

2011 SMART BRFSS County Methodology

Overview

The Behavioral Risk Factor Surveillance System (BRFSS) Selected Metropolitan/Micropolitan Area Risk Trends (SMART) is a subset of the 2011 BRFSS combined landline and cell phone data set, which has been produced to provide local area estimates. The data set was produced by adding new raking weights designed to correspond to the 2011 population estimates for each eligible county.

The counties available for 2011 have been included based on criteria that were different than those of previous years. Counties with 500 or more respondents in the 2011 BRFSS combined landline and cell phone data are included in the SMART BRFSS county data set. The selection of a county is not restricted to counties included within a Metropolitan /Micropolitan Statistical Area (MMSA).

County Identifiers

A county name was collected from the respondent during the demographics section of the interview. The name of the county was used to determine the corresponding American National Standards Institute (ANSI) county code retained as a variable in the data set.

Landline data records resulting in an entry with a missing county variable value had an imputed county value assigned. The imputed county value is taken from the purchased telephone sample. The imputed county value represents the county most likely associated with the telephone number.

Cell phone data records resulting in entries with a missing county variable had an imputed county value assigned from one of three sources. An open-end text response provided by the respondent or information derived from the zip code provided the respondent--or the record was assigned to the largest county population by age and race/ethnicity.

Weighting methodology

The BRFSS raking method used to generate the 2011 final weight is described in the documentation available with the annual aggregate data release. For the details of the description of the raking methodology, refer to the [2011 Annual Data Web page](#). The raked weight generated with the county-level adjustments was obtained by adding four additional margins to the raking process. The final four margins included in the raking process were county, county by race and ethnicity, county by age group, and county by gender.

The variable **_CNTY** is the ANSI code of the county where the respondent resides or the imputed value assigned to a record with a missing county value. The variable **_CNTYWT** is the county-level weight variable that should be used when generating county-level estimates for questions that were asked of the entire sample.

The list of counties is included in Appendix A. There are 224 counties included for 2011 SMART County data that met the criteria of 500 interviews. The sample code for analysis is in Appendix B.

Appendix A: List of the 224 counties that have County-level Weights in the 2011 SMART BRFSS Dataset

State Name	ANSI State	ANSI County	County Name
Alabama	1	73	Jefferson
Alabama	1	97	Mobile
Alaska	2	20	Anchorage
Alaska	2	90	Fairbanks North Star
Alaska	2	170	Matanuska-Susitna
Arizona	4	13	Maricopa
Arizona	4	19	Pima
Arkansas	5	119	Pulaski
California	6	1	Alameda
California	6	13	Contra Costa
California	6	37	Los Angeles
California	6	59	Orange
California	6	65	Riverside
California	6	67	Sacramento
California	6	71	San Bernardino
California	6	73	San Diego
California	6	85	Santa Clara
Colorado	8	1	Adams
Colorado	8	5	Arapahoe
Colorado	8	13	Boulder
Colorado	8	31	Denver
Colorado	8	35	Douglas
Colorado	8	41	El Paso
Colorado	8	59	Jefferson
Colorado	8	69	Larimer
Colorado	8	123	Weld
Connecticut	9	1	Fairfield

State Name	ANSI State	ANSI County	County Name
Connecticut	9	3	Hartford
Connecticut	9	9	New Haven
Delaware	10	1	Kent
Delaware	10	3	New Castle
Delaware	10	5	Sussex
District of Columbia	11	1	District of Columbia
Florida	12	86	Miami-Dade
Georgia	13	89	DeKalb
Georgia	13	121	Fulton
Hawaii	15	1	Hawaii
Hawaii	15	3	Honolulu
Hawaii	15	7	Kauai
Hawaii	15	9	Maui
Idaho	16	1	Ada
Idaho	16	27	Canyon
Illinois	17	31	Cook
Indiana	18	89	Lake
Indiana	18	97	Marion
Iowa	19	113	Linn
Iowa	19	153	Polk
Kansas	20	45	Douglas
Kansas	20	91	Johnson
Kansas	20	173	Sedgwick
Kansas	20	177	Shawnee
Kansas	20	209	Wyandotte
Kentucky	21	111	Jefferson
Louisiana	22	19	Calcasieu
Louisiana	22	33	E. Baton Rouge

