Table 20. Analysis of variance on both (a) untransformed and (b) transformed (arcsine√P) mean percent survival across six stocking densities from field trial in Gouldsboro, Maine (Timber Cove) from 20 April 2023 to 14 January 2024. Orthogonal contrasts are indented below the Stocking Density (#/box) source of variation, and examine potential stepwise relationships between density treatments.

(a)

Source of Variation	DF	Sum of Squares	Mean Square	F Value	Pr > F
Stocking Density	5	234.593621	46.918724	0.89	0.4920
25 vs. rest	1	67.1081893	67.1081893	1.28	0.2632
50 vs. rest	1	13.4622840	13.4622840	0.26	0.6147
100 vs. rest	1	120.2223251	120.2223251	2.29	0.1361
150 vs. rest	1	25.2057613	25.2057613	0.48	0.4914
200 vs. 225	1	8.5950617	8.5950617	0.16	0.6874
Error	54	2835.202469	52.503749		
Total	59	3069.796091			

(b)

Source of Variation	DF	Sum of Squares	Mean Square	F Value	Pr > F
Stocking Density	5	325.269621	65.053924	1.31	0.2730
25 vs. rest	1	64.7902315	64.7902315	1.31	0.2581
50 vs. rest	1	36.4617821	36.4617821	0.74	0.3951
100 vs. rest	1	169.2266120	169.2266120	3.41	0.0702
150 vs. rest	1	26.4124872	26.4124872	0.53	0.4687
200 vs. 225	1	28.3785082	28.3785082	0.57	0.4527
Error	54	2678.772524	49.606899		
Total	59	3004.042145			

Table 21. (a) Regression model to assess the strength of a linear trend between survival per box and stocking density. (b) Lack-of-fit test to determine if a curvilinear trend exists between survival per box and stocking density.

(a)

Source of Variation	DF	Sum of Squares	Mean Square	F Value	Pr > F
Linear Model	1	11.86726	11.86726	0.23	0.6370
Error	58	3057.92883	52.72291		
Total	59	3069.79609			

(b)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Full Model	5	234.59362	46.91872	0.89	0.4920
Linear Model	1	11.86726	11.86726		
Deviation from Linearity	4	222.72636	55.68159	1.06	0.3868
Error	54	2835.20247	52.50375		
Total	59	3069.79609			

Table 22. Analysis of variance on mean number of green crabs per nursery growout box at Timber Cove, Gouldsboro, Maine from 20 April 2023 to 14 January 2024. Orthogonal contrasts are indented below the Stocking Density (#/box) source of variation, and examine potential stepwise relationships between density treatments.

Source of Variation	DF	Sum of Squares	Mean Square	F Value	Pr > F
Stocking Density	5	23.350000	4.670000	1.57	0.1833
25 vs. rest	1	3.630000	3.630000	1.22	0.2737
50 vs. rest	1	7.220000	7.200000	2.43	0.1247
100 vs. rest	1	1.633333	1.633333	0.55	0.4614
150 vs. rest	1	1.066667	1.067777	0.36	0.5514
200 vs. 225	1	9.800000	9.800000	3.30	0.0748
Error	54	160.300000	2.968519		
Total	59	183.650000			

Table 23. Analysis of variance on mean survival of cultured Arctic surfclams per nursery growout box at Mud Hole Cove, Beals, Maine from 21 April 2023 to 15 January 2024. Orthogonal contrasts are indented below the Stocking Density (#/box) source of variation, and examine potential stepwise relationships between density treatments.

Source of Variation	DF	Sum of Squares	Mean Square	F Value	Pr > F
Stocking Density	5	16369.54979	3273.90996	4.41	0.0019
25 vs. rest	1	13865.95621	13865.95621	18.66	<.0001
50 vs. rest	1	2013.30377	2013.30377	2.71	0.1056
100 vs. rest	1	490.27665	490.27665	0.66	0.4202
150 vs. rest	1	0.00329	0.00329	0.00	0.9983
200 vs. 225	1	0.00988	0.00988	0.00	0.9971
Error	54	40125.97778	743.07366		
Total	59	56495.52757			