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The Turnout Gap in Surveys: Explanations and Solutions

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Abstract

Postelection surveys regularly overestimate voter turnout by 10 points or more. This article provides the first comprehensive documentation of the turnout gap in three major ongoing surveys (the General Social Survey, Current Population Survey, and American National Election Studies), evaluates explanations for it, interprets its significance, and suggests means to continue evaluating and improving survey measurements of turnout. Accuracy was greater in face-to-face than telephone interviews, consistent with the notion that the former mode engages more respondent effort with less social desirability bias. Accuracy was greater when respondents were asked about the most recent election, consistent with the hypothesis that forgetting creates errors. Question wordings designed to minimize source confusion and social desirability bias improved accuracy. Rates of reported turnout were lower with proxy reports than with self-reports, which may suggest greater accuracy of proxy reports. People who do not vote are less likely to participate in surveys than voters are.

Keywords

survey methodology; voter turnout; general social survey; election studies; survey error

Introduction: The Turnout Gap

Researchers have known for decades that postelection survey measurements of voter turnout have routinely been notably inaccurate (e.g., Clausen 1968; Parry and Crossley 1950; Smith 1982). With all sorts of sample designs, data collection modes, and electoral environments, surveys have often produced higher rates of turnout than the rates reported by government elections officials. For example, 62 percent of the voting-eligible population (VEP) voted in the U.S. presidential election in 2008, according to government statistics, yet 77 percent of respondents in the 2008 American National Election Study reported having voted (DeBell and Cowden 2010). We use the term "turnout gap" to describe this discrepancy between the

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Researchers have been concerned about the turnout gap for at least two major reasons. First, errors in measurements of turnout may call into question the scientific conclusions of the empirical literature on turnout. Research has sought to describe voters and nonvoters, to understand the policy and electoral consequences of the differences between them, and to understand why people do and do not vote. When turnout measurements are wrong, such that one-fifth of respondents who analysts think voted were actually nonvoters, then conclusions about the distinguishing characteristics of voters as well as the causes and consequences of turnout may be incorrect. For a time, such distortion was thought not to be substantial (Flanigan and Zingale 1983; Katosh and Traugott 1981; Sigelman 1982). However, differences between self-reported turnout and validated turnout (i.e., individuals' turnout as indicated by official records maintained by elections officials) have been shown to lead to substantively different conclusions about the variables associated with turnout (Ansolabehere and Hersh 2012; Bernstein, Chadha, and Montjoy 2001; Silver, Anderson, and Abramson 1986), constituting more reason to worry about the gap.

A second reason for concern about erroneous turnout measurements is that errors call into question the conclusions of the even larger research literature on candidate choice and election outcomes. If many respondents who say they voted really did not, then parameter estimates in statistical analyses predicting candidate choices may be biased due to the inclusion of fictitious reports of candidate choices by nonvoters.

Despite turnout data's importance for the study of elections, the turnout gap has vexed at least three generations of researchers. Yet a vast amount of data has accumulated from studies employing varied methods that afford new opportunities to explore the methodological factors associated with greater accuracy in these estimates. We do so in this article.

We begin by describing the size of the turnout gap in three major ongoing national surveys: the American National Election Studies (ANES), the General Social Survey (GSS), and the Current Population Survey (CPS). We specify appropriate data for the assay of the gap and offer a caveat regarding potentially misleading reports about the accuracy of data from the CPS. Then we turn to possible explanations for the turnout gap and evaluate, with univariate and then multivariate analyses, the characteristics of data collections that may be related to accuracy: survey mode, survey timing, question wording, proxy reporting, panel attrition, panel conditioning, and response rates.

Describing the Turnout Gap: Data and Method

Turnout statistics based on government records are provided by the U.S. Elections Project (McDonald 2015) for the voting-age population (VAP) and VEP for all national elections held between 1789 and 2012. The VAP turnout rate is the proportion of voting-age Americans who cast a ballot. The VEP turnout rate is the proportion of Americans eligible to register and vote who cast a ballot, which excludes noncitizens and citizens disenfranchised by certain criminal convictions.

We obtained survey estimates of voter turnout from the ANES, GSS, and CPS from the earliest year available through 2008, which is the last presidential election year for which turnout estimates were available from all three studies at the time we did these analyses. These are among the most widely used data sets in the social sciences generally and in the study of elections in particular. They are also well suited to a comparison of methodological details because of their varied research methods and their records spanning dozens of studies over several decades.

ANES—The ANES time series includes surveys of area probability samples of noninstitutionalized American citizens conducted approximately biannually since 1948. In presidential election years, respondents have been interviewed both before and after the election. In years without a presidential election, respondents have usually been interviewed only postelection. Data collection was almost always exclusively via face-to-face interviewing.

The ANES has used several different question wordings to assess turnout and has implemented some split-half experiments to compare results obtained by different question wordings. Most common were the following wordings:

In [Election year] [Democratic candidate] ran on the Democratic ticket against [Republican candidate] for the Republicans. Do you remember for sure whether or not you voted in that election?

In talking to people about elections, we often find that a lot of people were not able to vote because they weren't registered, they were sick, or they just didn't have time. How about you—did you vote in the elections this November?

GSS—The GSS has collected data from area probability samples of noninstitutionalized American adults annually from 1972 to 1993 and biannually since 1994. Respondents were interviewed mostly face-to-face, though some respondents in recent years were interviewed by telephone.

The GSS measured turnout with the following question:

In [Election year], you remember that [Democratic candidate] ran for President on the Democratic ticket against [Republican candidate] for the Republicans. Do you remember for sure whether or not you voted in that election?

