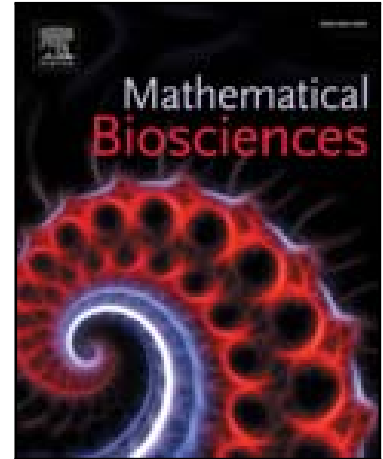


Accepted Manuscript

Harvesting induced stability and instability in a tri-trophic food chain

Bapan Ghosh, Debprasad Pal, Tarzan Legović, T.K. Kar

PII: S0025-5564(18)30319-5
DOI: <https://doi.org/10.1016/j.mbs.2018.08.003>
Reference: MBS 8107



To appear in: *Mathematical Biosciences*

Received date: 22 May 2018
Revised date: 31 July 2018
Accepted date: 1 August 2018

Please cite this article as: Bapan Ghosh, Debprasad Pal, Tarzan Legović, T.K. Kar, Harvesting induced stability and instability in a tri-trophic food chain, *Mathematical Biosciences* (2018), doi: <https://doi.org/10.1016/j.mbs.2018.08.003>

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.

1 Highlights

- 2 • A tri-trophic food chain is investigated under harvesting
- 3 • The food chain remains stable due to prey or predator harvesting
- 4 • Predator harvesting always tends to stabilize an unstable system
- 5 • Harvesting top-predator may induce instability switching
- 6 • MSY may not exist at stable state when top-predator is harvested

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/10130366>

Download Persian Version:

<https://daneshyari.com/article/10130366>

[Daneshyari.com](https://daneshyari.com)