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Appendix 1

Ninty-four natural food webs

The table contains the original sources of publication of the predation matrices and food-web common names used in this article. For each food web, the predation matrices and the species' body sizes were compiled from a variety of sources. These natural food webs contain producers, herbivores, carnivores, parasites and parasitoids. The organisms display a range of feeding interactions including predation, herbivory, bacterivory, parasitism and parasitoidism.

Table A1. Overview of all food webs sources used in this study, with references of predation matrix, references of the body-masses, the statistics of the allometic degree distributions with a) vulnerability, b) generality and c) linkedness including regression slopes, p-values and r-square values. Furthermore the statistic for the different cumulative degree distributions: uniform, exponential and power law.

		Allometric degree distributions									Cumulative degree distributions						Sources	
		Vulnerability			Generality			Linkedness			Uniform		Exponential		Power law			
Food web	Type	Slope	p	r^2	Slope	p	r^2	Slope	p	r^2	r^2	p	r^2	p	r^2	p	Predation matrix source	Body size source
Alford Lake	lake	–0.13	0.28	0.02	1.21	<0.001	0.21	1.06	<0.01	0.16	0.92	<0.001	0.99	<0.001	0.91	<0.001	(Havens 1992)	Riede unpubl.
Balsam Lake	lake	–0.43	<0.001	0.26	1.65	<0.001	0.38	1.21	<0.001	0.25	0.93	<0.001	0.98	<0.001	0.92	<0.001	(Havens 1992)	Riede unpubl.
Burntbridge Lake	lake	–0.32	<0.01	0.19	0.93	<0.01	0.16	0.58	0.06	0.07	0.87	<0.001	0.98	<0.001	0.95	<0.001	(Havens 1992)	Riede unpubl.
Beaver Lake	lake	–0.15	0.09	0.05	1.08	<0.001	0.31	0.91	<0.001	0.21	0.98	<0.001	0.97	<0.001	0.86	<0.001	(Havens 1992)	Riede unpubl.
Big Hope Lake	lake	–0.27	0.02	0.09	1.11	<0.001	0.23	0.81	0.01	0.12	0.93	<0.001	0.94	<0.001	0.88	<0.001	(Havens 1992)	Riede unpubl.
Brandy Lake	lake	–0.58	<0.001	0.49	1.03	0.01	0.23	0.46	0.22	0.05	0.86	0.01	0.96	<0.001	1.00	<0.001	(Havens 1992)	Riede unpubl.
Bridge Brook Lake	lake	–0.50	<0.001	0.23	1.88	<0.001	0.35	1.36	0.00	0.20	0.91	<0.001	0.99	<0.001	0.98	<0.001	(Havens 1992)	Riede unpubl.
Brook Trout Lake	lake	–0.29	0.08	0.22	0.50	0.11	0.19	0.21	0.51	0.03	0.94	<0.001	0.97	<0.001	0.96	<0.001	(Havens 1992)	Riede unpubl.
Buck Pond	lake	–0.82	<0.001	0.40	1.06	0.01	0.18	0.23	0.53	0.01	0.93	<0.001	0.97	<0.001	0.88	<0.001	(Havens 1992)	Riede unpubl.
Cascade Lake	lake	–0.24	<0.001	0.29	0.57	0.01	0.19	0.31	0.14	0.06	0.97	<0.001	0.96	<0.001	0.84	<0.001	(Havens 1992)	Riede unpubl.
Chub Lake	lake	–0.04	0.67	0.01	0.64	0.01	0.17	0.55	0.05	0.11	0.97	<0.001	0.98	<0.001	0.90	<0.001	(Havens 1992)	Riede unpubl.
Chub Pond	lake	–0.64	<0.001	0.23	1.59	<0.001	0.41	0.95	<0.01	0.15	0.94	<0.001	0.96	<0.001	0.83	<0.001	(Havens 1992)	Riede unpubl.
Connery Lake	lake	–0.33	<0.001	0.29	1.27	<0.001	0.27	0.92	<0.01	0.15	0.81	<0.001	0.97	<0.001	0.96	<0.001	(Havens 1992)	Riede unpubl.
Constable Lake	lake	–0.22	0.09	0.09	0.54	0.06	0.11	0.30	0.33	0.03	0.91	<0.001	0.98	<0.001	0.93	<0.001	(Havens 1992)	Riede unpubl.
Deep Lake	lake	–0.18	0.14	0.12	0.55	0.03	0.24	0.35	0.17	0.11	0.97	<0.001	0.94	<0.001	0.86	<0.001	(Havens 1992)	Riede unpubl.
Emerald Lake	lake	–0.02	0.92	0.00	1.03	0.00	0.37	0.92	0.02	0.25	0.87	<0.001	0.97	<0.001	0.95	<0.001	(Havens 1992)	Riede unpubl.

