

Supplemental Data

S1: Data

LifetimeResidency	CaptureDate	Cohort	Length	Weight	LifetimeResidency	Bulk δ15N	Relative TP based on bulk	Bulk δ13C	Weighted Mean 15N Source	Estimated TP	Gly	Leu	Nor	Glu	Phe	AAA	Lys	SDGly	SDLeu	SDNor	SDGlu	SDPhe	SDAAA	SDLys	[Hg] dry mg/kg	[Hg] wet mg/kg	δ202	δ201	δ200	δ199	
EF	62718	2017	420	940	EF	11.4	10.8727674	-20	0.527232603	2.456140351	7.2	15.5	18.8	18.7	6.8	-5.5	4	0.76	0.17	0.2	0.11	0.51	0.06	0.23	0.17212	0.03339128	-0.32	-0.06	-0.11	0.15	
EF	71318	2017	333	460	EF	13.6	12.70836888	-21.4	0.891631117	3.210526316	8.9	22.4	20.1	25.2	9	-4.5	8.9	0.26	0.18	0.16	0.04	0.58	0.15	0.2	0.30852	0.0555336	-0.32	-0.05	-0.1	0.17	
EF	61019	2018	399	733	EF	11.4	10.71788732	-20.8	0.682112676	2.789473684	8.3	17.1	19.6	19.6	5.8	-4.6	5.8	0.39	0.36	0.37	0.32	0.87	0.29	0.39	0.1491	0.0345912	-0.22	-0.03	-0.12	0.16	
EF	61119	2017	547	1913	EF	13.9	13.14464688	-19.1	0.755353122	3.315789474	7.4	21.3	19.7	23.4	6.6	-4.5	8.5	0.4	0.23	0.35	0.35	0.51	0.33	0.42	0.63682	0.13309538	-0.48	-0.14	-0.18	0.14	
EF	61319	2018	341	440	EF	11.8	11.23207547	-21.3	0.567924528	2.98245614	7	15.5	18.5	19.1	4.2	-5.2	3.5	0.1	0.36	0.16	0.05	0.64	0.52	0.2	0.15537	0.02905419	-0.23	-0.05	-0.06	0.22	
EF	71619	2018	473	1308	EF	14.3	13.46932667	-20.6	0.830673333	3.456140351	10.1	22.3	19.7	24.3	6.7	-4.3	8.3	0.74	0.33	0.2	0.2	0.77	0.89	0.02	0.44914	0.10285306	-0.39	-0.1	-0.15	0.2	
TF	72618	2018	292	297	TF	12.8	11.95262136	-22.8	0.847378641	2.684210526	10.1	18.6	19.2	21.2	8	-5.4	6.7	0.25	0.33	0.14	0.26	0.8	0.34	0.3	0.22399	0.04390204	-0.28	-0.21	-0.08	-0.11	
TF	71519	2018	455	1185	TF	13.6	12.80424084	-19.1	0.795759162	3.473684211	9.9	20.9	19.8	22.9	5.2	-4.8	7.4	0.2	0.31	0.08	0.22	0.46	0.14	0.15	0.33411	0.07517475	-0.29	-0.04	-0.13	0.23	
FW	61918	2017	300	321	FW	13.1	12.15161489	-28.3	0.948385105	2.385964912	9.6	19.6	19	22.1	10.6	-5.4	5.6	0.02	0.24	0.09	0.17	0.89	0.23	0.55	0.48176	0.10309664	-0.64	-0.37	-0.31	0.01	
FW	70818	2017	296	280	FW	14.9	13.94090171	-28.6	0.959098294	3.052631579	10.2	23.3	20.1	26.4	11.1	-5.1	7.5	0.07	0.16	0.13	0.12	0.86	0.48	0.2	0.47551	0.09700404	-0.7	-0.47	-0.31	0	
FW	32119	2019	262	172.7	FW	14.4	13.44320197	-29.1	0.95679803	2.701754386	11	20.8	19.3	23.4	10.1	-5	7.3	0.27	0.11	0.27	0.1	1.04	0.3	0.39	0.34049	0.06741702	-0.5	-0.36	-0.25	0.02	
FW	51619	2018	322	319	FW	13.8	12.8979677	-30.6	0.902032301	2.49122807	10.7	20.2	19.4	22.5	10.4	-4.5	7.7	0.16	0.09	0.01	0.21	0.51	0.36	0.1	0.28692	0.06140088	-0.46	-0.25	-0.22	0.1	
FW	52319	2018	322	375	FW	13.7	12.74688356	-26.6	0.953116438	2.807017544	10.2	20.8	19	23.2	9.3	-5	8.2	0.09	0.19	0.11	0.14	0.1	0.12	0.26	0.36399	0.07352598	-0.72	-0.44	-0.33	-0.1	
FW	60219	2018	368	600	FW	12.7	11.89078698	-30.1	0.809213016	2.456140351	9.3	19.1	19	21	9.1	-4.9	5.8	0.23	0.2	0.07	0.27	0.38	0.29	0.29	0.44246	0.09203168	-0.78	-0.55	-0.36	-0.09	
FW	61219	2018	319	413	FW	13.9	13.00108635	-26.9	0.898913649	3.122807018	9.6	20.2	19	22.6	6.9	-3.5	7.7	0.03	0.34	0.41	0.09	0.2	0.59	0.13	0.38399	0.07986992	-0.64	-0.42	-0.25	0.06	
FW	70619	2018	333	358	FW	12.5	11.83589041	-26.8	0.664109589	3.385964912	8.8	19.2	18.7	21	3.8	-4.2	6.4	0.36	0.55	0.3	0.33	0.61	0.47	0.18	0.37986	0.07331298	-0.49	-0.31	-0.2	0.13	
EF	62618	2018	270	211.28	EF	12.2	11.38	-23.3	0.82																0.5369	0.0977158	-0.614409897	-0.606538184	-0.25021153	-0.29070827	
TF	61818	2017	375	556	TF	13.5	12.68	-26.7	0.82																	0.3682	0.0692216	-0.692462472	-0.360464003	-0.274854703	0.04268121
TF	60319	2018	411	780	TF	11.8	10.98	-26.1	0.82																	0.2732	0.0568256	-0.86470172	-0.502133783	-0.506955006	-0.132464029
TF	60419	2018	365	570	TF	11.2	10.38	-28.1	0.82																	0.2451	0.0519612	-0.698590719	-0.457944071	-0.360085978	-0.050380939
TF	61119	2018	439	987	TF	13.8	12.98	-19.4	0.82																	0.282	0.060912	-0.315552691	-0.112115062	-0.117439302	0.250136182
TF	61119	2018	372	583	TF	11.9	11.08	-18.5	0.82																	0.2531	0.0516324	-0.642295496	-0.200606243	-0.341461032	0.185527767
TF	73019	2018	390	781	TF	12.3	11.48	-21.1	0.82																	0.2671	0.0552897	-0.64133598	-0.309703089	-0.335627293	0.039714647