BloomingAbundance~BeeAbundance (Years123)

In an effort to explore the effect blooming forb and weed coverage has on bee abundance, we used a mixed effects model to model the relationship between these two variables. A Poisson distribution was used and the data were also log+1 transformed. In addition to the above stated variables, Site, Year, and Sampling Period effects were also taken into consideration. Ultimately, no significance was detected.

BloomingAbundance~NonTargetAbundance (Years123)

A mixed effects model with a Poisson distribution was used to determine any influence blooming forb and weed coverage has on the number of bees collected via non-targeted sweeping. Site and Year effects were accounted for. Floral coverage was found to have a significant effect on the number of bees collected with this sweeping method (p < 0.0001). Year and the interaction between Year and floral coverage were found to be significant as well (p < 0.0001 and p < 0.0096, respectively).

BloomingAbundance~BeeRichness (Years123)

Coverage of blooming forbs and weeds within the strip was found to have a significant effect on bee species richness (p < 0.0034), but not on genus or family level richness (p < 0.1937 and p < 0.5566, respectively). This outcome was determined by utilizing a mixed effects model with a Poisson distribution, while taking Site and Year effects into consideration.