Hard-to-Survey Populations

Edited by

ROGER TOURANGEAU, BRAD EDWARDS, TIMOTHY P. JOHNSON, KIRK M. WOLTER, AND NANCY BATES



Contents

	List of figures	<i>page</i> xi
	List of tables	xiii
	List of boxes	xv
	List of contributors	xvii
	Preface	xxiii
	PART I INTRODUCTION	1
1	Defining hard-to-survey populations ROGER TOURANGEAU	3
2	Hard-to-survey populations in comparative perspective TOM W. SMITH	21
3	Measuring undercounts for hard-to-survey groups MARY H. MULRY	37
4	Counting and estimating hard-to-survey populations in the 2011 Census OWEN ABBOTT AND GARNETT COMPTON	58
5	A review of quality issues associated with studying hard-to-survey populations LARS LYBERG, MATHEW STANGE, JANET HARKNESS, PETER MOHLER, BETH-ELLEN PENNELL, AND LILLI JAPEC	82
	PART II CONDUCTING SURVEYS IN DIFFICULT SETTINGS	109
6	Disaster research: surveying displaced populations BETH-ELLEN PENNELL, YASHWANT DESHMUKH, JENNIFER KELLEY, PATTY MAHER, JAMES WAGNER, AND DAN TOMLIN	111

|--|

-		
7	Conducting surveys in areas of armed conflict ZEINA N. MNEIMNEH, WILLIAM G. AXINN, DIRGHA GHIMIRE, KRISTEN L. CIBELLI, AND MOHAMMAD SALIH ALKAISY	134
8	Interviewing in disaster-affected areas: lessons learned from post-Katrina surveys of New Orleans residents MOLLYANN BRODIE, CLAUDIA DEANE, ELIZABETH C. HAMEL, MELISSA HERRMANN, AND ERAN BEN-PORATH	157
9	Reaching and enumerating homeless populations IRENE GLASSER, ERIC HIRSCH, AND ANNA CHAN	180
10	"Where are <i>our</i> costumes?": the All Ireland Traveller Health Study – our Geels 2007–2011 CECILY C. KELLEHER AND BRIGID QUIRKE	201
	PART III CONDUCTING SURVEYS WITH SPECIAL Populations	223
11	Representing the populations: what general social surveys can learn from surveys among specific groups INEKE STOOP	225
12	Surveying cultural and linguistic minorities JANET HARKNESS, MATHEW STANGE, KRISTEN L. CIBELLI, PETER MOHLER, AND BETH-ELLEN PENNELL	245
13	Challenges to surveying immigrants DOUGLAS S. MASSEY	270
14	Ethnographic evaluations on coverage of hard-to-count minorities in US decennial censuses LAURIE SCHWEDE, RODNEY TERRY, AND JENNIFER HUNTER CHILDS	293
15	Methodological and ethical issues arising in carrying out research with children and young people SINÉAD HANAFIN, ANNE MARIE BROOKS, GILLIAN ROCHE, AND BAIRBRE MEANEY	316
16	Challenges in the first ever national survey of people with intellectual disabilities SALLY MALAM, ERIC EMERSON, AND IAN DAVIES	347

