeroeca sp.	
	Stelxmonas dichotoma	Lack.
CRYPTOPHYTA		
	Chilomonas acuta	Uterm.
	Chilomonas sp.	
	Chroomonas acuta	Uterm.
	Chroomonas caudata	Geit.
	Chroomonas norstedtii	Hansg.
	Chroomonas pochmanni	Huber-Pest.
	Chroomonas sp.	
	Cryptomonas - cyst	
	Cryptomonas brevis	Schill.
	Cryptomonas caudata	Schill.
	Cryptomonas curvata	Ehr.
	Cryptomonas erosa	Ehr.
	Cryptomonas lobata	Korsch.
	Cryptomonas marssonii	Skuja
	Cryptomonas obovata	Skuja
	Cryptomonas ovata	Ehr.
	Cryptomonas parapyrenoidifera	Skuja
	Cryptomonas phaseolus	Skuja
	Cryptomonas platyuris	Skuja
	Cryptomonas pusilla	Bachm.
	Cryptomonas pyrenoidifera	Geitl.
	Cryptomonas reflexa	Skuja
	Cryptomonas rostratiformis	Skuja
	Cryptomonas sp.	
	Cryptomonas sp. #2	

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DIVISION	TAXON	AUTHORITY
CRYPTOPHYTA	<i>Cryptomonas tenuis</i>	Pasch.
	<i>Cryptomonas tetrapyrenoidiosa</i>	Skuja
	<i>Rhodomonas lacustris</i>	Pasch. & Rutt.
	<i>Rhodomonas lens</i>	Pasch. & Rutt.
	<i>Rhodomonas minuta</i>	Skuja
	<i>Rhodomonas pusilla</i>	
	<i>Rhodomonas</i> sp.	
	<i>Sennia parvula</i>	Skuja
	Unidentified coccoid	
	CYANOPHYTA	<i>Anabaena circinalis</i>
<i>Anabaena flos-aquae</i>		(Lyngb.) Breb.
<i>Anabaena</i> sp.		
<i>Anabaena spiroides</i>		Kleb.
<i>Anacystis montana</i>		Dr. & Daily
<i>Anacystis</i> sp.		
<i>Anacystis thermalis</i>		(Menegh.) Dr. & Daily
<i>Aphanizomenon flos-aquae</i>		(L.) Ralfs
<i>Aphanocapsa elachista</i>		
<i>Aphanothece gelatinosa</i>		(Henn.) Lemm.
<i>Aphanothece microscopica</i>		Nag .
<i>Aphanothece nidulans</i>		
<i>Characium</i> sp.		
<i>chroococcus dispersus</i>		
<i>Chroococcus limneticus</i>		Lemm.
<i>chroococcus</i> sp.		
<i>Coccochloris elabans</i>		Dr. & Daily
<i>Coelosphaerium dubium</i>		Grun. in Rabh.
<i>Coelosphaerium naegelianum</i>		Unger
<i>Coelosphaerium</i> sp.		
<i>Cyanarcus</i> sp.		
<i>Dactylococcopsis Smithii</i>		Chod. & Chod.
<i>Gloeothece ruprestris</i>		(Lyngb.) Born.
<i>Gomphosphaeria aponina</i>		Kutz.
<i>Lyngbya limneticum</i>		Lemm.
<i>Oscillatoria agardhii</i>		Gom.
<i>Oscillatoria limnetica</i>		Lemm.
<i>Oscillatoria prolifica</i>		
<i>Oscillatoria rubescens</i>		
<i>Oscillatoria</i> sp.		
<i>Oscillatoria subbrevis</i>		Schmid.
<i>Oscillatoria tenuis</i>		C.A. Ag.
<i>Rhabdoderma Gorskii</i>		Wol.
<i>Rhabdoderma</i> sp.#1		
<i>Spirulina</i> sp.		
<i>Synechococcus</i> sp.		
Unidentified blue-greens		
EUGLENOPHYTA	<i>Euglena</i> sp.	
	<i>Phacus</i> sp.	
	<i>Trachelomonas</i> sp.	
PYRROPHYTA	<i>Amphidinium</i> sp.	
	<i>Ceratium hirundinella</i>	(O.F.Mull.) Schrank
	Dinoflagellate cyst	
	<i>Glenodinium quadridens</i>	
	<i>Glenodinium</i> sp.	
	<i>Gymnodinium helveticum</i>	Pen.
	<i>Gymnodinium</i> sp.	
	<i>Peridinium cinctum</i>	(Mull.) Ehr.
	<i>Peridinium inconspicuum</i>	Lemm.
	<i>Peridinium</i> sp.	
	<i>Peridinium</i> sp. #02	
	<i>Peridinium viguieri</i>	Lef.

