1100-39-150 Chris Ahrendt* (ahrendcr@uwec.edu), Amy Wells and Tristan Williams. A comparison of the behavior of solutions of the two logistic dynamic equations on time scales.

We examine the behavior of the two so-called logistic equations on time scales. It is well-known that solutions of the dynamic logistic equation $x^{\Delta} = [p \ominus (fx)]x$ behave very similarly to solutions of the classical logistic differential equation, regardless of time scale. The focus of this presentation is on the behavior of the solutions of the other dynamic logistic equation, $y^{\Delta} = [\ominus (p + fy)]y$. Conditions are given when the behavior is much like that of the classical logistic differential equation, and in this case the two dynamic logistic equations are compared. However, there are numerous cases in which the solutions of the logistic equation $y^{\Delta} = [\ominus (p + fy)]y$ behave markedly different than those of $x^{\Delta} = [p \ominus (fx)]x$. In this talk, we will explore these differences. (Received February 06, 2014)