

1077-G1-618

Robert Franzosa* (robert_franzosa@umit.maine.edu). *The Baseball Simulator: Accurately Simulating Major League Baseball Games with a Minimum Number of Statistics*. Preliminary report.

We will present a model (The Baseball Simulator) for simulating major league baseball games and seasons based on team (rather than individual) statistics. The model was motivated by the desire to create an accurate simulation model that employs as few statistics as possible. We will present a statistical overview comparing Baseball Simulator results and actual major league results for the seasons 1901 - 1993. We will also present results of a Baseball Simulator Ultimate Baseball League season where every major league from 1901 to 1993 plays every other team from the same timespan to determine an overall best Baseball Simulator major league team. Finally, we will share a related classroom activity where students employ probability concepts in the design of their own teams that compete in dice-roll baseball games. (Received September 08, 2011)