SPECIES LIST - LAKE MICHIGAN PHYTOPLANKTON (1983 - 1992)

DIVISION	TAXON	AUTHORITY
UNIDENTIFIED		
	Unidentified coccoid flagellates	
	Unidentified colony	
	Unidentified cyst	
XANTHOPHYTA		
	Isthmochloran trispinatum	

Table A13. Summary of common zooplankton species occurrence in Lake Michigan during 1983. Summary is based on spring and summer cruises only. Species were arbitrarily classified as common if they accounted for) 0.1% of the total abundance or) 1.0% of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for \geq 1.0% of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS (ug/m ³)	% OF TOTAL BIOMASS
COPEPODA					
Copepoda - nauplii	32,375	11,722.2	23.16	0	0.00
Cyclopoida					
Cyclopoid - copepodite	2,699	418.9	0.83	0	0.00
Cyclops bicuspidatus thomasi	4,073	737.0	1.46	0	0.00
Calanoida					
Diaptomus - copepodite	13,838	4,738.2	9.36	0	0.00
Diaptomus ashlandi	5,192	764.0	1.51	0	0.00
Diaptomus minutus	642	165.4	0.33	0	0.00
Diaptomus sicilis	832	227.4	0.45	0	0.00
Limnocalanus macrurus	1,725	232.6	0.46	0	0.00
Total			37.55		0.00
CLADOCERA					
Bosmina longirostris	1,654	63.1	0.12	0	0.00
Daphnia galaeta mendotae	2,655	196.6	0.39	0	0.00
Daphnia pulicaria	6,056	488.4	0.96	0	0.00
Total			1.48		0.00
ROTIFERA					
Collotheca sp.	3,843	688.3	1.36	0	0.00
Conochilus unicornis	11,672	1,212.2	2.39	0	0.00
Gastropus stylifer	12,377	1,066.4	2.11	0	0.00
Kellicottia longispina	2,925	695.0	1.37	0	0.00
<i>Keratella</i> cochlearis	4,077	1,087.0	2.15	0	0.00
Polyarthra dolichoptera	33,144	1,731.0	3.42	0	0.00
Polyarthra major	8,785	835.3	1.65	0	0.00
Polyarthra vulgaris	108,606	11,373.1	22.47	0	0.00
Synchaeta sp.	83,850	10,910.6	21.55	0	0.00
Total			58.48		0.00
Total			97.50		0.00

Table A14. Summary of common zooplankton species occurrence in Lake Michigan during 1984. Summary is based on spring and summer cruises only. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS (ug/m ³)	% OF TOTAL BIOMASS
COPEPOGDA					
Copepoda - nauplii	32,450	12,383.4	17.85	4,953	11.16
Cyclopoida					
Cyclopoid - copepodite	5,484	1,950.5	2.81	1,318	2.97
Cyclops bicuspidatus thomasi	5,475	1,095.0	1.58	4,479	10.09
Calanoida					
Diaptomus - copepodite	30,508	4,015.3	5.79	6,051	13.64
Diaptomus ashlandi	5,098	1,095.9	1.58	2,709	6.11
Diaptomus minutus	695	128.0	0.18	300	0.68
Diaptomus sicilis	560	194.2	0.28	1,324	2.98
Limnocalanus - copepodite	255	86.0	0.12	283	0.64
Limnocalanus macrurus	273	37.6	0.05	1,094	2.47
Total			30.25		50.74
CLADOCERA					
Daphnia galaeta mendotae	9,110	1,610.9	2.32	13,475	30.37
Daphnia pulicaria	690	120.5	0.17	2,537	5.72
Daphnia retrocurva	5,286	339.7	0.49	2,297	5.18
Leptodora kindtii	149	34.0	0.05	1,326	2.99
Total			3.04		44.25
ROTIFERA					
Collotheca sp.	6,814	1,683.5	2.43	12	0.03
Gastropus stylifer	18,843	2,258.7	3.26	33	0.07
Kellicottia longispina	42,745	8,205.2	11.83	71	0.16
Keratella cochlearis	124,128	15,684.5	22.61	86	0.19
Notholca laurentiae	6,648	718.0	1.04	24	0.05
Notholca squamula	8,864	1,079.0	1.56	18	0.04
Polyarthra remata	12,006	1,346.6	1.94	37	0.08
Polyarthra vulgaris	30,688	7,094.6	10.23	101	0.23
Synchaeta sp.	27,545	4,173.3	6.02	97	0.22
Total			60.90		1.08
Total			94.19		96.07

