

APPENDIX 1. Length-mass regression equations based on total body length (unless otherwise indicated in parentheses). Equations are of the form $DM = aL^b$, where DM = dry mass (mg), L = body length (mm), and a and b are fitted constants. * indicates that ash-free dry mass (AFDM) was used instead of DM; for these regressions, % ash content of DM is given. f = female, m = male, and A = adult (Coleoptera only). Other abbreviations (FR, BC, PR; see source paper) represent different collection sites. All regressions are significant at $p < 0.05$. n = number of individuals included in regression, range = range of body lengths (mm) included in regression, state = state or province where individuals were collected, source = reference or individual (unpublished): ADH = Alexander D. Huryn, LAS = Leonard A. Smock, ACB = Arthur C. Benke, JBW = J. Bruce Wallace.

APPENDIX 1. Continued.

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Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
<i>Drunella</i> sp.	0.0257 ± 0.0025	2.252 ± 0.352	0.62	28	2.4–9.8	VA	LAS	
<i>Drunella</i> sp.	0.0019	3.46	0.91	256			OR	Hawkins 1986
<i>Ephemerella</i> sp.	0.0097 ± 0.0003	2.663 ± 0.104	0.89	84	2.7–8.8	GA	ACB	
<i>Ephemerella</i> sp.	0.0128 ± 0.0014	2.444 ± 0.266	0.81	46	2.1–7.7	VA	LAS	
<i>Eurylophella temporalis</i>	0.0080 ± 0.0011	2.663 ± 0.210	0.94	74	1.7–6.1	VA	LAS	
<i>E. terisimilis</i>	0.0051	2.442				QC	Lauzon and Harper 1988	
<i>Serratella</i> sp.	0.0088 ± 0.0015	2.584 ± 0.479	0.76	24	2.3–8.0	VA	LAS	
<i>Serratella</i> sp.	0.0103 ± 0.0010	2.903 ± 0.072	0.99	10	0.6–7.1	4.2 ± 0.5	NC	ADH and JBW
<i>Ephemeridae</i>								
<i>Ephemerella</i> sp.*	0.0021 ± 0.0003	2.737 ± 0.079	0.99	14	0.9–22.4	18.8 ± 3.2	AL	ADH
<i>Hexagenia limbata</i>	0.0025	2.718	0.94	32			KS	Horst and Marzolf 1975
<i>H. limbata</i>	0.0024	2.710	0.98				SD/NE	Hudson and Swanson 1972
<i>H. munda</i>	0.0062 ± 0.0003	2.891 ± 0.113	0.79	21	3.3–24.6	NC	Smock 1980	
<i>Heptageniidae</i>								
<i>Epeorus</i> cf. <i>dispar</i> *	0.0249	2.73	0.98	85			ON	Rove and Berrill 1989
<i>E. pleuralis</i> *	0.0121 ± 0.0021	2.667 ± 0.125	0.98	10	0.5–9.1	4.7 ± 0.5	NC	ADH and JBW
<i>E. pleuralis</i> *	0.0119 ± 0.0010	2.824 ± 0.058	0.99	14	0.5–9.0	6.0 ± 0.5	NC	ADH and JBW
<i>Epeorus</i> sp.	0.0056 ± 0.0020	2.926 ± 0.355	0.55	18	1.3–11.6	VA	LAS	
<i>Heptagenia</i> sp.	0.0180 ± 0.0010	2.326 ± 0.040	0.72	90	1.3–9.7	NC	Smock 1980	
<i>Heptagenia</i> sp.	0.0087 ± 0.0005	2.731 ± 0.198	0.95	11	2.8–9.8	GA	ACB	
<i>Leucrocuta</i> sp.*	0.0110 ± 0.0007	2.761 ± 0.051	1.00	9	1.5–6.5	9.7 ± 1.4	NC	ADH and JBW
<i>Nixe</i> sp.*	0.0080 ± 0.0008	2.919 ± 0.079	0.99	9	1.1–5.9	6.4 ± 0.7	NC	ADH and JBW
<i>Stenacron carolina</i> *	0.0057 ± 0.0009	2.782 ± 0.102	0.99	10	0.7–10.5	6.9 ± 0.8	NC	ADH and JBW
<i>S. interpunctatum</i>	0.0067 ± 0.0008	2.807 ± 0.087	0.88	45	1.0–10.9	NC	Smock 1980	
<i>S. meritorium</i> *	0.0101 ± 0.0004	2.891 ± 0.021	1.00	10	0.7–12.3	5.3 ± 0.7	NC	ADH and JBW
<i>Stenonema modestum</i>	0.0078 ± 0.0002	2.871 ± 0.027	0.88	128	0.8–12.1	NC	Smock 1980	
<i>S. modestum</i>	0.0101 ± 0.0016	2.636 ± 0.186	0.81	52	1.0–10.7	VA	LAS	
<i>Stenonema</i> spp.	0.0047	2.819				QC	Lauzon and Harper 1988	
<i>Isonychiidae</i>								
<i>Isonychia</i> sp.	0.0031 ± 0.0007	3.167 ± 0.023	0.88	107	2.2–13.2	NC	Smock 1980	
<i>Isonychia</i> spp.	0.0031	2.918	0.97	123	2.6–12.9	GA	Benke and Jacobi 1994	
<i>Leptophlebiidae</i>								
<i>Habrophlebia vibrans</i> *	0.0047 ± 0.0006	2.566 ± 0.113	0.99	7	0.9–5.7	6.0 ± 0.7	NC	ADH and JBW
<i>H. vibrans</i>	0.0028	2.488				QC	Lauzon and Harper 1988	
<i>Leptophlebia</i> sp.	0.0054 ± 0.0009	2.836 ± 0.222	0.78	25	1.2–8.4	VA	LAS	
<i>Paraleptophlebia</i> spp.*	0.0038 ± 0.0006	2.918 ± 0.119	0.99	8	0.9–7.4	7.5 ± 0.5	NC	ADH and JBW
<i>Paraleptophlebia</i> sp.	0.0061 ± 0.0005	2.624 ± 0.189	0.88	55	1.0–7.8	VA	LAS	

