Table S1. One-way ANOVA results for 1SW mean (SD) growth increments by outmigration year-group. Means in a row without a common superscript letter differ (p-value < 0.05) in post-hoc Tukey HSD tests.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Growth increments (mm) | 1978-1980  (n = 131) | 1986-1988  (n = 144) | 1998-2000  (n = 147) | 2012-2014  (n = 161) | F-value | p-value |
| First summer | 0.79 (0.25)a | 0.79 (0.23)a | 0.71 (0.27)a | 0.74 (0.24)a | 3.102 | 0.0263\* |
| First winter | 0.87 (0.26)ab | 0.79 (0.27)b | 0.90 (0.33)a | 0.80 (0.27)b | 5.587 | 0.0009\*\*\* |
| Post-smolt | 1.65 (0.28)a | 1.57 (0.26)ab | 1.62 (0.29)a | 1.53 (0.20)b | 6.142 | 0.0004\*\*\* |
| Marine | 2.21 (0.31)a | 2.13 (0.29)ab | 2.16 (0.26)a | 2.06 (0.23)b | 7.574 | 0.0001\*\*\* |

Table S2. One-way ANOVA results for 2SW mean (SD) growth increments by outmigration year-group. Means in a row without a common superscript letter differ (p-value < 0.05) in post-hoc Tukey HSD tests.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Growth increments (mm) | 1978-1980  (n = 129) | 1986-1988  (n = 150) | 1998-2000  (n = 146) | 2012-2014  (n = 190) | F-value | p-value |
| First summer | 0.75 (0.28)a | 0.76 (0.25)a | 0.72 (0.30)a | 0.74 (0.26)a | 0.550 | 0.6483 |
| First winter | 0.85 (0.22)b | 0.82 (0.25)b | 1.03 (0.37)a | 0.85 (0.26)b | 17.926 | 0.0000\*\*\* |
| Post-smolt | 1.59 (0.31)b | 1.58 (0.26)b | 1.75 (0.31)a | 1.59 (0.22)b | 13.411 | 0.0000\*\*\* |
| Second summer | 0.59 (0.24)b | 0.69 (0.25)a | 0.69 (0.28)a | 0.72 (0.21)a | 7.456 | 0.0001\*\*\* |
| Second winter | 0.93 (0.25)a | 0.94 (0.27)a | 0.81 (0.26)b | 0.73 (0.23)c | 25.153 | 0.0000\*\*\* |
| Second year | 1.52 (0.24)b | 1.62 (0.31)a | 1.50 (0.25)bc | 1.44 (0.21)c | 13.060 | 0.0000\*\*\* |
| Marine | 3.11 (0.39)bc | 3.19 (0.36)ab | 3.25 (0.30)a | 3.04 (0.29)c | 13.097 | 0.0000\*\*\* |

Table S3. Pearson product-moment correlations (r) of successive seasonal growth increments. Correlations in bold indicate significance at the p-value < 0.05 level.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1SW | | 2SW | | | | | | | |
| First summer ~ First winter | | First summer ~ First winter | | First winter ~ Second summer | | Second summer ~ Second winter | | Post-smolt ~ Second year | |
| r | p-value | r | p-value | r | p-value | r | p-value | r | p-value |
| 1978-1980 | **-0.38** | **<0.001** | **-0.25** | **<0.01** | -0.06 | >0.05 | **-0.53** | **<0.001** | -0.01 | >0.05 |
| 1986-1988 | **-0.48** | **<0.001** | **-0.48** | **<0.001** | -0.10 | >0.05 | **-0.53** | **<0.001** | **-0.21** | **<0.05** |
| 1998-2000 | **-0.56** | **<0.001** | **-0.58** | **<0.001** | **-0.35** | **<0.001** | **-0.58** | **<0.001** | **-0.45** | **<0.001** |
| 2012-2014 | **-0.70** | **<0.001** | **-0.64** | **<0.001** | 0.10 | >0.05 | **-0.63** | **<0.001** | -0.10 | >0.05 |
| Combined | **-0.54** | **<0.001** | **-0.52** | **<0.001** | **-0.12** | **<0.01** | **-0.52** | **<0.001** | **-0.20** | **<0.001** |