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Supplementary Material

Length-Weight Relationships of *Pseudorasbora parva* (Temminck and Schlegel, 1842) Around the World

Guangcan Lin[1,2,3], Xingyu Chen[1,2,3], Xiaohao Shi[1,2,3], Xiaolin Li[1,2,3], Anwar Tanwari Kamran[4], Zhengxiang Wang[1,2,3], Qing Zhu[5], Gaodao Liang[5]* and Lei Pan[1,2,3]*

[1]Faculty of Resources and Environmental Science, Hubei University, Wuhan 430062, People's Republic of China
[2]Regional Development and Environmental Response, Key Laboratory of Hubei Province, Hubei University, Wuhan 430062, People's Republic of China
[3]Hubei Engineering Research Center for Rural Drinking Water Security Hubei University, Wuhan 430062, People's Republic of China
[4]School of Civil Engineering, Wuhan University, Wuhan 430072, People's Republic of China
[5]Wuhan Centers for Disease Control and Prevention, Wuhan 430000, People's Republic of China

Supplementary Table I. Parameters of length-weight relationships of *Pseudorasbora parva* (Temminck and Schlegel, 1842).

No.	Status	Country	Location	Sampled year	Gender	n	L_{min}	L_{max}	LS	a'	b	R^2	References
1	N	China	Amur River	2012	C	1269	3.10	11.20	TL	0.0070	3.08	0.95	Huang et al. (2014)
2	N	China	Caohai Lake	2014–2015	C	180	0.70	9.70	TL	0.0128	3.00	N/A	Fei et al. (2017)
3	N	China	Chaohu Lake	2003–2004	C	68	N/A	N/A	TL	0.0093	2.97	0.97	Yan (2005)[1]
4	N	China	Chishui River	2007–2012	C	162	2.90	9.50	SL	0.0088	3.08	0.99	Liu et al. (2014)
5	N	China	Dongting Lake	2003–2004	C	34	N/A	N/A	TL	0.0086	3.16	0.97	Yan (2005)[1]
6	N	China	Fenhe River	2019	C	96	2.00	6.90	SL	0.0050	3.08	0.94	Xue (2020)
7	N	China	Honghu lake	2018	C	44	5.40	9.20	TL	0.0060	3.17	0.97	Piria et al. (2020)
8	N	China	Huang Pi	2018	C	10	6.10	7.90	TL	0.0040	3.38	0.98	Piria et al. (2020)
9	N	China	Jiangjin Town	2011–2012	C	114	2.80	12.80	TL	0.0088	3.07	0.98	The present study
10	N	China	Lake Niushan	2002–2004	C	107	3.00	10.70	TL	0.0074	3.08	0.99	Ye et al. (2007)
11	N	China	Lake Niushan	2002–2004	M	54	4.20	8.50	TL	0.0068	3.11	0.97	Ye et al. (2007)