APPENDIX 1. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
Polymitarcyidae								
<i>Ephoron album</i>	0.002	3.05	0.89		5–14		MB	Giberson and Galloway 1985
Siphlonuridae								
<i>Siphlonisca aerodromia</i> *	0.0002 ± 0.0002	3.610 ± 0.272	0.90	20	6.0–21.0	8.4 ± 0.8	ME	ADH
<i>Siphlonurus</i> sp.*	0.0001 ± 0.0000	4.140 ± 0.150	0.96	30	5.4–18.0	4.0 ± 0.8	ME	ADH
Tricorythidae								
<i>Tricorythodes minutus</i>	0.0092	3.222					ID	McCullough et al. 1979a
<i>Tricorythodes</i> sp.	0.0029 ± 0.0040	3.165 ± 0.253	0.77	19	1.7–7.1		VA	LAS
ODONATA								
Zygoptera								
Calopterygidae								
<i>Calopteryx</i> sp.	0.0050 ± 0.0008	2.742 ± 0.222	0.87	25	2.0–16.1		VA	LAS
Coenagrionidae								
<i>Argia</i> spp.	0.0086 ± 0.0018	2.666 ± 0.130	0.83	23	4.1–15.2		NC	Smock 1980
<i>Ischnura</i> spp.	0.0015 ± 0.0001	2.904 ± 0.180	0.96	13	2.9–13.3		SC	ACB
Anisoptera								
Aeshnidae								
<i>Boyeria vinosa</i>	0.0082 ± 0.0021	2.813 ± 0.087	0.94	11	3.3–35.4		NC	Smock 1980
<i>Cordulegastridae</i>								
<i>Cordulegaster maculata</i>	0.0067 ± 0.0012	2.782 ± 0.242	0.81	18	3.2–38.1		VA	LAS
Corduliidae								
<i>Epitheca cymosura</i>	0.0090 ± 0.0004	2.757 ± 0.103	0.94	48	2.5–19.7		SC	ACB
<i>E. semiaquae</i>	0.0074 ± 0.0007	2.720 ± 0.359	0.76	17	4.2–29.3		VA	LAS
<i>Neurocordulia molesta</i>	0.0124 ± 0.0006	2.884 ± 0.142	0.89	54	3.0–19.0		GA	ACB
Gomphidae								
<i>Dromogomphus</i> sp.	0.0180 ± 0.0016	2.239 ± 0.317	0.83	12	8.5–19.0		SC	ACB
<i>Gomphus</i> spp.	0.0044 ± 0.0006	3.124 ± 0.297	0.85	9	4.8–26.6		NC	Smock 1980
<i>Gomphus</i> spp.	0.0060 ± 0.0008	2.847 ± 0.388	0.90	24	3.0–37.1		VA	LAS
<i>Lanthus vernalis</i> *	0.0097	2.895	0.98	9	0.9–16.0		NC	ADH
<i>Progomphus obscurus</i>	0.0057 ± 0.0012	2.831 ± 0.322	0.74	28	3.9–23.0		VA	LAS
Libellulidae								
<i>Cellithemis fasciata</i>	0.0058 ± 0.0003	2.877 ± 0.098	0.95	44	2.1–16.3		SC	ACB
<i>Erythemis simplicicollis</i>	0.0061 ± 0.0009	3.089 ± 0.411	0.89	9	4.2–12.5		SC	ACB
<i>Ladona deplanata</i>	0.0072 ± 0.0003	2.618 ± 0.117	0.94	37	6.5–23.8		SC	ACB
<i>Libellula</i> spp.	0.0151 ± 0.0013	2.393 ± 0.262	0.83	19	6.3–16.5		SC	ACB

APPENDIX 1. Continued.

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PLECOPTERA								
<i>Capniidae</i>								
<i>Allocapnia</i> spp.	0.0047 ± 0.0004	2.761 ± 0.156	0.79	29	1.4–6.7		NC	LAS
<i>Allocapnia</i> spp.	0.0057 ± 0.0003	2.439 ± 0.199	0.92	25	1.3–7.0		VA	LAS
<i>Allocapnia</i> spp.*	0.0040 ± 0.0006	2.487 ± 0.122	0.98	10	0.7–6.9	4.7 ± 1.0	NC	ADH and JBW
<i>Chloroperlidae</i>								
<i>Swezeyia</i> sp.*	0.0062 ± 0.0019	2.724 ± 0.213	0.95	10	0.7–8.6	3.9 ± 1.3	NC	ADH and JBW
<i>Leuctridae</i>								
<i>Leuctra</i> sp.	0.0025 ± 0.0003	2.744 ± 0.100	0.88	34	2.2–7.2		VA	LAS
<i>Leuctra</i> sp.*	0.0030 ± 0.0003	2.694 ± 0.065	1.00	9	0.6–7.7	4.9 ± 0.7	NC	ADH and JBW
<i>Nemouridae</i>								
<i>Amphinemura</i> wui*	0.0071 ± 0.0008	2.678 ± 0.084	0.99	9	0.8–6.5	4.2 ± 0.4	NC	ADH and JBW
<i>Amphinemura</i> spp.	0.0040 ± 0.0005	2.975 ± 0.178	0.88	62	1.0–6.9		VA	LAS
<i>Prostoa completa</i>	0.0055 ± 0.0003	2.633 ± 0.126	0.96	38	0.9–6.2		VA	LAS
<i>Peltoperlidae</i>								
<i>Tallaperla maria</i>	0.0141	2.62	0.89	289				
<i>Tallaperla</i> sp.*	0.0194 ± 0.0014	2.853 ± 0.058	1.00	12	0.6–9.9	2.6 ± 0.5	NC	Stout et al. 1993
<i>Perlidae</i>								
<i>Acronerius abnormis</i>	0.0061 ± 0.0005	3.000 ± 0.420	0.94	22	4.2–26.1		NC	LAS
<i>A. lycoicus</i> (FR)	0.0129	2.8	0.97				MI	Eggert and Burton 1994
<i>A. lycoicus</i> (PR)	0.0101	2.9	0.97				MI	Eggert and Burton 1994
<i>Acronerius</i> spp.	0.0019 ± 0.0001	3.232 ± 0.160	0.89	52	3.4–17.0		GA	ACB
<i>Agnetina capitata</i>	0.0144 ± 0.0015	2.688 ± 0.322	0.76	21	3.0–11.2		VA	LAS
<i>Belonera georgiana</i> *	0.0079 ± 0.0007	2.844 ± 0.050	1.00	11	1.3–18.7	3.9 ± 0.9	NC	ADH and JBW
<i>B. georgiana</i>	0.0094 ± 0.0011	2.766 ± 0.262	0.86	31	3.3–19.5		VA	LAS
<i>Eccoptura xanthenes</i>	0.0030 ± 0.0003	3.232 ± 0.185	0.96	18	5.8–20.0		NC	LAS
<i>Neoperla clymene</i>	0.0429 ± 0.0051	1.950 ± 0.356	0.67	17	3.8–14.0		GA	ACB
<i>Paragnetina kansensis</i>	0.0093 ± 0.0006	2.797 ± 0.167	0.82	63	4.0–22.0		GA	ACB
<i>Perlesta placida</i>	0.0030 ± 0.0001	3.020 ± 0.143	0.85	83	3.7–10.2		GA	ACB
<i>Perlesta</i> sp.	0.0037 ± 0.0003	3.080 ± 0.150	0.81	15	2.5–11.5		NC	Smock 1980
<i>Peltinella drymo</i>	0.0034 ± 0.0003	3.123 ± 0.203	0.81	18	3.3–16.9		VA	LAS
<i>Perlodidae</i>								
<i>Cloperla</i> clio	0.0037 ± 0.0002	2.931 ± 0.213	0.83	26	2.4–13.2		NC	LAS
<i>C. clio</i>	0.0054 ± 0.0005	2.762 ± 0.290	0.77	50	2.9–14.3		VA	LAS

