Behavioral Risk Factor Surveillance System

2011 Summary Data Quality Report

(Version #5--Revised: 2/04/2013)





## **Table of Contents**

| Introduction  | 3 |
|---|---|
| Interpretation of BRFSS Response Rates                      | 4 |
| BRFSS 2011 Call Outcome Measures and Response Rate Formulae |   |
| Tables of Outcomes and Rates by State                       |   |
| References  |   |

#### Introduction

The Behavioral Risk Factor Surveillance System (BRFSS) survey is conducted annually by the Division of Behavioral Surveillance (DBS) at the Centers for Disease Control and Prevention (CDC). After the 2011 BRFSS survey was conducted, this summary data quality report was created, in order to present detailed descriptions of the 2011 BRFSS survey call outcomes in one document. This document, therefore, presents call summary information for each of the states and territories that participated in the 2011 BRFSS. All BRFSS data (with the exception of pilot study data) are collected by phone, and for the first time, cell phone and landline phone samples were used to produce a single data set using data collected from the 2011 BRFSS. The variables and outcomes provided herein are applicable to a combined data set of responses from landline- and cell phone-respondents within each of the states.

The inclusion of data from cell phone interviews in the public release data is a major step forward for the BRFSS, and, in many respects, 2011 has been a year of change in terms of the approach and methodology used to conduct this survey. The BRFSS has also adopted new weighting procedures in order to accommodate the inclusion of new variables, including the type of phones owned by respondents. Data users should note that new weighting procedures are likely to affect trend lines when comparing BRFSS pre- and post- 2011; because of these changes, users are advised not to make direct comparisons with pre-2011 data, and instead, begin new trend lines with this year. Details are provided in a recent issue of the *Morbidity and Mortality Weekly Report (MMWR)*, which highlights weighting effects on trend lines. <sup>1</sup>

The measures presented in this document are designed to summarize the quality of the 2011 BRFSS survey data. Response rates, cooperation rates, and refusal rates for BRFSS are calculated using standards set by the American Association of Public Opinion Research (AAPOR).<sup>2</sup> This document includes several other internal changes over previous versions of the Summary Data Quality Report. BRFSS has calculated 2011 response rates using AAPOR Response Rate #4, which is in keeping with rates provided by BRFSS in the past using Council of American Survey Research Organizations (CASRO) rates.<sup>2</sup>

Based on the guidelines of AAPOR, response rate calculations include assumptions of eligibility among potential respondents/households that are not interviewed. Changes in the distribution of cell phone numbers by telephone companies and the portability of landline telephone numbers are likely to make it extremely more difficult than in the past to ascertain which telephone numbers are out-of-sample and which telephone phone numbers represent "likely households." Therefore, the BRFSS uses proportions of unknown households in each of the states to estimate the total number of households from those whose eligibility is undetermined. This "eligibility factor" appears in calculations of response, cooperation, resolution, and refusal rates.

The BRFSS continuously improves and tests its methodology. Currently, DBS is conducting several pilot studies. Multiple-state pilots are assessing mail- and web-based follow-up surveys sent to households that did not respond to landline-based requests to participate in the BRFSS data collection. Similarly, a pilot is being conducted to test the feasibility of text messaging as a means of following up with potential cell phone respondents. Meanwhile, internet sampled Web-based pilots are gauging health status, healthcare use, and health behaviors at Metropolitan/Micropolitan statistical area, state, and national levels, then

-

comparing findings to those of BRFSS, the National Health Interview Survey (NHIS), and the National Health and Nutrition Examination Survey (NHANES).

#### **Interpretation of BRFSS Response Rates**

Since this report reflects the initial inclusion of BRFSS cell phone interviews, contextual information on cell phone response rates is provided below. Although cell phone response rates are generally lower than landline response rates across most surveys, the BRFSS has achieved a cell phone response rate that compares favorably with other similar surveys (Table 1).

| Table 1  |           |                    |          |  |  |  |  |  |  |
|--|-----------|--------------------|----------|--|--|--|--|--|--|
| Examples of Cell Phone and Landline Survey Response Rates        |           |                    |          |  |  |  |  |  |  |
| Survey   | Year(s)   | Landline           | Cell     |  |  |  |  |  |  |
|  |           | response           | phone    |  |  |  |  |  |  |
|  |           | rate               | response |  |  |  |  |  |  |
|  |           |                    | rate     |  |  |  |  |  |  |
| California Health Interview Survey (CHIS) <sup>1</sup>           | 2007–2008 | 35.5%              | 22.1%    |  |  |  |  |  |  |
| The Commonwealth Fund 2010 Biennial Health                       | 2010      | 29.0%              | 25.0%    |  |  |  |  |  |  |
| Insurance Survey <sup>2</sup>                                    |           |                    |          |  |  |  |  |  |  |
| National Immunization Survey Cell Phone Pilot (NIS) <sup>3</sup> | 2007–2008 | N/A                | 21.4%    |  |  |  |  |  |  |
| National Immunization Survey (NIS) <sup>4</sup>                  | 2011      | 61.7% <sup>a</sup> | 25.2%    |  |  |  |  |  |  |
| Pew Research Center for People and the Press <sup>5</sup>        | 2006      | 30.0%              | 20.0%    |  |  |  |  |  |  |
| Pew Internet and American Life Project <sup>6</sup>              | 2012      | 11.1%              | 10.0%    |  |  |  |  |  |  |
| BRFSS  | 2011      | 53.0%              | 27.9%    |  |  |  |  |  |  |

<sup>&</sup>lt;sup>a</sup> Unlike the BRFSS, the NIS does not include household sampling in the landline portion of the study, but interviews the adult who self-identifies as "most knowledgeable" about household immunization information.

Note: The National Health and Nutrition Examination Survey (NHANES) and the National Health Interview Survey (NHIS) response rates are not included here. Response rates for personal interview surveys are not comparable to telephone survey response rates.

In the tables below, landline and cell phone calling outcomes and rates are presented. The BRFSS cell phone survey was collected in a manner similar to the BRFSS landline survey. One important difference is that landline interviews include random selection among adults within households, while cell phone interviews are conducted with adults who are contacted on personal (nonbusiness) cell phones. The report presents data on three general types of measures by state:

- (1) Call outcome measures, including response rates, which are based on landline disposition codes.
- (2) Call outcome measures, including response rates, which are based on cell phone disposition codes.

<sup>&</sup>lt;sup>1</sup> http://www.statcan.gc.ca/pub/12-001-x/2011001/article/11443-eng.pdf

<sup>&</sup>lt;sup>2</sup> http://www.commonwealthfund.org/Surveys/2011/Mar/2010-Biennial-Health-Insurance-Survey.aspx?view=print&page=all.

<sup>&</sup>lt;sup>3</sup> http://www.amstat.org/sections/srms/proceedings/y2008/Files/barronmartin.pdf

<sup>&</sup>lt;sup>4</sup> http://www.cdc.gov/vaccines/stats-surv/nis/dual-frame-sampling-08282012.htm

<sup>&</sup>lt;sup>5</sup> http://www.pewinternet.org/reports/2012/Politics-on-SNS/methodology

<sup>&</sup>lt;sup>6</sup> http://www.people-press.org/2006/05/15/the-cell-phone-challenge-to-survey-research/.

(3) A weighted response rate based on a combination of the landline response rate with the cell phone response rate proportional to the total sample used to collect the data for a state.

The BRFSS recommends that authors/researchers referencing BRFSS data quality include the following language:

Response rates for BRFSS are calculated using standards set by the American Association of Public Opinion Research (AAPOR) Response Rate Formula #4 (<a href="http://www.aapor.org/Standard Definitions2.htm">http://www.aapor.org/Standard Definitions2.htm</a>). The response rate is the number of respondents who completed the survey as a proportion of all eligible and likely-eligible persons. The median survey response rate for all states and Washington, DC, in 2011 was 49.72, and ranged from 33.77 to 64.14. Response rates for states and territories included in this analysis had a median of XXX and ranged from XXX to XXX, For detailed information see the BRFSS Summary Data Quality Report.

#### **BRFSS 2011 Call Outcome Measures and Response Rate Formulae**

The calculations of calling outcome rates are based on final disposition codes that are assigned after all calling attempts have been exhausted. The BRFSS may make up to 15 attempts to reach respondents prior to assigning a final disposition code. Disposition codes reflect whether interviewers have completed or partially completed and interview (100 level codes) determined that the household was eligible without completing and interview (200 level codes), determined that a household or respondent was ineligible (400 level codes) or was unable to determine the eligibility of a household and/or respondent (300 level codes). The table below illustrates the codes used by the BRFSS in 2011.

|        | Table 2  |  |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|--|--|
|        | 1022 Landline and Cell Phone BRFSS Disposition Codes                                   |  |  |  |  |  |  |  |
|        | Landline Disposition Codes   |  |  |  |  |  |  |  |
| Interv | iewed  |  |  |  |  |  |  |  |
| 110    | Complete   |  |  |  |  |  |  |  |
| 120    | Partial Complete   |  |  |  |  |  |  |  |
| Eligib | le, Non-Interview  |  |  |  |  |  |  |  |
| 210    | Termination within questionnaire   |  |  |  |  |  |  |  |
| 220    | Refusal after respondent selection   |  |  |  |  |  |  |  |
| 230    | Selected respondent never reached or was reached but did not begin interview           |  |  |  |  |  |  |  |
| 240    | Selected respondent away from residence during the entire interviewing period          |  |  |  |  |  |  |  |
| 250    | Language problem after respondent selection  |  |  |  |  |  |  |  |
| 260    | Selected respondent physically or mentally unable to complete an interview             |  |  |  |  |  |  |  |
| 270    | Hang up or termination after number of adults recorded but before respondent selection |  |  |  |  |  |  |  |
| 280    | Household contact after number of adults recorded but before respondent selection      |  |  |  |  |  |  |  |

Version #5 - Revised: 02/04/2013

<sup>&</sup>lt;sup>a</sup> Response rates and ranges should reflect the year(s) included in the analyses.