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* *Corresponding author: lgd@whcdc.org,* leipan@hubu.edu.cn, gali3721@gmail.com
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No.	Status	Country	Location	Sampled year	Gender	n	L_{min}	L_{max}	LS	a'	b	R^2	References
12	N	China	Lake Niushan	2002–2004	F	33	4.40	8.60	TL	0.0088	3.05	0.97	Ye et al. (2007)
13	N	China	Liuxihe	2012	C	154	4.80	11.80	TL	0.0070	3.10	0.95	Li et al. (2014)
14	N	China	Nanwan Lake	2014	C	427	3.58	8.78	SL	0.0361	3.05	0.90	Li et al. (2017)[1,2]
15	N	China	Nanwan Lake	2014	M	260	3.68	8.83	SL	0.0315	3.12	0.89	Li et al. (2017)[1,2]
16	N	China	Nanwan Lake	2014	F	167	3.58	8.78	SL	0.0453	2.93	0.88	Li et al. (2017)[1,2]
17	N	China	Sangkan River	2019	C	292	2.15	13.20	SL	0.0068	2.90	N/A	Han (2020)
18	N	China	Taihu Lake	2014	C	1207	2.70	10.74	SL	0.0109	2.95	0.93	Liu et al. (2016)[1]
19	N	China	Tian-e zhou Oxbow	2010–2011	C	30	3.50	7.90	SL	0.0070	3.12	0.99	Wang et al. (2012)
20	N	China	Wujiang River	2006–2014	C	104	4.00	9.20	SL	0.0065	3.21	0.97	Yang et al. (2016)
21	N	China	Xieshui River	2007–2008	C	76	4.90	12.00	TL	0.0120	2.90	0.95	Xie et al. (2015)
22	N	China	Yiluo River	2016	C	1037	2.90	11.60	TL	0.0055	3.31	0.97	Qin et al. (2017)
23	N	South Korea	Geum River	2021	C	39	2.70	9.30	TL	0.0113	2.82	0.99	Baek et al. (2022)
24	N	South Korea	Han River	2008	C	148	4.30	9.70	TL	0.0069	3.15	0.92	Baek et al. (2020)
25	N	South Korea	Saemangeum Reservoir	2013	C	36	5.00	9.80	TL	0.0076	3.06	0.99	Kim et al. (2015)
26	N	South Korea	Seomjin River	2018–2019	C	18	4.70	9.10	TL	0.0111	2.77	0.92	Kim et al. (2020)
27	I	Belgium	Flemish inland waters	1992–2009	C	7815	1.90	12.50	TL	0.0066	3.20	0.94	Verreycken et al. (2011)
28	I	China	Chabalang Wetland	2009/ 2013	C	256	2.67	9.66	TL	0.0087	3.15	0.99	Ding (2014)[1]
29	I	China	Chabalang Wetland	2009/ 2013	M	114	3.14	1.76	SL	0.0074	3.21	0.97	Ding et al. (2018)[1]
30	I	China	Chabalang Wetland	2009/2013	F	108	3.28	7.87	SL	0.0115	3.01	0.98	Ding et al. (2018)[1]
31	I	China	Ergis River	2008	C	8	4.00	6.70	TL	0.0130	3.09	0.99	Huo et al. (2011)
32	I	China	Erhai Lake	2009	C	402	2.13	9.36	SL	0.0067	3.21	0.99	Fei (2012)
33	I	China	Erhai lake	2009–2012	C	2674	1.70	11.90	TL	0.0075	3.09	0.99	Tang et al. (2013)
34	I	China	Erhai lake	2009–2012	M	214	3.50	11.90	TL	0.0070	3.16	0.98	Tang et al. (2013)
35	I	China	Erhai lake	2009–2012	F	399	3.30	11.30	TL	0.0124	2.86	0.97	Tang et al. (2013)
36	I	China	Fu Xian Lake	2003–2004	C	101	N/A	N/A	TL	0.0183	2.66	0.67	Yan (2005)[1]
37	I	China	Ili River	2006	C	20	5.46	8.37	TL	0.0100	3.00	N/A	Sui et al. (2015)
38	I	China	Lhasa River	2015	C	26	3.11	6.53	SL	0.0040	3.29	0.97	Lin et al. (2017)
39	I	China	Lhasa River	2010/ 2014	C	373	2.31	9.91	TL	0.0087	3.09	0.96	Fan et al. (2015)
40	I	China	Tarim River	2009–2010	C	141	3.50	9.70	TL	0.0085	3.02	0.98	Huo et al. (2012)
41	I	Croatia	Fuka lake	2014	C	48	4.60	9.40	TL	0.0060	3.20	0.96	Piria et al. (2020)
42	I	Croatia	Jamarice wetland	2015	C	10	3.80	5.60	TL	0.0070	3.11	0.82	Piria et al. (2020)
43	I	Croatia	Mrsunja channel	2016	C	30	3.60	6.70	TL	0.0040	3.36	0.97	Piria et al. (2020)
44	I	Croatia	Mrsunja channel	2018	C	10	4.50	9.80	TL	0.0040	3.45	0.99	Piria et al. (2020)
45	I	Croatia	Osekovo lake	2015	C	14	4.60	9.30	TL	0.0080	3.11	0.96	Piria et al. (2020)
46	I	Croatia	Sava River Ivanja Reka	2004	C	40	3.10	5.50	TL	0.0160	2.66	0.96	Piria et al. (2020)
47	I	Croatia	Sava River Medsave	2004	C	9	3.90	7.50	TL	0.1100	2.95	0.99	Piria et al. (2020)[2]