APPENDIX 1. Continued.

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Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
<i>Brachycentrus etowahensis</i>	0.0025 ± 0.0008	3.443 ± 0.037	0.98	224	2.0–13.0	11.7 ± 0.5	GA	JBW
<i>Brachycentrus</i> sp.	0.0025 ± 0.0005	2.600 ± 0.421	0.66	26	2.2–10.4	VA	LAS	
<i>Micrasema</i> sp.*	0.0181 ± 0.0019	2.410 ± 0.087	0.97	22	1.0–5.4	7.2 ± 0.6	AL	ADH
<i>Glossosomatidae</i>								
<i>Glossosoma nigrior</i> *	0.0065	3.028	0.98	61	0.7–6.3	6.6 ± 0.5	AL	Jin 1995
<i>Glossosoma</i> sp.*	0.0092 ± 0.0015	2.888 ± 0.134	0.96	20	1.2–5.8	4.3 ± 1.2	AL	ADH
<i>Heleopsychidae</i>								
<i>Heleopsychae</i> sp.* (case width)	0.0120 ± 0.0014	3.096 ± 0.129	0.96	28	1.3–4.3	4.3 ± 1.2	AL	ADH
<i>Hydropsychidae</i>								
<i>Cheumatopsyche</i> spp.	0.0049 ± 0.0006	2.620 ± 0.308	0.69	58	1.4–12.0	NC	LAS	
<i>Cheumatopsyche</i> spp.	0.0045 ± 0.0005	2.721 ± 0.300	0.83	47	1.1–11.8	VA	LAS	
<i>Hydropsyche elissoma</i>	0.0058 ± 0.0003	2.491 ± 0.143	0.93	26	2.4–10.0	GA	ACB	
<i>H. incommoda</i>	0.00053 ± 0.00003	4.179 ± 0.179	0.90	43	2.6–9.0	GA	ACB	
<i>H. occidentalis</i>	0.0041	2.970	0.69	50	5.0	10.7 ± 0.6	ID	McCullough et al. 1979b
<i>H. sparna</i> *	0.0074 ± 0.0010	2.666 ± 0.073	0.99	20	1.0–14.4	AL	ADH	
<i>Hydropsyche</i> spp.	0.0051 ± 0.0007	2.824 ± 0.289	0.79	122	1.6–15.1	NC	LAS	
<i>Hydropsyche</i> spp.	0.0060 ± 0.0009	2.708 ± 0.323	0.71	36	1.3–14.3	VA	LAS	
<i>Macrostelemum carolina</i>	0.0026 ± 0.0003	3.117 ± 0.263	0.88	16	1.8–15.0	NC	LAS	
<i>M. carolina</i>	0.0039 ± 0.0003	2.966 ± 0.217	0.73	71	4.0–13.5	GA	ACB	
<i>Lepidostomatidae</i>								
<i>Lepidostoma</i> sp.	0.0079 ± 0.0009	2.649 ± 0.135	0.78	33	1.0–9.1	VA	LAS	
<i>Leptoceridae</i>								
<i>Oecetis</i> spp.	0.0034 ± 0.0006	3.212 ± 0.251	0.71	23	1.2–8.0	VA	LAS	
<i>Limnephiliidae</i>								
<i>Ironoquia parvula</i>	0.0041 ± 0.0004	2.933 ± 0.199	0.61	18	2.5–17.3	VA	LAS	
<i>Limnephilus</i> sp.*	0.0015 ± 0.0008	3.115 ± 0.214	0.87	32	5.6–19.2	ME	ADH	
<i>Pycnopsyche luculentia</i>	0.0052 ± 0.0003	2.832 ± 0.111	0.92	47	2.8–17.9	VA	LAS	
<i>P. sabriennis</i>	0.0049 ± 0.0003	2.850 ± 0.282	0.87	27	3.1–23.8	VA	LAS	
<i>Odontoceridae</i>								
<i>Psilotreta</i> sp.	0.0082 ± 0.0010	2.735 ± 0.200	0.76	18	1.5–13.0	VA	LAS	
<i>Psilotreta</i> sp.*	0.0064 ± 0.0008	3.241 ± 0.091	0.99	19	0.9–9.1	11.3 ± 2.1	AL	ADH
<i>Philopotamidae</i>								
<i>Chimarra</i> sp.	0.0049 ± 0.0008	2.480 ± 0.205	0.78	34	1.6–10.2	NC	LAS	
<i>Chimarra</i> sp.	0.0050 ± 0.0009	2.401 ± 0.598	0.64	29	1.8–9.4	VA	LAS	
<i>Chimarra</i> sp.*	0.0044 ± 0.0006	2.652 ± 0.092	0.97	27	0.8–11.2	12.1 ± 1.5	AL	ADH

APPENDIX 1. Continued.

