Capstone Data Analysis Project – Preliminary Data Analysis
Biostatistics

Name: Emma ONeil Score = 19.5 /25

Submitted on time? (●) Y ( ) N

GENERAL REQUIREMENTS (10 POINTS):

Element	Points	Score	Feedback
Effective git/GitHub	1	1	
Well-organized	1	0	You have .qmd files in root folder as well as code folder. Clean up
Strong commentary outside of code chunks	3	3	
Effective use of comments within code chunks	2	1.5	
Code provides correct values and reduces "human intervention"	2	2	
Link on Canvas	1	0	You neglected to post to canvas

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: What is the effect of site closure on bear abundance?

Workflow checklist

☑ 1. Plot data

☐ 2. Guess relationships

☑ 3. Create model: 1-way ANOVA

☐ Correct model?

☑ 4. Check model assumptions, if needed

☑ 5. Interpret model

☑ Interpretation is correct

☑ 6. Replot

☑ 7. Clear results statement

☑ In prose

☑ Outside of code chunk

Statistical analysis 2:

Question: What variables are the best predictors of bear detections?

Workflow checklist

- [x] 1. Plot data
- [ ] 2. Guess relationships
- [x] 3. Create model: multiple regression
  - [x] Correct model?
- [x] 4. Check model assumptions, if needed
- [ ] 6. Replot
- [x] 5. Interpret model
  - [ ] Interpretation is correct
- [x] 7. Clear results statement
  - [x] In prose
  - [x] Outside of code chunk

Statistical analysis 3:

Question: _____

Workflow checklist

- [ ] 1. Plot data
- [ ] 2. Guess relationships
- [ ] 3. Create model: _____
  - [ ] Correct model?
- [ ] 4. Check model assumptions, if needed
- [ ] 6. Replot
- [ ] 5. Interpret model
  - [ ] Interpretation is correct
- [ ] 7. Clear results statement
  - [ ] In prose
  - [ ] Outside of code chunk

Additional feedback

You are on the right track here, but we need you to be more explicit about null and alternative hypotheses for Question 1 and we have quite a bit still to do with Question 2 (but we'll get there and are going to work on some of it during class).

Please also see prelim-analysis-feedback.qmd for more feedback.