Table A15. Summary of common zooplankton species occurrence in Lake Michigan during 1985. Summary is based on spring and summer cruises only. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS (ug/m ³)	% OF TOTAL BIOMASS
COPEPODA					
Copepoda - nauplii	62,951	16,315.8	39.46	6,526	14.25
Cyclopoida					
Cyclopoid - copepodite	3,990	065.9	2.09	563	1.23
Cyclops bicuspidatus thomasi	2,772	594.6	1.44	2,337	5.10
Tropocyclops - copepodite	815	42.7	0.10	13	0.03
Calanioda					
Diaptomus - copepodite	18,704	2,794.7	6.76	20,261	44.24
Diaptomus ashlandi	9,352	1,063.2	2.57	2,605	5.69
Diaptomus minutus	1,105	220.2	0.55	532	1.16
Diaptomus sicilis	1,673	240.9	0.58	1,576	3.44
Limnocalanus - copepodite	1,030	219.4	0.53	047	1.85
Limnocalanus macrurus	430	44.5	0.11	1,201	2.62
			-----		-----
Total			54.20		79.61
CLADOCERA					
Daphnia galaeta mendotae	6,402	541.0	1.31	4,425	9.66
Daphnia pulicaria	2,467	173.7	0.42	2,858	6.24
Daphnia retrocurva	1,266	67.1	0.16	240	0.52
			-----		-----
Total			1.89		16.43
ROTIFERA					
Ascomorpha ovalis	4,189	460.3	1.11	7	0.01
Collotheca sp.	5,484	525.2	1.27	1	0.00
Gastropus stylifer	12,970	1,069.5	2.59	32	0.07
Kellicottia longispina	11,945	1,513.9	3.66	20	0.04
Keratella cochlearis	25,683	2,253.0	5.45	9	0.02
Keratella crassa	18,208	783.4	1.89	35	0.00
Ploesoma lenticulare	5,407	428.6	1.04	66	0.14
Ploesoma truncatum	31,589	739.7	1.79	16	0.03
Polyarthra major	19,048	1,184.9	2.87	158	0.35
Polyarthra vulgaris	63,902	5,377.3	13.01	265	0.58
Synchaeta sp.	25,581	2,574.0	6.23	62	0.14
			-----		-----
Total			40.90		1.46
			=====		=====
Total			96.99		97.49

Table A16. Summary of common zooplankton species occurrence in Lake Michigan during 1986. Summary is based on spring and summer cruises only. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS (ug/m ³)	% OF TOTAL BIOMASS
COPEPODA					
Copepoda - nauplii	48,930	18,792.2	26.92	7,517	8.64
Cyclopoida					
Cyclopoid - copepodite	24,400	3,844.7	5.51	20,223	23.25
Cyclops bicuspidatus thomasi	14,688	1,671.7	2.39	7,439	8.55
Calanoida					
Diaptomus - copepodite	50,741	7,581.0	10.86	21,682	24.93
Diaptomus ashlandi	8,308	2,300.7	3.30	6,580	7.57
Diaptomus minutus	5,119	798.8	1.14	2,284	2.63
Diaptomus sicilis	1,391	311.2	0.45	890	1.02
			-----		-----
Total			50.56		76.60
CLADOCERA					
Daphnia galaeta mendotae	9,644	1,401.2	2.01	6,341	7.30
Daphnia pulicaria	1,381	198.7	0.28	1,309	1.60
Daphnia retrocurva	2,359	188.2	0.27	788	0.91
Holopedium gibberum	1,318	35.3	0.05	7,790	8.96
			-----		-----
Total			2.61		18.76
ROTIFERA					
Collotheca sp.	5,817	1,359.5	1.95	10	0.01
Conochilus unicornis	33,142	1,630.3	2.34	23	0.03
Gastropus stylifer	15,237	2,060.1	2.95	50	0.06
Kellicottia longispina	31,137	3,645.2	5.22	54	0.06
Keratella cochlearis	74,570	9,779.5	14.01	40	0.05
Notholca squamula	11,133	1,070.2	1.53	20	0.02
Polyarthra major	12,046	2,037.8	2.92	184	0.21
Polyarthra vulgaris	32,506	7,132.5	10.22	43	0.05
Synchaeta sp.	6,329	1,411.7	2.02	63	0.07
			-----		-----
Total			43.15		0.56
			=====		=====
Total			96.32		95.91

