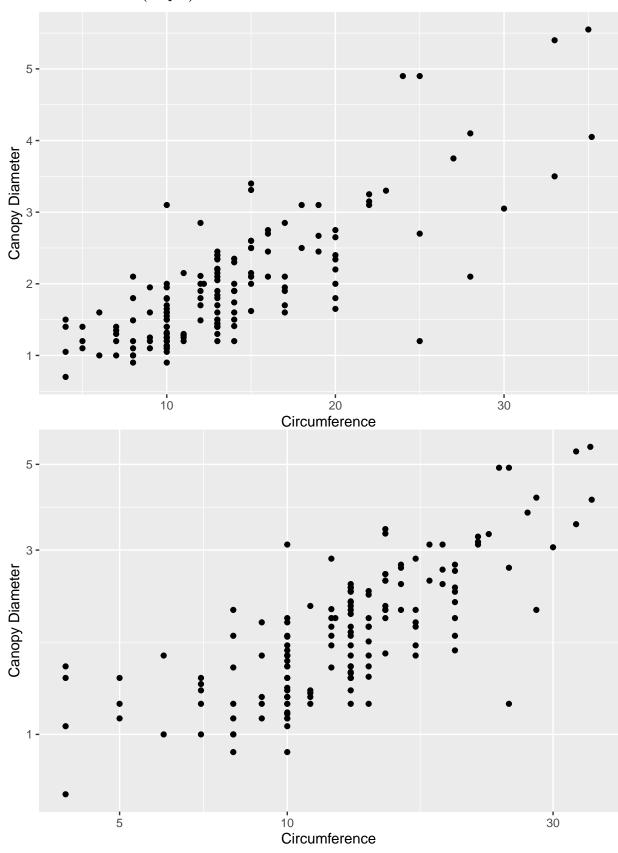
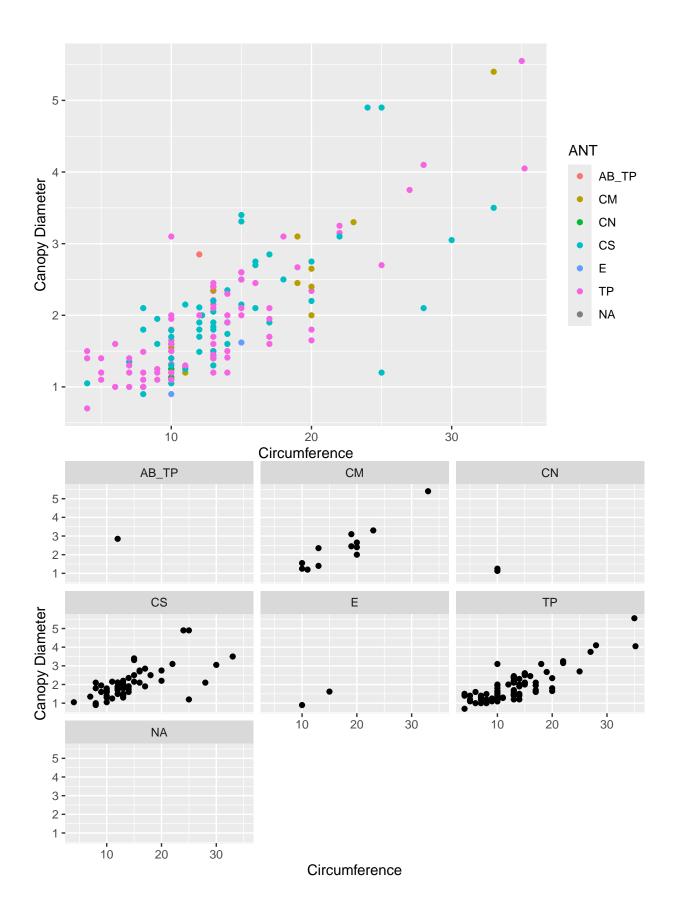
Week 5 Assignment