Falls Lake	lake	–0.57	<0.001	0.38	0.82	0.01	0.18	0.23	0.45	0.02	0.93	<0.001	0.98	<0.001	0.90	<0.001	(Havens 1992)	Riede unpubl.
Fawn Lake	lake	–0.32	<0.01	0.25	0.78	<0.01	0.27	0.43	0.10	0.09	0.93	<0.001	0.96	<0.001	0.87	<0.001	(Havens 1992)	Riede unpubl.
Federation Lake	lake	–0.42	<0.01	0.41	0.41	0.09	0.14	–0.05	0.83	0.00	0.95	<0.001	0.96	<0.001	0.87	<0.001	(Havens 1992)	Riede unpubl.
Goose Lake	lake	–0.06	0.42	0.02	0.65	<0.01	0.21	0.57	0.02	0.14	0.96	<0.001	0.95	<0.001	0.86	<0.001	(Havens 1992)	Riede unpubl.
Grass Lake	lake	–0.23	0.06	0.08	0.78	<0.01	0.18	0.53	0.06	0.08	0.95	0.01	0.99	<0.001	0.98	0.0014	(Havens 1992)	Riede unpubl.
Gull Lake	lake	–0.36	0.06	0.08	1.60	<0.001	0.52	1.23	<0.001	0.27	0.99	<0.001	0.95	<0.001	0.82	<0.001	(Havens 1992)	Riede unpubl.
Gull Lake North	lake	–0.20	0.16	0.27	0.57	0.02	0.34	0.29	0.25	0.09	0.96	<0.001	0.99	<0.001	0.97	<0.001	(Havens 1992)	Riede unpubl.
Helldiver Pond	lake	–0.44	<0.001	0.25	0.94	<0.001	0.29	0.50	0.07	0.08	0.97	<0.001	0.96	<0.001	0.84	<0.001	(Havens 1992)	Riede unpubl.
High Pond	lake	–0.54	<0.001	0.45	0.42	0.20	0.07	–0.17	0.62	0.01	0.95	<0.001	0.95	<0.001	0.83	<0.001	(Havens 1992)	Riede unpubl.
Hoel Lake	lake	–0.32	0.01	0.10	1.60	<0.001	0.40	1.27	<0.001	0.24	0.97	<0.001	0.93	<0.001	0.80	<0.001	(Havens 1992)	Riede unpubl.
Horseshoe Lake	lake	–0.19	0.01	0.12	1.02	<0.001	0.33	0.80	<0.001	0.21	0.96	<0.001	0.94	<0.001	0.82	<0.001	(Havens 1992)	Riede unpubl.
Indian Lake	lake	–0.70	<0.01	0.24	1.40	<0.001	0.35	0.65	0.10	0.08	0.91	<0.001	0.97	<0.001	0.95	<0.001	(Havens 1992)	Riede unpubl.
Long Lake	lake	–0.24	0.05	0.06	1.46	<0.001	0.35	1.22	<0.001	0.23	0.97	<0.001	0.95	<0.001	0.84	<0.001	(Havens 1992)	Riede unpubl.
Loon Lake	lake	–0.21	0.11	0.08	0.76	0.01	0.20	0.53	0.08	0.09	0.92	<0.001	0.97	<0.001	0.92	<0.001	(Havens 1992)	Riede unpubl.
Lost Lake	lake	–0.59	<0.001	0.66	0.87	<0.001	0.39	0.25	0.24	0.05	0.97	<0.001	0.82	<0.001	0.69	<0.001	(Havens 1992)	Riede unpubl.
Lost Lake East	lake	–0.38	<0.01	0.20	0.96	<0.01	0.24	0.55	0.06	0.09	0.91	<0.001	0.96	<0.001	0.88	<0.001	(Havens 1992)	Riede unpubl.
Little Rainbow Lake	lake	–0.65	0.63	0.17	1.63	<0.001	0.37	0.98	0.01	0.13	0.94	<0.001	0.98	<0.001	0.88	<0.001	(Havens 1992)	Riede unpubl.
Lower Sister Lake	lake	–0.41	<0.01	0.23	1.16	<0.001	0.36	0.74	0.01	0.17	0.97	<0.001	0.96	<0.001	0.84	<0.001	(Havens 1992)	Riede unpubl.
Oswego Lake	lake	–0.59	<0.001	0.46	0.80	0.01	0.19	0.16	0.60	0.01	0.97	<0.001	0.89	<0.001	0.78	<0.001	(Havens 1992)	Riede unpubl.
Owl Lake	lake	–0.51	<0.001	0.38	0.69	0.02	0.17	0.17	0.57	0.01	0.98	<0.001	0.97	<0.001	0.92	<0.001	(Havens 1992)	Riede unpubl.