Table A17. Summary of common zooplankton species occurrence in Lake Michigan during 1987. Summary is based on spring and summer cruises only. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS (ug/m ³)	% OF TOTAL BIOMASS
COPEPODA					
Copepoda - nauplii	53,646	13,192.6	19.10	5,277	21.50
Cyclopoida					
Cyclopoid - copepodite	6,380	1,191.7	1.73	998	4.07
Cyclops bicuspidatus thomasi	1,855	332.8	0.48	2,225	9.07
Tropocyclops - copepodite	3,190	250.4	0.36	188	0.77
Tropocyclops prasinus mexicanus	2,893	246.3	0.36	220	0.90
Calanoida					
Diaptomus - copepodite	13,515	2,481.3	3.59	1,690	6.89
Diaptomus ashlandi	8,605	1,421.6	2.06	3,335	13.59
Diaptomus minutus	2,315	646.7	0.94	1,316	5.36
Diaptomus sicilis	1,929	394.2	0.57	2,372	9.67
Epischura - copepodite	850	107.6	0.16	119	0.49
Epischura lacustris	514	42.1	0.06	316	1.29
Limnocalanus macrurus	111	12.7	0.02	388	1.58
Total			29.42		75.16
CLADOCERA					
Bosmina longirostris	21,216	1,396.5	2.02	1,090	4.44
Daphnia galeata mendotae	8,457	366.5	0.53	967	3.94
Total			2.55		8.38
ROTIFERA					
Asplanchna priodonta	10,970	1,129.2	1.63	2,134	8.69
Conochilus unicornis	35,863	4,725.0	6.84	72	0.29
Keratella cochlearis	33,753	4,675.9	6.77	18	0.07
Keratella crassa	64,602	14,451.5	20.92	733	2.99
Keratella earlinae	6,882	1,009.3	1.46	23	0.10
Ploesoma truncatum	11,470	2,063.5	2.99	50	0.20
Polyarthra major	12,617	1,031.1	1.49	91	0.37
Polyarthra vulgaris	126,996	13,282.4	19.23	422	1.72
Synchaeta sp.	14,911	1,693.0	2.45	47	0.19
Total			63.79		14.62
Total			95.77		98.17

Table A18. Summary of common zooplankton species occurrence in Lake Michigan during 1988. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS ($\mu\text{g}/\text{m}^3$)	% OF TOTAL BIOMASS
COPEPODA					
Copepoda - nauplii	76,273	11,584.5	9.39	4,634	16.85
Cyclopoida					
Cyclopoid - copepodite	10,440	1,816.8	1.47	1,833	6.67
Cyclops bicuspidatus thomasi	2,752	446.8	0.36	2,030	7.30
Tropocyclops prasinus mexicanus	995	131.7	0.11	349	1.27
Calanoida					
Diaptomus - copepodite	14,996	3,222.9	2.61	3,721	13.53
Diaptomus ashlandi	4,613	1,101.4	0.89	2,785	10.13
Diaptomus minutus	2,087	659.4	0.53	1,579	5.74
Diaptomus sicilis	1,619	237.8	0.19	1,539	5.60
Epischura lacustris	581	43.9	0.04	376	1.37
Limnocalanus macrurus	607	22.8	0.02	1,229	4.47

			Total		15.62
					73.00
CLADOCERA					
Bosmina longirostris	6,070	280.3	0.23	373	1.36
Daphnia galaeta mendotae	5,273	650.3	0.53	3,703	13.47