GSS interviews occur before November, so the questions refer to elections in past years. For example, GSS turnout reports for the 2004 election come from GSS interviews in 2006 or later because the 2004 GSS occurred before the 2004 election.

CPS—The CPS is a monthly survey of about 50,000 households conducted by the Bureau of the Census for the Bureau of Labor Statistics. The sample represents the U.S. civilian noninstitutional population. Every two years, a voting and registration supplement has been added to the CPS in November following national elections. In each household, at least one person served as the informant and provided self-descriptions, and in some cases, informants

provided reports about other household members (i.e., proxy reports). The CPS has gauged turnout by asking the following question:

In any election, some people are not able to vote because they are sick or busy or have some other reason, and others do not want to vote. Did [you/name] vote in the election held on [date of election]?

More details about the data and methods used for the present project to study 67 ANES, GSS, and CPS data sets are described in Online Appendix 1, including the response rates and sample sizes for all surveys that were examined.

Describing the Turnout Gap

In comparison to the official government-reported turnout rates (VEP and VAP), the ANES, GSS, and CPS significantly overestimated turnout in the VEP in almost every survey year, with the CPS being more accurate on average (10 percentage point error) than the GSS (15 points) and the ANES (17 points; see Online Appendix Table A4).

Comparison of these three figures is hampered by the fact that the surveys differed in which elections they asked about. Limiting the comparison to the elections for which all three surveys provided estimates and using only reports about the most recent election (i.e., the same year for the ANES and CPS and the election one or two years prior for the GSS), the gaps for the nine presidential election years 1976 through 2008 averaged 11 points for the CPS, 13 for GSS, and 17 for ANES (see Figure 1).

A Correction to Census Estimates

These CPS turnout gaps are much larger than the gaps indicated in reports published by the U.S. Census Bureau on the same data (e.g., File and Crissey 2010). For example, the Census Bureau reported an estimated turnout rate of 63.6 percent of the voting-age citizen population in 2008, meaning a turnout gap of just 1 percentage point. However, this apparent accuracy is an artifact of a particular way of handling missing data, assuming that all respondents about whom no data were collected did not vote (see also Gera et al. 2010; Hur and Achen 2013).

In the CPS, for more than 10 percent of the household members, turnout data are missing because the self-reporter or the proxy reporter failed to answer the turnout question or because the interviewer did not administer the voting and registration supplement questionnaire at all.¹ When the Census Bureau computed turnout rates using their survey data, these missing data points were all included in the denominator of the turnout rate but were excluded from the numerator, reflecting the assumption that *none* of these people voted. In 2008, this amounts to the assumption that 28.4 million Americans (about 14 percent of the adult citizen population in 2008) were nonvoters simply because no turnout data were collected about the survey sample's representatives of those people.

¹.Interviewers have been given the discretion to opt out of administering the supplement to a respondent if they believe that administering it might reduce the person's willingness to be interviewed in future waves of the Current Population Survey (CPS).

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The conventional default approach to handling missing data is listwise deletion. That means excluding from both the numerator and the denominator the cases with missing data and reporting an estimate for the cases for whom data are complete. This straightforward approach yields a 2008 CPS turnout estimate of 73.8 percent and a turnout gap of 11.5 percent (see Online Appendix Table A4; all the other estimates in Table A4 are based on the same method.).

Instead of eliminating household members about whom turnout reports were not obtained, it is possible to implement model-based imputation to guess whether they voted or not. When we did this, it yielded a nearly identical turnout gap of 10.9 percentage points (see the Online Appendix for details).

This sort of correction to CPS estimates is important because it shows that the turnout gap in the CPS is large instead of negligible and also because listwise deletion of missing data and model-based imputation change the apparent characteristics of nonvoters. For example, if people with lower incomes are less likely to respond to the survey and are also less likely to vote (which they are), then this correlation between nonresponse and non-voting causes bias in the survey estimates of the characteristics of nonvoters, and the Census Bureau's method hides but does not correct some of that bias by making nonvoters look more similar to voters than they really are, as shown in Table 1.

The final columns of Table 1 show the difference between the CPS method and the listwise deletion method in terms of the proportion of nonvoters in each of various demographic categories.² Many of these differences are small, but the differences tell a consistent story: The listwise deletion approach reveals bigger differences between voters and nonvoters. With listwise deletion, nonvoters are younger (33 compared to 30 percent, aged 18–29), less educated (7 compared to 11 percent with a bachelor's degree), more likely to have moved in the past year (22 compared to 14 percent), more likely to have not moved in the past five years (47 compared to 31 percent), and poorer (24 compared to 22 percent earning under US\$20,000/year and 29 compared to 32 earning over US\$60,000) than the CPS method would indicate.³ Fewer nonvoters appear to be black than the CPS method implies, although high turnout among blacks for Barack Obama's election may make 2008 unusual in this respect.

Explaining the Turnout Gap: Likely Factors

Having described the magnitude of the turnout gap in the major surveys, we turn now to methodological explanations for it. We examined six factors that may cause the turnout gap: mode (face-to-face vs. telephone interviewing), elapsed time between the election and the survey interview, question wording, self-reporting versus proxy reporting, panel attrition and conditioning, and response rates. We begin by outlining our hypotheses and then report tests of all of them.

²·What we refer to as the "CPS method" or "Census method" is the definition of nonvoters implied by the voter turnout calculation the Census Bureau has used in the past. To our knowledge, the Census Bureau has never presented descriptive statistics for nonvoters using this method. ³ Due to the enormous CPS sample size, all differences exceeding 1 percentagepoint are statistically significant at p < .05.

