

PREDATOR-PREY INTERACTIONS WITH INFECTED AND SUSCEPTIBLE PREDATOR INCORPORATING HARVESTING OF PREDATOR

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ABSTRACT

In this article, predator prey interactions where the predator is exposed to the risk of disease and harvesting is proposed. Equilibrium points, boundedness, and non-periodic solutions of the model are obtained. Local stability and global stability were discussed. The equilibrium was stable locally, but not globally.

KEYWORDS: Prey-Predator, Stability, Harvesting, Dulac's Criterion

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