Rat Lake	lake	–0.27	0.01	0.13	1.12	<0.001	0.32	0.82	<0.01	0.16	0.97	<0.001	0.95	<0.001	0.82	<0.001	(Havens 1992)	Riede unpubl.
Razorback Lake	lake	–0.41	<0.001	0.27	0.86	<0.01	0.20	0.45	0.12	0.06	0.94	<0.001	0.96	<0.001	0.85	<0.001	(Havens 1992)	Riede unpubl.
Rock Lake	lake	–0.81	<0.01	0.35	0.58	0.06	0.16	–0.25	0.50	0.02	0.90	<0.001	0.97	<0.001	0.95	<0.001	(Havens 1992)	Riede unpubl.
Russian Lake	lake	–0.35	0.05	0.16	0.87	<0.001	0.47	0.51	0.07	0.15	0.94	<0.001	0.99	<0.001	0.93	<0.001	(Havens 1992)	Riede unpubl.
Safford Lake	lake	–0.41	<0.001	0.26	0.99	<0.001	0.31	0.57	0.04	0.10	0.97	<0.001	0.96	<0.001	0.83	<0.001	(Havens 1992)	Riede unpubl.
Sand Lake	lake	–0.17	0.02	0.19	0.46	0.01	0.20	0.27	0.17	0.07	0.96	<0.001	0.96	<0.001	0.88	<0.001	(Havens 1992)	Riede unpubl.
South Lake	lake	–0.70	<0.01	0.33	0.75	<0.001	0.44	0.06	0.86	0.00	0.97	<0.001	0.99	<0.001	0.95	<0.001	(Havens 1992)	Riede unpubl.
Squaw Lake	lake	–0.36	<0.001	0.47	1.00	<0.001	0.26	0.62	0.03	0.12	0.92	<0.001	0.97	<0.001	0.91	<0.001	(Havens 1992)	Riede unpubl.
Stink Lake	lake	–0.39	<0.01	0.18	1.38	<0.001	0.31	0.96	0.00	0.16	0.97	<0.001	0.95	<0.001	0.85	<0.001	(Havens 1992)	Riede unpubl.
Twin Lake East	lake	–0.27	0.05	0.30	0.42	0.01	0.48	0.10	0.57	0.03	0.98	<0.001	0.97	<0.001	0.95	<0.001	(Havens 1992)	Riede unpubl.
Twin Lake West	lake	–0.67	<0.001	0.42	0.82	<0.01	0.30	0.12	0.65	0.01	0.91	<0.001	0.95	<0.001	0.94	<0.001	(Havens 1992)	Riede unpubl.
Twelfth Tee Lake	lake	–0.23	0.01	0.22	0.50	0.02	0.18	0.24	0.26	0.04	0.95	<0.001	0.99	<0.001	0.94	<0.001	(Havens 1992)	Riede unpubl.
Whipple Lake	lake	–0.23	0.09	0.09	0.84	<0.001	0.36	0.61	0.01	0.19	0.99	<0.001	0.91	<0.001	0.80	<0.001	(Havens 1992)	Riede unpubl.
Wolf Lake	lake	–0.20	0.16	0.08	0.87	0.01	0.27	0.65	0.05	0.15	0.82	0.01	0.95	<0.001	0.98	<0.001	(Havens 1992)	Riede unpubl.
Littlerock Lake	lake	–0.32	0.02	0.03	0.55	<0.001	0.26	0.22	0.15	0.01	0.93	<0.001	0.98	<0.001	0.79	<0.001	(Martinez 1991)	Riede unpubl.
Sierra Lakes	lake	–0.66	<0.001	0.27	1.81	<0.001	0.43	1.14	0.00	0.21	0.97	<0.001	0.92	<0.001	0.77	<0.001	(Brose et al. 2006)	(Brose et al. 2006)
Skipwith Pond	lake	–1.77	0.01	0.18	5.11	<0.01	0.27	3.21	0.01	0.20	0.99	<0.001	0.96	<0.001	0.84	<0.001	(Warren 1989)	(Brose et al. 2006)
Tuesday Lake 1984	lake	–0.86	<0.01	0.19	2.00	<0.001	0.52	1.09	0.01	0.13	0.97	<0.001	0.96	<0.001	0.81	<0.001	(Jonsson et al. 2005)	(Brose et al. 2006)
Benguela	marine	–0.37	0.23	0.05	1.16	<0.001	0.35	0.77	0.02	0.18	0.96	<0.001	0.85	<0.001	0.68	<0.001	(Yodzis 1998)	(Yodzis 1998)
Carpinteria	marine	–1.16	<0.001	0.31	0.77	<0.001	0.19	–0.39	0.15	0.03	0.93	<0.001	0.99	<0.001	0.89	<0.001	(Lafferty et al. 2006)	Riede unpubl.