<sup>&</sup>lt;sup>b</sup> Response rates for states selected for analysis should be included here. This sentence may be omitted if all states are used in the analysis.

<sup>&</sup>lt;sup>c</sup> This link is to the Summary Data Quality Report for the year(s) included in the analyses. http://www.cdc.gov/brfss/technical\_infodata/quality.htm

| Unkn   | own Eligibility  |
|--------|--|
| 305    | Household members away from residence during entire interviewing period              |
| 310    | Hang-up or termination, housing unit, unknown if eligible respondent                 |
| 315    | Household contact, eligibility undetermined  |
| 320    | Language problem before respondent selection   |
| 325    | Physical or mental impairment before respondent selection                            |
| 330    | Hang-up or termination, unknown if private residence                                 |
| 332    | Contact, unknown if private residence  |
| 335    | Telephone answering device, message confirms private residential status              |
| 340    | Telecommunication technological barrier, message confirms private residential status |
| 345    | Telephone answering device, not sure if private residence                            |
| 350    | Telecommunication technological barrier, not sure if private residence               |
| 355    | Telephone number is no longer in service or has been changed                         |
| 360    | No answer  |
| 365    | Busy   |
| 370    | On never call list   |
|        | Cligible   |
| 405    | Out-of-state/out of sample   |
| 410    | Household, no eligible respondent  |
| 420    | Not a private residence  |
| 430    | Dedicated fax/data/modem line with no human contact                                  |
| 435    | Ineligible cellular telephone  |
| 440    | Fast busy  |
| 450    | Non-working/disconnected number  |
| 430    | Cell Phone Disposition Codes   |
| Interv | riewed   |
| 110    | Completed interview  |
| 120    | Partially completed interview  |
|        | ole/ Non-Interview   |
| 210    | Term. in Quest.  |
| 220    | Refusal – Resp. Sel.   |
| 230    | Not Interviewed – Resp. Sel.   |
| 250    | Language Barrier – Resp. Sel.  |
| 260    | Unable to Communicate – Resp. Sel.   |
|        | own Eligibility  |
| 310    | Hang Up or Term Unknown if Elig. Resp.   |
| 317    | Cell Contact – Unknown if Elig. Resp.  |
| 319    | Contact – Unknown if Elig. Resp.   |
| 320    | Language Barrier – Bef. Resp. Sel.   |
| 325    | Unable to Communicate – Bef. Resp. Sel.  |
| 330    | Hang Up or Term Unknown if working cell phone  |
| 332    | Contact – Unknown if working cell phone  |
|        | <u> </u>   |
| 335    | Tel. Ans. Device – Is working cell phone   |

| 340     | Tech. Barrier – Is working cell phone                      |
|---------|--|
| 345     | Tel. Ans. Device – Not sure if working cell phone          |
| 350     | Tech. Barrier – Not sure if working cell phone             |
| 355     | Phone no longer in service or changed                      |
| 360     | No Answer  |
| 365     | Busy   |
| 370     | On Never Call List   |
| Not Eli | gible  |
| 405     | Not in the US  |
| 415     | Cell Phone – Not an Adult                                  |
| 421     | Cell Phone – Does not live in a private residence          |
| 422     | Cell Phone – Business only                                 |
| 425     | Landline Phone   |
| 430     | Dedicated Fax/data/modem                                   |
| 437     | Cell Phone with Landline in HH                             |
| 440     | Fast Busy  |
| 450     | Non-working/Disconnected                                   |
| 455     | Wrong number (person indicates number dialed is incorrect) |

The factors affecting the distribution of disposition codes by state may be categorized by telephone systems, sample designs, surveyed populations, and data collection processes. Differences in these factors affect different outcome measures in various ways. Table 3 defines the categories of landline call outcomes shown in Tables 5a and 6a. Table 4 defines the categories of cell phone call outcomes shown in Tables 5b and 6b. "P" in the table below is the proportion of records with a final disposition code of 210 (break off or termination) for which more than half of the core questionnaire prior to the demographics section was completed. These interviews are included in the response rate numerator but are not used in calculating health related prevalence estimates created from BRFSS data.

| Table 3                              |  |                 |  |  |  |  |  |  |
|--------------------------------------|--|-----------------|--|--|--|--|--|--|
| Landline Categories of Call Outcomes |  |                 |  |  |  |  |  |  |
| Category                             | Disposition Code Definition              | Format In       |  |  |  |  |  |  |
|                                      |  | Tables/Formulae |  |  |  |  |  |  |
| Completed Interview                  | 110+120+(210* P)                         | COIN            |  |  |  |  |  |  |
| Terminations and Refusals            | (210*(1- P))+220                         | TERE            |  |  |  |  |  |  |
| Known Household, Possibly            | 230+240+250+260+270+280+305+310+315+335  | KNHH            |  |  |  |  |  |  |
| Eligible, Non-interview              |  |                 |  |  |  |  |  |  |
| Likely Households                    | 320+325+330+332+340+355+370              | LIHH            |  |  |  |  |  |  |
| Ineligible Households                | 410                                      | INHH            |  |  |  |  |  |  |
| All Known or Probable                | COIN+TERE+KNHH+LIHH+INHH                 | НН              |  |  |  |  |  |  |
| Households                           |  |                 |  |  |  |  |  |  |
| Unknown Eligibility                  | 305+310+315+320+325+330+332+335+340+345+ | Unknown         |  |  |  |  |  |  |
|                                      | 350+355+360+365+370                      |                 |  |  |  |  |  |  |
| Known Households                     | 110+120+210+220+230+240+250+260+270+280  | Eligible        |  |  |  |  |  |  |
| Ineligible                           | 405+410+420+430+435+440+450              | Ineligible      |  |  |  |  |  |  |
| Estimated proportion of              | Eligible/(Eligible + Ineligible)         | e               |  |  |  |  |  |  |
| eligible unknowns                    |  |                 |  |  |  |  |  |  |
| Total Landline Records               | All numbers in sample                    | TOTAL_LL        |  |  |  |  |  |  |

| Table 4                    |  |                 |  |  |  |  |  |
|----------------------------|--|-----------------|--|--|--|--|--|
|                            | Cell Phone Categories of Call Outcomes       |                 |  |  |  |  |  |
| Category                   | Category Disposition Code Definition         |                 |  |  |  |  |  |
|                            |  | Tables/Formulae |  |  |  |  |  |
| Completed Interview        | 110+120+(210* P)                             | COIN            |  |  |  |  |  |
| Terminations and Refusals  | (210*(1- P))+220                             | TERE            |  |  |  |  |  |
| Unknown Eligibility        | 310+315+317+319+320+325+330+332+335+340+345+ | Unknown         |  |  |  |  |  |
|                            | 350+355+360+365+370                          |                 |  |  |  |  |  |
| Known Personal Cell Phones | 110+120+210+220+230+250+260                  | Eligible        |  |  |  |  |  |
| Ineligible                 | 405+415+421+422+425+430+437+440+450+455      | Ineligible      |  |  |  |  |  |
| Total Cell Phone Records   | All numbers in sample                        | TOTAL_CP        |  |  |  |  |  |

Tables 5a and 6a show the frequency distribution of landline sample categories and resulting landline call outcomes by state. Tables 5b and 6b show the frequency distribution of cell phone sample categories and resulting cell phone call outcomes by state

Tables 7a and 7b provide outcome rates for each state that are used to measure respondent cooperation, data quality, and data collection efficiency. A cooperation rate is the proportion of all cases interviewed of all eligible units in which a respondent was selected and actually contacted. The AAPOR Cooperation Rate #4 (AAPOR COOP4)<sup>2</sup> is the number of complete and partial complete interviews divided by the number of interviews (complete plus partial) plus the number of non-interviews that involve the identification of and contact with an

eligible respondent (refusal and break-offs). This rate calculation is comparable with the Interview Completion Rate reported for the BRFSS landline survey in the 2010 Summary Data Quality Report. Respondents unable to cooperate for an interview because of language barrier or physical/mental impairment are excluded from the base. The formula for the Cooperation Rate #4 is

$$(COIN / (COIN + TERE)) * 100.$$

The AAPOR Cooperation Rate #2 (AAPOR COOP2)<sup>2</sup> is the number of complete and partial complete interviews divided by the number of interviews (complete plus partial) plus the number of non-interviews that involve the identification of and contact with an eligible respondent (refusal and break-offs plus other). It differs from the #4 rate in that the denominator includes additional categories of eligible respondents (those who were unable to complete the interview due to language barriers and/or physical or mental health barriers). This rate calculation is comparable with the Cooperation Rate reported for the BRFSS landline survey in the 2010 Summary Data Quality Report. The formula for the BRFSS Cooperation Rate is

$$(COIN / (COIN + TERE + 250 + 260)) * 100.$$

A response rate is an outcome rate with the number of complete and partial interviews in the numerator and an estimate of the number of eligible units in the sample in the denominator. The response rate is an indicator of the potential for bias in the results of a survey. The amount of bias can be conceptualized as a function of two factors—the amount of non-response, which is measured by a response rate, and the differences between the respondents and the non-respondents. A response rate does not address the latter factor. If the non-respondents characteristics are highly similar to the respondents' characteristics being reviewed, then even a low response rate will result in little non-response bias.<sup>3</sup>

A proportion of the terminations (210) is included as partial interviews in the BRFSS Response Rate (AAPOR RR4)<sup>2</sup> calculation because more than fifty percent of the core questionnaire prior to demographics was completed for these telephone numbers. The BRFSS Response Rate calculation assumes that the unresolved numbers contain the same percentage of eligible households or eligible personal cell phones as the records whose eligibility or ineligibility are determined. This estimated level of eligibility provides a conservative response rate because the proportion of these unknown eligible telephone numbers that are eligible is probably quite low, given the fifteen or more call attempts required by BRFSS landline survey protocol and six or more call attempts required by BRFSS cell phone survey protocol. The formula for the BRFSS Response Rate (AAPOR RR4) is:

#### (COIN / (ELIGIBLE + e \* UNKNOWN)) \* 100.

Table 5a presents the BRFSS Landline Overall Response Rate. The Overall Response Rate is a more conservative response rate than (AAPOR RR4)<sup>2</sup> for the landline survey. This rate assumes more unknown records are eligible households and thus includes a higher proportion of all numbers in the denominator. The rate assumes that all likely households are households and that 98 percent of known or probable households contain an adult who uses the telephone number. The Overall Response Rate formula is:

The BRFSS Refusal Rate (AAPOR REF2)<sup>2</sup> is the proportion of all eligible respondents who refused to complete an interview or terminated an interview prior to the threshold required to be considered a partial interview.

