Accepted Manuscript

Bifurcation of a delayed Gause predator-prey model with Michaelis-Menten type harvestingBifurcation of a delayed gause predator-prey model with michaelis-Menten type harvesting

Wei Liu, Yaolin Jiang

PII:	S0022-5193(17)30508-8
DOI:	10.1016/j.jtbi.2017.11.007
Reference:	YJTBI 9263



Received date:8 August 2017Revised date:28 October 2017Accepted date:8 November 2017

Please cite this article as: Wei Liu, Yaolin Jiang, Bifurcation of a delayed Gause predatorprey model with Michaelis-Menten type harvestingBifurcation of a delayed gause predatorprey model with michaelis-Menten type harvesting, *Journal of Theoretical Biology* (2017), doi: 10.1016/j.jtbi.2017.11.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- We establish a predator-prey model with nonlinear harvesting and gestation delay.
- The harvesting on biological resources is investigated from an economic perspective.
- Both the stability of interior equilibrium and bifurcating periodic solutions have been studied.
- Our results reveal richer dynamics compared with the ordinary predator-prey models.

CHIP HIN

Download English Version:

https://daneshyari.com/en/article/8876893

Download Persian Version:

https://daneshyari.com/article/8876893

Daneshyari.com