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No.	Status	Country	Location	Sampled year	Gender	n	L_{min}	L_{max}	LS	a'	b	R^2	References
48	I	Croatia	Sava River Zagreb	2005	C	11	4.20	8.70	TL	0.0070	3.11	0.98	Piria et al. (2020)
49	I	Greece	Kerkini Reservoir	2007–2008	C	435	5.10	12.00	TL	0.0030	3.55	0.95	Petriki et al. (2011)
50	I	Greece	Lake Mikri Prespa	2008	C	105	5.40	8.30	TL	0.0472	2.12	0.76	Bobori et al. (2010)
51	I	Iran	Wetland of Alma-Gol	2000–2002	F	28	N/A	N/A	TL	0.0100	2.93	0.78	Patimar and Baensaf (2012)
52	I	Iran	Wetland of Alma-Gol	2000–2002	M	56	N/A	N/A	TL	0.0140	2.73	0.89	Patimar and Baensaf (2012)
53	I	Iran	N/A	N/A	C	33	4.58	7.50	TL	0.0098	3.01	0.91	Esmaeili and Ebrahimi (2006)
54	I	Iran	Shahrbijar	2004–2005	C	12	2.10	7.10	TL	0.0088	2.94	0.99	Asadi et al. (2017)[1]
55	I	Iran	Sirwan River	2011	C	30	3.00	7.20	TL	0.0040	3.37	0.96	Hasankhani et al. (2014)
56	I	Iran	Zarrineh River	2013	C	25	3.10	7.50	TL	0.0097	3.15	0.97	Radkhah and Eagderi (2015)
57	I	Italy	Chiascio basin	1990–2014	C	3659	N/A	N/A	TL	0.0754	2.04	0.99	Carosi et al. (2016)
58	I	Italy	Nestore basin	1990–2014	C	511	N/A	N/A	TL	0.0173	2.74	0.85	Carosi et al. (2016)
59	I	Italy	Paglia basin	1990–2014	C	174	N/A	N/A	TL	0.0145	2.78	0.90	Carosi et al. (2016)
60	I	Italy	Tevere basin	1990–2014	C	683	N/A	N/A	TL	0.0110	2.88	0.90	Carosi et al. (2016)
61	I	Italy	Tiber river	1990–2014	C	5570	2.50	11.20	TL	0.0210	2.67	0.86	Carosi et al. (2016)
62	I	Italy	Trasimeno lake	1990–2014	C	543	N/A	N/A	TL	0.0064	3.23	0.90	Carosi et al. (2016)
63	I	Montenegro	Skadar Lake	2010–2014	C	42	5.70	9.60	TL	0.0050	3.22	0.96	Milošević and Mrdak (2016)
64	I	Poland	Ciemięga River	2003–2007	C	316	1.50	10.40	TL	0.0352	2.25	0.67	Rechulicz (2011)[1]
65	I	Poland	Wardynka	2015–2016	F	265	N/A	N/A	TL	0.0051	3.43	0.90	Czerniejewski et al. (2019)
66	I	Poland	Wardynka	2015–2016	M	253	N/A	N/A	TL	0.0049	3.49	0.97	Czerniejewski et al. (2019)
67	I	Poland	Wardynka	2015–2016	C	518	3.12	8.60	TL	0.0042	3.49	0.95	Czerniejewski et al. (2019)
68	I	Romania	Timiş River	2014–2015	C	29	3.92	5.31	SL	0.0645	2.04	0.72	Stavrescu Bedivan et al. (2017)
69	I	Turkey	Afşar reservoir	2016–2017	C	61	4.09	11.14	TL	0.0120	2.99	0.99	Güçlü and Küçük (2021)
70	I	Turkey	Demirköprü reservoir	2016–2017	C	73	5.51	9.10	TL	0.0094	3.01	0.94	Güçlü and Küçük (2021)
71	I	Turkey	Gökçeada Reservoir	2019/ 2020	C	30	2.00	7.00	SL	0.0087	3.05	0.99	AĞDamar and Gaygusuz (2021)
72	I	Turkey	Hirfanlı Dam Lake	2016	C	405	3.60	9.30	FL	0.0101	2.98	0.94	Benzer (2020)
73	I	Turkey	Hirfanlı Dam Lake	2016	F	155	3.60	9.30	FL	0.0110	2.92	0.94	Benzer (2020)
74	I	Turkey	Hirfanlı Dam Lake	2016	M	250	3.60	9.20	FL	0.0092	3.04	0.95	Benzer (2020)
75	I	Turkey	Hirfanlı Dam Lake	2005–2006	C	356	2.70	9.20	FL	0.0097	3.00	N/A	Benzer and Benzer (2020a)
76	I	Turkey	Hirfanlı Dam Lake	2005–2006	F	139	N/A	N/A	FL	0.0093	3.04	0.94	Benzer and Benzer (2020a)
77	I	Turkey	Hirfanlı Dam Lake	2005–2006	M	217	N/A	N/A	FL	0.0240	2.97	0.94	Benzer and Benzer (2020a)
78	I	Turkey	Hirfanlı Reservoir	2008	C	3368	1.80	9.62	TL	0.0057	3.32	0.98	Kırankaya et al. (2014)[1]
79	I	Turkey	Lake Mogan	2013–2014	C	326	4.70	9.50	TL	0.0138	2.84	0.95	Arslan and Özeren (2019)
80	I	Turkey	Lake Mogan	2013–2014	F	196	4.90	9.20	TL	0.0070	3.11	0.93	Arslan and Özeren (2019)
81	I	Turkey	Lake Mogan	2013–2014	M	130	4.70	9.50	TL	0.0065	3.10	0.94	Arslan and Özeren (2019)
82	I	Turkey	Marmara Lake	2012–2013	C	116	5.20	11.00	TL	0.0121	2.93	0.98	Ilhan and Sari (2015)

