عنوان مقاله:

Analysis of a harvested discrete-time biological models

نویسندگان:

Department of Mathematics, College of Science, University of Baghdad, Baghdad, Iraq - - -

Department of Mathematics, College of Science, University of Baghdad, Baghdad, Iraq - - -

خلاصه مقاله:

This work aims to analyze a three-dimensional discrete-time biological system, a prey-predator model with a constant harvesting amount. The stage structure lies in the predator species. This analysis is done by finding all possible equilibria and investigating their stability. In order to get an optimal harvesting strategy, we suppose that harvesting is to be a non-constant rate. Finally, numerical simulations are given to confirm the outcome of mathematical analysis.

کلمات کلیدی:

Prey-predator model, Optimal control, Stage structure model, optimal Harvesting

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