

How many is enough? The quest for an acceptable survey response rate

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ow many people do I need to survey? That's a common question I get as a researcher. The answer, unfortunately, is not simple.

The goal of a survey is to give an accurate picture of how people feel about a topic and predict what they would do (e.g., buy, vote). In public opinion surveys, we often want our answer to fall within a few percent-

age points of "truth." The standard error of the mean measures this wiggle room and is inversely related to the number of respondents. So from this perspective, the answer to "How many is enough?" depends

on how far off we're willing to be.

Why response rate matters

Three of the four sources of error in survey research relate to the people surveyed. (The fourth has to do with survey design.) Mistakes can be made in defining the population (e.g., people in special needs schools and institutions were not included in the original IQ test standardization). The sampling process may result in different demographics from the population (e.g., picking numbers at random from the phone book leaves out the ~30% with an unlisted number).

Or responders may differ from non-responders in some important way.

To get an accurate picture, we need to survey a *representative* sample of the population we are interested in. If the population of interest is small, we may send surveys to everyone. When we want to know what the *general* population thinks, we pick a

sample to survey. If the sampling process is sound and response rate is acceptably high, we can trust that the people who opt out do not differ in critical ways from the people who complete the survey. When re-

sponse rate is low, we may question responders' representativeness and the validity of the results.

Measuring response rate

Although response rate is defined as the number of people we surveyed compared to the number of people we tried to survey, there is more than one way to measure it. The number of people surveyed may include surveys with some answers left blank or only those where every question was answered. The number we tried to survey may include only those known to fit our eligibility criteria or also those on

the mailing or phone list who are not eligible.

In actual fact, what some people report as response rate is actually their cooperation rate (i.e., the number of completed surveys compared to the number of people reached). The American Association for Public Opinion Research (AAPOR), an authority on all things survey-related, accepts several different formulas for response rate and asks that researchers disclose how they measured it in reports.

Survey mode makes a difference

The survey method has an impact on response rate. Web-based surveys have a lower response rate than mail surveys, even when Internet access is not an issue.





Editor: Kathleen Biersdorff, Ph.D.
K. K. Biersdorff Consulting
23 Harvest Oak Green NE
Calgary, AB T3K 3Y2
Phone: (403) 226-0585
Fax: (403) 920-0586
kkbiersdorff@shaw.ca
www.kkbiersdorff.ca

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Volume 1, Number 3 Summer 2009

For example, in a 2004 survey of university undergrads with e-mail access, about 21% responded to an e-mail survey while 31% responded to a mail survey (Kaplowitz et al., 2004 in Public Opinion Quarterly pp. 94-101). Face-to-face surveys achieve the highest response rates, with the best I've seen being a whopping 92%. Some studies report that telephone surveys have a higher response rate than mail surveys, while others report the reverse. Sending reminders boosts response rates. Oddly enough, studies have shown that sending a \$2 incentive boosts both response rate and representativeness.

When I said that there is no simple answer to the question of how many is enough, this does not mean that people have been unwilling to go on record with an answer. Here are some expert opinions as to what is considered a good mail survey response rate:

- 25% Dr. Norman Hertz when asked by the Supreme Court of Arizona
- 30% R. Allen Reese, manager of the Graduate Research Institute of Hull U. in the United Kingdom

- 36% H. W. Vanderleest (1996) response rate after a reminder
- 38% in Slovenia where surveys are uncommon
- 50% Babbie (1990, 1998)
- 60% Kiess & Bloomquist (1985) to avoid bias by the most happy/unhappy respondents only
- 60% AAPOR study looking at minimum standards for publishability in key journals.
- 70% Don A. Dillman (1974, 2000)
- 75% Bailey (1987)

It's enough to make one's head spin. To make matters worse, there is good evidence that response rates for telephone surveys are declining. Reasons for this include increasing concerns about invasion of privacy and misuse of personal information; increased use of call display to filter calls; cynicism (especially among Gen Xers); reduced civic participation in general; and increased requests for survey participation—particularly in satisfaction surveys and program evaluations. (For example, my last car purchase resulted in three surveys from the dealership and Honda Canada.)

It's about representativeness

Response rate is not the best way to judge the accuracy of survey results, but *representativeness* of respondents is. Not all demographic characteristics make a difference. Gary Langer of the ABC News Polling Unit described an instance in which repeated surveys gave the same pattern of answers, even though the respondents differed significantly in demographic characteristics. The main advantage of a high rate of response is in reducing the possibility of a non-representative sample.

Check This Out

American Association for Public Opinion Research http://www.aapor.org/responseratesanoverview

Response rates in publications http://www.srl.uic.edu/publist/Conference/rr-reporting.pdf

Don Dillman's survey technique papers http://www.sesrc.wsu.edu/dillman/papers.htm

Washington Post poll response rates http://www.washingtonpost.com/wp-srv/politics/polls/poll_response_rate.
http://https.com/wp-structure/politics/polls/poll_response_rate.

From Where I Sit

A researcher's favourite weasel words



t depends.
Anyone who
has ever asked a
research consultant what they

thought was a question with a simple answer has probably heard these words. Unlike *The Hitchhiker's Guide to the Galaxy*, where the answer to "life, the universe and everything" turned out to be 42, reality is never that simple. In fact, our tendency to respond with "it depends" makes consultants the bane of lawyers when we take the stand as expert witnesses.

I like to think that an important part of a consultant's work is identifying the right question to ask. For survey research, instead of asking "How many is enough?" the important question is "How do I make sure I have a representative sample?" Likewise, best practices may be about service principles rather than delivery models. The phrase "it depends" is generally the lead-in to the requirements for achieving excellence. So pay attention to what follows those weasel words.



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