BIOS103.1.05 QS Assignment Template

**Student ID:** 999999999

**Data Filename**: [compost\_999999999.csv](https://canvaswizards.org.uk/dataspell/999999999)

**Table 1**: Replace the table below with the one calculated using your dataset. Include a short, descriptive caption. Make sure you define your terms *T*, *M*, and *VBC*.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Location** | **Mean *T* (oC)** | **Std. Dev. *T* (oC)** | **Mean *M* (%)** | **Std. Dev. *M* (%)** | **Mean *VBC***  **x107 cfu.g-1** | **Std. Dev. *VBC***  **x107 cfu.g-1** |
| Amsterdam | 58.0 | 2.0 | 74.7 | 1.9 | 3.0 | 0.1 |
| Groningen | 54.8 | 2.0 | 70.1 | 2.0 | 3.0 | 0.1 |
| Maastricht | 57.3 | 2.0 | 72.4 | 1.8 | 3.0 | 0.1 |
| Rotterdam | 56.6 | 2.1 | 62.3 | 2.1 | 2.9 | 0.1 |
| Utrecht | 69.8 | 2.1 | 75.7 | 2.0 | 2.7 | 0.1 |

A graph of a graph

Description automatically generated

**Figure 1: Replace the figure above with the histogram generate from your dataset. Include a short figure caption. Quote the mean cfu.g-1 value.**

A graph with blue squares and black text

Description automatically generated with medium confidence

**Figure 2: Replace the figure above with a boxplot generated from your dataset. Include a short, descriptive figure caption.**

A graph with different colored dots

Description automatically generated

**Figure 3**: Replace the figure above with a scatterplot generated from your dataset. Include a short, descriptive figure caption.

**Figure 4:** Include an additional plot that visualises some other feature of the dataset.

**Marking Rubric**

|  |  |  |
| --- | --- | --- |
| **Criteria** | **Yes** | **No** |
| Summary table included with mean values for temperature, moisture and viable counts. Values must correspond to those associated with student ID. | 1 | 0 |
| Table has short, descriptive caption located ABOVE. | 1 | 0 |
| Histogram, boxplot and scatterplot included? | 1 | 0 |
| Mean value quoted for histogram? Must correspond to student ID | 1 | 0 |
| All figures have short, descriptive captions located BELOW. If figure has a title above as well as a caption then award zero points. | 1 | 0 |
| Figures are clear and easy to interpret? Figures are not screenshots or photos? | 1 | 0 |
| Scatterplot has a location key? | 1 | 0 |
| Figures have been generated using R? | 1 | 0 |
| An additional visualisation (histogram, boxplot, scatterplot) has been included to show another feature of the data. | 2 | 0 |

**TOTAL: 10 points.**