	Contents	ix
17	Conducting research on vulnerable and stigmatized populations SANDRA H. BERRY AND PATRICK P. GUNN	368
18	Surveying political extremists TIMOTHY P. JOHNSON, ALLYSON L. HOLBROOK, AND KEITH ATTERBERRY	379
	PART IV SAMPLING STRATEGIES FOR THE HARD TO SURVEY	399
19	Probability sampling methods for hard-to-sample populations GRAHAM KALTON	401
20	Recent developments of sampling hard-to-survey populations: an assessment SUNGHEE LEE, JAMES WAGNER, RICHARD VALLIANT, AND STEVE HEERINGA	424
21	Indirect sampling for hard-to-reach populations PIERRE LAVALLÉE	445
22	Sampling the Māori population using proxy screening, the Electoral Roll, and disproportionate sampling in the New Zealand Health Survey ROBERT GRAHAM CLARK AND ROBERT TEMPLETON	468
23	Network-based methods for accessing hard-to-survey populations using standard surveys TYLER H. MCCORMICK AND TIAN ZHENG	485
24	Link-tracing and respondent-driven sampling STEVE THOMPSON	503
	PART V DATA COLLECTION STRATEGIES FOR THE HARD TO SURVEY	517
25	Use of paid media to encourage 2010 Census participation among the hard to count w. DOUGLAS EVANS, A. RUPA DATTA, AND TING YAN	519
26	The hard to reach among the poor in Europe: lessons from Eurostat's EU-SILC survey in Belgium IDES NICAISE AND INGRID SCHOCKAERT	541

х		Contents	
	27	Tailored and targeted designs for hard-to-survey populations MARIEKE HAAN AND YFKE ONGENA	555
	28	Standardization and meaning in the survey of linguistically diversified populations: insights from the ethnographic observation of linguistic minorities in 2010 Census interviews YULING PAN AND STEPHEN LUBKEMANN	575
	29	Mobilizing hard-to-survey populations to participate fully in censuses and surveys TIMOTHY P. OLSON, ARTURO VARGAS, AND JEROME D. WILLIAMS	599
	30	Finding the hard to reach and keeping them engaged in research KIRSTEN BECKER, SANDRA H. BERRY, NATE ORR, AND JUDY PERLMAN	619

Index

642

Figures

3.1	Historical estimates of percent net undercount in the US Census 1940 to	
	2010 based on estimates from demographic analysis	page 44
4.1	Relative confidence interval widths by census response rate and variability in response	
	rates within a local authority	61
	Comparison of 2001 and 2011 Census person response rates by local authorities	76
4.3	Distribution across local authorities of 95 percent confidence interval width for the	
	2001 and 2011 Censuses	77
	2001 and 2011 Census response rates by five year by age and sex group	77
	Difference between response rates in 2001 and 2011 Censuses by ethnic group	78
	Survey life cycle steps	84
10.1	Map with list of the location of Primary Health Care Projects in each of the eight	
	Traveller Health Units (which are co-terminous with the former Health Board	
	boundaries)	207
10.2	Summary of design and substudies in the All Ireland Traveller Health Study	215
10.3	Certification ceremony for peer researchers	219
11.1	Representation of minority groups – three scenarios	226
11.2	ESS response rates in countries participating in rounds 1-5	239
13.1	Example of cards used in two-card estimation of undocumented migration	
	from social surveys	278
16.1	Map of population by accommodation type	353
16.2	Example picture show card	361
16.3	Assessment procedure	362
21.1	Surveying a rare ethnic group	451
21.2	Surveying smokers	453
21.3	Surveying homeless people	454
21.4	Surveying smokers in the context of network sampling	456
	Surveying a rare ethnic group using adaptive cluster sampling	458
22.1	Histogram of Maori meshblock densities	475
	First page of NZ voting enrollment form	477
	Standard error of the scale-up degree estimate plotted against the sum of the fractional	
	subpopulation sizes	492
23.2	Mean number recalled as a function of subpopulation size for twelve names	493
	Heatmaps of additional male and female names based on data from the Social Security	
	Administration	496

23.4	Total mean squared error across all elements of the mixing matrix and latent profile	
	matrix	500
25.1	2010 CICPE conceptual model	527
29.1	Mail Self-Response by Race/Ethinicity during U.S. census 2000	607
30.1	Thinking about a tracking protocol: factors to consider	632

