

APPENDIX 11.3:

Macro-invertebrate diversity in Maine and northeastern U.S., by family.

Maine data are from MABP database, from multiple sources. New England data (6 states, excluding New York) are from a compilation of data by Chandler and Loose (2001) that includes information for all states, but appears to focus on Massachusetts. Species totals include taxa that are identified only to genus level (i.e. genera without any species indicated).

Appendix 11.3

Taxa				MABP records			New England records	
Phylum	Class	Order	Family	# Genera	# Spp	% "Orphan" Genera ***	# Genera	# Spp
Annelida	Polychaeta	Sabellida	Sabellidae	0	0		0	0
Annelida	Polychaeta	Sabellida	Aeolosomatidae	2	2	100	--	--
Annelida	Clitellata	Lumbiculida	Lubriculidae	4	4	75	2	3
Annelida	Clitellata	Enchytraeida	Enchytraeidae				?	?
Annelida	Clitellata	Haplotoxida	Naididae	14	35	7	10	18
Annelida	Clitellata	Haplotoxida	Tubificidae	6	12	17	5	10
Annelida	Clitellata	Lumbricida	Glossoscolecidae				--	--
Annelida	Clitellata	Branchiobdellida	Bdelodrilidae	1	1	0	1	1
Annelida	Clitellata	Branchiobdellida	Branchiobdellidae	1	1	0	1	1
Annelida	Clitellata	Branchiobdellida	Cambarincolidae	2	4	0	2	4
Annelida	Clitellata	Rhynchobdellida	Glossiphoniidae	7	7	0	6	16
Annelida	Clitellata	Rhynchobdellida	Piscicolidae	4	4	0	4	4
Annelida	Clitellata	Arhynchobdellida	Hirudinidae	2	2	0	2	4
Annelida	Clitellata	Arhynchobdellida	Erpobdellidae	4	5	0	4	8
Arthropoda	Malacostraca	Isopoda	Asellidae	2	4	50	2	4
Arthropoda	Malacostraca	Amphipoda	Gammaridae	1	1	0	1	4
Arthropoda	Malacostraca	Amphipoda	Crangonyctidae	2	2	0	2	7
Arthropoda	Malacostraca	Amphipoda	Talitridae	1	1	0	1	1
Arthropoda	Malacostraca	Amphipoda	Pontoporeidae	0	0		1	1
Arthropoda	Malacostraca	Decapoda	Cambaridae	3	9	0	3	11
Arthropoda	Malacostraca	Decapoda	Palaemonidae	0	0		1	2
Arthropoda	Malacostraca	Mysidacea	Mysidaceae	1	1	0	1	1
Arthropoda	Insecta	Collembola	Poduridae	1	0	100	1	1
Arthropoda	Insecta	Collembola	Isotomidae	1	0	100	1	1
Arthropoda	Insecta	Collembola	Entomobryidae	0	0		1	1
Arthropoda	Insecta	Collembola	Sminthuridae	1	0	100	1	1
Arthropoda	Insecta	Plecoptera	Nemouridae	10	18	10	9	20
Arthropoda	Insecta	Plecoptera	Taeniopterygidae	5	9	0	6	11
Arthropoda	Insecta	Plecoptera	Capniidae	5	15	0	5	15
Arthropoda	Insecta	Plecoptera	Leuctridae	2	13	0	3	13
Arthropoda	Insecta	Plecoptera	Pteronarcyidae	1	5	0	2	7

Appendix 11.3 (cont.)