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Mode—Answers to questions about political behavior are sometimes affected by social desirability bias: The tendency of some respondents to give answers that they think will be viewed favorably by others. Scholarship exploring the effect of interview mode on this tendency has revealed that face-to-face interviewing is less susceptible to social desirability bias than telephone interviewing (Holbrook, Green, and Krosnick 2003). With regard to turnout measurement, social desirability bias might be manifested through respondents claiming to have voted or claiming not to know whether they voted when they know they did not. Survey mode might also affect turnout reports by influencing survey satisficing: The tendency of some survey respondents to give the first answer that comes to mind that seems acceptable rather than thinking carefully to come up with the most accurate answer to a question. Satisficing may lead respondents to misreport that they voted when they did not. In order to explore the association of interview mode with the overstatement of turnout, we compared rates of reported turnout in the ANES, GSS, and CPS when collected via telephone interviewing versus face-to-face interviewing.

Elapsed Time—Another factor that might cause the turnout gap is recollection inaccuracy. The GSS has asked respondents exclusively about their voting behavior in elections held at least a year prior to the interview, whereas the ANES and CPS asked about elections held just days or weeks earlier, as well as elections in prior years. Interviewing sooner after Election Day may enhance respondents' ability to accurately recall what they did on Election Day. Consistent with prior literature (e.g., Stocke 2007), we hypothesized that the turnout gap may increase when more time has passed between Election Day and the survey interview.

Question Wording—Differences between the ANES, GSS, and CPS in terms of the wordings of questions measuring turnout are confounded with other design differences between the surveys, so comparisons of these surveys with one another cannot reveal effects of question wording. And the GSS and CPS question wordings have not changed notably over the years, so comparisons within those data streams cannot be implemented to investigate question wording effects. Fortunately, however, the ANES has used three different wordings of turnout questions and conducted experiments involving random assignment of respondents to question wordings in 2002, 2004, and 2008. To provide a context for these experiments, we first review the question wordings that have been employed in all the surveys.

In 1952, 1956, 1962, 1966, 1968, 1970, 1972, 1976, 1980, 1984, 1988, 1992, 1994, 1998, and 2004, ANES respondents were asked:

In talking to people about elections [some years: "the election" in place of "elections"], we [1972 and later "often"] find that a lot of people were not [some years: "weren't" in place of "were not"] able to vote because they weren't registered, [some years "or"] they were sick, or they just didn't have time.

(1952–1960: How about you, did you vote this time?)

(1972–1976: How about you, did you vote in the elections this fall?)

(1978 and later: How about you, did you vote in the elections this November?)

The preamble of this question was presumably intended to reduce social desirability bias by legitimating nonvoting. However, the invitation of a "yes or no" response (in all years except 1964–1970) makes the question subject to acquiescence bias (Cronbach 1950, Krosnick and Presser 2010). However, one study challenges this assertion (Abelson, Loftus, and Greenwald 1992).

In 2002, 2004, and 2008, half of the ANES the sample was randomly assigned to be asked the following question, and all respondents in the 2000 ANES were asked it:

In talking to people about elections, we often find that a lot of people were not able to vote because they weren't registered, they were sick, or they just didn't have time. Which of the following statements best describes you?

One, I did not vote (in the election this November)

Two, I thought about voting this time - but didn't

Three, I usually vote, but didn't this time; or

Four, I am sure I voted?

By avoiding yes/no response options, this question wording avoids inviting acquiescence, and the wording is also intended to reduce social desirability pressures by allowing nonvoters to express their identity as habitual voters (option three) or potential voters (option two).

In the 2008 ANES, a new series of turnout-related questions, with a new introduction, were asked to reduce social desirability bias and recall errors. Half of the sample was asked:

In asking people about elections, we often find that a lot of people were not able to vote because they weren't registered, they were sick, they didn't have time, or something else happened to prevent them from voting. And sometimes, people who usually vote or who planned to vote forget that something unusual happened on Election Day one year that prevented them from voting that time. So please think carefully for a minute about the recent elections, and other past elections in which you may have voted, and answer the following questions about your voting behavior.

During the past 6 years, did you USUALLY VOTE in national, state, and local elections, or did you USUALLY NOT VOTE?

During the months leading up to the elections that were held on November 4, did you ever plan to vote, or didn't you plan to do that? Which one of the following best describes what you did in the elections that were held November 4?

1. Definitely did not vote in the elections

- 2. Definitely voted in person at a polling place on election day
- 3. Definitely voted in person at a polling place before election day
- 4. Definitely voted by mailing a ballot to elections officials before the election
- 5. Definitely voted in some other way
- 6. Not completely sure whether you voted or not

This question sequence was designed to allow respondents to express their habit as a habitual voter, to express their intention to vote, to indicate that they voted only if they were sure, and to express uncertainty if they were not sure. Although some experiments have shown that similar questions failed to improve accuracy relative to simpler, shorter questions (Belli, Traugott, and Rosenstone 1994), other experiments have had greater success (Belli et al. 1999; Belli, Moore, and Van Hoewyk 2006; Hanmer, Banks, and White 2014; Holbrook and Krosnick 2013), and some scholars have noted the differing results from the two ANES versions asked in 2002 (Duff et al. 2007).

Self-reporting Versus Proxy Reporting—Although all turnout measurement in the ANES and GSS has been done via self-reporting (whereby the respondent reports information about himself or herself), CPS measurements are a mix of self-reports and proxy reports (whereby an informant gives information about someone else in his or her household). Proxy reports are thought to be reasonably accurate when measuring earnings in the CPS (Bollinger and Hirsch 2007) and in some medical measurement exercises as well (e.g., Cobb et al. 1956; Thompson and Tauber 1957). But study design limitations in the accumulated literature evaluating proxy reports mean that we do not generally know whether proxy reports are as accurate as self-reports (Cobb, Krosnick, and Pearson 2011). One might be inclined to presume that if anything, proxy reports will be less accurate than self-reports. But if people are reluctant to admit not voting when providing self-reports, it is possible that proxies might more readily report that a fellow household member did not vote, thereby revealing the truth. We explored this possibility with CPS data, which have previously been found to reveal a reduction in the turnout overestimation in the CPS in 1992, 1996, and 2000 (Highton 2005).