Refusals and terminations (TERE) are in the numerator, and the denominator is the same as that of the Response Rate. This formula is:

Table 6 contains the combined landline and cell phone response rate, which is presented as a summation of the respective weighted response rates. The response rate (AAPOR RR4) generated for each survey mode is weighted to the respective sample size. The total sample equals the landline sample plus cell phone sample. The proportion of each sample is calculated using the total sample as the denominator. The formulas for the proportions of the sample are:

$$P_1 = (TOTAL\_LL / (TOTAL\_LL + TOTAL\_CP))$$

$$P_2 = (TOTAL\_CP / (TOTAL\_LL + TOTAL\_CP)).$$

The formula for the Combined Landline and Cell Phone Weighted Response Rate is then:

 $((P_1 * (LANDLINE RESPONSE RATE)) + (P_2 * (CELL PHONE RESPONSE RATE))).$ 

Version #5 - Revised: 02/04/2013 Page 10 of 25

### **Tables of Outcomes and Rates by State**

|          | Table 5a BRFSS Landline Distributions of Call Outcomes by State, 2011 |                       |          |                      |        |                      |                                     |         |      |                      |                          |
|----------|---|-----------------------|----------|----------------------|--------|----------------------|-------------------------------------|---------|------|----------------------|--------------------------|
|          | 00  |                       |          |                      |        |                      | LIHH <sup>4</sup> INHH <sup>5</sup> |         |      |                      | *****                    |
| State    | N CO  | OIN <sup>1</sup><br>% | TEI<br>N | KE <sup>-</sup><br>% | N KN   | НН <sup>3</sup><br>% | N<br>N                              | ін<br>% | N IN | нн <sup>°</sup><br>% | HH <sup>6</sup><br>Total |
| AL       | 6,693   | 9.33                  | 2,633    | 3.67                 | 9,015  | 12.57                | 4,203                               | 5.86    | 26   | 0.04                 | 22,570                   |
| AL<br>AK | 3,302   | 9.33<br>9.21          | 728      | 2.03                 | 1,232  | 3.44                 | 1,306                               | 3.64    | 9    | 0.04                 | 6,577                    |
| AZ       | 6,219   | 5.74                  | 3,638    | 3.36                 | 6,471  | 5.98                 | 8,205                               | 7.58    | 14   | 0.03                 | 24,547                   |
| AR       | 4,491   | 7.42                  | 1,771    | 2.93                 | 1,764  | 2.92                 | 5,233                               | 8.65    | 9    | 0.01                 | 13,268                   |
| CA       | 17,201  | 6.10                  | 14,311   | 5.08                 | 28,956 | 10.27                | 11,887                              | 4.22    | 20   | 0.01                 | 72,375                   |
| CO       | 12,525  | 11.73                 | 1,916    | 1.79                 | 4,639  | 4.34                 | 5,128                               | 4.80    | 15   | 0.01                 | 24,223                   |
| CT       | 6,373   | 7.57                  | 2,844    | 3.38                 | 6,411  | 7.62                 | 8,055                               | 9.57    | 20   | 0.01                 | 23,703                   |
| DE       | 4,159   | 9.52                  | 1,253    | 2.87                 | 8,087  | 18.51                | 2,835                               | 6.49    | 18   | 0.02                 | 16,352                   |
| DC       | 4,346   | 3.91                  | 1,917    | 1.73                 | 6,375  | 5.74                 | 6,377                               | 5.74    | 31   | 0.04                 | 19,046                   |
| FL       | 11,159  | 6.06                  | 5,099    | 2.77                 | 7,243  | 3.93                 | 21,702                              | 11.78   | 23   | 0.03                 | 45,226                   |
| GA       | 9,114   | 6.36                  | 1,477    | 1.03                 | 19,637 | 13.69                | 7,784                               | 5.43    | 123  | 0.01                 | 38,135                   |
| HI       | 6,547   | 6.79                  | 1,585    | 1.64                 | 6,331  | 6.57                 | 6,124                               | 6.35    | 8    | 0.01                 | 20,595                   |
| ID       | 5,663   | 8.11                  | 2,022    | 2.90                 | 2,126  | 3.05                 | 6,088                               | 8.72    | 10   | 0.01                 | 15,909                   |
| IL       | 4,947   | 7.93                  | 1,461    | 2.34                 | 4,422  | 7.09                 | 3,793                               | 6.08    | 2    | 0.00                 | 14,625                   |
| IN       | 7,720   | 6.70                  | 3,758    | 3.26                 | 4,277  | 3.71                 | 11,380                              | 9.87    | 9    | 0.00                 | 27,144                   |
| IA       | 6,117   | 9.71                  | 1,502    | 2.38                 | 2,208  | 3.50                 | 2,554                               | 4.05    | 6    | 0.01                 | 12,387                   |
| KS       | 17,444  | 9.66                  | 6,123    | 3.39                 | 10,706 | 5.93                 | 11,751                              | 6.51    | 40   | 0.02                 | 46,064                   |
| KY       | 9,925   | 6.80                  | 1,830    | 1.25                 | 3,794  | 2.60                 | 13,201                              | 9.04    | 416  | 0.28                 | 29,166                   |
| LA       | 10,228  | 6.27                  | 3,733    | 2.29                 | 15,564 | 9.54                 | 14,403                              | 8.83    | 246  | 0.15                 | 44,174                   |
| ME       | 12,444  | 10.88                 | 3,518    | 3.08                 | 4,418  | 3.86                 | 11,210                              | 9.80    | 17   | 0.01                 | 31,607                   |
| MD       | 9,522   | 9.49                  | 1,693    | 1.69                 | 15,986 | 15.94                | 5,419                               | 5.40    | 110  | 0.11                 | 32,730                   |
| MA       | 20,718  | 6.46                  | 5,468    | 1.71                 | 62,254 | 19.42                | 22,718                              | 7.09    | 276  | 0.09                 | 111,434                  |
| MI       | 9,459   | 6.94                  | 2,542    | 1.87                 | 12,795 | 9.39                 | 4,457                               | 3.27    | 45   | 0.03                 | 29,298                   |
| MN       | 10,380  | 9.51                  | 1,283    | 1.18                 | 11,504 | 10.54                | 4,400                               | 4.03    | 122  | 0.11                 | 27,689                   |
| MS       | 7,440   | 9.24                  | 2,440    | 3.03                 | 6,391  | 7.94                 | 6,150                               | 7.64    | 46   | 0.06                 | 22,467                   |
| MO       | 5,464   | 10.56                 | 1,371    | 2.65                 | 2,545  | 4.92                 | 2,723                               | 5.26    | 4    | 0.01                 | 12,107                   |
| MT       | 8,805   | 11.52                 | 1,938    | 2.54                 | 6,703  | 8.77                 | 1,131                               | 1.48    | 15   | 0.02                 | 18,592                   |
| NE       | 20,837  | 12.14                 | 4,422    | 2.58                 | 12,312 | 7.17                 | 2,794                               | 1.63    | 39   | 0.02                 | 40,404                   |
| NV       | 4,735   | 7.81                  | 1,521    | 2.51                 | 8,804  | 14.52                | 3,352                               | 5.53    | 86   | 0.14                 | 18,498                   |
| NH       | 5,782   | 9.34                  | 2,416    | 3.90                 | 6,854  | 11.07                | 4,138                               | 6.68    | 14   | 0.02                 | 19,204                   |
| NJ       | 14,293  | 7.88                  | 2,937    | 1.62                 | 29,600 | 16.32                | 9,323                               | 5.14    | 215  | 0.12                 | 56,368                   |
| NM       | 8,046   | 10.87                 | 1,991    | 2.69                 | 3,052  | 4.12                 | 3,534                               | 4.77    | 12   | 0.02                 | 16,635                   |
| NY       | 6,459   | 4.66                  | 3,639    | 2.63                 | 5,814  | 4.20                 | 19,392                              | 13.99   | 17   | 0.01                 | 35,321                   |
| NC       | 10,761  | 10.97                 | 3,412    | 3.48                 | 9,883  | 10.07                | 5,168                               | 5.27    | 31   | 0.03                 | 29,255                   |
| ND       | 4,654   | 8.71                  | 1,510    | 2.82                 | 1,610  | 3.01                 | 3,891                               | 7.28    | 7    | 0.01                 | 11,672                   |
| ОН       | 8,901   | 7.48                  | 2,580    | 2.17                 | 15,585 | 13.10                | 6,486                               | 5.45    | 106  | 0.09                 | 33,658                   |
| OK       | 7,756   | 13.14                 | 1,763    | 2.99                 | 3,505  | 5.94                 | 2,458                               | 4.16    | 11   | 0.02                 | 15,493                   |
| OR       | 5,118   | 8.35                  | 1,805    | 2.95                 | 3,584  | 5.85                 | 6,678                               | 10.90   | 6    | 0.01                 | 17,191                   |
| PA       | 9,902   | 7.71                  | 4,284    | 3.34                 | 5,882  | 4.58                 | 16,184                              | 12.61   | 12   | 0.01                 | 36,264                   |
| RI       | 6,246   | 10.38                 | 2,761    | 4.59                 | 6,742  | 11.20                | 4,455                               | 7.40    | 14   | 0.02                 | 20,218                   |
| SC       | 10,884  | 10.95                 | 2,269    | 2.28                 | 6,641  | 6.68                 | 4,483                               | 4.51    | 14   | 0.01                 | 24,291                   |
| SD       | 7,364   | 7.96                  | 1,364    | 1.47                 | 3,177  | 3.43                 | 3,365                               | 3.64    | 13   | 0.01                 | 15,283                   |
| TN       | 5,776   | 6.21                  | 1,992    | 2.14                 | 2,486  | 2.67                 | 13,917                              | 14.96   | 25   | 0.03                 | 24,196                   |
| TX       | 13,673  | 6.75                  | 4,711    | 2.32                 | 8,025  | 3.96                 | 20,777                              | 10.25   | 13   | 0.01                 | 47,199                   |