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Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
DIPTERA								
<i>Anchyrtarsus bicolor*</i>	0.0011 ± 0.0003	3.100 ± 0.139	0.95	25	1.6–15.2	9.3 ± 2.1	AL	ADH
Athericidae	0.0038 ± 0.0022	2.586 ± 0.279	0.79	24	3.3–15.8	4.8 ± 0.3	AL	ADH
<i>Atherix</i> sp.*	0.0064 ± 0.0015	3.292 ± 0.188	0.98	8	0.9–4.7	4.3 ± 0.6	AL	ADH
Blephariceridae	0.00022 ± 0.00003	2.871 ± 0.255	0.91	15	2.2–10.8	ACB	ACB	
<i>Blepharicera</i> sp.*	0.0033 ± 0.0002	2.392 ± 0.163	0.66	18	1.0–7.3	Smock 1980	NC	
Ceratopogonidae	0.0039 ± 0.0007	2.144 ± 0.531	0.71	33	1.4–7.0	LAS	VA	
<i>Palpomyia</i> spp. group	0.0006	2.770	0.86	91	0.9–12.1	ADH	NC	
<i>Palpomyia</i> spp. group	0.0059 ± 0.0009	2.099 ± 0.235	0.88	50	1.7–10.8	LAS	VA	
Chironomidae*	0.0051 ± 0.0004	2.322 ± 0.124	0.88	61	1.8–7.3	Smock 1980	NC	
Chironominae	0.0007 ± 0.0009	2.952 ± 0.118	0.93	51	1.0–6.7	ACB	AL	
<i>Chironomus decorus</i>	0.00083	2.86	0.96	105	CA	Maier et al. 1990		
<i>Chironomus</i> spp.	0.00068 ± 0.00004	2.620 ± 0.112	0.96	26	2.0–13.7	ACB	ACB	
<i>Cladopelma</i> sp.	0.0010 ± 0.00008	2.606 ± 0.189	0.94	15	1.0–4.6	ACB	ACB	
<i>Dicrotendipes</i> sp.	0.00059 ± 0.00005	3.142 ± 0.312	0.87	17	2.6–6.7	ACB	ACB	
<i>Polyphemidium</i> spp.	0.0010 ± 0.00005	2.761 ± 0.110	0.98	18	1.3–5.7	ACB	ACB	
Tanytarsini	0.0008 ± 0.0012	2.728 ± 0.197	0.67	45	1.3–5.3	VA	LAS	
<i>Tanytarsus</i> spp.	0.0012 ± 0.00013	2.294 ± 0.317	0.81	14	1.6–5.8	ACB	AL	
Orthocladiinae	0.0020 ± 0.0006	2.254 ± 0.396	0.74	39	1.6–5.0	LAS	VA	
Tanypodinae	0.0026 ± 0.0005	2.503 ± 0.458	0.81	46	2.3–8.2	LAS	VA	
Tanypodinae	0.0038 ± 0.0006	2.411 ± 0.130	0.85	12	2.0–9.0	Smock 1980	NC	
<i>Ababesmyia</i> sp.	0.0010 ± 0.0009	2.884 ± 0.166	0.94	20	0.8–7.5	ACB	ACB	
<i>Procladius bellus</i>	0.0012	2.597	123	ON	Sephton and Paterson 1986			
<i>Procladius</i> spp.	0.00077 ± 0.00006	2.693 ± 0.154	0.91	32	1.0–9.8	ACB	AL	
Empididae	0.0066 ± 0.0010	2.436 ± 0.434	0.69	16	1.6–8.0	LAS	VA	
Empididae*	0.0040 ± 0.0015	2.655 ± 0.261	0.93	9	1.4–9.9	NC	ADH and JBW	
Sciariidae	0.0040 ± 0.0013	2.091 ± 0.218	0.94	7	1.5–7.4	NC	ADH and JBW	
Simuliidae	0.0048 ± 0.0007	2.550 ± 0.132	0.72	26	1.6–7.7	Smock 1980	NC	
<i>Prosimilium mixtum</i> / <i>fuscum</i>	0.0012 ± 0.0002	3.190 ± 0.080	0.94	612	MI	Merritt et al. 1982		
<i>Simulium decorum</i>	0.00119 ± 0.00059	2.692 ± 0.303	0.89	15	QC	Morin et al. 1988		
<i>S. tuberosum</i>	0.00025 ± 0.00013	3.342 ± 0.093	0.95	70	QC	Morin et al. 1988		
<i>S. venustum</i> <i>verecundum</i>	0.00055 ± 0.00012	3.036 ± 0.081	0.98	38	QC	Morin et al. 1988		

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<i>Simulium</i> spp.*	0.0031	2.64	0.90	24				
<i>Simulium</i> spp.*	0.0040 ± 0.0005	2.807 ± 0.122	0.99	9	0.7–5.2	7.9 ± 0.7	GA	Edwards and Meyer 1987
<i>Stegopterna mutata</i>	0.00042 ± 0.00011	3.830 ± 0.140	0.94	169			NC	ADH and JBW
Tabanidae							MI	Merritt et al. 1982
<i>Chrysops</i> / <i>Tabanus</i> spp.	0.0050 ± 0.0006	2.591 ± 0.105	0.81	20	1.9–16.4		VA	LAS
Tipulidae								
<i>Dicranota</i> sp.*	0.0027 ± 0.0007	2.637 ± 0.164	0.97	9	1.2–9.2	3.4 ± 0.6	NC	ADH and JBW
<i>Hexatomia</i> spp.*	0.0042 ± 0.0007	2.596 ± 0.108	0.97	19	1.0–12.6	3.0 ± 0.3	NC	ADH and JBW
<i>Lipsothrix</i> sp.*	0.0006 ± 0.0006	2.745 ± 0.388	0.92	5	2.8–16.0	3.5 ± 1.1	NC	ADH and JBW
<i>Molophilus</i> sp.*	0.0016 ± 0.0005	2.914 ± 0.194	0.97	8	1.2–9.5	5.3 ± 2.0	NC	ADH and JBW
<i>Pedicia</i> sp.*	0.0013 ± 0.0005	2.851 ± 0.221	0.96	8	2.2–16.0	3.5 ± 0.6	NC	ADH and JBW
<i>Pilaria</i> sp.*	0.0014 ± 0.0003	2.667 ± 0.124	0.98	8	2.6–11.1	2.4 ± 0.2	NC	ADH and JBW
<i>Tipula abdominalis</i>	0.0015 ± 0.0002	2.810 ± 0.190	0.88	27	4.0–31.1		VA	LAS
<i>T. abdominalis</i>	0.0054 ± 0.0003	2.463 ± 0.133	0.92	36	4.3–38.1		NC	LAS
<i>Tipula</i> sp.*	0.0064 ± 0.0034	2.443 ± 0.199	0.95	9	4.3–28.3	4.5 ± 0.6	NC	ADH and JBW

APPENDIX 2. Length-mass regression equations for Mollusca based on shell length or width. Equations are of the form $DM = aL^b$, where DM = dry mass of soft tissue (mg), L = maximum shell length (mm), and a and b are fitted constants. W indicates that maximum shell width was used instead of shell length. AW indicates that maximum shell width at aperture was used instead of shell length. * indicates that ash-free dry mass (AFDM) was used instead of DM; for these regressions, % ash content of DM (soft tissue) and % ash of total mass (including shell) are given. Sampling seasons are indicated by sum. = summer and spr. = spring. All other numbers or acronyms represent different collection sites (e.g., 10A, 10B; see source papers). For *Elminia* species, AG = Alligator Creek, CH = Choccolocco Creek, HM = Hendrick Mill Branch, MA = Marys Creek, RO = Rocky Branch, TE = Terrapin Creek; *Elminia* equations are revised from Huryn et al. (1994). All regressions are significant at $p = <0.05$. n = number of individuals included in regression, range = range of body lengths (mm) included in regression, state = state or province where individuals were collected, source = reference or individual (unpublished); ADH = Alexander D. Huryn, LAS = Leonard A. Smock, ACB = Arthur C. Benke.