Panel Attrition and Conditioning—In the ANES preelection interviews during presidential election years, respondents were typically interviewed for an hour or more on the subject of politics and were asked to predict whether they will vote in the upcoming presidential election. Both could increase their propensity to vote because being interviewed about a topic can increase interest in that topic (Bridge et al. 1977) and because behavior predictions can become self-fulfilling prophesies (Greenwald et al. 1988; Spangenberg and Greenwald 1999), enhancing the turnout gap in postelection interviews. A number of studies yielded evidence consistent with the claim that interviews about politics or predictions of turnout can increase actual turnout (Anderson, Silver, and Abramson 1988; Clausen 1968; Granberg and Holmberg 1992; Greenwald et al. 1987; Kraut and McConahay 1973; Spangenberg and Greenwald 1999; Yalch 1976), though other studies did not find such effects (Mann 2005; Smith, Gerber, and Orlich 2003). Furthermore, about 10 percent of ANES preelection respondents were not interviewed again after the election, and if these

We examine panel attrition effects on reported turnout by taking advantage of a turnout question in preelection questionnaires. In most presidential election years between 1952 and 2008, preelection respondents were asked whether they voted in the last presidential election, four years before.⁴ If habitual nonvoters disproportionally fail to complete postelection interviews, then we should find an association between the amount of panel attrition that occurred in a year and reported retrospective turnout in the previous election interview. Specifically, respondents who reported having not voted in the previous election should be less likely to complete the postelection respondents to the retrospective turnout rate reported by preelection respondents to the retrospective turnout rate reported by preelection respondents who also completed the postelection interview. Although other confounds might affect this test (such as recall error possibly being correlated with attrition), such a test of panel attrition effects is unaffected by panel conditioning because the analysis uses only data from preelection survey respondents.

Response Rates—Response rates per se do not indicate survey accuracy (Groves 2006). However, response rates below 100 percent indicate the potential for nonresponse bias to reduce accuracy, and this potential increases as response rates fall.

Scholarly literature has explored the effect of declining response rates on the accuracy of national surveys' turnout estimates, but the findings have been contradictory. Using ANES data, Burden (2000:389) concluded that "worsening presidential turnout estimates are the result mostly of declining response rates rather than instrumentation, question wording changes or other factors," but Martinez (2003) showed that this finding is contingent upon using the less-appropriate VAP turnout rate and that when the VEP is examined, the relationship between response rate and turnout gap disappears. McDonald (2003:180) analyzed VEP turnout rates and showed that "the post-1976 rise in ANES response rates (until 2000) is rewarded in a lower turnout gap." Meta-analysis involving other studies and variables has found that the relationship between unit nonresponse rates and nonresponse bias is usually weak at best (Groves and Peytcheva 2008).

Olson and Witt (2011) found that the likelihood of older respondents and of white respondents completing the ANES postelection interview was greater recently than a few decades ago. These groups usually have higher turnout rates than younger respondents and nonwhite respondents. So losing fewer of those people recently will cause turnout rates among respondents to be higher than they used to be. Peress (2010) reported evidence suggesting that nonresponse bias is a major contributor to the ANES turnout gap, but his method assumes that validated turnout reports are accurate, which may not be true (Berent, Krosnick, and Lupia 2011, 2016).

^{4.}Data from 1956 respondents who did not complete the postelection study werenot retained in the American National Election Studies (ANES) archives. This turnout question was not asked in 1984. This turnout question was asked post-election in 1988.

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Reported CPS response rates have been exceptionally high, exceeding 90 percent, which makes it seem on first inspection that there is very little room for nonresponse error to contribute to CPS overestimates of turnout. But this is not the case for at least two reasons. First, the response rate for the voting and registration supplement is lower than 90 percent because interviewers are permitted to choose not to administer it.⁵ Second, the population coverage of the CPS sample is below 90 percent, as we explain next.

The Census Bureau reports a household-level response rate of 91.2 percent for the November 2008 basic monthly survey and a person-level noncumulative response rate of 89.7 percent for the voting and registration supplement (i.e., 89.7 percent of household members about whom supplement respondents could have been collected in interviewed households; U.S. Census Bureau 2008). Because we cannot know how many people about whom data should have been collected in households that were not interviewed, it is impossible to compute a person-level response rate for the main CPS survey or the supplement. However, if we assume that the nonresponding households were, on average, the same size as the responding households, this would imply a person-level overall response rate for the supplement of 81.8 percent (91.2 percent \times 89.7 percent).

Whereas the response rate is the proportion of eligible sample members who complete the interview, the coverage rate is the proportion of population members who could have been included in the sample. Noncoverage occurs, for example, when housing units are not present on a list used for list-based sampling and when household members are not listed during household screening. The CPS coverage proportion in 2008 was about .88, and coverage rates were similar in other recent years (U.S. Census Bureau 2006a, 2008). Thus, about 12 percent of the population had no chance to be included in the CPS sample.⁶

Nonresponse and undercoverage combined suggest that the proportion of the population that is properly represented by the CPS voting and registration supplement file may be about 72 percent (.912 basic monthly survey response rate \times .897 supplement response \times .88 coverage = .72), which leaves considerably more room for sample composition bias to affect the turnout estimates than is implied by the basic response rate.