Tables

3.1	Estimated 2006 Canadian Census percent net undercount, by sex and age	page 47
3.2	Estimated 2006 Canadian Census percent net undercount, by marital status and age for	
	persons 15 years of age and over	47
3.3	Estimated 2010 US Census percent net undercount, by sex and age	50
3.4	Estimated 2010 US Census percent net undercount, by relationship in the household	50
3.5	Estimated 2010 US Census percent net undercount, by whether the area received a	
	Spanish questionnaire and Hispanic ethnicity	51
3.6	Estimated 2011 Australia Census coverage error rates, by sex and age	51
3.7	Estimated 2011 Australia Census percent net undercount, by sex and marital status	52
4.1	Key population groups identified through evidence of size and nonresponse rate	66
4.2	Key population groups identified through anecdotal evidence	67
4.3	CCS interviewer workload size guidelines	72
4.4	Table of counts of individuals for dual system estimations	73
6.1	Characteristics of referenced events	113
6.2	Detailed recommendations	126
7.1	Dimensions of armed conflict situations	136
7.2	Summary of challenges encountered during active armed conflict survey research	
	and recommendations for addressing them	137
10.1	Primary Health Care Projects (PHCPs): by Traveller Health Unit (THU) Regions	208
14.1	Percentage net undercount by race and origin	294
	Observed sample persons with possible coverage error by type of error	299
14.3	Frequency of persons with possible coverage error by race/ethnic group	300
14.4	All sources of possible coverage error (multiple sources per person)	301
14.5	Sources of possible omissions (multiple sources per person)	302
14.6	Sources of possible overcounts/incorrect counts (multiple sources per person)	302
14.7	Sources of possible coverage error by race/ethnic site (multiple sources per person)	303
15.1	Response levels by study informant - Growing up in Ireland, 9-year-old cohort	327
16.1	Response rates and interviews by sample type	357
18.1	Types of domestic political extremist groups in the United States, 2012	382
18.2	Data collection modes, by type of sample frame used	390
	Screener and survey classification of Māori status for adults in the core sample	471
22.2	Unweighted (weighted) underidentification rates (in percent) of proxy screener by type	
	of household	472

22.3	Approximate relative efficiency (compared to equal probability sampling) of various designs meshblock selection probability proportional to $N_g \sqrt{\hat{\varphi}_g}$ where φ_g	
	estimated using 2001 Census data at various levels of aggregation	476
22.4	Numerically optimized designs (all cost equivalent assuming 1 cost unit for each	
	full interview and 0.3 for each household in sample)	482
25.1	2010 CICPE completed cases by race/ethnicity group	526
25.2	Descriptive statistics and reliability analysis of MR index	529
25.3	Mean and standard error of MR to census ads, by exposure	529
25.4	Predicting knowledge, attitude factor, and intent, using MR	530
25.5	Predicting knowledge scores using MR index by race/ethnicity	531
25.6	Predicting positive attitude factor using MR index by race/ethnicity	531
25.7	Predicting (Wave 2) intent to return census form using MR index	532
25.8	Predicting mail return using knowledge and attitudes	533
25.9	Predicting mail return using knowledge and attitudes by race/ethnicity	533
25.10	Predicting mail return using exposure	534
25.11	Predicting mail return using exposure by race/ethnicity group	535
25.12	Mean correct knowledge and positive attitude counts by race/ethnicity group	535
26.1	Overall attrition in EU-SILC Wave 2 (2005) by type of nonresponse	543
26.2	Selective attrition in Wave 2: results of the logistic regression analysis	544
26.3	Anticipated/achieved number of interviews, homeless people	550
26.4	Anticipated/achieved number of interviews, undocumented immigrants	551
27.1	Survey design features affecting response	558
28.1	Language teams and research sites	581
28.2	Effective meta-communicative conventions used by bilingual enumerators	584
29.1	US Census mail return rates since 1970	605
29.2	US Census over/undercount since 1990	606
30.1	Summary of strategies for locating respondents	621
30.2	Strategies used with certain hard-to-reach groups	624

٠

Boxes

11.1	Western and non-Western minorities in the Netherlands	page 228
11.2	ECRI/INED questionnaire (Simon, 2007, p. 20) variables on	
	ethnic or national origin	234