Taxa				MABP records			New England records	
Phylum	Class	Order	Family	# Genera	# Spp	% "Orphan" Genera ***	# Genera	# Spp
Arthropoda	Insecta	Plecoptera	Peltoperlidae	2	2	0	2	2
Arthropoda	Insecta	Plecoptera	Perlodidae	8	29	13	11	36
Arthropoda	Insecta	Plecoptera	Chloroperlidae	6	18	0	5	19
Arthropoda	Insecta	Plecoptera	Perlidae	8	16	0	10	23
Arthropoda	Insecta	Odonata	Aeshnidae	7	22	0	7	24
Arthropoda	Insecta	Odonata	Gomphidae	11	33	9	11	33
Arthropoda	Insecta	Odonata	Libellulidae	13	40	0	11	44
Arthropoda	Insecta	Odonata	Corduligastridae	4	4	0	1	5
Arthropoda	Insecta	Odonata	Macromiidae	2	3	0	2	2
Arthropoda	Insecta	Odonata	Corduliidae	7	28	0	7	28
Arthropoda	Insecta	Odonata	Calopterygidae	2	5	0	2	5
Arthropoda	Insecta	Odonata	Lestidae	1	10	0	2	10
Arthropoda	Insecta	Odonata	Coenagrionidae	7	39	0	7	43
Arthropoda	Insecta	Odonata	Petaluridae	0	0		1	1
Arthropoda	Insecta	Ephemeroptera	Baetidae	13	58	0	11	28
Arthropoda	Insecta	Ephemeroptera	Heptageniidae	9	45	0	9	37
Arthropoda	Insecta	Ephemeroptera	Metretopodidae	2	2	0	2	3
Arthropoda	Insecta	Ephemeroptera	Siphonuridae	4	16	0	2	9
Arthropoda	Insecta	Ephemeroptera	Isonychiidae	2	5	0	1	3
Arthropoda	Insecta	Ephemeroptera	Leptophlebiidae	5	15	0	5	17
Arthropoda	Insecta	Ephemeroptera	Ephemeridae	3	7	0	3	6
Arthropoda	Insecta	Ephemeroptera	Polymitarcyidae	1	1	0	1	1
Arthropoda	Insecta	Ephemeroptera	Potamanthidae	1	2	0	2	4
Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	7	36	14	6	32
Arthropoda	Insecta	Ephemeroptera	Leptohyphidae	1	4	0	1	3
Arthropoda	Insecta	Ephemeroptera	Caenidae	2	10	0	2	3
Arthropoda	Insecta	Ephemeroptera	Baetiscidae	1	9	0	1	4
Arthropoda	Insecta	Ephemeroptera	Ameletidae	0	0		1	2
Arthropoda	Insecta	Hemiptera	Corixidae	7	25	43	8	59
Arthropoda	Insecta	Hemiptera	Belostomatidae	2	2	0	2	5
Arthropoda	Insecta	Hemiptera	Nepidae	2	4	0	2	4
Arthropoda	Insecta	Hemiptera	Naucoridae	0	0		1	1
Arthropoda	Insecta	Hemiptera	Notonectidae	2	4	0	2	7

Appendix 11.3 (cont.)

Taxa				MABP records			New England records	
Phylum	Class	Order	Family	# Genera	# Spp	%"Orphan" Genera ***	# Genera	# Spp
Arthropoda	Insecta	Hemiptera	Gerridae	5	8	60	6	15
Arthropoda	Insecta	Hemiptera	Hebridae	1	1	100	2	4
Arthropoda	Insecta	Hemiptera	Hydrometridae	2	1	50	1	1
Arthropoda	Insecta	Hemiptera	Mesoveliidae	1	1	100	1	3
Arthropoda	Insecta	Hemiptera	Veliidae	2	5	0	2	6
Arthropoda	Insecta	Hemiptera	Saldidae	3	3	67	4	12
Arthropoda	Insecta	Hemiptera	Pleidae	0	0		1	1
Arthropoda	Insecta	Hemiptera	Ceratocombidae	0	0		1	1
Arthropoda	Insecta	Hemiptera	Ochteridae	0	0		1	1
Arthropoda	Insecta	Trichoptera	Philopotamidae	3	5	0	3	6
Arthropoda	Insecta	Trichoptera	Psychomyiidae	3	4	0	2	3
Arthropoda	Insecta	Trichoptera	Dipseudopsidae	1	4	0	1	4
Arthropoda	Insecta	Trichoptera	Polycentropodidae	6	27	33	5	37
Arthropoda	Insecta	Trichoptera	Hydropsychidae	8	40	13	10	47
Arthropoda	Insecta	Trichoptera	Rhyacophilidae	1	15	0	1	21
Arthropoda	Insecta	Trichoptera	Glossosomatidae	4	11	0	3	12
Arthropoda	Insecta	Trichoptera	Hydroptilidae	12	58	0	11	66
Arthropoda	Insecta	Trichoptera	Phryganeidae	8	18	13	7	19
Arthropoda	Insecta	Trichoptera	Brachycentridae	2	12	0	3	11
Arthropoda	Insecta	Trichoptera	Goeridae	1	2	0	1	3
Arthropoda	Insecta	Trichoptera	Limnephilidae	20	54	5	20	63
Arthropoda	Insecta	Trichoptera	Uenoidae	1	4	0	1	6
Arthropoda	Insecta	Trichoptera	Lepidostomatidae	1	12	0	2	22
Arthropoda	Insecta	Trichoptera	Beraeidae	1	1	0	1	1
Arthropoda	Insecta	Trichoptera	Sericostomatidae	1	2	0	1	2
Arthropoda	Insecta	Trichoptera	Odontoceridae	1	4	0	2	6
Arthropoda	Insecta	Trichoptera	Molannidae	1	5	0	1	5
Arthropoda	Insecta	Trichoptera	Helicopsychidae	1	1	0	1	1
Arthropoda	Insecta	Trichoptera	Calamoceratidae	1	1	0	1	1
Arthropoda	Insecta	Trichoptera	Leptoceridae	10	45	10	7	51
Arthropoda	Insecta	Megaloptera	Corydalidae	3	4	0	3	4
Arthropoda	Insecta	Megaloptera	Sialidae	1	5	0	1	8
Arthropoda	Insecta	Neuroptera	Sisyridae	2	2	0	2	3

