Table J-1. Regressions of *Artemia* Life History Characteristics on Salinity

Life History Character (y)	Salinity Range (g/l) (x)	Equation	Intercept (b)	Slope (m)	p Value	r^2	Number of Figure
Percent nonhatching cysts	50-159	$y = e^{(mx + b)}$	1.21	0.021	<0.001	0.68	5
Mean number of days to hatch, 10°C	50-159	$y = e^{(mx + b)}$	0.865	0.0116	<0.001	0.77	6
Percent naupliar survival	118-168	y = mx + b	186	-08.61	0.036	0.70	7
Percent adult survival	76-168	y = mx + b	99	-0.411	0.051	0.40	8
Adult length (mm)	76-168	y = mx + b	12.9	-0.034	<0.001	0.89	No figure
Juvenile length (mm)	76-168	y = mx + b	8.9	-0.024	0.004	0.66	No figure
Instar 7 length (mm)	76-168	y = mx + b	6.3	-0.018	0.008	0.61	No figure
Instar 6 length (mm)	76-168	y = mx + b	5.3	-0.015	0.033	0.45	No figure
Adult weight (mg)	76-168	y = mx + b	1.743	-0.0073	<0.001	0.91	No figure
Juvenile weight (mg)	76-168	y = mx + b	0.757	-0.0033	0.004	0.66	No figure
Instar 7 weight (mg)	76-168	y = mx + b	0.328	-0.0015	0.007	0.62	No figure
Instar 6 weight (mg)	76-168	y = mx + b	0.224	-0.001	0.025	0.48	No figure
Mean number of days to first brood production, 20°C	76-168	$y = e^{(mx + b)}$	3.2	0.006	<0.001	0.84	10
Percent ovigery	76-159	y = mx + b	135	-0.429	<0.001	0.92	11
Interbrood duration 20°C (days)	76-168	$y = e^{(mx + b)}$	1.809	0.0036	0.008	0.61	12
Brood size, #1 (eggs/brood)	76-168	y = mx + b	65.8	-0.28	<0.001	0.85	No figure
Brood size, #2-4 (eggs/brood)	76-168	y = mx + b	107	-0.446	<0.001	0.61	No figure
Percent ovoviviparity	76-168	$y = e^{(mx + b)}$	-1.32	0.031	<0.001	0.82	14

Source: Adapted from Dana, Jellison, and Melack 1992.