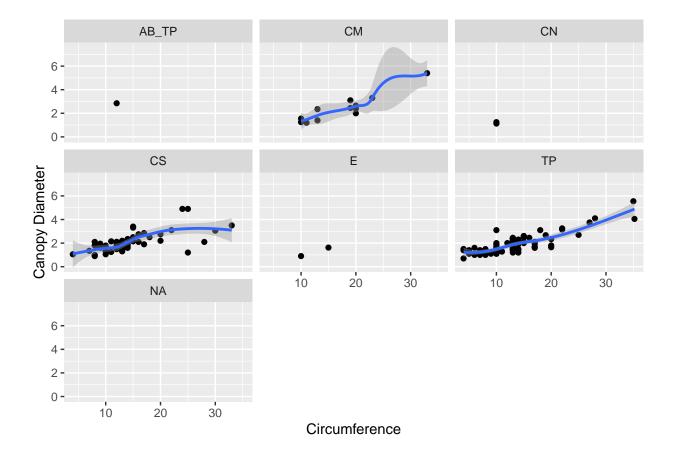
Ellen Bledsoe

2025-09-24

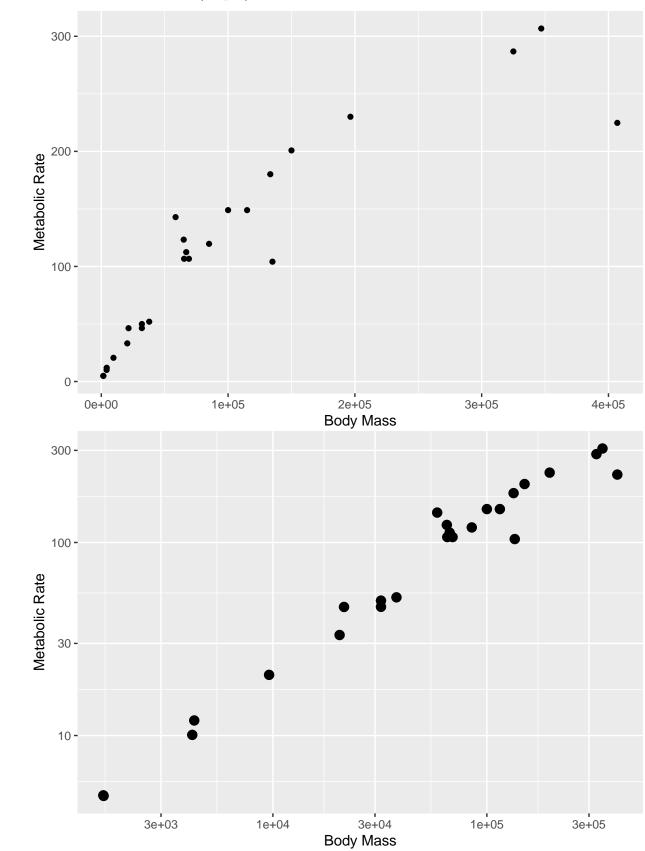
1. Acacia and Ants (20 pts)

