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**Suzanne Lenhart\*** (lenhart@math.utk.edu), U of Tennessee, Math Dept, Knoxville, TN 37996,  
and **Kelly Sturner**. *Using Probability and Limits to Investigate Biodiversity*.

Probability can be used to derive Simpson's index of biodiversity and then limits can be used to investigate the effects of varying species 'evenness' and 'richness'. Using these ideas in middle school, high school, or beginning undergraduate classes will be discussed together with appropriate Common Core Standards. (Received September 17, 2012)