

Aquatic Macroinvertebrate Community of Lough Carra (2006)

The macroinvertebrate community in Lough Carra was sampled at a number of locations (Table 1) in spring and autumn 2006 using grab and kick sampling methods. This work was part of a study to assess the impact of zebra mussel colonisation on hardwater lentic macroinvertebrate communities, with Lough Carra used as a control lake. The total numbers of macroinvertebrates per sampling site are presented in Table 2.

Table 1. Sampling locations and method employed

Sampling method used	Site	Easting	Northing
Grabs using an Eckman sampler (x3)	Site 1	116809	273994
	Site 2	118006	271009
	Site 3	117974	270249
Kicks with an FBA pond net - 2 minute duration (x3)	Site 1	116621	273508
	Site 2	117739	277090

Data provider

Michael Millane, Freshwater Biodiversity, Ecology and Fisheries Group, School of Biology and Environmental Science, University College Dublin.

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Dr Mary Kelly-Quinn, Freshwater Biodiversity, Ecology and Fisheries Group, School of Biology and Environmental Science, University College Dublin.

Western Regional Fisheries Board staff based at Lough Carra.

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Table 2. Macroinvertebrate community data of **Lough Carra** from grab and kick sampling in spring and autumn 2006

Macroinvertebrate taxa				Grab samples spring 2006			Grab samples autumn 2006			Kick samples spring 2006		Kick samples autumn 2006	
Class	Order	Family	Species	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3	Site 1	Site 2	Site 1	Site 2
Arachnida	Hydracarina		indet.	-	3	-	-	5	-	17	26	57	82
Bivalvia	Veneroida	Sphaeriidae	<i>Sphaerium</i> sp./ <i>Pisidium</i> sp	10	8	9	19	59	19	3	97	24	53
Crustacea	Amphipoda	Gammaridae	<i>Gammarus lacustris</i>	-	1	-	1	1	-	11	10	-	-
		Gammaridae	<i>Gammarus duebeni</i>	-	-	-	-	2	-	49	-	51	32
	Isopoda	Asellidae	<i>Asellus aquaticus</i>	2	38	4	12	34	18	49	1251	76	424
Gastropoda	Basommatophora	Lymnaeidae	<i>Lymnaea peregra</i>	6	-	1	4	2	-	-	-	1	-
		Physidae	<i>Physa fontinalis</i>	-	-	-	-	-	1	-	-	-	-
		Planorbidae	<i>Planorbis</i> sp.	-	-	-	-	-	-	-	-	2	11
	Mesogastropoda	Hydrobiidae	<i>Bithynia tentaculata</i>	1	1	7	14	1	14	-	-	-	1
		Valvatidae	<i>Valvata macrostoma</i>	-	-	-	1	-	1	-	-	-	-
Hirudinea	Arhynchobdellida	Erpobdellidae	<i>Erpobdella octoculata</i>	-	-	-	-	-	-	7	32	5	9
	Arhynchobdellida	Hirudinidae	<i>Haemopsis sanguisuga</i>	-	-	-	-	-	-	-	-	-	1
	Rhynchobdella	Glossiphoniidae	<i>Batrachobdella paludosa</i>	-	-	-	-	1	1	4	-	-	-
		Glossiphoniidae	<i>Boreobdella verrucata</i>	-	-	-	-	1	1	-	-	-	-
		Glossiphoniidae	<i>Glossiphonia complanata</i>	1	1	-	1	-	-	-	3	4	2
		Glossiphoniidae	<i>Glossiphonia heteroclita</i>	-	-	-	-	-	1	-	-	-	-
		Glossiphoniidae	<i>Helobdella stagnalis</i>	-	1	-	1	5	2	13	21	8	27
		Glossiphoniidae	<i>Theromyzon tessulatum</i>	-	-	-	-	-	-	-	-	-	1
Insecta	Coleoptera	Dytiscidae	indet. (adult)	-	-	-	-	-	-	-	-	-	1
		Dytiscidae	<i>Laccophilus minutus</i>	-	-	-	-	-	-	-	1	-	-
		Dytiscidae	<i>Potamonectes depressus</i> <i>elegans</i> (adult)	-	-	-	-	-	-	-	-	-	2
		Elmidae	<i>Elmis aenea</i> (larvae)	-	-	-	-	-	-	-	2	-	-
		Elmidae	<i>Limnius volckmari</i> (adult)	-	-	-	-	-	-	1	-	4	-
		Elmidae	<i>Limnius volckmari</i> (larvae)	-	-	-	-	-	-	42	-	64	1
		Elmidae	<i>Oulimnius tuberculatus</i> (adult)	-	-	-	-	-	-	1	3	6	2
		Elmidae	<i>O. tuberculatus</i> (larvae)	-	-	-	-	-	-	-	10	32	18