St. Marks	marine	–0.59	0.00	0.31	0.41	0.00	0.25	–0.16	0.40	0.02	0.99	<0.001	0.90	<0.001	0.77	<0.001	(Christian and Luczkovich 1999)	Riede unpubl.
Mondego Esturay Zostera	marine	–0.97	<0.001	0.40	1.06	<0.001	0.32	0.08	0.78	0.00	0.99	<0.001	0.89	<0.001	0.74	<0.001	(Patricio and Marques 2006)	Jacob unpubl.
Small Reef	marine	–1.08	<0.001	0.30	1.13	0.01	0.15	0.01	0.98	0.00	0.99	<0.001	0.93	<0.001	0.79	<0.001	(Opitz 1996)	Riede unpubl.
Weddel See	marine	–3.74	<0.001	0.40	0.00	<0.001	0.08	–1.02	0.04	0.01	0.94	<0.001	0.98	<0.001	0.76	<0.001	(Brose et al. 2006)	(Brose et al. 2006)
Ythan Estuary	marine	–1.04	<0.001	0.15	1.02	<0.001	0.19	–0.03	0.94	0.00	0.88	<0.001	0.99	<0.001	0.92	<0.001	(Cohen et al. 2009)	(Cohen et al. 2009)
Alamitos Creek	stream	–3.54	<0.001	0.12	3.46	<0.01	0.05	–0.10	0.94	0.00	0.97	<0.001	0.95	<0.001	0.72	<0.001	(Harrison 2003)	Riede unpubl.
Bere Stream	stream	–2.46	<0.001	0.40	1.76	<0.01	0.29	–0.70	0.06	0.03	0.90	<0.001	0.97	<0.001	0.79	<0.001	(Woodward et al.2008)	Riede unpubl.
Broadstone Stream	stream	–0.33	0.35	0.03	1.13	0.07	0.10	0.77	0.23	0.05	0.96	<0.001	0.95	<0.001	0.82	<0.001	(Woodward and Hildrew 2001)	(Harrison 2003)
Calero Creek	stream	–2.78	<0.001	0.14	2.72	<0.01	0.08	–0.04	0.93	0.00	0.97	<0.001	0.95	<0.001	0.70	<0.001	(Harrison 2003)	Riede unpubl.
Corte Madera Creek	stream	–2.83	<0.001	0.11	3.38	<0.01	0.09	0.54	0.64	0.00	0.99	<0.001	0.93	<0.001	0.71	<0.001	(Harrison 2003)	Riede unpubl.
Coyote Creek	stream	–4.77	<0.001	0.22	4.70	<0.001	0.12	–0.09	0.93	0.00	0.98	<0.001	0.95	<0.001	0.73	<0.001	(Harrison 2003)	Riede unpubl.
Guadelupe Creek	stream	–4.51	<0.001	0.14	5.82	<0.001	0.10	1.30	0.36	0.00	0.98	<0.001	0.94	<0.001	0.69	<0.001	(Harrison 2003)	Riede unpubl.
Guadelupe River	stream	–3.41	<0.001	0.20	2.02	0.01	0.05	–1.41	0.10	0.02	0.99	<0.001	0.93	<0.001	0.70	<0.001	(Harrison 2003)	Riede unpubl.
Los Gatos Creek	stream	–4.63	<0.001	0.16	4.43	<0.001	0.07	–0.22	0.86	0.00	0.98	<0.001	0.94	<0.001	0.70	<0.001	(Harrison 2003)	Riede unpubl.
Los Trancos Creek	stream	–3.23	<0.001	0.15	3.71	<0.001	0.11	0.20	0.65	0.00	0.98	<0.001	0.93	<0.001	0.68	<0.001	(Harrison 2003)	Riede unpubl.
Mill Stream	stream	–1.34	<0.001	0.50	0.79	<0.001	0.47	–0.55	<0.01	0.10	0.90	<0.001	0.99	<0.001	0.86	<0.001	(Brose et. al. 2006)	(Brose et. al. 2006)
Penninterra Creek	stream	–5.01	<0.001	0.20	2.74	0.01	0.04	–2.27	0.05	0.02	0.98	<0.001	0.93	<0.001	0.68	<0.001	(Harrison 2003)	Riede unpubl.
Ross Creek	stream	–3.53	<0.001	0.18	3.37	<0.001	0.13	–0.17	0.87	0.00	0.99	<0.001	0.92	<0.001	0.70	<0.001	(Harrison 2003)	Riede unpubl.
San Francisquito Creek	stream	–4.03	<0.001	0.17	4.35	<0.001	0.10	0.30	0.78	0.00	0.99	<0.001	0.92	<0.001	0.68	<0.001	(Harrison 2003)	Riede unpubl.
Sarratoga Creek	stream	–4.44	<0.001	0.16	4.77	<0.001	0.09	0.33	0.80	0.00	0.97	<0.001	0.95	<0.001	0.72	<0.001	(Harrison 2003)	Riede unpubl.

