

Name: Chris Augustine

Score = 22.5 /25

Submitted on time? ☒ Y ☐ N

**GENERAL REQUIREMENTS (10 POINTS):**

Element	Points	Score	Feedback
Effective git/GitHub	1	1	
Well-organized	1	1	
Strong commentary outside of code chunks	3	3	
Effective use of comments within code chunks	2	2	
Code provides correct values and reduces “human intervention”	2	2	
Link on Canvas	1	1	

**STATISTICAL ANALYSES (15 POINTS):**

☒ Took initiative to learn new methods as appropriate

☒ Generally followed the our workflow:

Plot -> Guess -> Create model -> Check assumptions -> Interpret -> Final plot

**Statistical analysis 1:**

Question: Does CO2 treatment influence transpiration rate? (aka is mean transpiration rate different under the 2 different CO2 treatments)?

Workflow checklist

☒ 1. Plot data

☐ 2. Guess relationships

☒ 3. Create model: Mann Whitney U test

☒ Correct model?

☒ 4. Check model assumptions, if needed

☒ 6. Replot

☒ 5. Interpret model

☒ 7. Clear results statement

☒ Interpretation is correct

☒ In prose

☒ Outside of code chunk

**Statistical analysis 2:**

Question: How is transpiration rate influenced by CO2 and Nitrogen treatment?

Workflow checklist

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> 1. Plot data   | <input type="checkbox"/> 2. Guess relationships                |
| <input checked="" type="checkbox"/> 3. Create model: <u>2 way anova w/interaction term</u> |  |
| <input checked="" type="checkbox"/> Correct model?   |  |
| <input checked="" type="checkbox"/> 4. Check model assumptions, if needed                  | <input checked="" type="checkbox"/> 6. Replot                  |
| <input checked="" type="checkbox"/> 5. Interpret model                                     | <input checked="" type="checkbox"/> 7. Clear results statement |
| <input checked="" type="checkbox"/> Interpretation is correct                              | <input checked="" type="checkbox"/> In prose                   |
|  | <input checked="" type="checkbox"/> Outside of code chunk      |

**Statistical analysis 3:**

Question: \_\_\_\_\_

Workflow checklist

- |  |   |
|--|---|
| <input type="checkbox"/> 1. Plot data                          | <input type="checkbox"/> 2. Guess relationships     |
| <input type="checkbox"/> 3. Create model: _____                |   |
| <input type="checkbox"/> Correct model?                        |   |
| <input type="checkbox"/> 4. Check model assumptions, if needed | <input type="checkbox"/> 6. Replot                  |
| <input type="checkbox"/> 5. Interpret model                    | <input type="checkbox"/> 7. Clear results statement |
| <input type="checkbox"/> Interpretation is correct             | <input type="checkbox"/> In prose                   |
|  | <input type="checkbox"/> Outside of code chunk      |

**Additional feedback**

Overall a good job. I'd like to see more of your biological expectations laid out in the .qmd file before each analysis, and you need a better figure for the outcome of your 2-way ANOVA.

Please also carefully read feedback in file called prelim-analysis-feedback.qmd