

Accepted Manuscript

Predator-prey equations with constant harvesting and planting

Jieun Choi, Yong-Jung Kim

PII: S0022-5193(18)30423-5
DOI: <https://doi.org/10.1016/j.jtbi.2018.08.044>
Reference: YJTBI 9612

To appear in: *Journal of Theoretical Biology*

Received date: 29 May 2018
Revised date: 25 August 2018
Accepted date: 29 August 2018

Please cite this article as: Jieun Choi, Yong-Jung Kim, Predator-prey equations with constant harvesting and planting, *Journal of Theoretical Biology* (2018), doi: <https://doi.org/10.1016/j.jtbi.2018.08.044>



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

- All typical Turing and evolutionary patterns of predator-prey systems are observed.
- We show constant terms, not higher order terms, produce patterns more clearly.
- Constant terms fill the gap of Lotka-Volterra equations and produce the patterns.
- A complete picture of pattern appearance is given for the whole parameter regimes.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/10223719>

Download Persian Version:

<https://daneshyari.com/article/10223719>

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