

Name: Addie Moore

Score = 20.5 /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	1.5	
Effective use of comments within code chunks	2	1.5	
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: Is there a relationship b/w telomere lenght and rainfall during nestling season?

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: Is there a relationship b/w telomere length and minimum temperature?

Workflow checklist

- | | |
|---|--|
| <input checked="" type="checkbox"/> 1. Plot data | <input checked="" type="checkbox"/> 2. Guess relationships |
| <input checked="" type="checkbox"/> 3. Create model: <u>linear regression</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: I think you should dump one of the above two regressions and do a multiple regression for your second analysis.

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

Basically this is good, but very simplistic. You were supposed to be coming up with two different analyses. I would like you to attempt a multiple regression, using the best subsets method that I have described in the Cap-DAP-Examples git hub repo for one of your two analyses.

You did a good job following our workflow.

This assignment was also very late so I have to take off points for that.