

Question for March 30, 2004 Quiz 18 PDF

18) An researcher studying the ecology of bees is interested in the spread of the Africanized Honeybee (*Apis mellifera scutellata*) and its effect on traditional Mayan beekeeping in Mexico? Historically an important bee in Mayan areas was the stingless bee group Meliponinae, and particularly the species *Melipona beecheii*. The current distribution of bees and the species composition was determined for three areas with different levels of human intervention. The three areas studied included two traditional agricultural areas, Kampocolche and Santa Maria, and a reserve the Sian Ka'an. The study classified the bees into three categories, (1) the Africanized Honeybee, (2) the stingless bee group and (3) other bees. Nine transects were sampled in each of the areas of interest. How would the researcher determine if the number of bees observed in each area occurred in approximately the same proportion as other areas?

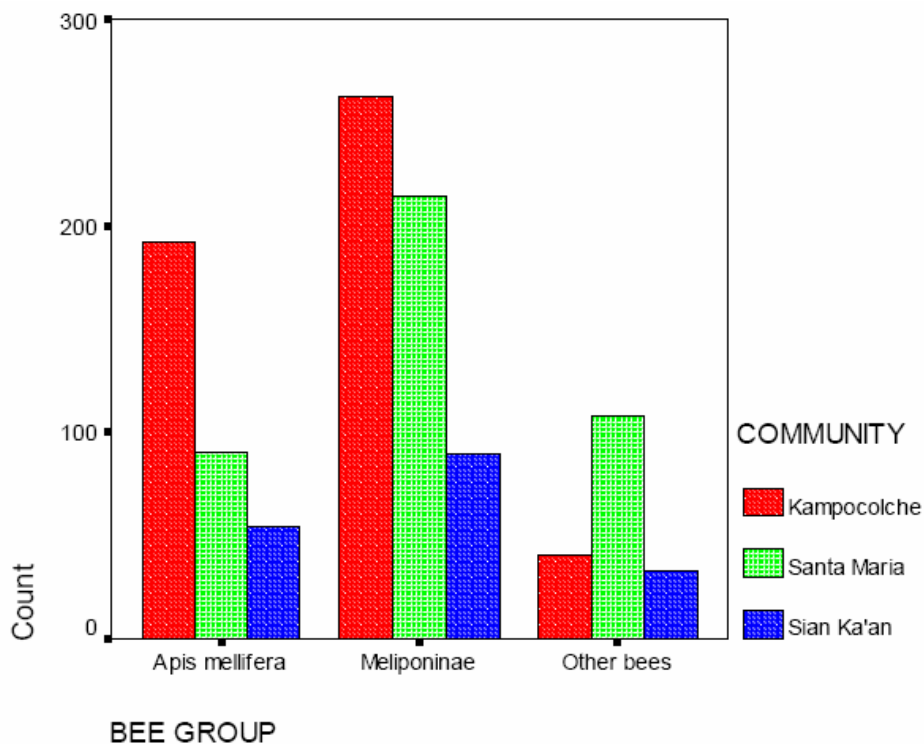


Figure 13: Bee Group by Community