

1106-Q5-1330 **Grant Lee Innerst*** (gi7584@ship.edu). *Sustainability on the Half Shell: Modeling Oyster Populations.*

Population modeling, often addressed in courses ranging from College Algebra to Differential Equations is not often associated with sustainability. On the eastern shore of Virginia, oyster beds are being created to help prevent shoreline erosion. The growth of these oyster populations is of great interest to land owners, environmentalists and local businesses. In this talk, we will discuss population models of the Eastern Oyster based on data from Chincoteague Bay, Virginia region and how these models can be scaled for use in multiple classroom settings. (Received September 12, 2014)