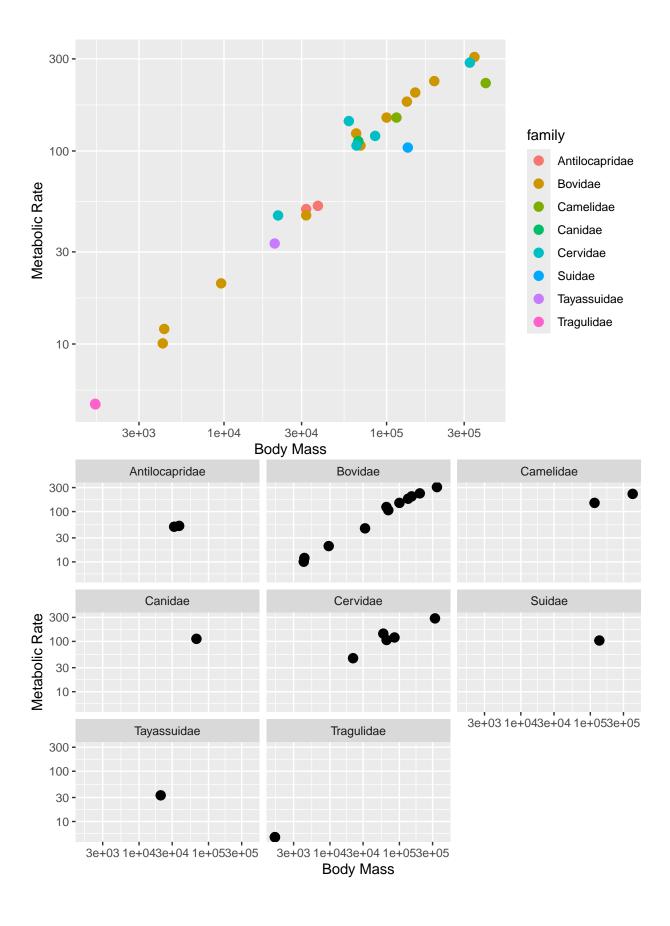




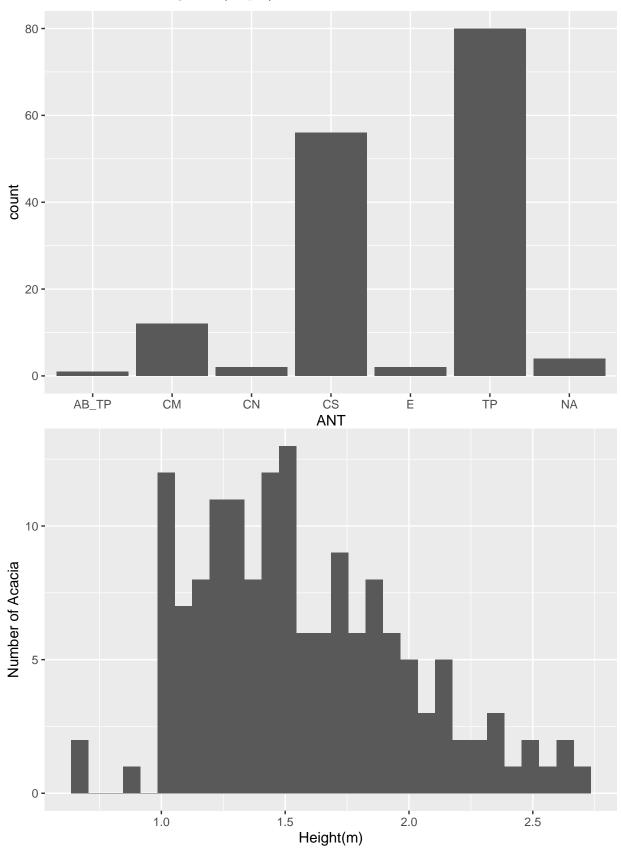


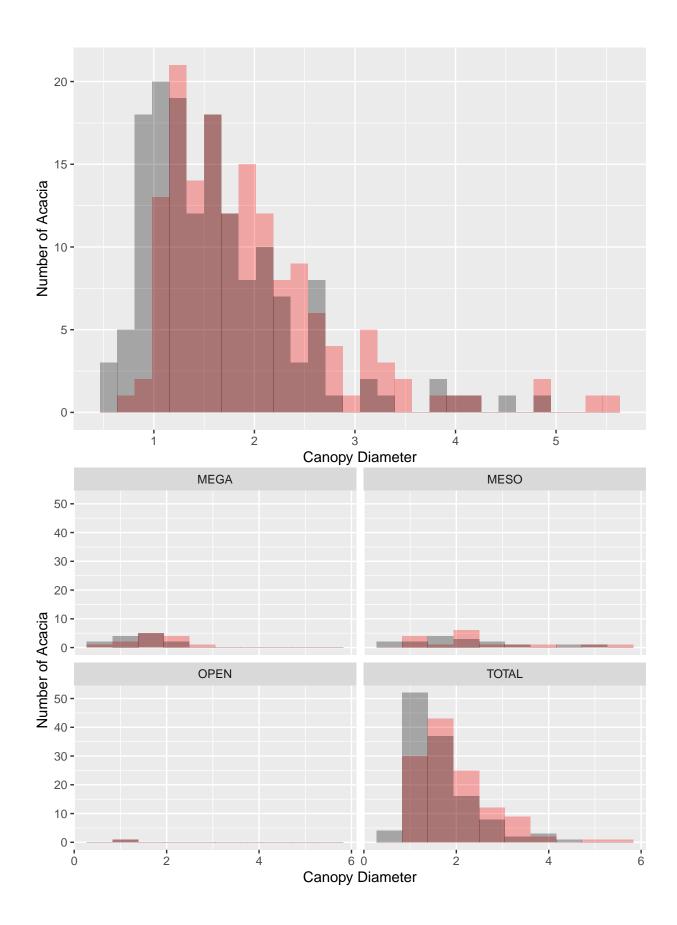
2. Mass vs. Metabolism (20 pts)





