

Catalogue no. 12-001-X
ISSN 1492-0921

Survey Methodology

Addendum Model-assisted optimal allocation for planned domains using composite estimation

by Wilford B. Molefe and Robert Graham Clark

Release date: June 22, 2016



Statistics
Canada Statistique
Canada

Canada

How to obtain more information

For information about this product or the wide range of services and data available from Statistics Canada, visit our website, www.statcan.gc.ca.

You can also contact us by

email at STATCAN.infostats-infostats.STATCAN@canada.ca

telephone, from Monday to Friday, 8:30 a.m. to 4:30 p.m., at the following toll-free numbers:

- Statistical Information Service 1-800-263-1136
- National telecommunications device for the hearing impaired 1-800-363-7629
- Fax line 1-877-287-4369

Depository Services Program

- Inquiries line 1-800-635-7943
- Fax line 1-800-565-7757

Standards of service to the public

Statistics Canada is committed to serving its clients in a prompt, reliable and courteous manner. To this end, Statistics Canada has developed standards of service that its employees observe. To obtain a copy of these service standards, please contact Statistics Canada toll-free at 1-800-263-1136. The service standards are also published on www.statcan.gc.ca under “Contact us” > “Standards of service to the public.”

Note of appreciation

Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued co-operation and goodwill.

Standard table symbols

The following symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- ^P preliminary
- ^r revised
- X suppressed to meet the confidentiality requirements of the *Statistics Act*
- ^E use with caution
- F too unreliable to be published
- * significantly different from reference category ($p < 0.05$)

Published by authority of the Minister responsible for Statistics Canada

© Minister of Industry, 2016

All rights reserved. Use of this publication is governed by the Statistics Canada [Open Licence Agreement](#).

An HTML version is also available.

Cette publication est aussi disponible en français.

ADDENDUM

Model-assisted optimal allocation for planned domains using composite estimation

Wilford B. Molefe and Robert Graham Clark
Volume 41, number 2, (December 2015), 377-387

The second paragraph of page 378 of our paper reviews the 2012 paper of Choudhry, Rao and Hidirolou. Our paragraph as worded implies a criticism of this paper which we did not intend, and we take this opportunity to correct and clarify our review. The CVs we referred to were in Table 5 of Choudhry et al. (2012), and the heading of this table clearly indicated that the CVs were of composite estimators, rather than being unspecified as we incorrectly stated. We also suggested that some CVs in this table were surprisingly high. This would be the case if the CVs (actually relative root mean squared errors, following a common convention) were calculated using the approximation of Longford (2006) or our closely related anticipated mean squared errors. However, Choudhry et al. (2012) used a different (and more standard) estimator of mean squared error, and the high values are not surprising in this light.

We also stated that Choudhry et al. (2012) did not investigate whether other designs such as power allocation can give lower values of Longford's criteria. This was correct, and motivated the research on this question in our paper. However we should have made clear that Choudhry et al. (2012) did consider square root allocation, a special case of power allocation, in terms of other criteria, such as setting small area CV tolerances.

References

- Choudhry, G.H., Rao, J.N.K. and Hidirolou, M.A. (2012). On sample allocation for efficient domain estimation. *Survey Methodology*, 38, 1, 23-29.
- Longford, N.T. (2006). Sample size calculation for small-area estimation. *Survey Methodology*, 32, 1, 87-96.