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No.	Status	Country	Location	Sampled year	Gender	n	L_{min}	L_{max}	LS	a'	b	R^2	References
83	I	Turkey	Marmara Lake	2016–2017	C	122	4.63	9.67	TL	0.0236	2.53	0.81	Güçlü and Küçük (2021)
84	I	Turkey	Onaç Creek	2013–2015	C	217	2.80	6.70	TL	0.0061	3.26	0.92	Innal et al. (2019)
85	I	Turkey	Süreyyabey Reservoir	2016	C	550	4.00	7.73	FL	0.0079	3.12	0.94	Benzer and Benzer (2020b)
86	I	Turkey	Süreyyabey Reservoir	2016	M	317	4.00	7.63	FL	0.0088	3.07	0.95	Benzer and Benzer (2020b)
87	I	Turkey	Süreyyabey Reservoir	2016	F	233	4.00	7.73	FL	0.0713	3.07	0.98	Benzer and Benzer (2020b)[2]
88	I	UK	N/A	2005	C	289	2.50	7.20	FL	0.0086	3.14	0.98	Britton and Davies (2007)
89	I	UK	N/A	2006	C	100	2.50	7.40	FL	0.0071	3.18	0.99	Britton and Davies (2007)
90	I	UK	N/A	2006	C	88	2.50	7.30	FL	0.0071	3.21	0.98	Britton and Davies (2007)
91	I	UK	N/A	2006	C	100	2.50	8.10	FL	0.0093	3.00	0.99	Britton and Davies (2007)
92	I	UK	N/A	2006	C	100	2.50	6.90	FL	0.0090	2.93	0.98	Britton and Davies (2007)
93	I	UK	N/A	2006	C	100	2.50	9.10	FL	0.0052	3.32	0.98	Britton and Davies (2007)
94	I	UK	N/A	2006	C	252	2.50	11.80	FL	0.0060	3.14	0.99	Britton and Davies (2007)
95	I	UK	N/A	2006	C	150	2.50	8.70	FL	0.0088	3.05	0.97	Britton and Davies (2007)
96	I	UK	N/A	2006	C	50	2.50	8.20	FL	0.0083	3.06	0.99	Britton and Davies (2007)
97	I	UK	N/A	2006	C	100	2.50	8.30	FL	0.0131	2.76	0.98	Britton and Davies (2007)
98	I	UK	N/A	2005–2006	C	1329	2.50	11.80	FL	0.0076	3.03	0.97	Britton and Davies (2007)

No. is the row number of the table. Status means an indication of species status; N, sampled from native populations; I, sampled from invasive populations. Gender, sex (F, female; M, male; C, combined sexes). n, sampled size. L_{min} is the minimum length and L_{max} is the maximum length; LS, type of length in the original source study (TL, total length; FL, fork length; SL, standard length). *a'* = the original standardized intercept *(a)* corresponding to a_{TL} and a_{cm}; *b* = the slope of the relationship $W = aL^b$; R^2 = coefficient of determination; "N/A" means no data in the literature. [1]length-weight relationship corresponding to mm, g. [2]questionable records, the respective point deviated more than two standard deviations from the regression line between log (*a'*) and *b*.

Supplementary Table II. Estimated *b* value for *Pseudorasbora parva* (Temminck and Schlegel, 1842).

		n	Min	Max	Median	SE	95%CI
Native	b	23	2.77	3.38	3.08	0.02	3.03–3.12
Invasive	b	65	2.04	3.55	3.09	0.03	3.02–3.12

CI means confidence interval of the median; *SE* is the standard error.

Supplementary Table III. Estimated *a'* and form factors for *Pseudorasbora parva* (Temminck and Schlegel, 1842).

		n	Min	Max	Median	SE	95%CI
Native	a'	23	0.0040	0.0128	0.0074	0.0007	0.0068–0.0088
	$a'_{3.0}$	23	0.0022	0.0161	0.0064	0.0007	0.0056–0.0080
Invasive	a'	65	0.0030	0.0650	0.0087	0.0005	0.0075–0.0092
	$a'_{3.0}$	65	0.0011	0.4093	0.0073	0.0008	0.0057–0.0093

CI means confidence interval of the median; *SE* is the standard error.