

SL Table X1: **Area and perimeter of the St. Lawrence, Barbados seagrass bed(s) in 1969 and 1994.**

| Variable                                 | 1969  | 1994  | Ratio 94/69 |
|------------------------------------------|-------|-------|-------------|
| Total Area of seagrass (relative units)  | 4519  | 2569  | 0.568       |
| Perimeter (relative units)               | 936   | 1198  | 1.280       |
| Ratio Perimeter to Area (relative units) | 0.207 | 0.466 | 2.251       |

SL Table X2: **Seagrass and coral frequencies, and seagrass statistics for the St. Lawrence, Barbados seagrass bed(s) in 1969 and 1994.** p values are for paired t-tests.

| Variable                                                                        | 1969  | 1994  | p      |
|---------------------------------------------------------------------------------|-------|-------|--------|
| Proportion of stations with seagrass                                            | 26/26 | 22/26 | -      |
| Seagrass avg. frequency in quadrats for all 26 stations (%)                     | 100   | 59.9  | 0.0001 |
|                                                                                 |       |       |        |
| <b>Statistics for the 22 stations in which seagrass occurred in both years:</b> |       |       |        |
| <i>T. testudinum</i> frequency (%)                                              | 91.3  | 78.9  | 0.1147 |
| <i>S. filiforme</i> , frequency (%)                                             | 58.7  | 97.7  | 0.0006 |
| <i>Porites furcata</i> , frequency (%)                                          | 18.6  | 0     | 0.0059 |
| <i>Siderastrea radians</i> frequency (%)                                        | 11.0  | 0     | 0.0032 |
| <i>T. testudinum</i> g fresh wt/m <sup>2</sup>                                  | 664   | 332   | 0.0034 |
| <i>S. filiforme</i> g fresh wt/m <sup>2</sup>                                   | 491   | 888   | 0.0653 |
| Seagrass, total g fresh wt/m <sup>2</sup>                                       | 1156  | 1221  | 0.7414 |
| <i>T. testudinum</i> Lm (Max.Length) (cm)                                       | 21.3  | 18.9  | 0.0096 |
| <i>T. testudinum</i> leaf width (mm)                                            | 10.4  | 9.9   | 0.1277 |
| <i>T. testudinum</i> shoots/m <sup>2</sup>                                      | 369   | 224   | 0.0195 |
| <i>T. testudinum</i> No. leaves per shoot                                       |       | 3.16  | -      |