3. Acacia and Ants Histograms (20 pts)

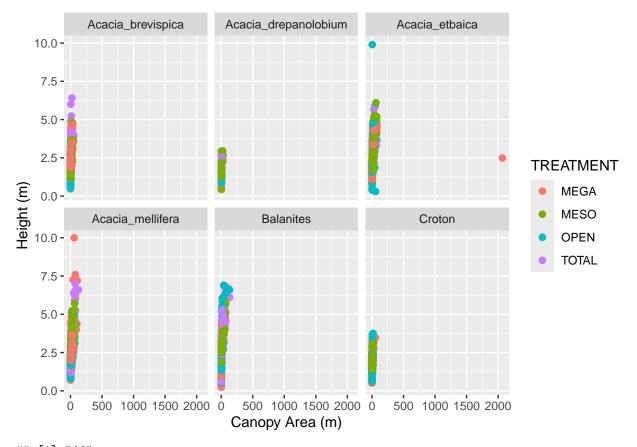




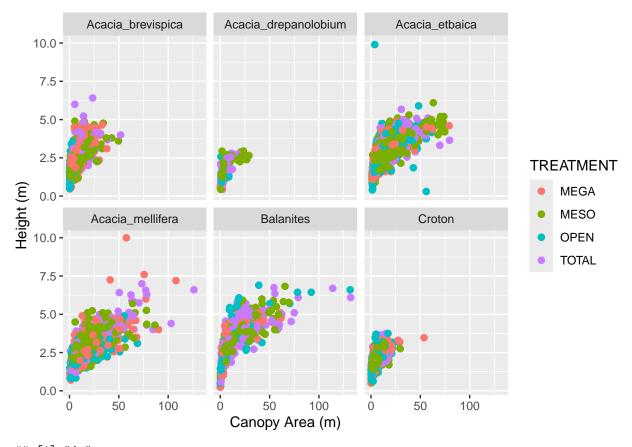
4. Acacia and Ants Data Manipulation (20 pts)

