

Modeling and Analysis of Ecological Systems With Harvesting

(Retd.) Prof. Peeyush Chandra,
Department of Mathematics and
Statistics, IIT Kanpur

Here we shall consider two types of ecological systems (i) two-species allelopathic competition and (ii) modified Leslie–Gower Predator–Prey Model to study their dynamical properties when harvesting is incorporated. Stability and bifurcation analyses is presented. Further conditions for the existence of bionomic equilibrium are analyzed.