Week 6 Reading Questions

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Q1: In a short paragraph, describe a baseline scenario regarding seed predation. In the end, state the null hypothesis for seed predation.

Baseline scenario: Looking at the species *Polyscias fulva* and *Pseudospondias microcarpa*, the scenario is looking into if any seeds were or were not taken. I want to know which seeds are taken or not taken. I predict that the *Polyscias fulva* seeds will eat be taken then the other.

Null hypothesis: *Pseudospondias microcarpa* were less eaten than the *Polyscias fulva,* therefore, the null hypothesis will be rejected.

Q2: Paste the R code you used to complete the table and calculate the rates.

rm(list = ls())

pol\_n\_predation = 26

pol\_n\_no\_predation = 184

pol\_n\_total = 210

pol\_predation\_rate = (pol\_n\_predation / pol\_n\_total)

psd\_n\_predation = 25

psd\_n\_no\_predation = 706

psd\_n\_total =731

psd\_predation\_rate = (psd\_n\_predation / psd\_n\_total)

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: Show your table with the missing values filled in.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species | Any Taken | Non Taken | N | Predation Rate |
| Polyscias fulva (pol) | 26 | 184 | 210 | .124 |
| Pseudospondias microscarpa (psd) | 25 | 706 | 731 | .034 |

Q4: Report the seed ratio of seed predation proportions and show the R code you used to do the calculation.

predation\_rate <- pol\_predation\_rate / psd\_predation\_rate

print(predation\_rate)

the seed ratio is 3.62019