BIVALVIA	Taxon	$a \pm 1$ SE	$b \pm 1$ SE	r^2	n	Range	% ash +1 SE (soft)	% ash +1 SE (+ shell)	State	Source
Corbiculidae										
<i>Corbicula fluminea</i>	0.0204	2.45	0.91	185					GA	Stites et al. 1995
<i>C. fluminea</i>	0.0055	3.18	0.99	66					GA	Sickel 1976
<i>C. fluminea</i>	0.0078	3.12	0.99	20					TX	Aldridge and McMahon 1978
<i>C. fluminea</i> (spr)*	0.0089	3.34	0.97	26					CA	Foe and Knight 1985
<i>C. fluminea</i> (sum.)*	0.0058	3.45	0.99	18					CA	Foe and Knight 1985
<i>C. fluminea</i> (spr.)	0.0141	3.01	0.97	21					NC	Lauritsen and Mozley 1983
<i>C. fluminea</i> (sum.)	0.0209	2.77	0.87	35					NC	Lauritsen and Mozley 1983
Sphaeriidae										
<i>Pisidium</i> sp.	0.0163 \pm 0.0013	2.477 \pm 0.187	0.87	104	1.7-10.3				VA	LAS
Unionidae										
<i>Amphelea plicata</i> (10A)	0.0144	2.782	0.96						IA/WI	Hornbach et al. 1996
<i>A. plicata</i> (10B)	0.0102	2.852	0.95						IA/WI	Hornbach et al. 1996
<i>A. plicata</i> (11)	0.0041	3.042	0.97						IA/WI	Hornbach et al. 1996
<i>A. plicata</i> (14)	0.0086	2.863	0.96						IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (17)	0.0028	3.133	0.96						IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (18)	0.0052	2.972	0.96						IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (19U)	0.0055	2.992	0.89						IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (19L)	0.0009	3.394	0.89						IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (24)	0.0166	2.741	0.70						MO/IL	Hornbach et al. 1996
<i>A. plicata</i> (25)	0.0091	2.854	0.95						MO/IL	Hornbach et al. 1996
<i>A. plicata</i> (26)	0.0179	2.724	0.44						MO/IL	Hornbach et al. 1996
<i>A. plicata</i> (10A)*	0.0236	2.618	0.95						IA/WI	Hornbach et al. 1996
<i>A. plicata</i> (10B)*	0.0194	2.640	0.96						IA/WI	Hornbach et al. 1996
<i>A. plicata</i> (11)*	0.0068	2.842	0.98						IA/WI	Hornbach et al. 1996

APPENDIX 2. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ±1 SE (soft)	% ash ±1 SE (+ shell)	State	Source
<i>A. plicata</i> (14)*	0.0205	2.588	0.95					IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (17)*	0.0146	2.685	0.95					IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (18)*	0.0300	2.489	0.93					IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (19U)*	0.0123	2.749	0.84					IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (19L)*	0.0037	2.992	0.90					IA/IL	Hornbach et al. 1996
<i>A. plicata</i> (24)*	0.2033	2.091	0.72					MO/IL	Hornbach et al. 1996
<i>A. plicata</i> (25)*	0.0124	2.702	0.95					MO/IL	Hornbach et al. 1996
<i>A. plicata</i> (26)*	0.0338	2.358	0.50					MO/IL	Hornbach et al. 1996
<i>Anodonta cataracta</i> (ML)	0.0038	2.915 ± 0.094		154	10–100			NB	Cameron et al. 1979
<i>A. cataracta</i> (LL)	0.0142	2.729 ± 0.059		249	20–120			NS	Cameron et al. 1979
<i>A. grandis simpsoniana</i>	0.00042	3.42 ± 0.044		170	18–80			AB	Hanson et al. 1988
<i>Elliptio complanata</i>	0.0023	3.156	0.97	67	22–104			VA	Balfour and Smock 1995
<i>E. complanata</i>	0.0067	2.770 ± 0.089	0.94	281	10–80			NB	Cameron et al. 1979
<i>Lampsilis ochracea</i>	0.0075	2.931 ± 0.148		186				NB	Cameron et al. 1979
GASTROPODA									
Pleuroceridae									
<i>Elminia cahawbensis*</i> (AW) (HM)	0.0331 ± 0.0026	2.851 ± 0.042	0.99	49	0.6–10.7	16.2 ± 2.1	90.3 ± 0.3	AL	ADH
<i>E. cahawbensis*</i> (HM)	0.0037 ± 0.0011	3.320 ± 0.126	0.96	30	2.7–14.6				
<i>E. cahawbensis*</i> (AW) (AG)	0.0238 ± 0.0016	3.091 ± 0.038	0.99	51	0.8–11.7	29.7 ± 3.6	92.0 ± 0.3	AL	ADH
<i>E. cahawbensis*</i> (AG)	0.0033 ± 0.0005	3.232 ± 0.065	0.99	30	4.6–20.2			AL	ADH
<i>E. cahawbensis*</i> (AW) (RO)	0.0324 ± 0.0029	3.074 ± 0.052	0.99	50	0.8–12.3	15.1 ± 1.5	89.1 ± 0.4	AL	ADH
<i>E. cahawbensis*</i> (RO)	0.0074 ± 0.0019	3.022 ± 0.111	0.96	30	1.9–19.3			AL	ADH
<i>E. carinifera*</i> (AW) (HM)	0.0701 ± 0.0069	2.420 ± 0.059	0.97	56	0.2–11.2	14.0 ± 1.6	92.5 ± 0.4	AL	ADH
<i>E. carinifera*</i> (HM)	0.0055 ± 0.0018	2.761 ± 0.131	0.94	30	2.2–21.3			AL	ADH
<i>E. claviformis*</i> (W)	0.0123	3.984	0.96	50				TN	Rossmond et al. 1993
<i>E. fascinans*</i> (AW)(CH)	0.0224 ± 0.0021	3.051 ± 0.049	0.98	61	0.7–12.7	16.9 ± 2.0	93.0 ± 0.3	AL	ADH
<i>E. fascinans*</i> (CH)	0.0203 ± 0.0030	2.521 ± 0.069	0.97	36	1.0–21.7			AL	ADH
<i>E. fascinans*</i> (AW) (MA)	0.0229 ± 0.0028	3.013 ± 0.066	0.98	52	0.8–11.3	19.1 ± 2.4	93.5 ± 0.3	AL	ADH
<i>E. fascinans*</i> (AW) (TE)	0.0248 ± 0.0032	2.971 ± 0.068	0.97	51	0.8–12.3	21.5 ± 2.8	93.9 ± 0.3	AL	ADH
<i>E. variata*</i> (AW) (AG)	0.0247 ± 0.0025	2.994 ± 0.057	0.98	52	0.8–12.8	18.3 ± 3.0	93.2 ± 0.3	AL	ADH
<i>E. variata*</i> (AG)	0.0058 ± 0.0012	3.151 ± 0.095	0.97	30	2.7–17.2			AL	ADH