Appendix 11.3 (cont.)

Taxa				MABP records			New England records	
Phylum	Class	Order	Family	# Genera	# Spp	% "Orphan" Genera ***	# Genera	# Spp
Arthropoda	Insecta	Lepidoptera	Pyralidae	6	6	50	5	6
Arthropoda	Insecta	Diptera	Tipulidae	51	292	4	28	109
Arthropoda	Insecta	Diptera	Psychodidae	2	2	100	3	3
Arthropoda	Insecta	Diptera	Ptychopteridae	2	2	100	2	2
Arthropoda	Insecta	Diptera	Nymphomyiidae	1	1	0	1	1
Arthropoda	Insecta	Diptera	Blephariceridae	1	1	0	1	1
Arthropoda	Insecta	Diptera	Dixidae	2	2	100	2	5
Arthropoda	Insecta	Diptera	Chaoboridae	4	4	75	4	12
Arthropoda	Insecta	Diptera	Culicidae	10	44	0	10	50
Arthropoda	Insecta	Diptera	Thaumaleidae	1	1	100	1	1
Arthropoda	Insecta	Diptera	Ceratopogonidae	13	13	92	13	15
Arthropoda	Insecta	Diptera	Chironomidae	128	226	53	111	174
Arthropoda	Insecta	Diptera	Simuliidae	9	51	11	6	24
Arthropoda	Insecta	Diptera	Stratiomyidae	6	7	83	6	19
Arthropoda	Insecta	Diptera	Tabanidae	5	36	20	5	73
Arthropoda	Insecta	Diptera	Athericidae	1	2	0	1	2
Arthropoda	Insecta	Diptera	Empididae	5	4	100	4	4
Arthropoda	Insecta	Diptera	Dolichopodidae	0	0		1	1
Arthropoda	Insecta	Diptera	Phoridae	1	1	100	2	3
Arthropoda	Insecta	Diptera	Syrphidae	2	2	100	2	2
Arthropoda	Insecta	Diptera	Sciomyzidae	13	13	69	16	42
Arthropoda	Insecta	Diptera	Ephydriidae	2	2	50	3	3
Arthropoda	Insecta	Diptera	Muscidae	4	4	75	5	15
Arthropoda	Insecta	Diptera	Scathophagidae		0		3	16
Arthropoda	Insecta	Diptera	Tanyderidae		0		1	1
Arthropoda	Insecta	Coleoptera	Noteridae	1	1	0	1	1
Arthropoda	Insecta	Coleoptera	Dytiscidae	30	112	7	32	154
Arthropoda	Insecta	Coleoptera	Gyrinidae	2	27	0	2	31
Arthropoda	Insecta	Coleoptera	Hydrophilidae	18	56	11	17	56
Arthropoda	Insecta	Coleoptera	Hydraenidae	1	1	0	3	4
Arthropoda	Insecta	Coleoptera	Scirtidae	5	10	20	5	20
Arthropoda	Insecta	Coleoptera	Psephenidae	2	2	0	2	2
Arthropoda	Insecta	Coleoptera	Ptilodactylidae	2	2	0	2	3

Appendix 11.3 (cont.)

