Entire data set:

#the significant variables of **lemur\_dens\_8** (the second best fitting linear model for the entire data set) are logNitrogen, lat, roughness, slope, SiteMaharira, SiteValohoaka, SiteVohiparara, logFruitLength, and logFruitWidth 🡪 this linear model was reduced from one with Transect\_Site and Species as the random effects

#the significant variables of **step\_test\_model** (the best linear model for the entire data set) are logNitrogen, logFruitLength, and logFruitWidth 🡪 this linear model was reduced from one with Transect\_Site, Species, and Site as random effects

\*I’m not sure which of these models (**lemur\_dens\_8 and step\_test\_model**) to go with, but they both show the importance of logFruitLength, logFruitWidth, and logNitrogen. They have similar AIC scores, although step\_test\_model has a better AIC score. Step\_test\_model also contains no variables that aren’t significant, while lemur\_dens\_8 does.

Species Specific Linear Models:

**AL:**

#logSeedLength, lat, logSeedWidth, logSLA, SiteMaharira, SiteMiaranony, SiteValohoaka, SiteVohiparara, logFruitLength, and logFruitWidth are significant variables

🡪 the seed variables are important drivers for this species, in addition to the fruit variables present in the entire data set linear models

**ER:**

#logSeedLength, lat, logseedwidth, logSLA, site, logfruitlength, logfruitwidth are significant variables

🡪 the seed variables are important drivers for this species, in addition to the fruit variables present in the entire data set linear models

**PE:**

#lat, logseedwidth, logtannins, long, siteMaharira, SiteMiaranony, SiteValohoaka, SiteVohiparara, logFruitLength, and logFruitWidth are the significant variables

**LM:**

#significant variables are logNitrogen, logTannins (marginally significant), logSLA, slope, SiteMaharira, SiteValohoaka, logFruitLength, logFruitWidth

\*I wonder if I should have put Site as a random effect for the individual species models

\*logFruit length and logfruitwidth are significant for each species and the entire data set!