APPENDIX 3. Length-mass regression equations based on head width. Equations are of the form $DM = aHW^b$, where DM = dry mass (mg), HW = head width (mm), and a and b are fitted constants. * indicates that ash-free dry mass (AFDM) was used instead of DM. Where indicated, the following are substituted for $HW:HL$ = head length, TW = telson width, IOW = interocular width, PW = pronotal width (all units are mm). Other abbreviations represent different collection sites (see source paper). All regressions are significant at $p < 0.05$. n = number of individuals included in regression, range = range of head widths (or otherwise) included in regression, state = state or province where individuals were collected, source = reference or individual (unpublished): ADH = Alexander D. Huryn, LAS = Leonard A. Smock, ACB = Arthur C. Benke, JBW = J. Bruce Wallace.

APPENDIX 3. Continued.

APPENDIX 3. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
Zygoptera								
<i>Calopterygidae</i>								
<i>Calopteryx</i> sp.	0.3828 ± 0.0821	2.488 ± 0.400	0.87	25	0.2-3.4		VA	LAS
<i>Coenagrionidae</i>								
<i>Argia</i> spp.	0.4727 ± 0.1665	2.455 ± 0.421	0.85	23	0.3-3.9		NC	LAS
<i>Enallagma aspersum</i>	0.0400	3.520	0.77	20			Pierce et al. 1985	
<i>E. traviatum</i>	0.0748	2.760	0.72	16			Pierce et al. 1985	
<i>Ishnura</i> sp.	0.1189 ± 0.0080	3.000 ± 0.173	0.97	13	0.7-2.8		SC	ACB
<i>Anisoptera</i>								
<i>Cordulegastridae</i>								
<i>Cordulegaster maculata</i>	1.0025 ± 0.3440	2.401 ± 0.583	0.67	18	0.9-8.6		VA	LAS
<i>Corduliidae</i>								
<i>Epitheca cynosura</i>	0.2028 ± 0.0077	3.026 ± 0.096	0.92	85	0.9-5.7		SC	ACB
<i>E. semiargua</i>	0.7491 ± 0.1111	2.681 ± 0.731	0.76	17	0.6-5.8		VA	LAS
<i>Neurocordulia molesta</i>	0.3214 ± 0.0159	3.002 ± 0.142	0.90	54	1.0-6.2		GA	ACB
<i>Gomphidae</i>								
<i>Dromogomphus</i> sp.	0.7396 ± 0.0514	2.416 ± 0.260	0.90	12	1.6-3.5		SC	ACB
<i>Gomphus</i> spp.	0.8177 ± 0.0934	2.454 ± 0.204	0.94	24	1.1-6.6		VA	LAS
<i>Progomphus obscurus</i>	0.6964 ± 0.1400	2.646 ± 0.666	0.72	28	0.7-4.3		VA	LAS
<i>Libellulidae</i>								
<i>Cellithemis fasciata</i>	0.0826 ± 0.0031	3.252 ± 0.071	0.97	70	0.5-5.5		SC	ACB
<i>Erythemis simplicicollis</i>	0.0995 ± 0.0083	3.592 ± 0.229	0.95	15	1.5-4.8		SC	ACB
<i>Ladonia deplanata</i>	0.2080 ± 0.0083	3.180 ± 0.111	0.94	56	1.5-4.7		SC	ACB
<i>Libellula</i> spp.	0.2393 ± 0.0161	2.909 ± 0.152	0.94	24	0.7-4.2		SC	ACB
<i>Plathemis lydia</i>	0.4613 ± 0.0413	3.019 ± 0.307	0.83	22	1.6-4.6		SC	ACB
PLECOPTERA								
<i>Capniidae</i>								
<i>Allocapnia</i> spp.	0.7121 ± 0.1902	3.250 ± 0.813	0.61	29	0.3-0.8		NC	LAS
<i>Allocapnia</i> spp.	0.5438 ± 0.1353	3.255 ± 0.520	0.85	25	0.3-0.7		VA	LAS
<i>Panacapnia angulata</i> (SFR)								
0.497	2.43						Griffith et al. 1993	
0.549	3.09						Griffith et al. 1993	
0.712	3.51						Griffith et al. 1993	
0.364	2.44						Griffith et al. 1993	
<i>Leuctridae</i>								
<i>Leuctra</i> sp.	0.8496 ± 0.1234	3.201 ± 0.254	0.90	34	0.4-0.8		VA	LAS

