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

AHMED BUSERI ASHINE

Department of Mathematics, Madda Walabu University, Bale Robe, Ethiopia, East Africa

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 themodelare 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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