

Zero-inflated Regression models

- ▶ Zero-inflated models attempt to account for excess zeros.
- ▶ In other words, two kinds of zeros are thought to exist in the data, "true zeros" and "excess zeros".
- ▶ Zero-inflated models estimate two equations simultaneously, one for the count model and one for the excess zeros.

Zero-inflated Regression models

- ▶ Zero-inflated poisson regression is used to model count data that has an excess of zero counts.
- ▶ Further, theory suggests that the excess zeros are generated by a separate process from the count values and that the excess zeros can be modeled independently.
- ▶ Thus, the zip model has two parts, a poisson count model and the logit model for predicting excess zeros.
- ▶ You may want to review these Data Analysis Example pages, Poisson Regression and Logit Regression.