

Communications in Statistics >

Volume 4, 1975 - [Issue 10](#)

26 Views | 10 CrossRef citations to date | 0 Altmetric

Original Articles

# Minimum variance unbiased estimation in the gamma distribution

W. A. Woodward & H. L. Gray

Pages 907-922 | Received 01 Jun 1975, Published online: 23 Dec 2010

🗨️ Cite this article 🔗 <https://doi.org/10.1080/03610927508827301>

Sample our  
Mathematics & Statistics  
Journals

>> [Sign in here](#) to start your access  
to the latest two volumes for 14 days

📖 References 🗨️ Citations 📊 Metrics 🖨️ Reprints & Permissions

Read this article

🔗 Share

## Abstract

In this paper a new infinite series UMVU estimator for general functions of the scale parameter in the gamma distribution with shape parameter known is presented. The formula given is easy to employ, and also leads to simple approximations to the UMVU. These approximations are shown to perform well in the examples considered.

Keywords:

UMVU estimation

gamma distribution

generalized jackknife



Time is research – publish today in  
**ASA Discoveries**

**FIND OUT MORE »**

## Related research

People also read

Recommended articles

Cited by  
10

## 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



Copyright © 2026 Informa UK Limited [Privacy policy](#)

[Cookies](#) [Terms & conditions](#) [Accessibility](#)

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



**Taylor & Francis**  
by **informa**...