We examined the relationship between the response rates and the amount of turnout overestimation. We did so, first, by looking at response rates across the set of ANES, CPS, and GSS studies presented here.⁷ Second, we exploited the statistical power and state-level representation afforded by the CPS data to examine the relationship between the turnout gap and the CPS response rates by state and by year. We use CPS data from each even-numbered year from 1980 through 2010 and treat each state and DC as a separate case, meaning 51 areas in 16 surveys or 816 cases for analysis (Bauman 2012).⁸

⁵. The Census Bureau does not report that response rate.

⁶. Undercoverage affects the ANES and General Social Survey (GSS), too.

^{7.} We examine the effects of response rates across studies but not by mode. Response rates can be much higher in face-to-face interviews than on the telephone, and in principle, the turnout gap could be affect by mode-based differences in nonresponse. However, the current studies (with one exception of ANES in 2002) use the telephone as a second mode within studies also conducted face-to-face. As such, they do not report response rates separately by mode, so we cannot analyze how differential nonresponse rates across modes affect the turnout gap.⁸. We thank Kurt Bauman for demonstrating this analysis and providing the data.

Explaining the Turnout Gap: Findings

Having outlined our hypotheses, we next describe findings regarding data collection mode, elapsed time between the election and the interview, question wording, self-reporting versus proxy reporting, panel attrition, panel conditioning, and response rates. Then we discuss limitations of that evidence due to confounds in the nonexperimental variation of methods across respondents, and we present the results of a multivariate analyses that control for as many of those confounds as possible. This analysis will clarify which factors are more likely to contribute to the turnout gap.

Mode—In all three surveys, telephone interviews yielded a larger turnout gap than did face-to-face interviews. In the ANES, face-to-face interviewing led to an average turnout gap of 16 percent versus a 19 percent average gap for telephone interviews (see Table 2). In the GSS, face-to-face interviewing yielded an average overestimation of 13 percent versus 17 percent by telephone. CPS face-to-face interviewing yielded an average turnout gap of 11 percent versus 18 percent by telephone interviewing. CPS results suggest that telephone interviewing had a larger distorting effect than did face-to-face interviewing by 7 percentage points.

The 1996 ANES included an experiment with random assignment to mode for the postelection interview. As expected, respondents who completed the interview in person had a VEP turnout overreport of 18.4 points compared to 21.7 points on the telephone, but this difference is not statistically significant. This nonsignificant difference is of about the same magnitude as that observed in the observational comparisons of telephone and face-to-face data in the ANES and GSS: 2.5 to 4.0 percentage points.

Elapsed Time—The ANES yielded smaller turnout gaps when questions asked about elections in the same year as the interview, whereas the ANES turnout measurements were less accurate when respondents were asked about turnout in prior years. The average turnout gap (VEP) for "same year" surveys is 15 points compared to 19 points for elections in previous years (see Online Appendix Table A4). The CPS measured turnout in prior years only in the 1970s and 1980s, and in these years, the previous year gaps were smaller than the same year gaps: 7 points compared to 11 points. In recent years, the ANES overestimation for turnout in previous year elections has increased, widening the turnout gap for elections whose year of occurrence is not identical to the survey year.

Question Wording—Question wording experiments were included in the ANES in 2002, 2004, and 2008. The new version of the turnout question asked in 2002 and 2004 outperformed the traditional question, cutting the turnout gap from 24 to 16 points in 2002 and from 19 to 12 in 2004 (see Table 3). However, in 2008, the difference between the two forms of the question was nil (15.25 compared to 15.26).

Reporter (Self vs. Proxy)—In the CPS, the largest differences in accuracy are seen when we examine interview mode and self- versus proxy reporting simultaneously. Face-to-face proxy reports yielded the smallest average overestimation (three points), whereas telephone self-reports yield the largest (16 points; see Table 4). In both interview modes, proxy reports

significantly and consistently yielded lower reported turnout rates than did self-reports: four points on average for face-to-face interviews and six points on average for telephone interviews. This finding is consistent with the hypothesis that the social desirability bias may be alleviated when people report the turnout of other household members because respondents may be less motivated to cultivate favorable presentations of others than of themselves.⁹

Panel Attrition—In 12 ANES presidential-year surveys between 1952 and 2008, preelection respondents were asked whether they voted in the previous presidential election. If bias in turnout estimates is caused by biased panel attrition, then we should find that the turnout rate reported by the subset of those respondents who completed the postelection interview is significantly higher than that reported by respondents who did not complete the postelection interview. However, this difference ranged from 0.0 to 2.3 percentage points and averaged only 1.0 (see Table 5). This means that biased attrition contributed to the turnout gap but only to a small degree.

Response Rate—As expected, a higher response rate was associated with a smaller turnout gap. In a regression treating each ANES, CPS, and GSS estimate as the unit of analysis and predicting the survey's turnout gap with its response rate, a 10-pointimprovement in response rate is associated with a reduction in the turnout gap of 1.7 percentage points (b = -.17, SE = .04, n = 104, p < .001).

The CPS provides unique leverage to examine the relationship between nonresponse and the turnout gap at the state level because, unlike the ANES and GSS, the CPS provides subsamples that are representative of the states. Using a data set that separated results from each voting and registration supplement between 1980 and 2010 into results for individual states (Bauman 2012), we estimated regression coefficients predicting the turnout gap (treating nonresponses as missing data) with the government-reported turnout rate in the state, the proportion of respondents who were asked but did not answer the turnout question, the proportion of unit nonresponse on the voting and registration supplement, and dummy variables for years (see Table 6). The turnout gap was smaller when official turnout was higher, and the turnout gap grew larger as the amounts of missing data and unit nonresponse increased. A 10-point increase in actual turnout is associated with a 2.1-point reduction in the turnout gap. And a 10-point increase in nonresponse to the whole survey is associated with a 2.4-point increase in the turnout gap.

