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ECO-602 Environmental Data Analysis

Partners: N/A

**WEEK 6 READING QUESTION**

Q1: A brief baseline scenario regarding seed predation would be looking at the amount of times a critter would come and take a seed depending on the seed species. You can set-up situations of having an even amount of seeds laid out and seeing how many are taken in total. You can do a single species of seed and see how many are taken of each species.

Q2: rm(list = ls())

pol\_n\_predation = 26

pol\_n\_no\_predation = 184

pol\_n\_total = 210

pol\_predation\_rate = 0.124

psd\_n\_predation = 25

psd\_n\_no\_predation = 706

psd\_n\_total = 731

psd\_predation\_rate = 0.034

print(

paste0(

"The seed predation rate for Polyscias fulva is: ",

round(pol\_predation\_rate, digits = 3)))

print(

paste0(

"The seed predation rate for Pseudospondias microcarpa is: ",

round(psd\_predation\_rate, digits = 3)))

Q3:

|  |  |  |
| --- | --- | --- |
| **Species** | **Polyscias fulva (pol)** | **Pseudospondias microcarpa (psd)** |
| **Any taken** | 26 | 25 |
| **None taken** | 184 | 706 |
| **N** | 210 | 731 |
| **Predation Rate** | 0.124 | 0.034 |

Q4: 210 / 26 = 8.077

210 / 184 = 1.141

731 / 25 = 29.24

731 / 706 = 1.035