Table 5a
BRFSS Landline Distributions of Call Outcomes by State, 2011

|       | CO      | $IN^1$ | TEF     | RE <sup>2</sup> | KNI     | $HH^3$ | LIH     | $\mathbf{H}^4$ | INI   | HH <sup>5</sup> | $\mathrm{HH}^{6}$ |
|-------|---------|--------|---------|-----------------|---------|--------|---------|----------------|-------|-----------------|-------------------|
| State | N       | %      | N       | %               | N       | %      | N       | %              | N     | %               | Total             |
| UT    | 10,402  | 12.76  | 1,980   | 2.43            | 4,766   | 5.84   | 2,319   | 2.84           | 5     | 0.01            | 19,472            |
| VT    | 6,765   | 11.92  | 2,025   | 3.57            | 3,479   | 6.13   | 3,940   | 6.94           | 12    | 0.02            | 16,221            |
| VA    | 5,654   | 6.89   | 1,264   | 1.54            | 13,663  | 16.65  | 4,709   | 5.74           | 46    | 0.06            | 25,336            |
| WA    | 14,195  | 7.23   | 5,963   | 3.04            | 14,946  | 7.62   | 13,401  | 6.83           | 18    | 0.01            | 48,523            |
| WV    | 4,470   | 18.53  | 823     | 3.41            | 1,267   | 5.25   | 1,826   | 7.57           | 13    | 0.05            | 8,399             |
| WI    | 4,716   | 9.43   | 1,691   | 3.38            | 1,772   | 3.54   | 2,742   | 5.48           | 15    | 0.03            | 10,936            |
| WY    | 5,598   | 8.18   | 1,662   | 2.43            | 2,438   | 3.56   | 5,571   | 8.14           | 6     | 0.01            | 15,275            |
| GU    | 1,694   | 4.71   | 386     | 1.07            | 1,405   | 3.90   | 518     | 1.44           | 6     | 0.02            | 4,009             |
| PR    | 4,518   | 9.73   | 327     | 0.70            | 1,606   | 3.46   | 577     | 1.24           | 6     | 0.01            | 7,034             |
| VI    | 2,682   | 5.95   | 995     | 2.21            | 960     | 2.13   | 2,398   | 5.32           | 17    | 0.04            | 7,052             |
| Total | 450,285 |        | 142,348 |                 | 451,712 |        | 378,613 |                | 2,459 |                 | 1,425,417         |
| Med   | 7,440   | 8.18   | 1,992   | 2.63            | 6,391   | 5.98   | 5,233   | 6.35           | 15    | 0.02            | 23,703            |
| Min   | 3,302   | 3.91   | 728     | 1.03            | 1,232   | 2.60   | 1,131   | 1.48           | 2     | 0.00            | 6,577             |
| Max   | 20,837  | 18.53  | 14,311  | 5.08            | 62,254  | 19.42  | 22,718  | 14.96          | 416   | 0.28            | 111,434           |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

<sup>&</sup>lt;sup>1</sup> COIN = Complete Interviews

<sup>&</sup>lt;sup>2</sup> TERE = Terminations and Refusals

<sup>&</sup>lt;sup>3</sup> KNHH = Known Household, Possibly Eligible, Non-interview

<sup>&</sup>lt;sup>4</sup>LIHH = Likely Households

<sup>&</sup>lt;sup>5</sup> INHH = Ineligible Households

<sup>&</sup>lt;sup>6</sup>HH = All Known or Probable Households

Table 5b
BRFSS Cell Phone Distributions of Call Outcomes by State, 2011

|          | C   | OIN <sup>1</sup> | T     | ERE <sup>2</sup> | TOTAL_CP |
|----------|---|------------------|-------|------------------|----------|
| State    | N   | %                | N     | %                | N        |
| AL       | 1,132   | 4.18             | 413   | 1.52             | 27,090   |
| AK       | 330   | 3.34             | 67    | 0.68             | 9,895    |
| AZ       | 606   | 3.27             | 222   | 1.20             | 18,510   |
| AR       | 440   | 4.87             | 195   | 2.16             | 9,030    |
| CA       | 1,691   | 4.43             | 1,543 | 4.04             | 38,149   |
| CO       | 1,227   | 9.65             | 150   | 1.18             | 12,720   |
| CT       | 946   | 1.93             | 327   | 0.66             | 49,140   |
| DE       | 735   | 5.20             | 14    | 0.10             | 14,130   |
| DC       | 878   | 3.01             | 192   | 0.66             | 29,220   |
| FL       | 1,681   | 5.91             | 403   | 1.42             | 28,440   |
| GA       | 875   | 3.83             | 279   | 1.22             | 22,860   |
| HI       | 1,468   | 6.70             | 674   | 3.08             | 21,899   |
| ID       | 543   | 10.90            | 262   | 5.26             | 4,980    |
| IL       | 612   | 4.95             | 108   | 0.87             | 12,360   |
| IN       | 1,160   | 4.93             | 873   | 3.61             | 24,150   |
|          |   |                  | 226   |                  | <u> </u> |
| IA<br>KS | 1,235<br>3,671  | 9.17             | · ·   | 1.68             | 13,470   |
|          | A contract of the contract of | 5.05             | 1,015 | 1.40             | 72,630   |
| KY       | 1,306   | 5.72             | 287   | 1.26             | 22,830   |
| LA       | 1,001   | 4.75             | 237   | 1.13             | 21,058   |
| ME       | 1,243   | 5.55             | 639   | 2.86             | 22,380   |
| MD       | 447   | 3.88             | 136   | 1.18             | 11,520   |
| MA       | 1,946   | 3.60             | 1,005 | 1.86             | 54,060   |
| MI       | 1,847   | 5.47             | 267   | 0.79             | 33,780   |
| MN       | 4,996   | 8.39             | 1,493 | 2.51             | 59,580   |
| MS       | 1,758   | 7.57             | 328   | 1.41             | 23,220   |
| MO       | 1,077   | 6.39             | 185   | 1.10             | 16,859   |
| MT       | 1,850   | 6.68             | 416   | 1.50             | 27,690   |
| NE       | 5,613   | 9.95             | 1,234 | 2.19             | 56,400   |
| NV       | 1,074   | 3.90             | 257   | 0.93             | 27,509   |
| NH       | 934   | 2.89             | 316   | 0.98             | 32,340   |
| NJ       | 1,394   | 3.24             | 839   | 1.95             | 43,020   |
| NM       | 1,901   | 9.35             | 332   | 1.63             | 20,340   |
| NY       | 1,635   | 3.08             | 576   | 1.09             | 53,070   |
| NC       | 987   | 5.06             | 404   | 2.07             | 19,494   |
| ND       | 877   | 3.22             | 618   | 2.27             | 27,210   |
| ОН       | 1,109   | 4.40             | 578   | 2.30             | 25,180   |
| OK       | 981   | 5.88             | 322   | 1.93             | 16,679   |
| OR       | 1,403   | 6.06             | 83    | 0.36             | 23,140   |
| PA       | 2,156   | 3.23             | 1,772 | 2.66             | 66,720   |
| RI       | 839   | 3.16             | 305   | 1.15             | 26,580   |
| SC       | 2,549   | 6.85             | 502   | 1.35             | 37,229   |
| SD       | 1,058   | 5.68             | 201   | 1.08             | 18,636   |
| TN       | 76  | 3.96             | 26    | 1.35             | 1,920    |
| TX       | 1,595   | 4.34             | 1,279 | 3.48             | 36,780   |
| UT       | 2,682   | 10.28            | 456   | 1.75             | 26,098   |
| VT       | 646   | 3.68             | 197   | 1.13             | 17,549   |

Table 5b
BRFSS Cell Phone Distributions of Call Outcomes by State, 2011

|           | $\mathrm{COIN}^1$ |       | T      | $TERE^2$ |           |  |
|-----------|-------------------|-------|--------|----------|-----------|--|
| State     | N                 | %     | N      | %        | N         |  |
| VA        | 850               | 4.12  | 398    | 1.93     | 20,610    |  |
| WA        | 752               | 3.81  | 321    | 1.63     | 19,740    |  |
| WV        | 900               | 7.08  | 184    | 1.45     | 12,720    |  |
| WI        | 675               | 7.58  | 122    | 1.37     | 8,910     |  |
| WY        | 1,638             | 3.74  | 811    | 1.85     | 43,830    |  |
| GU        | 273               | 3.13  | 73     | 0.84     | 8,730     |  |
| PR        | 2,220             | 16.37 | 111    | 0.82     | 13,560    |  |
| Total     | 73,518            |       | 24,273 |          | 1,405,644 |  |
| Median *  | 1,109             | 4.87  | 322    | 1.42     | 23,140    |  |
| Minimum * | 76                | 1.93  | 14     | 0.10     | 1,920     |  |
| Maximum * | 5,613             | 10.90 | 1,772  | 5.26     | 72,630    |  |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