Confounds of Mode and Reporting—None of the data discussed thus far involved random assignment to mode (except the 1996 ANES), self-reporting versus proxy reporting, or elapsed time between the election and the survey interview, or experimental manipulation of response rate. Therefore, all data discussed thus far are observations and subject to alternative explanations. For example, in the CPS and the GSS, telephone interviews were sometimes done with respondents who were too difficult to reach to complete a face-to-face

⁹. When the size of self-reports' impact on overestimation is more precisely measured, different weights may be designed by the CPS for respondents self-reporting versus proxies.

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interview. Thus, turnout differences by mode are confounded with turnout differences by accessibility to the interviewer. Similarly, in the CPS, household members decide who will be described by self-reports and who will be described by proxy reports, so differences between self-reports and proxy reports may be due to differences in the characteristics of self-selected household informants and other household members and not due to differences between self-reporting and proxy reporting per se.

To eliminate variation across surveys in respondent self-selection, mode, and attrition, we examined the turnout rates only for ANES and CPS respondents who lived in singleadult households (and therefore all provided self-reports) and who were interviewed faceto-face. Furthermore, in the CPS, we only examined data from the first of eight waves of interviewing of each single-household member to eliminate panel attrition and panel conditioning.

In the 2008 ANES and CPS, turnout estimates were slightly lower in this subgroup of respondents, 76.3 percent and 71.5 percent, respectively (ANES n=756, CPS n=1,273), than in the entire survey samples: 77.4 percent and 73.8 percent. The slightly higher numbers for the full CPS samples (which include a mix of self-reports and proxy reports) are inconsistent with the conclusion that including the proxy reports reduces reported turnout rates, but we do not know the true turnout rates for these subgroups.

Multivariate Prediction of the Turnout Gap—To compare several results and control for more than one variable at a time, we present estimates of the parameters of ordinary least squares regression equations predicting the turnout gap (Table 7). Each column is a regression equation. The dependent variable is the VEP turnout gap, coded as the percentage point error (so a value of 10.5 represents a VEP turnout estimate that is 10.5 percentage points greater than the official VEP estimate based on official government records.). The predictors included: Telephone is a dummy variable indicating whether any data for the survey were collected by phone, with a reference category of exclusively face-to-face data collection; elapsed time is the difference in years between the year of the survey interview and the year of the election;¹⁰ response rate is the survey's response rate as shown in Online Appendix Table A1; ANES and GSS data are dummy variables indicating these data sources, with the CPS as the reference category; presidential is a dummy variable indicating if the election being asked about was in a presidential election year; year is the year of the election being asked about (coded 1952, 1956, etc.).¹¹

Models 1 to 3, using ANES data only, reveal no statistically significant association between the response rate and the turnout gap, regardless of whether controlling for study year or presidential election year or not (see Table 7). Models 4, 5, 6 and 7 test for an association between response rate and the turnout gap in the CPS alone, the GSS alone, all studies combined, and all studies combined done in presidential election years, respectively. The

 ^{10.} A 2008 interview asking about the 2008 election has an elapsed time of 0; a 2008 interview asking about the 2004 election has an elapsed time of 4.
 11. Note that the model specifications for the analyses in Table 7 differ from themodel specified in Table 6 of necessity. We cannot

¹¹Note that the model specifications for the analyses in Table 7 differ from themodel specified in Table 6 of necessity. We cannot develop a model like that in Table 6 for the combined data sets of the three studies because the ANES and GSS are not representative at the state level, and we cannot develop an equivalent model for the three studies nationally because it would be overspecified for the small number of national data sets available.

estimates of the parameters of the models including all studies (6, 7, and 8) show that the turnout gap was a little smaller when the response rate was higher: about a one-point reduction in the turnout gap for a six-point increase in response rate. Model 9 uses data from all studies and includes all control variables. This suggests that elapsed time after an election inflates the turnout gap by a fraction of a point per year. Response rate was not a statistically significant predictor of the turnout gap.¹²

Discussion

Collectively, these findings support several conclusions:

The turnout gap is substantial in all three studies and has remained so for decades. The CPS gap is larger than the Census Bureau has reported, but the CPS gap is smaller than the gaps in ANES and GSS estimates, and the ANES gap is largest.

The turnout gap seems partly to be due to social desirability response bias, as evidenced by the fact that the gap is smaller in face-to-face interviews than in telephone interviews (consistent with prior literature such as Holbrook et al. 2003), smaller in (self-selected) proxy reports than in self-reports, and smaller when question wording allows respondents to say they usually voted and thought about voting in this election before acknowledging that they did not.

The turnout gap seems also to be partly due to recall errors because the gap grows as more time passes between the election and the survey interview.

Acquiescence response bias may also inflate the turnout gap. The gap is reduced when, instead of the conventional yes/no question format, respondents are offered balanced, construct-specific response options.

Biased nonresponse appears partly responsible for the gap, in that people who do not vote are especially unlikely to participate in surveys.

Panel attrition in the ANES from the preelection interview to the postelection interview seems to inflate the turnout gap.

The conclusion about biased nonresponse is bolstered by other work. For example, Burden (2000) demonstrated that self-reported turnout in the ANES is higher among respondents who were easier to interview. Voogt and Van Kempen (2002) similarly found that nonrespondents in the Dutch National Election Study (who answered a nonresponse followup study) were less likely to report voting than respondents were. Like-wise, findings reported by Berent et al. (2016) suggest that in a recent ANES survey done online, survey participants were more likely to vote than were nonrespondents. Peress (2010) also analyzed ANES data and reached the same conclusion.

