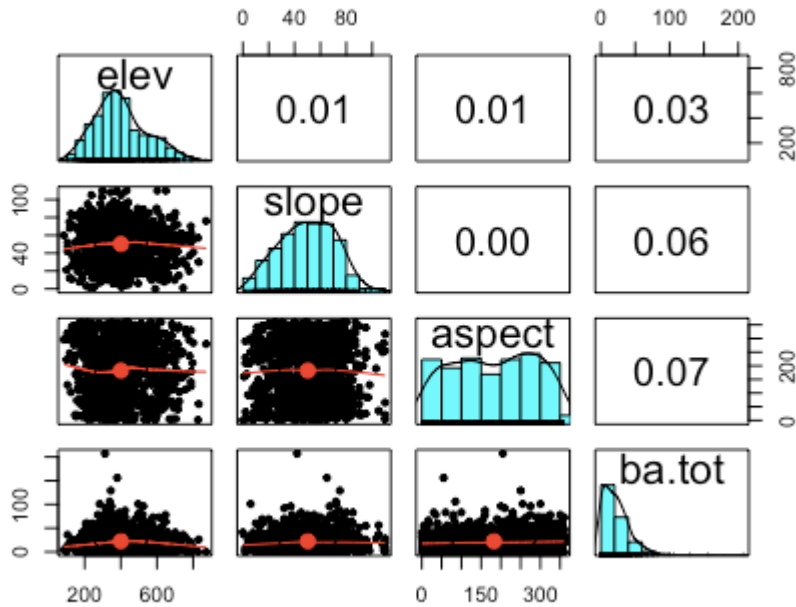
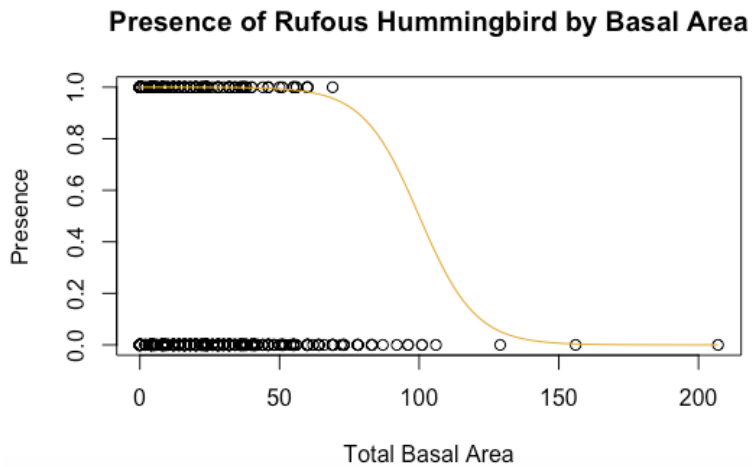


Jahiya Clark  
Lab 3  
Prof Nelson  
9/26/21

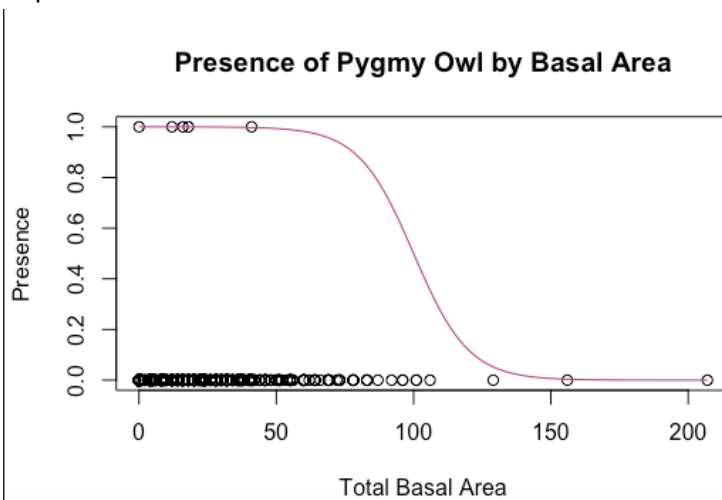
1. Basal area is the average amount of area occupied by tree stems. It is measured in meters squared by hectare; which is the forester's constant (0.005454 ) multiplied by the DBH squared (diameter of breast height).



2.
  - a. Figure 1. Pair panel of elevation, slope and total basal area.



- 3.
4. Figure 2. Presence of Rufous Hummingbird by total basal area. This graph depicts points at the 1.0 mark to represent a sighting and 0.0 to represent no sighting. Overall, Rufous Hummingbird prefers low tree cover areas below 50m squared per hec. A negative logistic curve with the slope of  $-0.4$  demonstrates this.



- 5.
6. Figure 3. Presence and absence of Pygmy Owl by total basal area. This graph depicts the numeric equivalent of presence (1.0) and absence (0.0) of Pygmy Owl. The logistic curve has a negative slope of  $-0.4$ , which shows that Pygmy Owls prefer low tree cover areas below 50 m squared per hec.
7. There were 181 Grey Jays observed
8. `sum(dat_all$GRJA)`
9. There were 110 sites where Grey Jays were observed
10. `sum(as.numeric(dat_all$GRJA > 0))`