

1056-BE-1306 **Rikki B Wagstrom*** (Rikki.Wagstrom@metrostate.edu), College of Arts and Sciences,
Metropolitan State University, 700 East Seventh Street, Saint Paul, MN 55106. *Assessing Student
Learning in an Introductory-Level Mathematics Course with a Sustainability Emphasis.*

A pre-college algebra level course was taught with a curriculum which used quantitative reasoning and mathematical modeling to motivate and apply linear, exponential and logarithmic functions. Students used their quantitative reasoning, modeling and algebraic skills to quantitatively explore ecological footprints and limited resource availability within the U.S. This presentation will focus on a study designed to evaluate the effectiveness of the curriculum. In particular, the presenter will highlight the results from pre- and post-course assessments of student learning, interest in studying and using mathematics, and mathematical confidence level. (Received September 21, 2009)