

Supplementary materials for:

Social and physical enrichment affect growth and reproduction in Amazon mollies

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Descriptive statistics

Two dependent variables were measured that reflect growth: standard length (mm) and mass (g). The descriptive data indicates that treatment had a clear effect on sizes of the Amazon mollies. Tables with the descriptive statistics are below.

Descriptive Statistic for treatment EN

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
Day 90	20	19	33	27.95	.776	3.471
Day 120	19	27	38	33.32	.671	2.926
Day 150	19	29	39	34.74	.616	2.684
Day 180	19	30	40	35.21	.619	2.699
Day 210	19	32	41	37.00	.567	2.472
Day 240	19	32	41	37.16	.608	2.651
Day 270	19	33	43	38.00	.631	2.749
Day 300	18	35	43	38.56	.590	2.502

Descriptive Statistics for treatment EnN

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
Day 90	20	20	32	27.10	.676	3.024
Day 120	20	25	39	32.90	.771	3.447
Day 150	20	28	40	35.00	.715	3.195
Day 180	20	28	42	35.85	.782	3.498
Day 210	20	29	43	37.90	.820	3.669
Day 240	20	29	45	38.40	.783	3.500
Day 270	20	30	45	39.15	.809	3.617
Day 300	19	30	45	39.53	.821	3.580

Descriptive Statistics for treatment nEN

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
Day 90	20	22	30	24.75	.584	2.613
Day 120	18	27	35	30.67	.626	2.657
Day 150	18	27	38	32.89	.604	2.564

Day 180	15	30	38	34.40	.533	2.063
Day 210	15	31	40	36.40	.616	2.384
Day 240	15	34	43	37.40	.623	2.414
Day 270	15	35	44	37.93	.658	2.549
Day 300	15	35	45	38.13	.716	2.774

Descriptive Statistics for treatment eNnN

	N Statistic	Minimum Statistic	Maximum Statistic	Mean Statistic	Std. Error	Std. Deviation Statistic
Day 90	18	20	29	24.00	.566	2.401
Day 120	16	27	35	30.63	.612	2.446
Day 150	15	28	37	33.40	.696	2.694
Day 180	15	30	39	34.53	.631	2.446
Day 210	15	35	41	37.27	.431	1.668
Day 240	15	33	44	37.40	.653	2.530
Day 270	15	34	44	37.80	.641	2.484
Day 300	15	34	44	38.00	.669	2.591

We also analyzed mass (g) relative to the treatment.

Descriptive Statistics for treatment EN

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
weight 1	20	.1	1.0	.620	.0511	.2285
weight 2	19	.5	1.7	1.032	.0693	.3019
weight 3	19	.6	1.5	1.084	.0608	.2651
weight 4	19	.6	1.7	1.121	.0605	.2637
weight 5	19	.7	1.9	1.305	.0664	.2896
weight 6	19	.8	2.0	1.395	.0727	.3171
weight 7	19	.6	2.1	1.442	.0810	.3533
weight 8	18	1.1	2.2	1.511	.0709	.3008

Descriptive Statistics for treatment EnN^a

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
weight 1	20	.2	1.0	.590	.0422	.1889
weight 2	20	.5	1.7	1.025	.0684	.3059
weight 3	20	.5	1.8	1.115	.0697	.3117
weight 4	20	.6	2.4	1.245	.0913	.4084
weight 5	20	.7	2.5	1.400	.0900	.4026
weight 6	20	.8	2.8	1.535	.1039	.4648

weight 7	20	.2	2.5	1.545	.1072	.4796
weight 8	19	.8	2.2	1.579	.0874	.3809

Descriptive Statistics for treatment nEN

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
weight 1	20	.3	.7	.455	.0320	.1432
weight 2	18	.5	1.2	.800	.0524	.2223
weight 3	18	.5	1.5	.911	.0588	.2494
weight 4	15	.8	1.6	1.053	.0584	.2264
weight 5	15	.9	1.8	1.253	.0608	.2356
weight 6	15	1.0	2.2	1.380	.0829	.3212
weight 7	15	1.0	2.5	1.440	.0980	.3795
weight 8	15	1.0	2.2	1.453	.0910	.3523

Descriptive Statistics for treatment nEnN

	N	Minimum	Maximum	Mean	Std. Error	Std. Deviation
weight 1	18	.2	.6	.400	.0333	.1414
weight 2	16	.5	1.3	.844	.0598	.2394
weight 3	15	.6	1.3	1.007	.0539	.2086
weight 4	15	.7	1.7	1.120	.0619	.2396
weight 5	15	1.0	2.0	1.347	.0624	.2416
weight 6	15	.9	2.2	1.407	.0808	.3127
weight 7	15	1.0	2.4	1.427	.0949	.3674
weight 8	15	1.0	2.3	1.447	.0827	.3204