Berent et al. (2016) found that the turnout gap was small in a recent online survey. Our results can be reconciled with theirs by noting that whereas the data we focus on were collected by interviewers, Berent et al.'s respondents completed self-administered questionnaires via the Internet. And whereas we focus on surveys that measured turnout

¹².Controlling for the government-reported actual turnout rate had no significant effect on the results.

using question wordings that are susceptible to acquiescence response bias, Berent et al.'s wording was designed to avoid this bias. And we have shown that turnout rates are reduced when reports are collected via a mode that minimizes social desirability bias and when wording avoids acquiescence as well. Thus, our findings help explain why the surveys we examine manifest more overreporting than Berent et al. observed.

The turnout gap is partly attributable to measurement error and partly attributable to nonresponse bias. To minimize measurement error among surveys employing interviewers, survey designers might choose from a tool kit that includes proxy reporting, nontelephone interviews, and questions designed to minimize satisficing (including acquiescence) and social desirability. To minimize nonresponse bias and its effects, survey researchers should favor methods that produce higher response rates, recruitment techniques that minimize basing a decision to participate in a survey on interest in politics, and weighting that accounts for response propensity's correlation with turnout.

Supplementary Material

Refer to Web version on PubMed Central for supplementary material.

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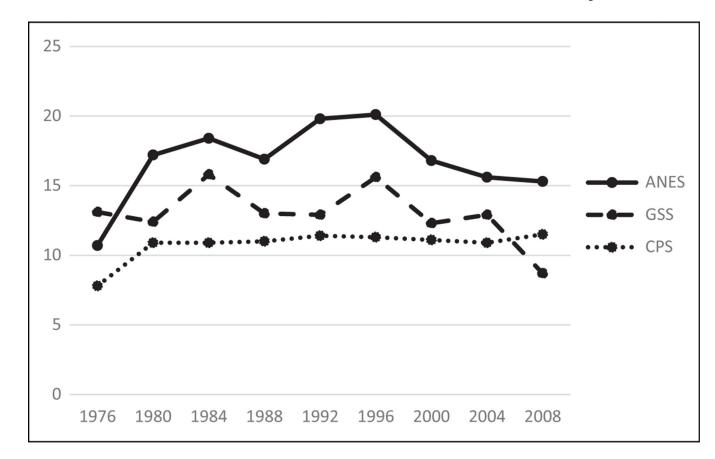


Figure 1.

Turnout gaps in ANES, GSS, and CPS: 1976–2008. ANES = American National Election Studies; CPS = Current Population Survey; GSS = General Social Survey.

Table 1.

Percentage of Voters and Percentage of Nonvoters With Selected Characteristics: 2008.

			Nonvoters	
Characteristics	Voters	Census Method	Listwise Method	Method Difference
Age				
18–29	17.7	30.4	33.1	2.7
	(0.19)	(0.31)	(0.40)	(0.50)
30–69	69.2	59.7	57.1	-2.6
	(0.23)	(0.33)	(0.42)	(0.53)
70+	13.1	9.9	9.8	-0.1
	(0.17)	(0.20)	(0.25)	(0.32)
Male	46.3	51.2	52.8	1.6
	(0.25)	(0.33)	(0.42)	(0.54)
Bachelor's degree	22.3	10.9	7.3	-3.6
	(0.21)	(0.21)	(0.22)	(0.30)
Advanced degree	11.5	3.9	2.2	-1.7
	(0.16)	(0.13)	(0.12)	(0.18)
Black	12.9	12.9	9.9	-3.0
	(0.20)	(0.27)	(0.31)	(0.41)
Hispanic	5.2	9.9	11.1	1.2
	(0.17)	(0.31)	(0.42)	(0.52)
Parent	67.8	53.9	52.4	-1.5
	(0.23)	(0.33)	(0.42)	(0.54)
Disabled	3.1	6.4	7.7	1.3
	(0.09)	(0.16)	(0.23)	(0.28)
Moved in last year	10.6	14.2	21.8	7.6
	(0.15)	(0.23)	(0.35)	(0.42)
Not moved in last five years	62.6	31.0	46.5	15.5
	(0.24)	(0.31)	(0.42)	(0.52)
Employed or retired	84.4	72.6	69.9	-2.7
	(0.18)	(0.30)	(0.39)	(0.49)
Veteran	12.0	8.7	8.3	-0.4
	(0.16)	(0.19)	(0.23)	(0.30)
Southern	34.2	37.2	39.1	1.9
	(0.23)	(0.32)	(0.41)	(0.52)
Married	58.9	42.2	39.5	-2.7
	(0.24)	(0.33)	(0.41)	(0.53)
Family income				
Under US\$20,000	11.7	22.2	24.2	2.0
	(0.16)	(0.28)	(0.36)	(0.46)
US\$20,000–US\$34,999	14.9	21.3	22.5	1.2
	(0.18)	(0.27)	(0.35)	(0.45)

			Nonvoters	
Characteristics	Voters	Census Method	Listwise Method	Method Difference
US\$35,000–US\$59,999	23.2	24.6	24.8	0.2
	(0.21)	(0.29)	(0.37)	(0.47)
US\$60,000 or more	50.2	32.0	28.5	-3.5
	(0.25)	(0.31)	(0.38)	(0.49)

Source: Current Population Survey, Voting and registration supplement, November 2008. Note: n = 85,587. Sampling errors are in parentheses and are based on generalized variance parameters. "Listwise method" deletes missing data listwise. "Census method" includes missing data in denominator.