Stevens Creek	stream	–5.36	<0.001	0.17	5.02	<0.001	0.08	–0.36	0.80	0.00	0.99	<0.001	0.92	<0.001	0.69	<0.001	(Harrison 2003)	Riede unpubl.
Broom Source	terrestrial	0.00	0.98	0.00	0.10	0.18	0.03	0.10	0.50	0.01	0.88	<0.001	0.98	<0.001	0.98	<0.001	(Memmott et al. 2000)	(Brose et al. 2006)
Coachella	terrestrial	–0.46	0.17	0.08	1.27	<0.01	0.33	0.81	0.04	0.16	0.94	<0.001	0.65	<0.001	0.52	<0.001	(Polis 1991)	Riede unpubl.
Florida Islands E1	terrestrial	0.29	0.15	0.01	0.15	0.05	0.02	1.44	0.01	0.03	0.80	<0.001	0.98	<0.001	0.80	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Florida Islands E2	terrestrial	1.41	0.01	0.03	–0.32	0.18	0.10	1.09	0.05	0.07	0.76	<0.001	0.95	<0.001	0.93	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Florida Islands E3	terrestrial	0.30	0.15	0.01	1.14	0.05	0.02	1.44	0.01	0.03	0.81	<0.001	0.98	<0.001	0.79	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Florida Islands E7	terrestrial	1.56	0.01	0.04	–0.39	0.14	0.11	1.17	0.05	0.07	0.86	<0.001	0.97	<0.001	0.87	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Florida Islands E9	terrestrial	1.49	0.03	0.04	–0.42	0.14	0.09	1.07	0.09	0.05	0.91	<0.001	0.98	<0.001	0.84	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Florida Islands Metaweb	terrestrial	0.83	0.10	0.01	2.82	0.04	0.02	3.64	<0.01	0.04	0.84	<0.001	0.98	<0.001	0.77	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Florida Islands ST2	terrestrial	–0.49	0.05	0.07	1.66	0.01	0.13	1.17	0.05	0.07	0.85	<0.001	0.98	<0.001	0.91	<0.001	(Simberloff and Abele 1975)	Riede and Grischkat
Grande Caricaie CLControl	terrestrial	0.34	0.44	0.00	–0.09	0.90	0.00	0.27	0.68	0.00	0.93	<0.001	0.95	<0.001	0.72	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie CLControl2	terrestrial	–0.25	0.39	0.01	0.10	0.84	0.00	–0.13	0.79	0.00	0.92	<0.001	0.94	<0.001	0.74	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie CLMown1	terrestrial	0.38	0.32	0.00	–1.11	0.10	0.01	–0.73	0.27	0.01	0.95	<0.001	0.97	<0.001	0.74	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie CLMown2	terrestrial	0.24	0.40	0.00	–0.31	0.55	0.00	–0.06	0.90	0.00	0.92	<0.001	0.97	<0.001	0.77	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie SC_Control1	terrestrial	–0.67	0.01	0.04	–0.44	0.33	0.01	–1.10	0.02	0.04	0.94	<0.001	0.98	<0.001	0.80	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie SC_Control2	terrestrial	–0.60	0.01	0.04	–0.08	0.88	0.00	–0.67	0.16	0.00	0.91	<0.001	0.99	<0.001	0.81	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie SCMown1	terrestrial	–0.33	0.45	0.00	–0.09	0.72	0.00	–0.42	0.33	0.01	0.95	<0.001	0.97	<0.001	0.76	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)
Grande Caricaie SCMown2	terrestrial	–0.71	0.14	0.00	0.04	0.86	0.01	–0.67	0.15	0.01	0.95	<0.001	0.97	<0.001	0.77	<0.001	(Cattin et al. 2004)	(Brose et al. 2006)

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