			Total		0.75
					14.82
ROTIFERA					
Ascomorpha ovalis	0,927	1,263.2	1.02	26	0.09
Asplanchna priodonta	2,825	275.1	0.22	310	1.13
Collotheca sp.	15,401	1,852.7	1.50	6	0.02
Conochilus unicornis	130,915	24,746.2	20.06	195	0.71
Gastropus stylifer	21,698	3,355.3	2.72	69	0.25
Kellicottia longispina	33,003	3,985.5	3.23	54	0.20
Keratella cochlearis	159,147	23,591.9	19.13	84	0.30
Keratella crassa	56,070	8,481.5	6.80	421	1.53
Keratella earlinae	7,334	1,728.4	1.40	49	0.18
Ploesoma truncatum	66,237	6,768.3	5.49	252	0.92
Polyarthra remata	22,002	1,673.2	1.36	15	0.05
Polyarthra vulgaris	65,833	10,564.7	8.57	356	1.29
Synchaeta sp.	94,517	11,499.8	9.32	518	1.88

			Total		80.91
					8.56
			Total		97.29
					96.30

Table A19. Summary of common zooplankton species occurrence in Lake Michigan during 1989. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS ($\mu\text{g}/\text{m}^3$)	% OF TOTAL BIOMASS
COPEWDA					
Copepoda - nauplii	64,784	8,873.3	8.29	3,549	16.24
Cyclopoida					
Cyclopoid - copepodite	5,860	1,176.7	1.10	1,028	4.70
Cyclops <i>bicuspidatus thomasi</i>	2,337	186.2	0.17	872	3.99
Tropocyclops - copepodite	1,836	220.2	0.21	94	0.43
Tropocyclops <i>prasinus mexicanus</i>	1,261	137.7	0.13	210	0.96
Calanoida					
Diaptomus - copepodite	13,946	2,529.0	2.36	2,831	12.95
Diaptomus <i>ashlandi</i>	5,119	1,094.1	1.02	2,877	13.16
Diaptomus <i>minutus</i>	1,447	446.0	0.42	1,169	5.35
Diaptomus <i>sicilis</i>	924	154.6	0.14	1,110	5.08
Eplschura - copepodite	742	161.0	0.15	164	0.75
Epischura <i>lacustris</i>	240	36.6	0.03	299	1.37
Limnocalanus <i>macrurus</i>	139	21.5	0.02	654	2.99
			-----		-----
			Total		14.05
					67.98
CLADOCERA					
<i>Bosmina longirostris</i>	2,374	107.7	0.10	102	0.47
<i>Daphnia galaeta mendotae</i>	5,341	798.1	0.75	4,781	21.87
			-----		-----
			Total		0.85
					22.34
ROTIFERA					
<i>Ascomorpha walis</i>	8,483	1,319.3	1.23	27	0.12
<i>Collotheca</i> sp.	6,343	1,801.2	1.68	3	0.02
<i>Conochilus unicornis</i>	102,001	21,585.9	20.18	240	1.10
<i>Gastropus stylifer</i>	11,064	1,862.1	1.74	36	0.17
<i>Kellicottia longispina</i>	15,210	3,977.5	3.72	46	0.21
<i>Keratella cochlearis</i>	83,710	16,934.7	15.83	37	0.17
<i>Keratella crassa</i>	28,138	4,553.2	4.26	186	0.85
<i>Keratella earlinae</i>	13,813	1,739.1	1.63	38	0.17
<i>Ploesoma truncatum</i>	69,895	5,449.2	5.09	177	0.81
<i>Polyarthra major</i>	13,830	1,448.5	1.35	85	0.39
<i>Polyarthra remata</i>	8,791	1,520.1	1.42	14	0.06
<i>Polyarthra vulgaris</i>	86,622	14,715.8	13.76	320	1.46
<i>Synchaeta</i> sp.	97,330	12,533.8	11.72	373	1.71
			-----		-----
			Total		83.60
					7.24
			-----		-----
			Total		98.50
					97.56

