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Jo Hoffacker\* (johoff@clemson.edu), 102 Larkspur Ln, Pendleton, SC 29670, and **Doug** Anderson. On the number of positive periodic solutions of functional dyanamic equations on time scales and population models.

In this talk we employ the fixed point index on cones to examine the number of positive periodic solutions to the system of dynamic equations on time scales

$$x^{\Delta}(t) = A(t)x(\sigma(t)) + \lambda f(t, x(t - \tau(t)))$$

in which  $\lambda > 0$  is a parameter. In addition we examine several population models. (Received September 21, 2006)