Taxa				MABP records			New England records	
Phylum	Class	Order	Family	# Genera	# Spp	%"Orphan" Genera ***	# Genera	# Spp
Arthropoda	Insecta	Coleoptera	Limnichidae	2	2	50	1	3
Arthropoda	Insecta	Coleoptera	Dryopidae	3	4	33	1	4
Arthropoda	Insecta	Coleoptera	Elmidae	10	34	10	9	25
Arthropoda	Insecta	Coleoptera	Chrysomelidae	3	6	0	6	29
Arthropoda	Insecta	Coleoptera	Curculionidae	2	2	50	4	9
Arthropoda	Insecta	Coleoptera	Staphylinidae	1	2	0	2	10
Arthropoda	Insecta	Coleoptera	Haliplidae	2	20	0	3	19
Arthropoda	Insecta	Coleoptera	Lampyridae	3	5	0	0	9
Arthropoda	Arachnida	Acariformes	Hygrobatidae	2	2	100	2 **	
Arthropoda	Arachnida	Acariformes	Hydrachnidae	1	1	100	1 **	
Arthropoda	Arachnida	Acariformes	Hydrozetidae	1	1	100		
Arthropoda	Arachnida	Acariformes	Torrenticolidae	2	2	100	2 **	
Arthropoda	Arachnida	Acariformes	Lebertiidae	1	1	100	1 **	
Arthropoda	Arachnida	Acariformes	Pionidae	4	4	100	12 **	
Arthropoda	Arachnida	Acariformes	Sperchontidae	2	2	100	2 **	
Arthropoda	Arachnida	Acariformes	Unionicolidae	2	2	100	3 **	
Arthropoda	Arachnida	Acariformes	Anisitsiellidae	1	1	100	1 **	
Arthropoda	Arachnida	Acariformes	Limnocharidae	1	1	100	3 **	
Arthropoda	Arachnida	Acariformes	Arrenuridae	1	1	100	1 **	
Arthropoda	Arachnida	Acariformes	Axonopsidae	3	3	100		
Arthropoda	Arachnida	Acariformes	Hydrodromidae	1	1	100	1 **	
Arthropoda	Arachnida	Acariformes	Limnesiidae	1	1	100	3 **	
Arthropoda	Arachnida	Acariformes	Mideopsidae	1	1	100	2 **	
Mollusca	Gastropoda	Heterostropha	Valvatidae	1	4	0	1	2
Mollusca	Gastropoda	Heterostropha	Bithyniidae		0		0	0
Mollusca	Gastropoda	Heterostropha	Hydrobiidae	3	7	0	6	8
Mollusca	Gastropoda	Heterostropha	Potamiopsidae	1	1	100	1	1
Mollusca	Gastropoda	Heterostropha	Pleuroceridae	0	0		2	2
Mollusca	Gastropoda	Basommatophora	Lymnaeidae	4	16	0	5	7
Mollusca	Gastropoda	Basommatophora	Physidae	3	8	0	2	5
Mollusca	Gastropoda	Basommatophora	Planorbidae	7	12	0	5	9
Mollusca	Gastropoda	Basommatophora	Ancylidae	3	7	0	2	5

Taxa				MABP records			New England records	
Phylum	Class	Order	Family	# Genera	# Spp	%"Orphan" Genera ***	# Genera	# Spp
Mollusca	Bivalvia	Unionoida	Margaritiferidae	1	1	0	1	1
Mollusca	Bivalvia	Unionoida	Unionidae	8	12	0	10	19
Mollusca	Bivalvia	Veneroida	Sphaeriidae	4	26	0	3	23

Appendix 11.3 (end)