APPENDIX 3. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
Nemouridae								
<i>Anphinemura delosa</i>	1.496	2.587	0.99	113	0.3–0.7	OK	Jop and Stewart 1987	
<i>Anphinemura</i> spp.	0.4373 ± 0.0965	2.966 ± 0.686	0.72	62	0.4–1.2	VA	LAS	
<i>Prostoia completa</i>	0.5263 ± 0.1826	2.762 ± 0.599	0.66	38	0.3–1.4	VA	LAS	
<i>P. completa</i>	2.323	3.34	0.96	63	0.4–1.1	OK	Jop and Stewart 1987	
<i>Zapada columbiiana</i>	0.45	3.10	0.98	70	0.4–1.1	AB	Mutch and Pritchard 1984	
<i>Z. haysi</i>	0.512	2.934	0.87	40	0.4–1.1	CO	Allan 1984	
Peltoperlidae								
<i>Talaperla anna</i> complex (HMB)	0.47	4.00	0.98	42	0.4–1.1	AL	Petrus 1993	
<i>T. anna</i> complex (NC)	0.56	3.75	0.98	42	0.4–1.1	AL	Petrus 1993	
Perlidae								
<i>Acroneuria abnormis</i>	0.3208 ± 0.0284	3.189 ± 0.276	0.96	22	0.7–5.1	NC	LAS	
<i>A. evoluta</i> (IOW)	0.592	3.745	0.99	151	0.3–3.2	OK	Jop and Stewart 1987	
<i>Acroneuria</i> spp.	0.1563 ± 0.0063	3.242 ± 0.119	0.93	52	0.8–4.0	ACB	GA	
<i>Agenetina capitata</i>	0.2698 ± 0.0506	3.063 ± 0.658	0.61	21	0.6–3.2	VA	LAS	
<i>A. capitata</i> (IOW)	1.125	3.233	0.99	152	0.4–2.9	OK	Jop and Stewart 1987	
<i>Beloneweria georgiana</i>	0.5671 ± 0.1255	2.724 ± 0.565	0.81	31	0.4–4.3	VA	LAS	
<i>Calineuria californica</i>	0.12	3.81	0.96	180	0.4–4.3	CA	Siegfried and Knight 1978	
<i>Eccoptura xanthones</i>	0.2444 ± 0.0660	3.326 ± 0.956	0.61	18	0.4–3.3	NC	LAS	
<i>Neoperla clymena</i>	0.6825 ± 0.0767	2.000 ± 0.333	0.71	17	0.9–2.8	ACB	GA	
<i>Neoperla</i> spp. (IOW)	1.169	2.551	0.99	88	0.3–1.9	OK	Jop and Stewart 1987	
<i>Paragnetina kansensis</i>	0.2650 ± 0.0172	3.205 ± 0.189	0.83	63	1.1–5.6	ACB	GA	
<i>Perlinella drymo</i>	0.5500 ± 0.1358	2.929 ± 0.821	0.72	18	0.5–3.4	VA	LAS	
<i>Perlestes placida</i>	0.2466 ± 0.0085	3.616 ± 0.181	0.83	83	0.8–2.3	ACB	GA	
<i>Perlestes</i> sp.	0.4012 ± 0.1835	2.802 ± 0.898	0.61	15	0.4–3.3	NC	LAS	
Perlodidae								
<i>Cloperla clio</i>	0.4027 ± 0.0366	2.987 ± 0.305	0.94	26	0.6–3.3	NC	LAS	
<i>C. clio</i>	0.5462 ± 0.0621	2.826 ± 0.381	0.85	50	0.4–3.3	VA	LAS	
<i>Isgenus</i> group	0.7234 ± 0.1833	2.641 ± 0.705	0.64	32	0.5–2.8	NC	LAS	
<i>Isoperla bilineata</i>	0.5462 ± 0.1445	2.826 ± 0.465	0.76	33	0.5–2.5	VA	LAS	
<i>I. namata</i>	1.167	2.472	0.99	125	0.4–1.7	OK	Jop and Stewart 1987	
<i>Kogotus nonus</i>	0.72	3.61	0.87	150	0.4–1.7	AB	Walde and Davies 1987	
Pteronarcyidae								
<i>Pteronarcys dorsata</i>	0.8057 ± 0.0524	3.167 ± 0.211	0.86	36	1.6–5.2	GA	ACB	

APPENDIX 3. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
TAENIOPTERYGIDAE								
<i>Strophopteryx</i> sp.	0.4388 ± 0.1202	3.921 ± 0.932	0.64	26	0.3–1.4		VA	LAS
<i>Taeniopteryx lita</i>	0.4236 ± 0.0211	2.683 ± 0.193	0.93	16	0.4–0.9		GA	ACB
<i>Taeniopteryx</i> spp.	0.7444 ± 0.1285	3.482 ± 0.764	0.81	44	0.4–1.7		NC	LAS
MEGALOPTERA								
<i>Corydalidae</i>								
<i>Corydalus cornutus</i>	1.4942 ± 0.2222	2.586 ± 0.323	0.85	41	0.8–9.2		NC	LAS
<i>C. cornutus</i>	1.0962 ± 0.3894	2.652 ± 0.500	0.72	21	0.7–10.1		VA	LAS
<i>C. cornutus</i>	0.5315 ± 0.0304	3.025 ± 0.079	0.95	82	0.4–9.5		GA	ACB
<i>C. cornutus</i>	0.321	3.256	0.97	90	0.6–11.5		AL	Koebel 1994
<i>C. cornutus</i>	0.273	2.87	0.92	445			TX	Brown and Fitzpatrick 1978
<i>Nigronia serricornis</i>	1.1666 ± 0.2311	2.474 ± 0.564	0.79	34	0.8–6.3		NC	LAS
<i>N. serricornis</i>	0.9367 ± 0.2806	2.635 ± 0.721	0.69	26	0.6–6.7		VA	LAS
<i>Sialidae</i>								
<i>Sialis aequalis</i>	0.4861 ± 0.1865	3.108 ± 0.640	0.77	36	0.3–3.5		VA	LAS
<i>Sialis</i> sp.	0.5428 ± 0.1102	2.936 ± 0.862	0.69	25	0.4–3.4		NC	LAS
TRICHOPTERA								
<i>Brachycentridae</i>								
<i>Brachycentrus</i> sp.	2.221 ± 0.2330	3.349 ± 0.402	0.88	26	0.3–1.4		VA	LAS
<i>Hydropsychidae</i>								
<i>Cheumatopsyche</i> spp.	1.362 ± 0.3711	2.284 ± 0.658	0.61	58	0.2–1.5		NC	LAS
<i>Cheumatopsyche</i> spp.	0.984 ± 0.2630	2.814 ± 0.471	0.83	47	0.2–1.4		VA	LAS
<i>Hydropsyche elissoma</i>	1.2106 ± 0.0831	2.580 ± 0.179	0.89	26	0.4–1.2		GA	ACB
<i>H. incommoda</i>	1.5955 ± 0.1438	3.621 ± 0.281	0.80	43	0.3–1.1		GA	ACB
<i>H. orris</i> (IOW)	1.702	2.773	0.97				MS	Payne and Miller 1996
<i>Hydropsyche</i> spp.	1.180 ± 0.2852	2.886 ± 0.888	0.69	122	0.2–1.8		NC	LAS
<i>Hydropsyche</i> spp.	1.265 ± 0.1622	2.747 ± 0.284	0.87	36	0.2–1.7		VA	LAS
<i>Macrosteleum carolina</i>	1.301 ± 0.1888	2.726 ± 0.390	0.92	16	0.2–1.7		NC	LAS
<i>M. carolina</i>	0.9474 ± 0.0561	3.009 ± 0.138	0.87	71	0.5–2.1		GA	ACB
<i>Lepidostomatidae</i>								
<i>Lepidostoma</i> sp.	1.666 ± 0.1555	2.987 ± 0.222	0.94	33	0.2–1.3		VA	LAS
<i>Leptoceridae</i>								
<i>Nectopsycle</i> sp.	2.644 ± 0.3665	3.297 ± 0.522	0.74	16	0.4–0.8		GA	ACB
<i>Oecetis</i> spp.	1.913 ± 0.5983	3.300 ± 0.637	0.67	23	0.2–1.0		VA	LAS