<sup>&</sup>lt;sup>1</sup> COIN = Complete Interviews

<sup>&</sup>lt;sup>2</sup> TERE = Terminations and Refusals

Table 6a BRFSS Landline Categories of Eligibility by State, 2011

|       |        | tal   | Tot<br>Unkn | tal   | by State, 201<br>To<br>Inelig | tal   | TOTAL_LL |
|-------|--------|-------|-------------|-------|-------------------------------|-------|----------|
| State | N      | %     | N           | %     | N                             | %     | N        |
| AL    | 11,595 | 16.17 | 13,584      | 18.94 | 46,549                        | 64.90 | 71,728   |
| AK    | 4,653  | 12.98 | 4,071       | 11.36 | 27,126                        | 75.67 | 35,850   |
| AZ    | 11,663 | 10.77 | 21,268      | 19.64 | 75,339                        | 69.58 | 108,270  |
| AR    | 7,244  | 11.97 | 9,790       | 16.18 | 43,476                        | 71.85 | 60,510   |
| CA    | 34,727 | 12.32 | 68,872      | 24.44 | 178,235                       | 63.24 | 281,834  |
| CO    | 16,769 | 15.71 | 15,550      | 14.56 | 74,451                        | 69.73 | 106,770  |
| CT    | 11,110 | 13.20 | 19,468      | 23.13 | 53,572                        | 63.66 | 84,150   |
| DE    | 6,449  | 14.76 | 12,756      | 29.20 | 24,475                        | 56.03 | 43,680   |
| DC    | 7,592  | 6.84  | 24,247      | 21.83 | 79,221                        | 71.33 | 111,060  |
| FL    | 19,395 | 10.52 | 42,195      | 22.90 | 122,700                       | 66.58 | 184,290  |
| GA    | 13,276 | 9.26  | 32,727      | 22.82 | 97,397                        | 67.92 | 143,400  |
| HI    | 11,036 | 11.45 | 17,365      | 18.01 | 68,020                        | 70.54 | 96,421   |
| ID    | 8,757  | 12.54 | 10,520      | 15.07 | 50,533                        | 72.39 | 69,810   |
| IL    | 7,514  | 12.04 | 12,423      | 19.91 | 42,463                        | 68.05 | 62,400   |
| IN    | 13,334 | 11.57 | 20,472      | 17.76 | 81,454                        | 70.67 | 115,260  |
| IA    | 8,638  | 13.71 | 6,970       | 11.06 | 47,392                        | 75.23 | 63,000   |
| KS    | 26,362 | 14.61 | 24,697      | 13.68 | 129,440                       | 71.71 | 180,499  |
| KY    | 12,915 | 8.84  | 29,449      | 20.16 | 103,695                       | 71.00 | 146,059  |
| LA    | 15,488 | 9.50  | 32,481      | 19.92 | 115,111                       | 70.59 | 163,080  |
| ME    | 18,031 | 15.77 | 20,634      | 18.05 | 75,665                        | 66.18 | 114,330  |
| MD    | 13,197 | 13.15 | 25,955      | 25.87 | 61,168                        | 60.97 | 100,320  |
| MA    | 32,710 | 10.20 | 96,773      | 30.19 | 191,097                       | 59.61 | 320,580  |
| MI    | 14,237 | 10.45 | 23,031      | 16.90 | 99,022                        | 72.66 | 136,290  |
| MN    | 13,833 | 12.67 | 17,446      | 15.98 | 77,871                        | 71.34 | 109,150  |
| MS    | 11,912 | 14.79 | 14,802      | 18.38 | 53,820                        | 66.83 | 80,534   |
| MO    | 7,964  | 15.39 | 7,469       | 14.43 | 36,328                        | 70.18 | 51,761   |
| MT    | 12,081 | 15.81 | 8,497       | 11.12 | 55,832                        | 73.07 | 76,410   |
| NE    | 28,459 | 16.58 | 16,976      | 9.89  | 126,195                       | 73.53 | 171,630  |
| NV    | 7,358  | 12.13 | 14,018      | 23.12 | 39,268                        | 64.75 | 60,644   |
| NH    | 9,264  | 14.96 | 13,036      | 21.05 | 39,617                        | 63.98 | 61,917   |
| NJ    | 21,839 | 12.04 | 48,724      | 26.86 | 110,847                       | 61.10 | 181,410  |
| NM    | 11,561 | 15.61 | 9,204       | 12.43 | 53,275                        | 71.95 | 74,040   |
| NY    | 12,622 | 9.11  | 35,396      | 25.54 | 90,552                        | 65.35 | 138,570  |
| NC    | 16,223 | 16.54 | 17,453      | 17.79 | 64,424                        | 65.67 | 98,100   |
| ND    | 6,954  | 13.01 | 6,828       | 12.77 | 39,678                        | 74.22 | 53,460   |
| ОН    | 14,216 | 11.95 | 24,278      | 20.40 | 80,516                        | 67.65 | 119,010  |
| OK    | 11,545 | 19.55 | 8,767       | 14.85 | 38,727                        | 65.60 | 59,039   |
| OR    | 7,631  | 12.45 | 15,178      | 24.77 | 38,466                        | 62.78 | 61,275   |
| PA    | 16,662 | 12.98 | 30,998      | 24.15 | 80,710                        | 62.87 | 128,370  |
| RI    | 10,440 | 17.35 | 12,872      | 21.39 | 36,868                        | 61.26 | 60,180   |
| SC    | 15,508 | 15.61 | 14,903      | 15.00 | 68,949                        | 69.39 | 99,360   |
| SD    | 10,114 | 10.93 | 8,060       | 8.71  | 74,346                        | 80.36 | 92,520   |
| TN    | 8,184  | 8.80  | 21,040      | 22.62 | 63,793                        | 68.58 | 93,017   |
| TX    | 21,986 | 10.85 | 42,793      | 21.11 | 137,901                       | 68.04 | 202,680  |
| UT    | 14,853 | 18.22 | 10,652      | 13.06 | 56,035                        | 68.72 | 81,540   |

Table 6a BRFSS Landline Categories of Eligibility by State, 2011

|           | To      | otal  | Tot       | al    | To        | tal   |           |
|-----------|---------|-------|-----------|-------|-----------|-------|-----------|
|           | Eliş    | gible | Unkn      | own   | Inelig    | gible | TOTAL_LL  |
| State     | N       | %     | N         | %     | N         | %     | N         |
| VT        | 9,948   | 17.53 | 10,010    | 17.64 | 36,802    | 64.84 | 56,760    |
| VA        | 8,415   | 10.25 | 21,926    | 26.71 | 51,739    | 63.03 | 82,080    |
| WA        | 24,667  | 12.57 | 37,856    | 19.29 | 133,707   | 68.14 | 196,230   |
| WV        | 5,811   | 24.09 | 4,540     | 18.82 | 13,769    | 57.09 | 24,120    |
| WI        | 7,158   | 14.31 | 6,924     | 13.85 | 35,928    | 71.84 | 50,010    |
| WY        | 8,279   | 12.09 | 11,272    | 16.47 | 48,909    | 71.44 | 68,460    |
| GU        | 2,870   | 7.97  | 1,953     | 5.43  | 31,177    | 86.60 | 36,000    |
| PR        | 5,995   | 12.91 | 5,361     | 11.54 | 35,084    | 75.55 | 46,440    |
| VI        | 4,348   | 9.64  | 5,377     | 11.93 | 35,365    | 78.43 | 45,090    |
| Total     | 695,392 |       | 1,089,907 |       | 3,774,099 |       | 5,559,398 |
| Median *  | 11,663  | 12.67 | 16,976    | 18.82 | 63,793    | 68.14 | 93,017    |
| Minimum * | 4,653   | 6.84  | 4,071     | 8.71  | 13,769    | 56.03 | 24,120    |
| Maximum * | 34,727  | 24.09 | 96,773    | 30.19 | 191,097   | 80.36 | 320,580   |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

Table 6b
BRFSS Cell Phone Distributions of Categories of Eligibility by State, 2011

