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Supplementary Material

Influence of hydroperiod on aquatic food-web structure and energy production in a floodplain wetland: implications for environmental flow management

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Table S1. Density (individuals L⁻¹) of taxa and FFG and Wiggins group assignment for all TDV sites.

	FFG	Wiggins Group	TDV3 Filling	TDV4 Filling	TDV5 Filling	TDV6 Filling	TDV7 Filling	TDV8 Full	TDV9 Full	TDV10 Full	TDV11 Full	TDV12 Full	TDV13 Drying	TDV14 Drying	TDV15 Drying	TDV16 Drying	TDV17 Drying
Belostomatidae	Predator	4	0	0	0	0	0	0.002323	0	0	0	0	0.022365	0.003269	0.147186	0.023166	0.040476
Chironomidae	Collector	2	0	0	0	0	0	1.022067	0.188679	0.556962	0.815217	0.501661	0.009785	0	0.021645	0.010296	0.009524
Coeogronidae	Predator	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.011905
Conchostraca	Collector	1	0	0	0	0	0	0.590909	0	0.019231	0.28125	0	0	0	0	0	0
Copepoda	Collector	1	0	0.24	1.72	0	0.02	0.075758	0.030303	0	0	0.017857	5.5625	0.967742	14	6.153846	0.54386
Corixidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0.039139	0.009807	0.030303	0.002574	0.004762
Culicidae	Collector	3	0	0	0	0	0	0	0	0	0	0	0	0	0.010823	0.002574	0
Daphniidae	Collector	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dytiscidae adult	Predator	2	0.002915	0	0	0	0	0.009292	0.001348	0.001808	0	0	0.006989	0.003269	0.008658	0.007722	0.014286
Dytiscidae larvae	Predator	2	0	0	0	0	0	0.002323	0	0	0	0	0.009785	0	0.002165	0.005148	0
Erpobdellidae	Predator	1	0	0.002421	0	0	0	0	0	0	0	0.001661	0.002796	0.019614	0.028139	0.043758	0.011905
Gerridae	Predator	4	0.001458	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptophysa	Scraper	1	0	0	0	0.004396	0.002304	0.097561	0.022911	0.019892	0.006211	0.013289	0.143975	0.421706	0.015152	0.020592	0.040476
Haliplidae	Shredder	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Helicorbis	Scraper	1	0.097668	0.227603	0	0.002198	0	1.277584	0.849057	0.066908	1.357143	0.465116	0.266984	0	2.017316	4.682111	0.033333
Hydraenidae	Scraper	2	0	0.029056	0	0	0	0.009292	0	0	0	0	0	0	0	0	0
Hydrochidae adult	Shredder	2	0	0	0	0	0	0	0	0	0	0	0.001398	0.006538	0.008658	0.007722	0.02619
Hydrophilidae adult	Shredder	2	0.004373	0	0.013605	0.006593	0.013825	0.01626	0.008086	0.003617	0.001553	0.011628	0.041935	0.107878	0.279221	0.211068	0.033333
Hydrophilidae larvae	Predator	2	0	0	0	0	0	0.004646	0.012129	0.001808	0.007764	0.006645	0.011183	0.029421	0.002165	0.015444	0.007143
Hygrobiidae	Predator	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptoceridae	Shredder	2	0	0	0	0	0	0	0	0	0	0	0.002796	0	0	0	0.004762
Mesoveliidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Microveliidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.028571
Notonectidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0.083869	0.402092	0.045455	0.043758	0.130952
Ostracoda	Collector	1	0.54	1.02	11.8	0.7	0	21.9697	1.575758	1.826923	2.375	1.607143	0.40625	11.77419	6.127273	1.153846	0.087719
Other cladocera	Collector	1	0.02	0	0.02	0	0.2	0.19697	0.060606	0.019231	0	0	0.015625	0.129032	2.181818	2.884615	0.385965
Parastacidae	Collector	1	0	0	0	0	0	0	0	0	0	0	0.006989	0	0	0	0.021429
Scirtidae	Collector	2	0	0	0	0	0	0	0	0	0	0	0	0	0.019481	0	0
Stratiomyidae	Collector	2	0	0.002421	0	0	0	0.025552	0.010782	0	0	0.006645	0.001398	0.039229	0	0	0
Syrphidae	Collector	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tabanidae	Predator	2	0	0	0	0.004396	0	0	0.001348	0	0.003106	0	0	0	0	0	0
Veliidae	Predator	4	0.001458	0	0	0	0	0.004646	0	0	0	0	0.019569	0	0.002165	0	0

Table S2. Density (individuals L⁻¹) of taxa and FFG and Wiggins group assignment for all LOV sites.