APPENDIX 3. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
Limnephilidae								
<i>Apatania zonella</i>	5.812	4.102			0.2–1.2		NT	Jorgenson et al. 1992
<i>Grenia</i> sp.	1.486	3.856			0.3–2.0		NT	Jorgenson et al. 1992
<i>Ironoquia parvula</i>	1.645 ± 0.3491	3.220 ± 0.780	0.66	18	0.4–2.0		VA	LAS
<i>Pycnopsyche luculentia</i>	1.823 ± 0.4729	3.114 ± 0.950	0.64	47	0.3–2.1		VA	LAS
<i>P. scabripennis</i>	2.024 ± 0.3655	3.109 ± 0.436	0.85	27	0.3–2.3		VA	LAS
Odontoceridae								
<i>Psilotreta</i> sp.	1.941 ± 0.5008	3.366 ± 0.521	0.79	18	0.3–1.6		VA	LAS
Philopotamidae								
<i>Chimarra</i> sp.	1.465 ± 0.3913	3.087 ± 0.666	0.66	34	0.3–1.1		NC	LAS
<i>Chimarra</i> sp.	1.106 ± 0.2555	3.143 ± 0.762	0.64	29	0.2–1.2		VA	LAS
Phryganeidae								
<i>Ptilostomis</i> sp.	2.042 ± 0.4896	3.333 ± 0.920	0.61	20	0.5–2.5		VA	LAS
Polycentropodidae								
<i>Neureclipsis</i> sp.	0.6852 ± 0.0718	4.580 ± 0.767	0.63	23	0.8–1.5		GA	ACB
<i>Polycentropus</i> spp.	1.568 ± 0.2050	3.302 ± 0.352	0.90	25	0.2–1.3		VA	LAS
Psychomyiidae								
<i>Lype diversa</i>	1.732 ± 0.1591	3.384 ± 0.307	0.96	28	0.2–1.3		VA	LAS
<i>L. diversa</i> *	2.173 ± 0.424	3.664 ± 0.183	0.94	28	0.2–0.7	1.6 ± 0.2	NC	ADH and JBW
Rhyacophilidae								
<i>Rhyacophila</i> nro	6.80	4.123	0.78	613	0.2–0.9		AB	Dixon and Wrona 1992
<i>Rhyacophila</i> spp.	1.750 ± 0.2486	3.522 ± 0.879	0.73	32	0.4–1.5		VA	LAS
Sericostomatidae								
<i>Agarodes libalis</i>	1.566 ± 0.3636	2.982 ± 0.520	0.85	41	0.3–1.4		VA	LAS
<i>Feltigia pele</i>	1.003 ± 0.095	3.309 ± 0.151	0.98	10	0.3–1.9	12.2 ± 3.0	NC	ADH and JBW
COLEOPTERA								
Chrysomelidae								
<i>Galerucella nymphaeæ</i>	14.981 ± 9.310	3.670 ± 0.168	0.80	120	0.2–0.6	7.1 ± 0.3	GA	JBW
Elmidae								
<i>Ancyronyx variegata</i>	2.0181 ± 0.4009	3.468 ± 0.600	0.74	37	0.2–0.5		VA	LAS
<i>A. variegata</i>	3.8971	2.804 ± 0.427	0.92	800	0.2–0.6		AR	Philips 1997a
<i>A. variegata</i>	3.2589	2.645 ± 0.419	0.91	800	0.2–0.6		TX	Philips 1997a
<i>Macronychus glabratus</i>	1.6041 ± 0.6005	3.499 ± 0.903	0.64	38	0.2–0.5		NC	LAS
<i>M. glabratus</i>	1.7685 ± 0.3845	3.357 ± 0.755	0.81	54	0.1–0.5		VA	LAS
<i>M. glabratus</i>	3.7289	2.758 ± 0.303	0.95	0.2–0.7			AR	Philips 1997b

APPENDIX 3. Continued.

Taxon	<i>a</i> ± 1 SE	<i>b</i> ± 1 SE	<i>r</i> ²	<i>n</i>	Range	% ash ± 1 SE	State	Source
<i>M. glabratus</i>	3.8620	2.793 ± 0.281	0.96		0.2–0.7			
<i>Stenelmis</i> spp.	1.4040 ± 0.3123	3.794 ± 0.844	0.60	46	0.2–0.6			
DIPTERA								
Ceratopogonidae								
<i>Palpomyia</i> spp. group	1.0431 ± 0.3625	2.383 ± 0.630	0.72	18	0.1–0.3			
<i>Palpomyia</i> spp. group	1.3044 ± 0.3999	2.359 ± 0.632	0.79	33	0.1–0.4			
Chironomidae	2.7842 ± 0.7005	2.835 ± 0.399	0.90	73	0.1–0.4			
Chironominae	1.9574 ± 0.3297	2.589 ± 0.403	0.81	50	0.1–0.5			
Chironominae / Orthocladiinae	2.7802 ± 0.7666	2.841 ± 0.293	0.88	61	0.1–0.4			
Tanytarsini	1.6660 ± 0.4450	2.484 ± 0.521	0.71	45	0.1–0.3			
Orthocladiinae	1.7899 ± 0.6622	2.311 ± 0.566	0.64	39	0.1–0.4			
Tanypodinae	2.1694 ± 0.5630	2.623 ± 0.377	0.85	46	0.1–0.4			
Tanypodinae	2.8046 ± 0.7109	2.955 ± 0.570	0.85	12	0.1–0.4			
Empididae	0.9888 ± 0.6388	2.602 ± 0.924	0.60	16	0.2–0.6			
Simuliidae	1.3824 ± 0.3644	3.161 ± 0.508	0.76	26	0.2–0.7			
<i>Prosimulium</i> spp.	2.553	4.347	0.88	34				
							CO	Allan 1984