

Name: August Kotula

Score = 22 /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: How does moon illumination affect the number of amphibians observed?

Workflow checklist

☒ 1. Plot data

☐ 2. Guess relationships

☒ 3. Create model: linear regression

☒ 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: Does mean num amphibs differ with moon phase?

Workflow checklist

- | | |
|--|--|
| <input checked="" type="checkbox"/> 1. Plot data | <input checked="" type="checkbox"/> 2. Guess relationships |
| <input checked="" type="checkbox"/> 3. Create model: <u>1-way anova (will ultimately need glm)</u> | |
| <input 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: Does mean species richness differ between land use classes?

Workflow checklist

- | | |
|---|--|
| <input checked="" type="checkbox"/> 1. Plot data | <input checked="" type="checkbox"/> 2. Guess relationships |
| <input checked="" type="checkbox"/> 3. Create model: <u>1-way anova, tukey test</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 |

Additional feedback

August - this is looking good! My main suggestion is that you start reading Chapter 7 in your book as you will need to apply some of that content to your analytical approach.

See `prelim-analysis-feedback.qmd` for specific comments.