Table 2.

Average Turnout Gap by Mode.

	Turnout G	Gap (Percent)
Survey	Telephone	Face-to-Face
ANES	19	16
GSS	17	13
CPS	18	11

Note: ANES data 1952–2008 for face-to-face; ANES data 1984–2002 for telephone; GSS data 2004–2008; CPS data 1974–2008. ANES = American National Election Studies; CPS = Current Population Survey; GSS = General Social Survey.

Table 3.

ANES Question Wording Experiments: Turnout Gaps in 2002, 2004, and 2008.

Question	2002	2004	2008
2008 new question	_	_	15
Which one of the following best describes what you did in the elections that were held November 4?			
1. Definitely did not vote in the elections			
2. Definitely voted in person at a polling place on election day			
3. Definitely voted in person at a polling place before election day			
4. Definitely voted by mailing a ballot to elections officials before the election			
5. Definitely voted in some other way			
6. Not completely sure whether you voted or not 2002 and 2004 new question	16	12	15
In talking to people about elections, we often find that a lot of people were not able to vote because they weren't registered, they were sick, or they just didn't have time. Which of the following statements best describes you? One, I did not vote (in the election this November); Two, I thought about voting this time - but didn't; Three, I usually vote, but didn't this time; or Four, I am sure I voted?			
Traditional question	24	19	_
In talking to people about elections, we often find that a lot of people were not able to vote because they weren't registered, they were sick, or they just didn't have time. How about you, did you vote in the elections this November? How about you, did you vote in the elections this November?			

Note: ANES = American National Election Studies.

Table 4.

CPS Turnout Gap by Mode and Report.

			Face-to-fac	e Mode			Telephone	e Mode	
		Self-report	ts	Proxy Repo	rts	Self-repor	ts	Proxy Repo	orts
Year	VEP Turnout	Estimated Turnout	Gap	Estimated Turnout	Gap	Estimated Turnout	Gap	Estimated Turnout	Gap
2008	62	70	8	65	3	79	16	72	10
2006	41	50	9	45	4	60	18	53	11
2004	61	68	7	63	3	76	16	71	10
2002	41	48	7	45	4	56	16	50	10
2000	55	63	8	58	2	71	16	65	10
1998	39	47	7	44	5	53	13	48	8
1996	52	59	7	54	3	68	16	62	10
Average			8		3		16		10

Source: Current Population Survey, indicated years, November supplements.

Note: "VEP turnout" is the turnout rate among the voting eligible population based on government turnout data. Sampling errors are less than 1 percentage point using generalized variance estimation. CPS = Current Population Survey.

Table 5.

Year Preelection Estimate of Turnout in Election Four years Ago Attrited Estimate Attrition Effect (Difference) 1952 70.7 0.8 69.8 0.6 1960 76.1 76.8 80.6 80.9 0.3 1964 1968 76.6 76.5 0.0 1972 75.9 1.5 74.4 1976 71.6 72.8 1.3 1980 72.7 73.3 0.6 1992 66.7 67.0 0.3 77.4 1996 75.6 1.8 2000 65.5 67.8 2.3 2004 65.5 66.9 1.5 2008 68.2 67.2 1.0 Average 71.9 72.8 1.0

Effect of ANES Panel Attrition on Retrospective Turnout Estimates, 1952–2008.

Note: Differences may not add due to rounding error. ANES = American National Election Studies.

Table 6.

Predictors of CPS Turnout Gap by State.

Variable	Coefficient
Actual turnout	21 *** (.014)
Item missing data	.21***(.049)
Unit missing data	.24 *** (.056)
1982	.00 (.006)
1984	.01 (.006)
1986	01 (.007)
1988	.01 (.006)
1990	01 (.006)
1992	.02**(.006)***
1994	03 (.006)
1996	.00 (.006)
1998	03 *** (.007)
2000	.00 (.006)
2002	02***(.007)
2004	.01 (.007)
2006	01 (.007)
2008	.01 (.007)
2010	02 (.008)
Constant	.17 (.010)
R^2	.35
п	816

Note: CPS = Current Population Survey.

** p<.01.

*** p<.001.

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Table 7.

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Predictors of Turnout Gap (OLS Regression).

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8	Model 9
Variable	ANES Off-years Only	ANES, All Same Year Estimates	ANES, All Same Year Estimates	CPS	GSS	All Studies	All Studies, Presidential Years	All Studies	All Studies
Telephone									-1.73 (1.43)
Elapsed time									0.65 * (0.27)
Response rate	-0.09	-0.10	0.01	-0.51	0.21	-0.17 **	-0.17 **	-0.16	00.00
	(.124)	(0.08)	(0.13)	(0.32)	(0.15)	(0.05)	(0.06)	(0.05)	$(0.1 \ 1)$
ANES data									4.46 (2.86)
GSS data									2.20 (2.26)
Presidential		0.92	1.71					1.68	-0.56
		(1.25)	(1.48)					(1.34)	(1.33)
Year			0.06						-0.07
			(0.06)						(0.05)
Constant	19.96^{tchar}	20.89	-109.30	55.24°	-0.079	27.22 ***	27.21	25.05 ***	148.30
	(8.56)	(5.35)	(130.41)	(27.86)	(11.13)	(3.78)	(4.65)	(4.15)	(101.90)
R^2	90.	.12	.16	.10	90.	.10	.08	.12	.38
и	6	24	24	25	32	100	82	100	100

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 f_{p}^{+} (1) f_{p}^{+} (2) f_{p}^{+} (2) f_{p}^{+} (2) f_{p}^{+} (2) f_{p}^{+} (2)