

Increase in mercury in Pacific yellowfin tuna

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Supplemental Data

Table S1. Data used in analysis-of-covariance (ANCOVA) for mercury concentration with tuna size as a covariate. Tuna from 22–76 kg were included in the analysis as this size range (± 5 kg) was common to all three data sets. Outliers were identified with Tukey box plots and confirmed by one-sided Grubbs' tests. Note that data from [14] were not given in tabulated form and were thus estimated with digitizing software from Fig. 1 in [14].

dataset	mass (kg)	mercury (ppm)	reference	note
1971	9.98	0.240	12	<22 kg; excluded
1971	11.34	0.160	12	<22 kg; excluded
1971	30.84	0.240	11	
1971	31.75	0.200	12	
1971	36.29	0.110	12	
1971	36.74	0.180	12	
1971	37.19	0.240	12	
1971	37.19	0.150	12	
1971	37.65	0.130	12	
1971	37.65	0.120	12	
1971	37.65	0.140	12	
1971	38.10	0.130	12	
1971	38.56	0.270	12	
1971	38.56	0.160	12	
1971	39.46	0.230	12	
1971	39.46	0.170	12	
1971	39.92	0.090	12	
1971	39.92	0.140	12	
1971	39.92	0.180	12	
1971	40.37	0.320	11	
1971	40.37	0.320	12	
1971	40.37	0.160	12	
1971	40.37	0.170	12	
1971	40.37	0.230	12	
1971	40.82	0.230	12	
1971	40.82	0.190	12	
1971	40.82	0.160	12	
1971	40.82	0.260	12	
1971	40.82	0.220	12	
1971	40.82	0.210	12	
1971	40.82	0.200	12	
1971	41.28	0.180	12	
1971	41.28	0.270	12	
1971	41.28	0.210	12	

1971	41.28	0.170	12
1971	41.28	0.180	12
1971	41.73	0.280	12
1971	41.73	0.280	12
1971	41.73	0.180	12
1971	42.18	0.240	12
1971	42.18	0.210	12
1971	42.18	0.190	12
1971	42.18	0.140	12
1971	42.64	0.210	12
1971	42.64	0.280	12
1971	43.09	0.270	12
1971	43.09	0.200	12
1971	43.09	0.190	12
1971	43.54	0.180	12
1971	43.54	0.190	12
1971	44.00	0.180	12
1971	44.00	0.210	12
1971	44.00	0.180	12
1971	44.45	0.140	12
1971	44.45	0.190	12
1971	44.91	0.320	12
1971	45.36	0.160	12
1971	45.36	0.150	12
1971	45.36	0.140	12
1971	45.36	0.210	12
1971	45.36	0.170	12
1971	45.81	0.130	12
1971	45.81	0.230	12
1971	45.81	0.240	12
1971	46.27	0.350	12
1971	46.72	0.150	12
1971	46.72	0.190	12
1971	46.72	0.270	12
1971	46.72	0.300	12
1971	47.17	0.310	11
1971	47.17	0.550	11
1971	47.17	0.230	12
1971	47.17	0.250	12
1971	47.17	0.230	12
1971	47.63	0.310	12
1971	47.63	0.150	12
1971	47.63	0.210	12
1971	48.08	0.230	12
1971	48.53	0.210	12

1971	48.53	0.200	12	
1971	48.53	0.330	12	
1971	48.99	0.180	12	
1971	49.44	0.260	12	
1971	49.44	0.160	12	
1971	49.44	0.220	12	
1971	52.16	0.400	11	
1971	53.07	0.340	11	
1971	53.07	0.200	12	
1971	53.07	0.220	12	
1971	53.52	0.370	12	
1971	53.98	0.210	12	
1971	54.88	0.270	12	
1971	55.34	0.240	12	
1971	55.79	0.260	12	
1971	56.70	0.160	12	
1971	58.97	0.200	12	
1971	59.42	0.240	12	
1971	60.33	0.640	11	
1971	60.33	0.300	12	
1971	62.60	0.250	12	
1971	63.05	0.500	11	
1971	63.05	0.230	12	
1971	63.50	0.320	11	
1971	64.86	0.470	11	
1971	67.13	0.370	12	
1971	68.04	0.260	12	
1971	68.49	0.440	11	
1971	69.40	0.390	12	
1971	70.31	0.320	11	
1971	72.57	0.410	11	
1971	72.57	1.320	11	outlier; excluded
1971	73.03	0.540	11	
1971	73.48	0.370	12	
1971	74.84	0.600	11	
1971	77.11	1.100	11	>76 kg; excluded
1971	81.65	0.550	11	>76 kg; excluded
1971	82.55	0.480	11	>76 kg; excluded
1971	83.46	0.370	12	>76 kg; excluded
1971	84.37	0.390	12	>76 kg; excluded
1971	91.17	0.660	11	>76 kg; excluded
1971	95.25	0.610	11	>76 kg; excluded
1971	97.52	0.640	11	>76 kg; excluded
1998	27.22	0.129	13	
1998	29.94	0.116	13	

