

Department of Mathematics and Statistics Colloquium

*Discrete Time Modeling of Population Level
Characteristics*

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Abstract: Discrete time modeling can be used to study population level outcomes for many different species. In this talk, we will discuss models for two different species, the Arabian oryx and the American white perch, which capture distinct, population level features of interest in these particular species. The first models geographical separation of metapopulations for which we will discuss the existence and stability of equilibria. The second, models stunting of growth which occurs at the population level, for which we will discuss numerical investigations as well as current conjectures.

Monday, September 4 at 3:50 in Roop 103

Refreshments at 3:30