

1106-H5-2528 **Ananda Manage*** (wxb001@shsu.edu), Dept Mathematics & Statistics, SHSU, Huntsville, TX 77340, and **Yang Liu** (yanliu@sw.org). *Modeling Economy Rate in Cricket: An Application of Negative Binomial Regression.*

Models for count data have been widely applied in a variety of sports. The Poisson model and negative binomial model are two common count response models. In particular, negative binomial regression model can be used to overcome the over-dispersion issue which is a common problem that arises in count data modeling. In this study, we use the negative binomial regression to model the number of runs scored within an over against different types of bowlers in the sports of cricket. In particular, economy rate during the PowerPlay is a key interest. (Received September 16, 2014)