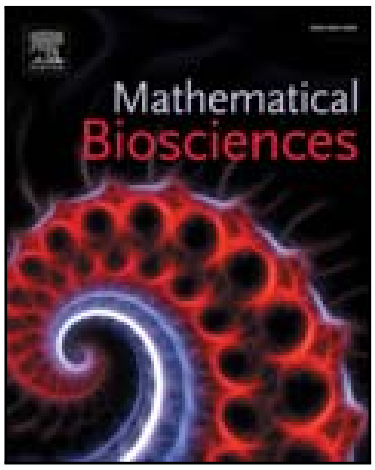
Accepted Manuscript



Nonlinear Dynamics of Avian Influenza Epidemic Models

Sanhong Liu, Shigui Ruan, Xinan Zhang

PII: S0025-5564(16)30332-7
DOI: 10.1016/j.mbs.2016.11.014
Reference: MBS 7885

To appear in: *Mathematical Biosciences*

Received date: 9 November 2015
Revised date: 16 November 2016
Accepted date: 19 November 2016

Please cite this article as: Sanhong Liu, Shigui Ruan, Xinan Zhang, Nonlinear Dynamics of Avian Influenza Epidemic Models, *Mathematical Biosciences* (2016), doi: 10.1016/j.mbs.2016.11.014

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.

ACCEPTED MANUSCRIPT

Highlights

- Avian influenza A H1N1 and H7N9 have resulted significant human cases
- Construct avian influenza models with different avian growth laws
- Analyze the dynamical behavior of these models completely
- Obtain the threshold value for the prevalence of avian influenza
- Discuss the occurrence of periodic solutions with avian Allee effect

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5760423

Download Persian Version:

https://daneshyari.com/article/5760423

Daneshyari.com