

# Complex Survey Data Analysis with SAS

By Taylor H. Lewis

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**Complex Survey Data Analysis with SAS®** is an invaluable resource for applied researchers analyzing data generated from a sample design involving any combination of stratification, clustering, unequal weights, or finite population correction factors. After clearly explaining how the presence of these features can invalidate the assumptions underlying most traditional statistical techniques, this book equips readers with the knowledge to confidently account for them during the estimation and inference process by employing the SURVEY family of SAS/STAT® procedures.

The book offers comprehensive coverage of the most essential topics, including:

- Drawing random samples
- Descriptive statistics for continuous and categorical variables
- Fitting and interpreting linear and logistic regression models
- Survival analysis
- Domain estimation
- Replication variance estimation methods
- Weight adjustment and imputation methods for handling missing data


The easy-to-follow examples are drawn from real-world survey data sets spanning multiple disciplines, all of which can be downloaded for free along with syntax files from the author's website: <http://mason.gmu.edu/~tlewis18/>.

While other books may touch on some of the same issues and nuances of complex survey data analysis, none features SAS exclusively and as exhaustively. Another unique aspect of this book is its abundance of handy workarounds for certain techniques not yet supported as of SAS Version 9.4, such as the ratio estimator for a total and the bootstrap for variance estimation.

Taylor H. Lewis is a PhD graduate of the Joint Program in Survey Methodology at the University of Maryland, College Park, and an adjunct professor in the George Mason University Department of Statistics. An avid SAS user for 15

years, he is a SAS Certified Advanced programmer and a nationally recognized SAS educator who has produced dozens of papers and workshops illustrating how to efficiently and effectively conduct statistical analyses using SAS.

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## **Editorial Review**

### **Review**

"This book is very well written and includes a wealth of theoretical and practical information. It hits the mark on the explanation of concepts and statistics in that it is readable without being too simple or advanced. It will be an excellent resource, especially for SAS users."

?**Patricia Berglund**, Institute for Social Research, University of Michigan

"Building from simple motivating examples to real-world data sets and analyses, this book clearly demonstrates SAS's suite of survey analysis commands. Lewis explains why special commands are needed when working with survey data, how to run the code in SAS, and how to interpret the output. This book will be useful to many, in particular to researchers who have a basic knowledge of SAS and statistics but are new to analysis of survey data."

?**Stephanie Eckman**, Ph.D, Fellow at RTI International

"This book is an outstanding, practical handbook presenting thorough examples of the use of specialized procedures in the SAS/STAT software for dealing with all aspects of complex samples, from sample design and selection to the analysis of complex sample survey data. Applied statisticians, survey researchers, and analysts of survey data collected from large, complex samples in applied fields, such as epidemiology and public health, will find this book to be a tremendous and essential resource on the use of SAS for managing and analyzing these types of data sets...Overall, I would highly recommend this excellent new resource for any researchers selecting complex samples and analyzing complex sample survey data using the SAS system."

?**Brady T. West**, Survey Research Center, University of Michigan-Ann Arbor

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**Carla Heyward:**

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