

Accepted Manuscript

Bounded growth of the bullwhip effect under a class of nonlinear ordering policies

Zhaodong Wang, Xin Wang, Yanfeng Ouyang

PII: S0377-2217(15)00367-7
DOI: [10.1016/j.ejor.2015.04.047](https://doi.org/10.1016/j.ejor.2015.04.047)
Reference: EOR 12919



To appear in: *European Journal of Operational Research*

Received date: 16 September 2014
Revised date: 3 March 2015
Accepted date: 24 April 2015

Please cite this article as: Zhaodong Wang, Xin Wang, Yanfeng Ouyang, Bounded growth of the bullwhip effect under a class of nonlinear ordering policies, *European Journal of Operational Research* (2015), doi: [10.1016/j.ejor.2015.04.047](https://doi.org/10.1016/j.ejor.2015.04.047)

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

- The growth of the bullwhip effect under nonlinear ordering policies is analyzed.
- Closed-form formulas are derived based on a describing-function approach.
- Nonlinearity in ordering policies is proven to cause bounded bullwhip effect growth.
- Impacts of mean demand, ordering periodicity, and forecasting method are derived.
- Various managerial insights hold the promise to help develop counteracting strategies.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6896441>

Download Persian Version:

<https://daneshyari.com/article/6896441>

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