[1] "4c"

```
## [1] "4a"
## # A tibble: 7,501 x 17
     SURVEY YEAR SITE TREATMENT BLOCK PLOT
                                                SPECIES ORIGINAL_TAG NEW_TAG DEAD
       <dbl> <dbl> <chr> <chr> <dbl> <chr>
                                                               <dbl>
                                                                       <dbl> <chr>
##
                                                <chr>
          1 2009 SOUTH TOTAL
##
   1
                                      2 S2TOTAL Acacia~
                                                                   1
                                                                          NA N
          2 2010 SOUTH TOTAL
##
                                      2 S2TOTAL Acacia~
                                                                   1
                                                                          NA N
##
   3
          3 2011 SOUTH TOTAL
                                      2 S2TOTAL Acacia~
                                                                   1
                                                                          NA N
##
          4 2012 SOUTH TOTAL
                                      2 S2TOTAL Acacia~
                                                                   1
                                                                          NA N
##
          5 2013 SOUTH TOTAL
                                      2 S2TOTAL Acacia~
  5
                                                                   1
                                                                          NA N
                                                                   2
          1 2009 SOUTH TOTAL
##
   6
                                      2 S2TOTAL Acacia~
                                                                          NA N
##
  7
          2 2010 SOUTH TOTAL
                                      2 S2TOTAL Acacia~
                                                                   2
                                                                          NA N
          3 2011 SOUTH TOTAL
                                                                   2
## 8
                                      2 S2TOTAL Acacia~
                                                                          NA N
          4 2012 SOUTH TOTAL
                                      2 S2TOTAL Acacia~
                                                                   2
## 9
                                                                          NA Y
## 10
          5 2013 SOUTH TOTAL
                                      2 S2TOTAL Acacia~
                                                                          NA N
## # i 7,491 more rows
## # i 7 more variables: HEIGHT <dbl>, AXIS_1 <dbl>, AXIS_2 <dbl>, CIRC <dbl>,
      MEASUREMENT <chr>, STEMS <chr>, canopy_area <dbl>
## [1] "4b"
## # A tibble: 7,501 x 5
     SURVEY YEAR SITE SPECIES
##
                                        canopy_area
       <dbl> <dbl> <chr> <chr>
##
                                             <dbl>
##
   1
          1
             2009 SOUTH Acacia_etbaica
                                             30.5
##
          2 2010 SOUTH Acacia_etbaica
                                             69.7
          3 2011 SOUTH Acacia_etbaica
##
                                             79.6
##
   4
          4 2012 SOUTH Acacia_etbaica
                                             39.0
##
  5
          5 2013 SOUTH Acacia etbaica
                                             40.8
##
  6
          1 2009 SOUTH Acacia_etbaica
                                              6.16
## 7
          2 2010 SOUTH Acacia etbaica
                                              7.29
## 8
          3 2011 SOUTH Acacia_etbaica
                                             12.5
## 9
          4 2012 SOUTH Acacia etbaica
                                             NA
## 10
          5 2013 SOUTH Acacia_etbaica
                                              9.62
## # i 7,491 more rows
```

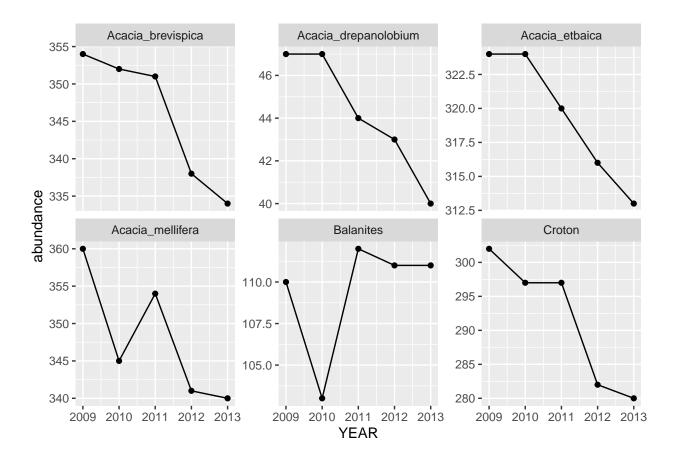


[1] "4d"

