







Q

Volume 19, Issue 1

Home ► All Journals ► Politics & International Relations ► Defence and Peace Economics ► TAX EFFICIENCY AND QUALITY/QUANTITY TRAD

Defence and Peace Economics >

Volume 19, 2008 - Issue 1

102 4 0

Views CrossRef citations to date Altmetric

Original Articles

TAX EFFICIENCY AND QUALITY/QUANTITY TRADE-OFFS IN DEFENSE PROCUREMENT*

Jonathan Lipow \(\subseteq \& \text{Yakir Plessner} \)

Pages 21-26 | Received 11 Jan 2006, Accepted 02 Mar 2007, Published online: 30 Nov 2007

66 Cite this article ▶ https://doi.org/10.1080/10242690701348984

> Sample our Economics, Finance, Business & Industry Journals >> Sign in here to start your access to the latest two volumes for 14 days

Full Article

Figures & data

References

66 Citations

Metrics

➡ Reprints & Permissions

Read this article

Share

Abstract

In the defense policy literature, it is widely believed that there is a pronounced bias towards the procurement of a less than optimal number of excessively sophisticated weapons. In this paper, we consider the possibility that this perceived bias is the result of the timing and informational structure of defense procurement decisions, and the interrelationship of this structure with overall fiscal policy. Specifically, this paper presents a model that suggests that tax smoothing considerations of the type first articulated in Barro (1979) could lead social welfare maximizing decision makers to choose a higher level of weapon quality than would be optimal if government revenue could be raised without resort to distortionary taxation.

*The authors would like to thank Alan Viard of the Dallas Federal Reserve Bank, participants in the 2005 Ne'eman Institute Seminar in the Economics of National Security at Tel Aviv University, and two anonymous referees for their comments and insights.

Keywords:

Defense procurement	Weapon quality	Tax smoothing
---------------------	----------------	---------------

JEL Code:

- 14		7
п	0	/

Notes

*The authors would like to thank Alan Viard of the Dallas Federal Reserve Bank, participants in the 2005 Ne'eman Institute Seminar in the Economics of National Security at Tel Aviv University, and two anonymous referees for their comments and insights.

¹A number of observers, including the authors of this paper, regard the AICVAI/AIMVAL results with great skepticism. All engagements were in daylight and good weather, negating the F-15s superior night/adverse weather capabilities. Ground radars guided the aircraft to each other, negating the value of the F-15s superior radar. Furthermore, all engagements were near USAF bases, eliminating the F-15s advantage in range. In short, the F-15 was unable to demonstrate its qualitative superiority because the structure of the trials forbade it from doing so.

²See Hildebrandt (<u>1999</u>) for an excellent discussion of military production functions and how they differ from utility functions.

- ³Relaxation of this assumption in no ways alters the model's results.
- ⁴Strictly speaking, in the context of the present analysis E(c) is valid only for .
- ⁵Not only are statistics on defense spending notoriously unreliable, but the budget categories identified as being for research, procurement, training, and manpower do not always correspond to the usage applied in the paper. For example, the salary of a research project's 'program manager' may be counted as a manpower cost, although in

reality this expense represents an investment in weapon quality. Meanwhile, research expenditures could include investments in R&D infrastructure or could even be masking the funding of intelligence agencies and special operations units.

⁶It may be argued that our results do not hold for LDCs since few of these countries design or manufacture their own weapons. This is not the case. Many LDCs actually do produce much of their own weaponry, including Brazil, China, Egypt, India, Iran, Israel, Russia, South Africa, South Korea, and Turkey.

⁷Following publication of Bohn (<u>1990</u>), a vibrant literature has developed regarding the use of government debt management as a tool in facilitating tax smoothing.



Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up











Accessibility



Copyright © 2025 Informa UK Limited Privacy policy Cookies Terms & conditions



Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG