Solano Habitat Conservation Plan

Figure 4-25
Relationship Between Habitat Area and Number of Species*

Legend   % Habitat Remaining

- - - - z = 0.15   - - - - z = 0.35   ——— z = 1
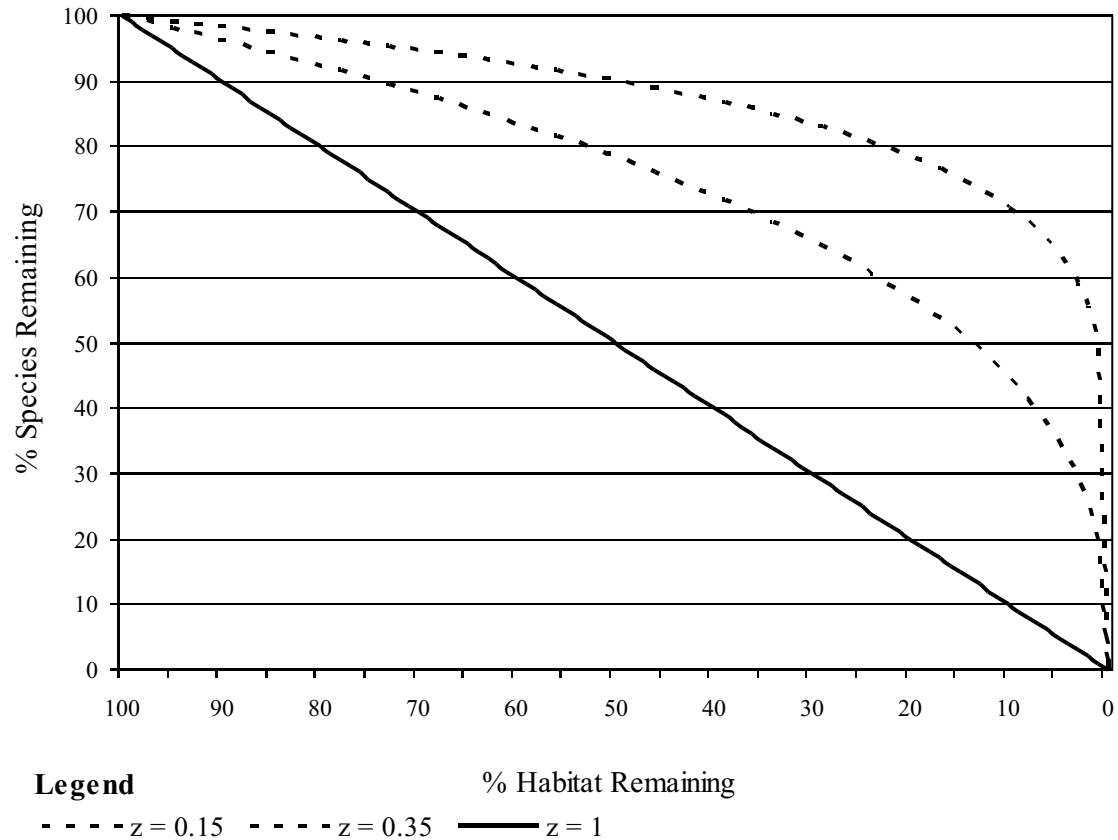
*The graph plots the species-area relationship, $S = cA^z$, where S is the number of species, A is equal to area, and c and z are constants fitted to the data (Meffe and Carroll 1997). The constant z represents the rate at which new species will be encountered, or added to the sample, as more area is surveyed or, from a reserve design perspective, as the value of z increases, a higher percentage of the total habitat area is require to capture a higher proportion of the total species diversity of an area.

LSA