	FFG	Wiggins Group	LOV1 Filling	LOV2 Filling	LOV3 Filling	LOV4 Filling	LOV5 Filling	LOV6 Full	LOV7 Full	LOV8 Full	LOV9 Full	LOV10 Full	LOV11 Drying	LOV12 Drying	LOV13 Drying	LOV14 Drying	LOV15 Drying
Belostomatidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.001152	0.012914
Chironomidae	Collector	2	0	0	0	0	0	0.689708	0.624762	0.699819	0.712999	0.327922	0.006604	0	0	0	0.001614
Coeogronidae	Predator	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conchostraca	Collector	1	0	0	0	0	0	0.151515	0	0	0	0	0.051724	0	0	0	0
Copepoda	Collector	1	0.06	0.267857	0.097561	0.340909	0.016667	0.606061	0.034483	0.018519	0.017857	1.714286	8.793103	0	0.709677	0.215686	0.981132
Corixidae	Predator	4	0	0	0	0	0	0	0	0	0.002574	0	0.079243	0.029762	0.08371	0.131336	0.03067
Culicidae	Collector	3	0.001867	0	0	0	0	0.18126	0	0	0	0.204545	0.033018	0	0	0.001152	0.003228
Daphniidae	Collector	1	0	0	0	0.5	0.066667	0	0	0	0	0	0	0	0	0	0
Dytiscidae adult	Predator	2	0.001867	0.002695	0	0.0088	0.006696	0	0	0	0.07722	0.003247	0.321374	0.054563	0.002203	0.047235	0.037127
Dytiscidae larvae	Predator	2	0	0	0	0	0	0.003072	0	0	0.005148	0	0.061633	0	0.002203	0.004608	0.003228
Erpobdellidae	Predator	1	0	0	0	0	0	0	0	0	0	0.001623	0	0.00496	0.02313	0.00576	0.024213
Gerridae	Predator	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.001614
Glyptophysa	Scraper	1	0.001867	0.002695	0.098701	0	0.002232	0.11828	0.062857	0.130199	0.018018	0.030844	0.244332	0.099206	0.052869	0.026498	0.041969
Haliplidae	Shredder	2	0	0	0	0	0.002232	0	0	0	0	0	0	0	0	0	0
Helicorbis	Scraper	1	0	0	0.062338	9.876797	0.055804	0.198157	0.64	0.540687	0.072072	0.11039	0	0	0	0.059908	0
Hydraenidae	Scraper	2	0	0	0	0	0	0	0	0	0	0	0.008805	0	0	0.012673	0.001614
Hydrochidae adult	Shredder	2	0	0	0	0	0	0	0	0	0	0	0.008805	0.019841	0	0	0.024213
Hydrophilidae adult	Shredder	2	0.020542	0	0.171429	0.005867	0.066964	0.00768	0.00381	0.001808	0.066924	0.00974	0.609729	0.208333	0.446084	0.815668	0.983051
Hydrophilidae larvae	Predator	2	0	0	0	0.002933	0	0.043011	0.028571	0.0434	0.01287	0.016234	0.03742	0.014881	0.005507	0.052995	0.095238
Hygrobiidae	Predator	2	0	0	0.002597	0	0	0	0	0	0	0	0	0	0	0	0
Leptoceridae	Shredder	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesoveliidae	Predator	4	0	0	0	0	0	0	0	0.001808	0	0	0	0	0	0	0
Microveliidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notonectidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0.110059	0.034722	0.027536	0.047235	0.130751
Ostracoda	Collector	1	0	0	1.398374	1.068182	0.016667	14.04545	1	1.148148	0.107143	8.339286	2.189655	42.5	0.387097	0.254902	0.867925
Other cladocera	Collector	1	0	0	0.276423	0.318182	0	0	1.155172	0.148148	0.017857	1.607143	0.327586	0	0	0.058824	0.132075
Parastacidae	Collector	1	0	0	0	0	0	0	0	0	0	0	0.002201	0	0	0	0
Scirtidae	Collector	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stratiomyidae	Collector	2	0	0	0	0	0.002232	0.001536	0.00381	0.003617	0	0.001623	0.570108	0	0.005507	0.016129	0.032284
Syrphidae	Collector	2	0	0	0	0	0	0.001536	0	0	0	0	0	0	0	0	0
Tabanidae	Predator	2	0	0	0	0	0.004464	0	0	0	0	0	0	0	0	0	0
Veliidae	Predator	4	0	0	0	0	0	0	0	0	0	0	0.004402	0	0	0.003456	0.004843