|       | To    | ital<br>gible | To     | otal<br>nown | Eligibility by<br>To<br>Ineli | TOTAL_CP |        |
|-------|-------|---------------|--------|--------------|-------------------------------|----------|--------|
| State | N     | %             | N      | %            | N                             | %        | N      |
| AL    | 1,738 | 6.42          | 15,578 | 57.50        | 9,774                         | 36.08    | 27,090 |
| AK    | 463   | 4.68          | 2,684  | 27.12        | 6,748                         | 68.20    | 9,895  |
| AZ    | 962   | 5.20          | 11,345 | 61.29        | 6,203                         | 33.51    | 18,510 |
| AR    | 706   | 7.82          | 4,022  | 44.54        | 4,302                         | 47.64    | 9,030  |
| CA    | 3,621 | 9.49          | 21,460 | 56.25        | 13,068                        | 34.26    | 38,149 |
| CO    | 1,497 | 11.77         | 6,660  | 52.36        | 4,563                         | 35.87    | 12,720 |
| CT    | 1,511 | 3.07          | 32,914 | 66.98        | 14,715                        | 29.95    | 49,140 |
| DE    | 838   | 5.93          | 7,143  | 50.55        | 6,149                         | 43.52    | 14,130 |
| DC    | 1,224 | 4.19          | 19,278 | 65.98        | 8,718                         | 29.84    | 29,220 |
| FL    | 2,215 | 7.79          | 18,291 | 64.31        | 7,934                         | 27.90    | 28,440 |
| GA    | 1,224 | 5.35          | 13,041 | 57.05        | 8,595                         | 37.60    | 22,860 |
| HI    | 2,661 | 12.15         | 11,726 | 53.55        | 7,512                         | 34.30    | 21,899 |
| ID    | 885   | 17.77         | 2,167  | 43.51        | 1,928                         | 38.71    | 4,980  |
| IL    | 790   | 6.39          | 6,856  | 55.47        | 4,714                         | 38.14    | 12,360 |
| IN    | 2,317 | 9.59          | 12,605 | 52.19        | 9,228                         | 38.21    | 24,150 |
| IA    | 1,547 | 11.48         | 4,355  | 32.33        | 7,568                         | 56.18    | 13,470 |
| KS    | 4,967 | 6.84          | 36,977 | 50.91        | 30,686                        | 42.25    | 72,630 |
| KY    | 1,720 | 7.53          | 13,849 | 60.66        | 7,261                         | 31.80    | 22,830 |
| LA    | 1,339 | 6.36          | 13,255 | 62.95        | 6,464                         | 30.70    | 21,058 |
| ME    | 2,155 | 9.63          | 12,075 | 53.95        | 8,150                         | 36.42    | 22,380 |
| MD    | 639   | 5.55          | 7,781  | 67.54        | 3,100                         | 26.91    | 11,520 |
| MA    | 3,251 | 6.01          | 34,400 | 63.63        | 16,409                        | 30.35    | 54,060 |
| MI    | 2,288 | 6.77          | 20,403 | 60.40        | 11,089                        | 32.83    | 33,780 |
| MN    | 6,875 | 11.54         | 33,810 | 56.75        | 18,895                        | 31.71    | 59,580 |
| MS    | 2,247 | 9.68          | 11,388 | 49.04        | 9,585                         | 41.28    | 23,220 |
| MO    | 1,418 | 8.41          | 9,157  | 54.32        | 6,284                         | 37.27    | 16,859 |
| MT    | 2,472 | 8.93          | 8,410  | 30.37        | 16,808                        | 60.70    | 27,690 |
| NE    | 7,539 | 13.37         | 21,983 | 38.98        | 26,878                        | 47.66    | 56,400 |
| NV    | 1,521 | 5.53          | 18,092 | 65.77        | 7,896                         | 28.70    | 27,509 |
| NH    | 1,386 | 4.29          | 19,474 | 60.22        | 11,480                        | 35.50    | 32,340 |
| NJ    | 2,471 | 5.74          | 25,611 | 59.53        | 14,938                        | 34.72    | 43,020 |
| NM    | 2,384 | 11.72         | 8,830  | 43.41        | 9,126                         | 44.87    | 20,340 |
| NY    | 2,368 | 4.46          | 35,804 | 67.47        | 14,898                        | 28.07    | 53,070 |
| NC    | 1,524 | 7.82          | 11,105 | 56.97        | 6,865                         | 35.22    | 19,494 |
| ND    | 1,758 | 6.46          | 11,954 | 43.93        | 13,498                        | 49.61    | 27,210 |
| ОН    | 1,800 | 7.15          | 14,991 | 59.54        | 8,389                         | 33.32    | 25,180 |
| OK    | 1,546 | 9.27          | 7,179  | 43.04        | 7,954                         | 47.69    | 16,679 |
| OR    | 1,486 | 6.42          | 18,176 | 78.55        | 3,478                         | 15.03    | 23,140 |
| PA    | 4,577 | 6.86          | 38,136 | 57.16        | 24,007                        | 35.98    | 66,720 |
| RI    | 1,327 | 4.99          | 16,769 | 63.09        | 8,484                         | 31.92    | 26,580 |
| SC    | 3,349 | 9.00          | 16,210 | 43.54        | 17,670                        | 47.46    | 37,229 |
| SD    | 1,367 | 7.34          | 5,972  | 32.05        | 11,297                        | 60.62    | 18,636 |
| TN    | 105   | 5.47          | 1,294  | 67.40        | 521                           | 27.14    | 1,920  |
| TX    | 3,472 | 9.44          | 19,881 | 54.05        | 13,427                        | 36.51    | 36,780 |
| UT    | 3,769 | 14.44         | 12,363 | 47.37        | 9,966                         | 38.19    | 26,098 |

Table 6b
BRFSS Cell Phone Distributions of Categories of Eligibility by State, 2011

|           | Total<br>Eligible |       |         | Total<br>Unknown |         | Total<br>Ineligible |           |  |
|-----------|-------------------|-------|---------|------------------|---------|---------------------|-----------|--|
| State     | N                 | %     | N       | %                | N       | %                   | N         |  |
| VT        | 939               | 5.35  | 9,905   | 56.44            | 6,705   | 38.21               | 17,549    |  |
| VA        | 1,346             | 6.53  | 13,218  | 64.13            | 6,046   | 29.34               | 20,610    |  |
| WA        | 1,083             | 5.49  | 13,350  | 67.63            | 5,307   | 26.88               | 19,740    |  |
| WV        | 1,133             | 8.91  | 8,992   | 70.69            | 2,595   | 20.40               | 12,720    |  |
| WI        | 818               | 9.18  | 3,936   | 44.18            | 4,156   | 46.64               | 8,910     |  |
| WY        | 2,799             | 6.39  | 10,907  | 24.88            | 30,124  | 68.73               | 43,830    |  |
| GU        | 433               | 4.96  | 3,273   | 37.49            | 5,024   | 57.55               | 8,730     |  |
| PR        | 2,864             | 21.12 | 5,737   | 42.31            | 4,959   | 36.57               | 13,560    |  |
| VI        | 4,348             | 9.64  | 5,377   | 11.93            | 35,365  | 78.43               | 45,090    |  |
| Total     | 108,734           |       | 764,772 |                  | 532,138 |                     | 1,405,644 |  |
| Median *  | 1,546             | 6.86  | 12,605  | 56.44            | 8,389   | 35.98               | 23,140    |  |
| Minimum * | 105               | 3.07  | 1,294   | 24.88            | 521     | 15.03               | 1,920     |  |
| Maximum * | 7,539             | 17.77 | 38,136  | 78.55            | 30,686  | 68.73               | 72,630    |  |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

Table 7a
BRFSS Landline Call Outcome Rates by State, 2011

|       | AAPOR AAPOR AAPOR Overall AAPOR |             |             |          |             |  |  |  |  |  |
|-------|---------------------------------|-------------|-------------|----------|-------------|--|--|--|--|--|
|       | Cooperation                     | Cooperation | Refusal     | Response | Response    |  |  |  |  |  |
| State | Rate #4 (%)                     | Rate #2 (%) | Rate #2 (%) | Rate (%) | Rate #4 (%) |  |  |  |  |  |
| AL    | 71.77                           | 68.63       | 18.41       | 30.26    | 46.79       |  |  |  |  |  |
| AK    | 81.94                           | 79.49       | 13.87       | 51.23    | 62.91       |  |  |  |  |  |
| AZ    | 63.09                           | 60.03       | 25.07       | 25.85    | 42.85       |  |  |  |  |  |
| AR    | 71.72                           | 67.91       | 20.49       | 34.54    | 51.97       |  |  |  |  |  |
| CA    | 54.58                           | 52.78       | 31.14       | 24.25    | 37.43       |  |  |  |  |  |
| СО    | 86.73                           | 83.95       | 9.76        | 52.76    | 63.81       |  |  |  |  |  |
| CT    | 69.14                           | 66.75       | 19.68       | 27.43    | 44.09       |  |  |  |  |  |
| DE    | 76.85                           | 74.61       | 13.75       | 25.96    | 45.66       |  |  |  |  |  |
| DC    | 69.39                           | 67.51       | 19.74       | 23.29    | 44.75       |  |  |  |  |  |
| FL    | 68.64                           | 65.15       | 20.27       | 25.18    | 44.36       |  |  |  |  |  |
| GA    | 86.05                           | 81.73       | 8.59        | 24.39    | 52.98       |  |  |  |  |  |
| HI    | 80.51                           | 73.79       | 11.78       | 32.44    | 48.64       |  |  |  |  |  |
| ID    | 73.69                           | 71.16       | 19.61       | 36.32    | 54.92       |  |  |  |  |  |
| IL    | 77.20                           | 75.08       | 15.57       | 34.52    | 52.73       |  |  |  |  |  |
| IN    | 67.26                           | 64.45       | 23.18       | 29.02    | 47.61       |  |  |  |  |  |
| IA    | 80.29                           | 77.51       | 15.46       | 50.39    | 62.98       |  |  |  |  |  |
| KS    | 74.02                           | 72.09       | 20.05       | 38.64    | 57.12       |  |  |  |  |  |
| KY    | 84.43                           | 83.79       | 11.31       | 34.72    | 61.35       |  |  |  |  |  |
| LA    | 73.26                           | 71.49       | 19.30       | 23.63    | 52.89       |  |  |  |  |  |
| ME    | 77.96                           | 75.15       | 15.99       | 40.17    | 56.56       |  |  |  |  |  |
| MD    | 84.90                           | 82.02       | 9.51        | 29.69    | 53.49       |  |  |  |  |  |
| MA    | 79.12                           | 75.48       | 11.67       | 18.97    | 44.22       |  |  |  |  |  |
| MI    | 78.82                           | 75.69       | 14.84       | 32.94    | 55.21       |  |  |  |  |  |
| MN    | 89.00                           | 85.88       | 7.79        | 38.25    | 63.04       |  |  |  |  |  |
| MS    | 75.30                           | 70.64       | 16.72       | 33.79    | 50.98       |  |  |  |  |  |
| MO    | 79.94                           | 77.19       | 14.73       | 46.05    | 58.71       |  |  |  |  |  |
| MT    | 81.96                           | 79.97       | 14.26       | 48.33    | 64.78       |  |  |  |  |  |
| NE    | 82.49                           | 80.34       | 14.00       | 52.62    | 65.98       |  |  |  |  |  |
| NV    | 75.69                           | 72.31       | 15.89       | 26.12    | 49.48       |  |  |  |  |  |
| NH    | 70.53                           | 68.96       | 20.59       | 30.72    | 49.27       |  |  |  |  |  |
| NJ    | 82.95                           | 79.79       | 9.84        | 25.87    | 47.87       |  |  |  |  |  |
| NM    | 80.16                           | 76.12       | 15.08       | 49.35    | 60.94       |  |  |  |  |  |
| NY    | 63.96                           | 59.82       | 21.47       | 18.66    | 38.10       |  |  |  |  |  |
| NC    | 75.93                           | 72.91       | 17.29       | 37.53    | 54.53       |  |  |  |  |  |
| ND    | 75.50                           | 73.40       | 18.94       | 40.69    | 58.38       |  |  |  |  |  |
| ОН    | 77.53                           | 74.20       | 14.45       | 26.99    | 49.84       |  |  |  |  |  |
| OK    | 81.48                           | 77.72       | 13.00       | 51.08    | 57.20       |  |  |  |  |  |
| OR    | 73.93                           | 72.15       | 17.79       | 30.38    | 50.46       |  |  |  |  |  |
| PA    | 69.80                           | 66.68       | 19.50       | 27.86    | 45.08       |  |  |  |  |  |
| RI    | 69.34                           | 66.69       | 20.79       | 31.52    | 47.03       |  |  |  |  |  |
| SC    | 82.75                           | 78.47       | 12.44       | 45.72    | 59.66       |  |  |  |  |  |
| SD    | 84.37                           | 82.18       | 12.31       | 49.17    | 66.47       |  |  |  |  |  |
| TN    | 74.36                           | 72.69       | 18.83       | 24.36    | 54.61       |  |  |  |  |  |
| TX    | 74.37                           | 70.79       | 16.90       | 29.56    | 49.06       |  |  |  |  |  |
| UT    | 84.01                           | 81.13       | 11.59       | 54.51    | 60.88       |  |  |  |  |  |

