Week 6 Reading Questions

* Bolker ch 1: Introduction and Background
  + Read section 1.4: Frameworks for Statistical Inference.
  + Focus your attention on 1.4.1
* McGarigal Ch 6a, 6b, 6c

1. Do seed predation rates vary among species? Seed predation rates do vary among species. While looking at the chart you can see that the number of seeds taken is slightly different. You can also see that that the N is different for both species as well. This can possible effect the predation rates.
2. Calculate the seed predation rates?

For Polyscias fulva, the seed predation rate is 0.124 and for Pseudospondias microcarpa the

seed production rate is 0.034.

1. Paste the code you used.

I used excel to create the table. It is named Book1.

pol = Book1$"Polyscias fulva (pol)"

pol

psd = Book1$"Pseudospondias microcarpa (psd)"

psd

first = Book1$"Species"

Book1$Species

seeds = data.frame(Book1)

seeds[1,2]/seeds[3,2]#0.124

seeds[1,3]/seeds[3,3]#0.034

1. Create a table and fill in the missing values:

|  |  |  |
| --- | --- | --- |
| species | Polyscias fulva (pol) | Pseudospondias microcarpa (psd) |
| Any taken | 26 | 25 |
| None taken | 184 | 706 |
| N | 210 | 731 |
| Predation rate | 26/210 = 0.124 | 25/731 = 0.034 |

1. Calculate the ratio of seed predation proportions.

I used proportion for pol/proportion for psd to calculate the ratio of seed predation proportion. It would be 0.034/0.124 = 0.274.