1998	31.75	0.112	13	
1998	32.21	0.098	13	
1998	36.29	0.281	13	
1998	36.29	0.093	13	
1998	36.29	0.130	13	
1998	36.29	0.133	13	
1998	36.29	0.120	13	
1998	36.29	0.111	13	
1998	36.29	0.117	13	
1998	36.74	0.109	13	
1998	36.74	0.108	13	
1998	36.74	0.131	13	
1998	37.19	0.131	13	
1998	37.19	0.156	13	
1998	37.19	0.138	13	
1998	37.19	0.109	13	
1998	37.65	0.117	13	
1998	37.65	0.131	13	
1998	38.56	0.012	13	outlier; excluded
1998	39.01	0.259	13	
1998	39.01	0.135	13	
1998	39.01	0.084	13	
1998	39.46	0.136	13	
1998	39.46	0.123	13	
1998	39.92	0.146	13	
1998	39.92	0.218	13	
1998	40.37	0.135	13	
1998	40.37	0.272	13	
1998	40.82	0.079	13	
1998	40.82	0.169	13	
1998	40.82	0.139	13	
1998	40.82	0.129	13	
1998	41.28	0.142	13	
1998	41.28	0.212	13	
1998	41.28	0.193	13	
1998	41.28	0.170	13	
1998	41.28	0.208	13	
1998	41.28	0.180	13	
1998	41.28	0.173	13	
1998	41.28	0.180	13	
1998	41.28	0.144	13	
1998	41.73	0.192	13	
1998	41.73	0.422	13	
1998	41.73	0.120	13	
1998	41.73	0.256	13	

1998	41.73	0.196	13
1998	41.73	0.132	13
1998	41.73	0.187	13
1998	42.64	0.335	13
1998	43.54	0.180	13
1998	43.54	0.200	13
1998	43.54	0.155	13
1998	43.54	0.305	13
1998	43.54	0.103	13
1998	43.54	0.091	13
1998	44.00	0.336	13
1998	44.91	0.299	13
1998	44.91	0.153	13
1998	44.91	0.101	13
1998	45.36	0.260	13
1998	45.36	0.194	13
1998	45.36	0.153	13
1998	45.81	0.421	13
1998	45.81	0.198	13
1998	45.81	0.119	13
1998	45.81	0.169	13
1998	46.27	0.193	13
1998	46.27	0.609	13
1998	46.27	0.241	13
1998	46.27	0.161	13
1998	46.72	0.137	13
1998	46.72	0.173	13
1998	46.72	0.190	13
1998	47.63	0.449	13
1998	47.63	0.199	13
1998	48.08	0.162	13
1998	48.08	0.219	13
1998	48.53	0.137	13
1998	48.99	0.188	13
1998	48.99	0.341	13
1998	48.99	0.322	13
1998	49.44	0.295	13
1998	49.90	0.303	13
1998	50.35	0.247	13
1998	50.80	0.157	13
1998	52.16	0.359	13
1998	52.62	0.272	13
1998	53.52	0.342	13
1998	54.88	0.399	13
1998	54.88	0.248	13

1998	56.70	0.342	13	
1998	57.61	0.129	13	
1998	57.61	0.217	13	
1998	57.61	0.223	13	
1998	58.97	0.193	13	
1998	60.33	0.431	13	
1998	60.78	0.369	13	
1998	61.69	0.329	13	
1998	62.14	0.289	13	
1998	63.50	0.357	13	
1998	63.96	0.228	13	
1998	67.13	0.679	13	
1998	70.76	0.462	13	
2008	3.02	0.093	14	<22 kg; excluded
2008	3.02	0.135	14	<22 kg; excluded
2008	3.05	0.145	14	<22 kg; excluded
2008	5.01	0.182	14	<22 kg; excluded
2008	5.89	0.229	14	<22 kg; excluded
2008	6.61	0.178	14	<22 kg; excluded
2008	6.76	0.204	14	<22 kg; excluded
2008	7.76	0.275	14	<22 kg; excluded
2008	9.33	0.214	14	<22 kg; excluded
2008	9.33	0.324	14	<22 kg; excluded
2008	9.77	0.224	14	<22 kg; excluded
2008	10.47	0.195	14	<22 kg; excluded
2008	10.72	0.214	14	<22 kg; excluded
2008	10.96	0.112	14	<22 kg; excluded
2008	10.96	0.209	14	<22 kg; excluded
2008	11.22	0.138	14	<22 kg; excluded
2008	11.22	0.417	14	<22 kg; excluded
2008	12.30	0.166	14	<22 kg; excluded
2008	16.22	0.257	14	<22 kg; excluded
2008	17.38	0.257	14	<22 kg; excluded
2008	22.39	0.229	14	
2008	23.44	0.295	14	
2008	25.70	0.263	14	
2008	26.30	0.115	14	
2008	31.62	0.123	14	
2008	32.36	0.151	14	
2008	33.11	0.155	14	
2008	33.88	0.129	14	
2008	33.88	0.182	14	
2008	38.02	0.269	14	
2008	38.02	0.316	14	
2008	38.90	0.363	14	

2008	51.29	0.398	14
2008	70.79	0.646	14