Table 7a BRFSS Landline Call Outcome Rates by State, 2011

| State     | AAPOR<br>Cooperation<br>Rate #4 (%) | AAPOR<br>Cooperation<br>Rate #2 (%) | AAPOR<br>Refusal<br>Rate #2 (%) | Overall<br>Response<br>Rate (%) | AAPOR<br>Response<br>Rate #4 (%) |
|-----------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|----------------------------------|
| VT        | 76.96                               | 75.48                               | 16.77                           | 42.56                           | 56.01                            |
| VA        | 81.73                               | 78.80                               | 11.01                           | 22.77                           | 49.24                            |
| WA        | 70.42                               | 66.86                               | 19.51                           | 29.85                           | 46.44                            |
| WV        | 84.45                               | 81.81                               | 11.50                           | 54.31                           | 62.44                            |
| WI        | 73.61                               | 72.65                               | 20.35                           | 44.00                           | 56.76                            |
| WY        | 77.11                               | 74.54                               | 16.77                           | 37.40                           | 56.48                            |
| GU        | 81.44                               | 76.03                               | 12.72                           | 43.12                           | 55.82                            |
| PR        | 93.25                               | 88.74                               | 4.82                            | 65.54                           | 66.66                            |
| VI        | 72.94                               | 69.48                               | 20.16                           | 38.81                           | 54.33                            |
| Median *  | 76.96                               | 74.20                               | 15.99                           | 32.94                           | 52.98                            |
| Minimum * | 54.58                               | 52.78                               | 7.79                            | 18.66                           | 37.43                            |
| Maximum * | 89.00                               | 85.88                               | 31.14                           | 54.51                           | 66.47                            |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

Table 7b
BRFSS Cell Phone Outcome Rates by State, 2011

|       | AAPOR                      | AAPOR                   | AAPOR                  | AAPOR                   |
|-------|----------------------------|-------------------------|------------------------|-------------------------|
| State | Cooperation<br>Rate #4 (%) | Cooperation Rate #2 (%) | Refusal<br>Rate #2 (%) | Response<br>Rate #4 (%) |
| AL    | 73.27                      | 72.42                   | 10.10                  | 27.68                   |
| AK    | 83.12                      | 82.09                   | 10.55                  | 51.94                   |
| AZ    | 73.18                      | 72.23                   | 8.93                   | 24.38                   |
| AR    | 69.29                      | 68.97                   | 15.32                  | 34.56                   |
| CA    | 52.30                      | 51.36                   | 18.64                  | 20.43                   |
| CO    | 89.11                      | 88.40                   | 4.77                   | 39.05                   |
| CT    | 74.33                      | 73.58                   | 7.14                   | 20.68                   |
| DE    | 98.14                      | 94.84                   | 0.82                   | 43.37                   |
| DC    | 82.08                      | 81.02                   | 5.33                   | 24.41                   |
| FL    | 80.66                      | 79.82                   | 6.49                   | 27.08                   |
| GA    | 75.82                      | 74.53                   | 9.79                   | 30.71                   |
| HI    | 68.53                      | 64.98                   | 11.77                  | 25.63                   |
| ID    | 67.45                      | 67.04                   | 16.72                  | 34.66                   |
| IL    | 85.00                      | 84.65                   | 6.09                   | 34.50                   |
| IN    | 57.06                      | 56.70                   | 18.01                  | 23.93                   |
| IA    | 84.53                      | 83.79                   | 9.89                   | 54.02                   |
| KS    | 78.34                      | 77.87                   | 10.03                  | 36.28                   |
| KY    | 81.98                      | 81.22                   | 6.56                   | 29.87                   |
| LA    | 80.86                      | 79.51                   | 6.56                   | 27.70                   |
| ME    | 66.05                      | 65.52                   | 13.65                  | 26.56                   |
| MD    | 76.67                      | 74.87                   | 6.91                   | 22.70                   |
| MA    | 65.94                      | 64.14                   | 11.24                  | 21.77                   |
| MI    | 87.37                      | 86.19                   | 4.62                   | 31.97                   |
| MN    | 76.99                      | 75.51                   | 9.39                   | 31.43                   |
| MS    | 84.28                      | 83.59                   | 7.44                   | 39.87                   |
| MO    | 85.34                      | 84.34                   | 5.96                   | 34.70                   |
| MT    | 81.64                      | 81.46                   | 11.72                  | 52.11                   |
| NE    | 81.98                      | 81.45                   | 9.99                   | 45.43                   |
| NV    | 80.69                      | 79.03                   | 5.78                   | 24.17                   |
| NH    | 74.71                      | 74.48                   | 9.07                   | 26.81                   |
| NJ    | 62.43                      | 60.90                   | 13.74                  | 22.83                   |
| NM    | 85.13                      | 84.68                   | 7.88                   | 45.12                   |
| NY    | 73.95                      | 72.51                   | 7.91                   | 22.46                   |
| NC    | 70.96                      | 70.30                   | 11.41                  | 27.87                   |
| ND    | 58.66                      | 58.23                   | 19.71                  | 27.97                   |
| ОН    | 65.74                      | 64.70                   | 12.99                  | 24.93                   |
| OK    | 75.29                      | 74.83                   | 11.86                  | 36.14                   |
| OR    | 94.41                      | 94.41                   | 1.20                   | 20.25                   |
| PA    | 54.89                      | 53.77                   | 16.59                  | 20.18                   |
| RI    | 73.34                      | 72.71                   | 8.48                   | 23.34                   |
| SC    | 83.55                      | 80.13                   | 8.46                   | 42.97                   |
| SD    | 84.03                      | 82.85                   | 9.99                   | 52.59                   |
| TN    | 74.51                      | 73.08                   | 8.07                   | 23.60                   |
| TX    | 55.50                      | 54.72                   | 16.93                  | 21.11                   |
| UT    | 85.47                      | 83.58                   | 6.37                   | 37.45                   |

Table 7b BRFSS Cell Phone Outcome Rates by State, 2011

|           | AAPOR<br>Cooperation | AAPOR<br>Cooperation | AAPOR<br>Refusal | AAPOR<br>Response |
|-----------|----------------------|----------------------|------------------|-------------------|
| State     | Rate #4 (%)          | Rate #2 (%)          | Rate #2 (%)      | Rate #4 (%)       |
| VT        | 76.58                | 76.49                | 9.16             | 29.94             |
| VA        | 68.11                | 67.03                | 10.61            | 22.65             |
| WA        | 70.04                | 69.91                | 9.61             | 22.46             |
| WV        | 83.03                | 82.64                | 4.76             | 23.28             |
| WI        | 84.69                | 84.38                | 8.33             | 46.07             |
| WY        | 66.88                | 66.42                | 21.76            | 43.96             |
| GU        | 78.90                | 72.99                | 10.54            | 39.41             |
| PR        | 95.24                | 95.03                | 2.24             | 44.72             |
| Median *  | 76.58                | 74.87                | 9.39             | 27.87             |
| Minimum * | 52.30                | 51.36                | 0.82             | 20.18             |
| Maximum * | 98.14                | 94.84                | 21.76            | 54.02             |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

