

Estimation in Surveys with Nonresponse

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Estimation In Surveys With Nonresponse Estimation In Surveys With Nonresponse:

Estimation in Surveys with Nonresponse Carl-Erik Särndal, Sixten Lundström, 2005-08-05 Around the world a multitude of surveys are conducted every day on a variety of subjects and consequently surveys have become an accepted part of modern life. However, in recent years, survey estimates have been increasingly affected by rising trends in nonresponse, with loss of accuracy as an undesirable result. Whilst it is possible to reduce nonresponse to some degree, it cannot be completely eliminated. Estimation techniques that account systematically for nonresponse and at the same time succeed in delivering acceptable accuracy are much needed. *Estimation in Surveys with Nonresponse* provides an overview of these techniques, presenting the view of nonresponse as a normal, albeit undesirable, feature of a sample survey, one whose potentially harmful effects are to be minimised. Builds in the nonresponse feature of survey data collection as an integral part of the theory, both for point estimation and for variance estimation. Promotes weighting through calibration as a new and powerful technique for surveys with nonresponse. Highlights the analysis of nonresponse bias in estimates and methods to minimize this bias. Includes computational tools to help identify the best variables for calibration. Discusses the use of imputation as a complement to weighting by calibration. Contains guidelines for dealing with frame imperfections and coverage errors. Features worked examples throughout the text using real data. The accessible style of *Estimation in Surveys with Nonresponse* will make this an invaluable tool for survey methodologists in national statistics agencies and private survey agencies. Researchers, teachers, and students of statistics, social sciences, and economics will benefit from the clear presentation and numerous examples. Target Estimation and Adjustment Weighting for Survey Nonresponse and Sampling Bias Devin Caughey, Adam J. Berinsky, Sara Chatfield, Erin Hartman, Eric Schickler, Jasjeet S. Sekhon, 2020-10-22 We elaborate a general workflow of weighting-based survey inference, decomposing it into two main tasks. The first is the estimation of population targets from one or more sources of auxiliary information. The second is the construction of weights that calibrate the survey sample to the population targets. We emphasize that these tasks are predicated on models of the measurement, sampling, and nonresponse process, whose assumptions cannot be fully tested. After describing this workflow in abstract terms, we then describe in detail how it can be applied to the analysis of historical and contemporary opinion polls. We also discuss extensions of the basic workflow, particularly inference for causal quantities and multilevel regression and poststratification. **Survey Nonresponse** Robert M. Groves, 2002 This volume offers coverage of research in the field of survey nonresponse, the primary threat to the statistical integrity of surveys. This book was written in conjunction with the International Conference on Survey Nonresponse, October 1999. **Handbook of Nonresponse in Household Surveys** Jelke Bethlehem, Fannie Cobben, Barry Schouten, 2011-04-27 A comprehensive one-stop guide to identifying, reducing, and managing nonresponse in household surveys. Nonresponse and its impact on the sample selection mechanism of a survey is a common problem that often arises while collecting survey data. *Handbook of Nonresponse in Household Surveys* is a

complete guide to handling the nonresponse problem outlining statistical methods and techniques for improving response rates and correcting response data The authors begin with an introduction to the nonresponse problem along with basic concepts and definitions Subsequent chapters present current theories and methods that enable survey researchers to skillfully account for nonresponse in their research Exploring the latest developments in the field the book also features An introduction to the R indicator as an indicator of survey quality Discussion of the different causes of nonresponse Extensive treatment of the selection and use of auxiliary information Best practices for re approaching nonrespondents An overview of advanced nonresponse correction techniques Coverage of adaptive survey design Throughout the book the treatment of each topic is presented in a uniform fashion Following an introduction each chapter presents the key theories and formulas underlying the topic and then illustrates common applications Discussion concludes with a summary of the main concepts as well as a glossary of key terms and a set of exercises that allows readers to test their comprehension of the presented material Examples using real survey data are provided and a related website features additional data sets which can be easily analyzed using Stata or SPSS software Handbook of Nonresponse in Household Surveys is an essential reference for survey researchers working in the fields of business economics government and the social sciences who gather analyze and draw results from data It is also a suitable supplement for courses on survey methods at the upper undergraduate and graduate levels A Theory of Minimum Mean Square Estimation in Surveys with Nonresponse Harold F. Huddleston, 1977

Estimation in the Presence of Nonresponse and Frame Imperfections Sixten Lundström, Carl-Erik Särndal, 2002

Adaptive Survey Design Barry Schouten, Andy Peytchev, James Wagner, 2017-07-28 Adaptive survey designs ASDs provide a framework for data driven tailoring of data collection procedures to different sample members often for cost and bias reduction People vary in how likely they are to respond and in how they respond This variation leads to opportunities to selectively deploy design features in order to control both nonresponse and measurement errors ASD aims at the optimal matching of design features and the characteristics of respondents given the survey budget Such a goal is sensible but ASD requires investment in more advanced technical systems and management infrastructure and asks for the collection of relevant auxiliary data So what are current best practices in ASD And is ASD worthwhile when the same auxiliary data are employed in the estimation afterwards In this book the authors provide answers to these questions and much more

Nonresponse in Social Science Surveys National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on a Research Agenda for the Future of Social Science Data Collection, 2013-10-26 For many household surveys in the United States responses rates have been steadily declining for at least the past two decades A similar decline in survey response can be observed in all wealthy countries Efforts to raise response rates have used such strategies as monetary incentives or repeated attempts to contact sample members and obtain completed interviews but these strategies increase the costs of surveys This review addresses the core issues regarding

survey nonresponse It considers why response rates are declining and what that means for the accuracy of survey results These trends are of particular concern for the social science community which is heavily invested in obtaining information from household surveys The evidence to date makes it apparent that current trends in nonresponse if not arrested threaten to undermine the potential of household surveys to elicit information that assists in understanding social and economic issues The trends also threaten to weaken the validity of inferences drawn from estimates based on those surveys High nonresponse rates create the potential or risk for bias in estimates and affect survey design data collection estimation and analysis The survey community is painfully aware of these trends and has responded aggressively to these threats The interview modes employed by surveys in the public and private sectors have proliferated as new technologies and methods have emerged and matured To the traditional trio of mail telephone and face to face surveys have been added interactive voice response IVR audio computer assisted self interviewing ACASI web surveys and a number of hybrid methods Similarly a growing research agenda has emerged in the past decade or so focused on seeking solutions to various aspects of the problem of survey nonresponse the potential solutions that have been considered range from better training and deployment of interviewers to more use of incentives better use of the information collected in the data collection and increased use of auxiliary information from other sources in survey design and data collection Nonresponse in Social Science Surveys A Research Agenda also documents the increased use of information collected in the survey process in nonresponse adjustment **Proceedings of the Section on Survey Research Methods** American Statistical Association. Survey Research Methods Section,1994

Survey Sampling Principles E.K. Foreman,1991-06-28 An introduction to the essentially mathematical principles of survey sampling as they are applied in practice Intended for survey sampling theorists and practitioners as a guide for those who may have to design and conduct a survey and for those commissioning organizing and overseeing survey op **1997**

Census of Agriculture: Agricultural economics and land ownership survey (1999) ,2001 **Journal of Official Statistics** ,2013 Vital and Health Statistics. Series 22 ,1966 The National Home and Hospice Care Survey, ... Summary ,2003 Clinical Chemistry Profile Data for Hispanics, 1982-84 Matthew F. Najjar,Olivia Carter-Pokras,1992

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