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This presentation is the result of research by the authors, concerning analysis of data on Home Runs and Slugging Average in baseball. The methodology of using z scores, to compare the batter to the league average, can tell us how many Standard Deviations above the league mean that the batter is, thus giving us a way to compare batters across different eras. This method has been extended as well to the category of Runs Batted In. We will summarize the work that we have done so far, which we have presented at such conferences as: American Mathematical Association of Two Year Colleges (AMATYC), International Conference on Teaching Statistics (ICOTS), and New Mexico Mathematical Association of Two Year Colleges (NMMATYC). New methodologies include looking at career data, and seeing if we can predict future home run, RBI or Slugging Averages, based upon the past data, and also seeing where hypothesis testing would fit our work. (Received September 26, 2006)