**Salt Marsh Quadrats, Middle vs Low Survey Sheet**

**Area of Transect:** East Head  **Name Date**

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| **Plant Species** | Middle Marsh | Low Marsh |
| **English Name** | **Scientific name** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seaweed spp. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cord grass | *Spartina townsendii* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glasswort | *Salicornia spp.* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Annual Sea Blite | *Suaeda maritima* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sea Aster | *Aster tripolium* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Saltmarsh Grass | *Puccinellia maritima* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sea Purslane  | *Halimone portulacoides* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sea Lavender | *Limonium vulgare* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Common Reed | *Phragmites australis* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sea Couch Grass | *Elymus pycnanthus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Number of Species** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**This data can now be simplified.** You may need to share results with other groups in order to get many repeats. This will allow you to calculate a reliable mean number of species per quadrat.

The data you have collected can be used to calculate the standard deviation:



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| **Middle** |
| **No. of species (x)** | **x- x̅** | **(x- x̅)2** |
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| Mean (x̅) =  |  | $Σ$ =  |

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| **Lower** |
| **No. of species (x)** | **x- x̅** | **(x- x̅)2** |
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| Mean (x̅) =  |  | $Σ$ =  |

You will now have enough information to represent your data as a graph with error bars. When completing your report you should consider the following questions:

* What conclusions can you draw from your results?
* What possible biological explanation is there for your findings?
* How confident are you in the reliability of your conclusions?