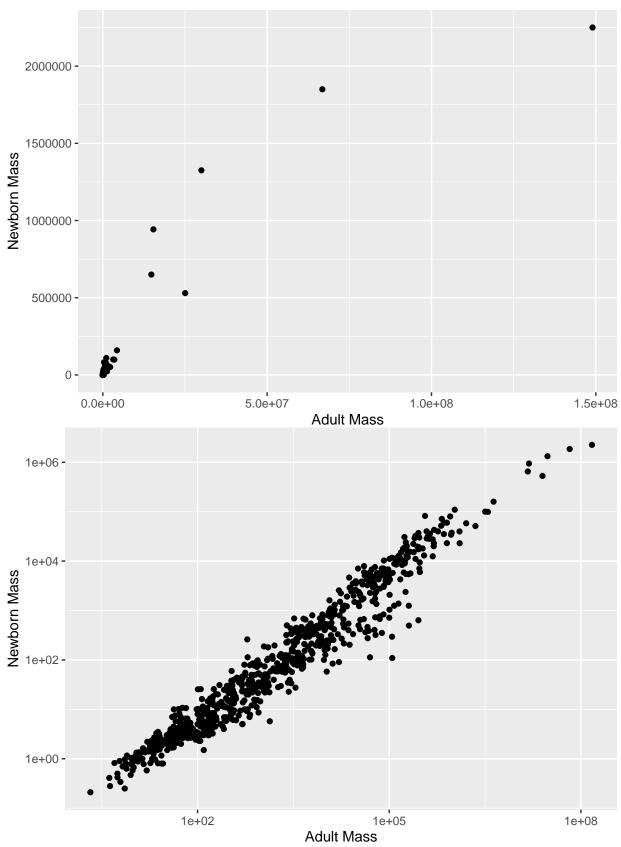


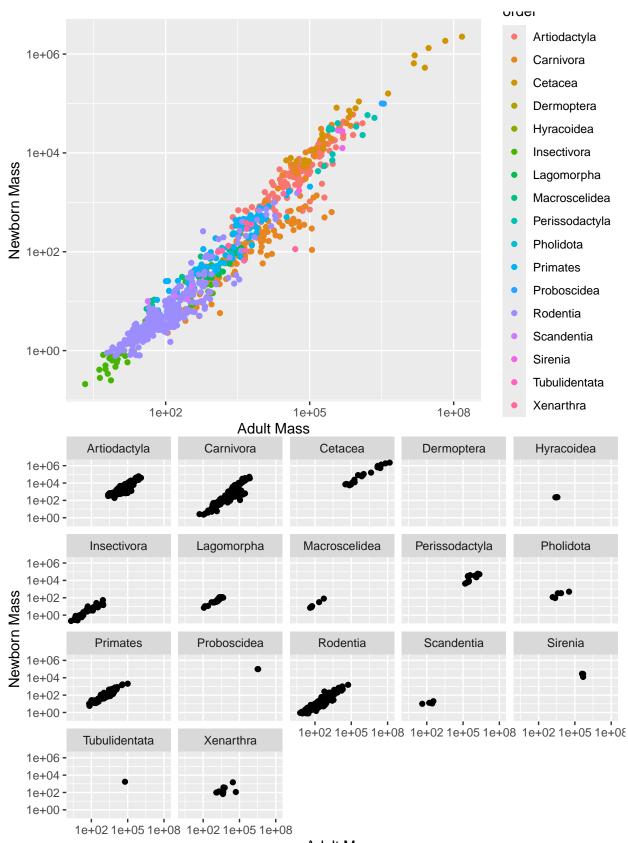
```
## [1] "4e"
```

A tibble: 30 x 3 # Groups: YEAR [5] ## YEAR SPECIES abundance ## <dbl> <chr> <int> 1 2009 Acacia_brevispica 354 ## 2 2009 Acacia_drepanolobium 47 ## 2009 Acacia_etbaica 324 ## ## 4 2009 Acacia_mellifera 360 5 2009 Balanites ## 110 6 2009 Croton 302 ## 2010 Acacia_brevispica 352 ## 8 2010 Acacia_drepanolobium 47 ## 9 2010 Acacia etbaica 324 ## 10 2010 Acacia_mellifera 345 ## # i 20 more rows ## [1] "4f"

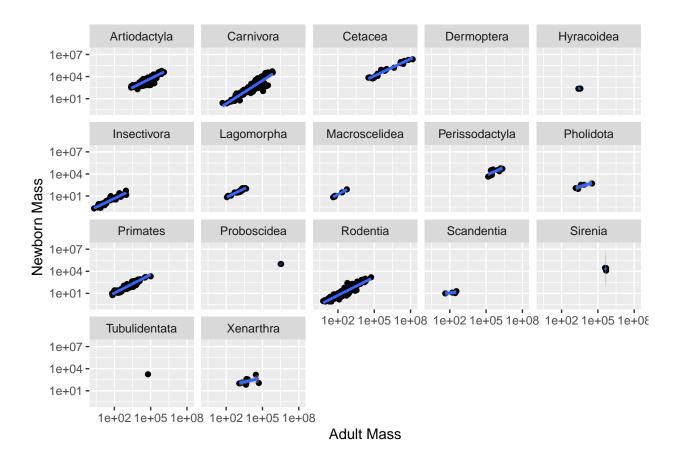


5. Adult vs. Newborn Size (20 pts)





Adult Mass



7. Graphing Data from Multiple Tables (Optional)

