



Population Dynamics and the Tribolium Model: Genetics and Demography (Monographs on Theoretical and Applied Genetics)

Robert Costantino, Robert Desharnais

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The study of populations is becoming increasingly focused on dynamics. We believe there are two reasons for this trend. The first is the impact of nonlinear dynamics with its exciting ideas and colorful language: bifurcations, domains of attraction, chaos, fractals, strange attractors. Complexity, which is so very much a part of biology, now seems to be also a part of mathematics. A second trend is the accessibility of the new concepts. The barriers to communication between theorist and experimentalist seem less impenetrable. The active participation of the experimentalist means that the theory will obtain substance. Our role is the application of the theory of dynamics to the analysis of biological populations. We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier. During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications. Slowly, some of the biological observations were explained and papers followed on a variety of topics: genetic and demographic stability, stationary probability distributions for population size, population growth as a birth-death process, natural selection and density-dependent population growth, genetic disequilibrium, and the stationary stochastic dynamics of adult numbers.

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