Table A20. Summary of common zooplankton species occurrence in Lake Michigan during 1990. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS ($\mu\text{g}/\text{m}^3$)	% OF TOTAL BIOMASS
COPEWDA					
Copepoda - nauplii	50,412	17,510.3	8.95	7,004	12.80
Cyclopoida					
Cyclopoid - copepodite	8,645	2,311.9	1.18	2,326	4.25
Cyclops bicuspidatus thomasi	6,895	1,157.1	0.59	5,315	9.72
Calanoida					
Diaptomus - copepodite	17,243	6,205.1	3.17	8,093	14.79
Diaptomus ashlandi	7,564	2,791.5	1.43	7,898	14.44
Diaptomus minutus	1,684	817.8	0.42	2,173	3.97
Diaptomus sicilis	865	332.7	0.17	2,425	4.43
Epischura - copepodite	662	122.5	0.06	1,597	2.92
Epischura lacustris	758	86.5	0.04	816	1.49
Limnocalanus macrurus	149	38.7	0.02	1,172	2.14
			-----		-----
			Total		70.96
CLADOCERA					
Bosmina longirostris	10,806	675.8	0.35	1,870	3.42
Daphnia galaeta mendotae	3,284	612.3	0.31	9,694	17.72
			-----		-----
			Total		21.14
ROTIFERA					
Conochilus unicornis	376,238	54,020.7	27.60	844	1.54
Gastropus stylifer	20,568	3,187.2	1.63	87	0.16
Kellicottia longispina	28,681	5,767.9	2.95	60	0.11
Keratella cochlearis	163,784	34,802.7	17.78	36	0.07
Ploesoma truncatum	58,000	7,884.2	4.03	173	0.32
Polyarthra major	14,079	2,818.2	1.44	376	0.69
Polyarthra remata	18,332	2,966.6	1.52	69	0.13
Polyarthra vulgaris	71,988	21,794.5	11.14	671	1.23
Synchaeta sp.	98,070	21,900.6	11.19	652	1.19
			-----		-----
			Total		5.43
			-----		-----
			Total		97.52

Table A2 1. Summary of common zooplankton species occurrence in Lake Michigan during 199 1. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS ($\mu\text{g}/\text{m}^3$)	% OF TOTAL BIOMASS
COPEPODA					
Copepoda - nauplii	60,452	16,651.3	28.83	6,661	11.62
Cyclopoida					
Cyclopoid - copepodite	11,148	1,253.5	2.17	577	1.01
Cyclops bicuspidatus thomasi	3,537	434.3	0.75	1,561	2.72
Tropocyclops prasinus mexicanus	935	159.4	0.28	267	0.47
Calanoida					
Diaptomus - copepodite	13,515	2,454.2	4.25	2,105	3.67
Diaptomus ashlandi	8,842	1,611.7	2.79	3,802	6.63
Diaptomus minutus	11,873	1,219.2	2.11	2,652	4.63
Diaptomus sicilis	2,395	406.4	0.70	2,533	4.42
Limnocalanus macrurus	240	18.2	0.03	635	1.11

			Total		41.92
					36.28
CLADOCERA					
Daphnia galaeta mendotae	30,356	2,002.3	3.47	30,551	53.31
ROTIFERA					
Ascomorpha ovalis	9,698	903.3	1.70	20	0.03
Asplanchna priodonta	6,062	636.8	1.10	1,167	2.04
Conochilus unicornis	29,157	4,671.9	8.09	124	0.22
Keratella cochlearis	22,380	3,692.9	6.39	19	0.03
Keratella crassa	36,183	5,163.7	8.94	1,414	2.47
Keratella earlinae	6,465	570.2	1.00	3	0.01
Ploesoma truncatum	17,904	1,277.7	2.21	28	0.05
Polyarthra dolichoptera	11,510	927.5	1.61	37	0.07
Polyarthra major	16,945	3,189.0	5.52	1,726	3.01
Polyarthra remata	5,755	593.6	1.03	14	0.02
Polyarthra vulgaris	84,405	6,077.8	10.52	471	0.82
Synchaeta sp.	21,551	1,995.0	3.45	50	0.09
Trichocerca multicornis	8,313	586.4	1.02	33	0.06

			Total		52.59
					8.91
			Total		97.97
					98.50

Table A22. Summary of common zooplankton species occurrence in Lake Michigan during 1992. Species were arbitrarily classified as common if they accounted for $\geq 0.1\%$ of the total abundance or $\geq 1.0\%$ of the total biomass, with the exception of rotifers. Rotifer species were considered common if they accounted for $\geq 1.0\%$ of the total abundance.

