
# 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

## 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.