Table 8
BRFSS Combined Weighted Response Rates and Components by State, 2011

| BRFSS Combined Weighted Response Rates and Components by State, 2011 |                |                  |                |                |                  |                          |            |                |  |  |
|--|----------------|------------------|----------------|----------------|------------------|--------------------------|------------|----------------|--|--|
|  | Landline       | Landline         |                |                | Landline &       | Landline                 | Cell Phone | Weighted       |  |  |
| a  | Response       |                  |                | Total Sample   |                  | Percent of               | Percent of | Response       |  |  |
| State  | Rate (RR4)     |                  |                | TOTAL_CP       | Total            | Sample (P <sub>1</sub> ) |            | Rate (RR4)     |  |  |
| ΑT   | %<br>46.79     | N<br>71728       | %              | N<br>27000     | N<br>00010       | %<br>72.50               | %          | %<br>41.55     |  |  |
| AL   |                |                  | 27.68          | 27090          | 98818            | 72.59                    | 27.41      | 41.55          |  |  |
| AK   | 62.91          | 35850            | 51.94          | 9895           | 45745            | 78.37                    | 21.63      | 60.53          |  |  |
| AZ   | 42.85          | 108270           | 24.38          | 18510          | 126780           | 85.40                    | 14.60      | 40.15          |  |  |
| AR   | 51.97          | 60510            | 34.56          | 9030           | 69540            | 87.01                    | 12.99      | 49.71          |  |  |
| CA   | 37.43          | 281834<br>106770 | 20.43<br>39.05 | 38149<br>12720 | 319983           | 88.08                    | 11.92      | 35.40          |  |  |
| СО   | 63.81<br>44.09 | 84150            | 20.68          | 49140          | 119490<br>133290 | 89.35                    | 10.65      | 61.18<br>35.46 |  |  |
| CT   |                |                  |                |                |                  | 63.13                    | 36.87      |                |  |  |
| DE   | 45.66          | 43680            | 43.37          | 14130          | 57810            | 75.56                    | 24.44      | 45.10          |  |  |
| DC   | 44.75          | 111060           | 24.41          | 29220          | 140280           | 79.17                    | 20.83      | 40.51          |  |  |
| FL   | 44.36          | 184290           | 27.08<br>30.71 | 28440<br>22860 | 212730           | 86.63                    | 13.37      | 42.05          |  |  |
| GA   | 52.98          | 143400           |                |                | 166260           | 86.25                    | 13.75      | 49.92          |  |  |
| HI   | 48.64          | 96421            | 25.63          | 21899          | 118320           | 81.49                    | 18.51      | 44.38          |  |  |
| ID   | 54.92          | 69810            | 34.66          | 4980           | 74790            | 93.34                    | 6.66       | 53.57          |  |  |
| IL   | 52.73          | 62400            | 34.50          | 12360          | 74760            | 83.47                    | 16.53      | 49.72          |  |  |
| IN   | 47.61          | 115260           | 23.93          | 24150          | 139410           | 82.68                    | 17.32      | 43.51          |  |  |
| IA   | 62.98          | 63000            | 54.02          | 13470          | 76470            | 82.39                    | 17.61      | 61.40          |  |  |
| KS   | 57.12          | 180499           | 36.28          | 72630          | 253129           | 71.31                    | 28.69      | 51.14          |  |  |
| KY   | 61.35          | 146059           | 29.87          | 22830          | 168889           | 86.48                    | 13.52      | 57.10          |  |  |
| LA   | 52.89          | 163080           | 27.70          | 21058          | 184138           | 88.56                    | 11.44      | 50.01          |  |  |
| ME   | 56.56          | 114330           | 26.56          | 22380          | 136710           | 83.63                    | 16.37      | 51.65          |  |  |
| MD   | 53.49          | 100320           | 22.70          | 11520          | 111840           | 89.70                    | 10.30      | 50.31          |  |  |
| MA   | 44.22          | 320580           | 21.77          | 54060          | 374640           | 85.57                    | 14.43      | 40.98          |  |  |
| MI   | 55.21          | 136290           | 31.97          | 33780          | 170070           | 80.14                    | 19.86      | 50.60          |  |  |
| MN   | 63.04          | 109150           | 31.43          | 59580          | 168730           | 64.69                    | 35.31      | 51.88          |  |  |
| MS   | 50.98          | 80534            | 39.87          | 23220          | 103754           | 77.62                    | 22.38      | 48.49          |  |  |
| MO   | 58.71          | 51761            | 34.70          | 16859          | 68620            | 75.43                    | 24.57      | 52.81          |  |  |
| MT   | 64.78          | 76410            | 52.11          | 27690          | 104100           | 73.40                    | 26.60      | 61.41          |  |  |
| NE   | 65.98          | 171630           | 45.43          | 56400          | 228030           | 75.27                    | 24.73      | 60.89          |  |  |
| NV   | 49.48          | 60644            | 24.17          | 27509          | 88153            | 68.79                    | 31.21      | 41.58          |  |  |
| NH   | 49.27          | 61917            | 26.81          | 32340          | 94257            | 65.69                    | 34.31      | 41.57          |  |  |
| NJ   | 47.87          | 181410           | 22.83          | 43020          | 224430           | 80.83                    | 19.17      | 43.07          |  |  |
| NM   | 60.94          | 74040            | 45.12          | 20340          | 94380            | 78.45                    | 21.55      | 57.53          |  |  |
| NY   | 38.10          | 138570           | 22.46          | 53070          | 191640           | 72.31                    | 27.69      | 33.77          |  |  |
| NC   | 54.53          | 98100            | 27.87          | 19494          | 117594           | 83.42                    | 16.58      | 50.11          |  |  |
| ND   | 58.38          | 53460            | 27.97          | 27210          | 80670            | 66.27                    | 33.73      | 48.12          |  |  |
| OH   | 49.84          | 119010           | 24.93          | 25180          | 144190           | 82.54                    | 17.46      | 45.49          |  |  |
| OK   | 57.20          | 59039            | 36.14          | 16679          | 75718            | 77.97                    | 22.03      | 52.57          |  |  |
| OR   | 50.46          | 61275            | 20.25          | 23140          | 84415            | 72.59                    | 27.41      | 42.18          |  |  |
| PA   | 45.08          | 128370           | 20.18          | 66720          | 195090           | 65.80                    | 34.20      | 36.56          |  |  |
| RI   | 47.03          | 60180            | 23.34          | 26580          | 86760            | 69.36                    | 30.64      | 39.77          |  |  |
| SC   | 59.66          | 99360            | 42.97          | 37229          | 136589           | 72.74                    | 27.26      | 55.11          |  |  |
| SD   | 66.47          | 92520            | 52.59          | 18636          | 111156           | 83.23                    | 16.77      | 64.14          |  |  |
| TN   | 54.61          | 93017            | 23.60          | 1920           | 94937            | 97.98                    | 2.02       | 53.99          |  |  |
| TX   | 49.06          | 202680           | 21.11          | 36780          | 239460           | 84.64                    | 15.36      | 44.77          |  |  |

Table 8
BRFSS Combined Weighted Response Rates and Components by State, 2011

|           | Landline   | Landline            | Cell Phone | Cell Phone          | Landline & | Landline       | Cell Phone               | Weighted   |
|-----------|------------|---------------------|------------|---------------------|------------|----------------|--------------------------|------------|
|           | Response   | <b>Total Sample</b> | Response   | <b>Total Sample</b> | Cell Phone | Percent of     | Percent of               | Response   |
| State     | Rate (RR4) | TOTAL_LL            | Rate (RR4) | TOTAL_CP            | Total      | Sample $(P_1)$ | Sample (P <sub>2</sub> ) | Rate (RR4) |
|           | %          | N                   | %          | N                   | N          | %              | %                        | %          |
| UT        | 60.88      | 81540               | 37.45      | 26098               | 107638     | 75.75          | 24.25                    | 55.20      |
| VT        | 56.01      | 56760               | 29.94      | 17549               | 74309      | 76.38          | 23.62                    | 49.86      |
| VA        | 49.24      | 82080               | 22.65      | 20610               | 102690     | 79.93          | 20.07                    | 43.90      |
| WA        | 46.44      | 196230              | 22.46      | 19740               | 215970     | 90.86          | 9.14                     | 44.25      |
| WV        | 62.44      | 24120               | 23.28      | 12720               | 36840      | 65.47          | 34.53                    | 48.92      |
| WI        | 56.76      | 50010               | 46.07      | 8910                | 58920      | 84.88          | 15.12                    | 55.14      |
| WY        | 56.48      | 68460               | 43.96      | 43830               | 112290     | 60.97          | 39.03                    | 51.59      |
| GU        | 55.82      | 36000               | 39.41      | 8730                | 44730      | 80.48          | 19.52                    | 52.62      |
| PR        | 66.66      | 46440               | 44.72      | 13560               | 60000      | 77.40          | 22.60                    | 61.70      |
| VI        | 54.33      | 45090               | N/A        | N/A                 | 45090      | 100.00         | N/A                      | N/A        |
| Total     |            | 5559398             |            | 1405644             | 6965042    |                |                          |            |
| Median *  | 52.98      | 93017               | 27.87      | 23140               | 112290     | 79.93          | 20.07                    | 49.72      |
| Minimum * | 37.43      | 24120               | 20.18      | 1920                | 36840      | 60.97          | 2.02                     | 33.77      |
| Maximum * | 66.47      | 320580              | 54.02      | 72630               | 374640     | 97.98          | 39.03                    | 64.14      |

<sup>\*</sup> The Median, Minimum, and Maximum values do not include Guam (GU), Puerto Rico (PR), or the U.S. Virgin Islands (VI).

#### References

- 1. Methodologic Changes in the Behavioral Risk Factor Surveillance System in 2011 and Potential Effects on Prevalence Estimates. *MMWR Weekly* June 8, 2012 / 61(22);410-413, www.cdc.gov/mmwr/preview/mmwrhtml/mm6122a3.htm.
- 2. The American Association for Public Opinion Research. 2011. *Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys. 7th edition*. AAPOR. Available from <a href="http://www.aapor.org/Standard\_Definitions2.htm">http://www.aapor.org/Standard\_Definitions2.htm</a>
- 3. Groves, R. M. 2006. "Nonresponse Rates and Nonresponse Bias in Household Surveys." *Public Opinion Quarterly* 70 (5): 646–75.

Version #5 - Revised: 02/04/2013 Page 25 of 25