Macroinvertebrate taxa				Grab samples spring 2006			Grab samples autumn 2006			Kick samples spring 2006		Kick samples autumn 2006		
Class	Order	Family	Species	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3	Site 1	Site 2	Site 1	Site 2	
Insecta	Coleoptera	Halipilidae	<i>Haliplus</i> sp. (adult)	-	-	-	-	-	-	4	2	1	3	
		Halipilidae	<i>Haliplus</i> sp. (larvae)	-	1	-	1	-	-	4	2	1	1	
		Hydrophilidae	<i>Laccobius biguttatus</i>	-	-	-	-	-	-	-	-	48	-	
	Diptera	Ceratopogonidae	indet.	3	4	-	4	1	-	4	3	1	-	
		Chironomidae	Chironominae indet.	51	111	20	58	98	107	16	48	14	7	
		Chironomidae	Orthoclaadiinae indet.	1	4	-	-	-	-	-	-	2	2	
		Chironomidae	Tanypodinae indet.	1	10	4	2	4	8	8	-	4	1	
		Chironomidae	pupae indet.	5	12	-	-	-	-	-	-	-	-	
		Stratiomyidae	indet.	-	-	-	-	-	-	-	-	-	8	-
		Tipulidae	indet.	-	-	-	-	-	-	-	-	-	8	-
		Ephemeroptera	Caenidae	<i>Caenis horaria</i>	-	-	-	-	1	-	-	-	-	-
			Caenidae	<i>Caenis luctuosa</i>	60	43	4	274	93	2	227	39	243	50
			Ephemeridae	<i>Ephemera danica</i>	-	-	-	-	-	-	-	-	1	-
		Heptageniidae	<i>Heptagenia</i> sp.	-	-	-	-	-	-	-	-	6	1	
	Hemiptera	Corixinae	indet.	-	-	-	-	-	-	5	5	1	-	
	Megaloptera	Sialidae	<i>Sialis lutaria</i>	-	-	-	-	-	-	-	7	3	-	
	Odonata [†]		indet.	-	-	-	-	-	-	-	-	4	-	
	Odonata *		indet.	-	-	-	-	-	-	1	-	-	-	
	Trichoptera	Lepidostomatidae	<i>Lepidostoma hirtum</i>	-	1	-	-	-	-	-	1	-	1	
		Leptoceridae	<i>Athripsodes aterrimus</i>	-	-	-	-	-	-	-	-	-	1	-
		Leptoceridae	<i>Athripsodes cinereus</i>	-	-	-	1	-	-	-	-	-	1	
		Leptoceridae	<i>Mystacides longicornis</i>	-	2	1	-	-	-	-	1	11	13	
		Leptoceridae	<i>Oectis</i> sp. indet.	2	-	-	-	-	-	-	-	-	-	
		Leptoceridae	<i>Oectis ochracea</i>	-	-	-	10	-	-	-	-	-	2	
		Limnephilidae	indet. instar 2	-	-	-	-	-	1	-	-	-	-	
		Limnephilidae	<i>Halesus radiatus</i>	-	-	-	-	-	-	1	-	-	-	
		Limnephilidae	<i>Limnephilus fuscinervis</i>	-	-	-	-	-	-	1	-	-	-	
		Limnephilidae	<i>Limnephilus lunatus</i>	-	-	-	-	-	-	1	-	-	-	
	Limnephilidae	<i>Limnephilus marmoratus</i>	-	-	-	-	-	-	1	-	-	-		

* all suborder Zygoptera; † all suborder Anisoptera

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Class	Order	Family	Species	Site 1	Site 2	Site 3	Site 1	Site 2	Site 3	Site 1	Site 2	Site 1	Site 2
Insecta	Trichoptera	Limnephilidae	<i>Limnephilus rhombicus</i>	-	-	-	-	-	-	-	1	-	-
		Limnephilidae	<i>Limnephilus vittatus</i>	-	-	-	-	-	-	-	1	-	-
		Phryganeidae	<i>Agrypnia obsoleta</i>	-	-	-	-	1	-	-	-	1	1
		Phryganeidae	<i>Phryganea grandis</i>	2	-	-	-	-	-	-	-	-	1
		Polycentropodidae	indet.	1	-	-	2	2	-	-	-	-	-
		Polycentropodidae	<i>Crynus flavidus</i>	-	-	-	-	-	-	-	1	-	-
		Polycentropodidae	<i>Crynus trimaculatus</i>	-	-	-	-	-	-	-	-	-	2
		Polycentropodidae	<i>Holocentropus dubius</i>	-	-	-	2	-	-	-	-	2	-
		Polycentropodidae	<i>Neureclipsis bimaculata</i>	-	-	-	-	-	-	-	-	-	1
		Polycentropodidae	<i>Polycentropus flavomaculatus</i>	-	-	-	-	-	-	26	59	1	4
		Psychomyiidae	<i>Metalype fragilis</i>	-	-	-	-	-	-	9	1	1	1
		Psychomyiidae	<i>Tinodes maculicornis</i>	-	-	-	-	-	-	-	-	2	-
		Psychomyiidae	<i>Tinodes waeneri</i>	-	-	-	-	-	-	373	340	4	-
		Sericostomatidae	<i>Sericostoma personatum</i>	-	3	-	1	-	-	-	4	1	1
Maxillopoda	Arguloidea	Argulidae	<i>Argulus</i> sp.	-	-	-	-	-	-	-	-	1	1
Oligochaeta			indet.	4	-	4	-	-	-	190	565	50	164