TAXON	MAXIMUM DENSITY (#/m ³)	AVERAGE DENSITY (#/m ³)	% OF TOTAL ABUNDANCE	MEAN BIOMASS ($\mu\text{g}/\text{m}^3$)	% OF TOTAL BIOMASS
COPEWDA					
Copepoda - nauplii	62,172	18,324.5	8.77	7,330	7.63
Cyclopoida					
Cyclopoid - copepodite	12,034	2,889.8	1.38	1,629	1.70
Cyclops bicuspidatus thomasi	3,291	804.0	0.39	3,407	3.55
Calanoida					
Diaptomus - copepodite	23,059	6,251.0	2.99	5,697	5.93
Diaptomus ashlandi	4,295	1,082.1	0.52	2,823	2.94
Diaptomus minutus	3,537	1,223.5	0.59	2,870	2.99
Diaptomus sicilis	1,309	251.0	0.12	2,672	2.78

			14.76		27.50
CLADOCERA					
Daphnia galaeta mendotae	43,288	3,829.2	1.83	40,592	50.57
ROTIFERA					
Ascomorpha ovalis	27,366	3,102.0	1.49	63	0.07
Conochilus unicornis	291,660	36,349.3	17.41	699	0.73
Gastropus stylifer	13,840	2,375.2	1.14	195	0.20
Kellicottia longispina	39,443	4,951.4	2.37	5,690	5.92
Keratella cochlearis	234,866	35,755.5	17.12	690	0.72
Polyarthra major	53,757	8,792.1	4.21	2,402	2.50
Polyarthra remata	22,057	4,349.5	2.08	69	0.07
Polyarthra vulgaris	467,205	58,780.7	28.15	8,133	8.46
Synchaeta sp.	70,401	11,052.0	5.29	638	0.66
			-----		-----
			79.25		19.34
			=====		=====
			95.05		97.41

Appendix 23. Zooplankton species list, Lake Michigan (1983 - 1992)

TAXON

Calanoida	Calanoid - copepodite
	Diaptomus - copepodite
	Diaptomus ashlandi
	Diaptomus minutus
	Diaptomus oregonensis
	Diaptomus sicilis
	Diaptomus siciloides
	Epischura - copepodite
	Epischura lacustris
	Eurytemora - copepodite
	Eurytemora affinis
	Limnocalanus - copepodite
	Limnocalanus macrurus
	Senecella - copepodite
	Senecella calanoides
Cladocera	Bosmina longirostris
	Bythotrephes cederstroemi
	Ceriodaphnia lacustris
	Chydorus sphaericus
	Daphnia - immature
	Daphnia catawba
	Daphnia galeata mendotae
	Daphnia longiremis
	Daphnia middendorffiana
	Daphnia pulicaria
	Daphnia retrocurva
	Daphnia schodleri
	Daphnia sp.
	Diaphanosoma birgei
	Diaphanosoma leuchtenbergianum
	Diaphanosoma sp.
	Eubosmina coregoni
	Holopedium gibberum
	Leptodora kindtii
	Polyphemus pediculus
Copepoda	Copepoda - nauplii
Cyclopoida	Cyclopoid - copepodite
	Cyclops bicuspidatus thomasi
	Cyclops vernalis
	Eucyclops agilis
	Mesocyclops - copepodite
	Mesocyclops edax
	Tropocyclops - copepodite
	Tropocyclops prasinus mexicanus
Harpacticoida	Canthocamptus sp.
	Harpacticoid - copepodite

TAXON

Mollusca **Dreissena polymorpha - veliger**

Mysidacea **Mysis relicta**

Kotifera **Ascomorpha ecaudis**
Ascomorpha ovalis
Ascomorpha saltans
Ascomorpha sp.
Asplanchna priodonta
Brachionus angularis
Collotheca sp.
Conochilus unicornis
Filina longiseta
Gastropus stylifer
Kellicottia bostoniensis
Kellicottia longispina
Keratella cochlearis
Keratella crassa
Keratella earlinae
Keratella hiemalis
Keratella quadrata
Lecane tudicola
Notholca foliacea
Notholca laurentiae
Notholca squamula
Ploesoma hudsoni
Ploesoma lenticulare
Ploesoma sp.
Ploesoma truncatum
Polyarthra dolichoptera
Polyarthra major
Polyarthra remata
Polyarthra vulgaris
Synchaeta sp.
Trichocerca cylindrica
Trichocerca multicrinis
Trichocerca similis
Trichocerca sp.