State Name	ANSI State	ANSI County	County Name
Louisiana	22	113	Vermilion
Maine	23	1	Androscoggin
Maine	23	3	Aroostook
Maine	23	5	Cumberland
Maine	23	7	Franklin
Maine	23	9	Hancock
Maine	23	11	Kennebec
Maine	23	13	Knox
Maine	23	15	Lincoln
Maine	23	17	Oxford
Maine	23	19	Penobscot
Maine	23	27	Waldo
Maine	23	29	Washington
Maine	23	31	York
Maryland	24	3	Anne Arundel
Maryland	24	5	Baltimore
Maryland	24	21	Frederick
Maryland	24	31	Montgomery
Maryland	24	33	Prince George's
Maryland	24	510	Baltimore (city)
Massachusetts	25	1	Barnstable
Massachusetts	25	5	Bristol
Massachusetts	25	9	Essex
Massachusetts	25	13	Hampden
Massachusetts	25	17	Middlesex
Massachusetts	25	21	Norfolk
Massachusetts	25	23	Plymouth
Massachusetts	25	25	Suffolk
Massachusetts	25	27	Worcester

State Name	ANSI State	ANSI County	County Name
Michigan	26	81	Kent
Michigan	26	125	Oakland
Michigan	26	163	Wayne
Minnesota	27	3	Anoka
Minnesota	27	37	Dakota
Minnesota	27	53	Hennepin
Minnesota	27	123	Ramsey
Minnesota	27	137	St. Louis
Minnesota	27	163	Washington
Missouri	29	95	Jackson
Missouri	29	189	St. Louis
Missouri	29	510	St. Louis (city)
Montana	30	13	Cascade
Montana	30	29	Flathead
Montana	30	31	Gallatin
Montana	30	41	Hill
Montana	30	47	Lake
Montana	30	49	Lewis & Clark
Montana	30	63	Missoula
Montana	30	111	Yellowstone
Nebraska	31	1	Adams
Nebraska	31	19	Buffalo
Nebraska	31	43	Dakota
Nebraska	31	55	Douglas
Nebraska	31	79	Hall
Nebraska	31	109	Lancaster
Nebraska	31	111	Lincoln
Nebraska	31	119	Madison
Nebraska	31	141	Platte

State Name	ANSI State	ANSI County	County Name
Nebraska	31	153	Sarpy
Nebraska	31	157	Scotts Bluff
Nebraska	31	173	Thurston
Nevada	32	3	Clark
Nevada	32	31	Washoe
New Hampshire	33	5	Cheshire
New Hampshire	33	9	Grafton
New Hampshire	33	11	Hillsborough
New Hampshire	33	13	Merrimack
New Hampshire	33	15	Rockingham
New Hampshire	33	17	Strafford
New Jersey	34	1	Atlantic
New Jersey	34	3	Bergen
New Jersey	34	5	Burlington
New Jersey	34	7	Camden
New Jersey	34	9	Cape May
New Jersey	34	13	Essex
New Jersey	34	15	Gloucester
New Jersey	34	17	Hudson
New Jersey	34	19	Hunterdon
New Jersey	34	21	Mercer
New Jersey	34	23	Middlesex
New Jersey	34	25	Monmouth
New Jersey	34	27	Morris
New Jersey	34	29	Ocean
New Jersey	34	31	Passaic
New Jersey	34	35	Somerset
New Jersey	34	37	Sussex
New Jersey	34	39	Union

State Name	ANSI State	ANSI County	County Name
New Jersey	34	41	Warren
New Mexico	35	1	Bernalillo
New Mexico	35	13	Dona Ana
New Mexico	35	43	Sandoval
New Mexico	35	45	San Juan
New Mexico	35	49	Santa Fe
New Mexico	35	61	Valencia
New York	36	47	Kings
New York	36	61	New York
New York	36	81	Queens
North Carolina	37	63	Durham
North Carolina	37	81	Guilford
North Carolina	37	119	Mecklenburg
North Carolina	37	183	Wake
North Dakota	38	15	Burleigh
North Dakota	38	17	Cass
Ohio	39	35	Cuyahoga
Ohio	39	49	Franklin
Ohio	39	61	Hamilton
Ohio	39	95	Lucas
Ohio	39	99	Mahoning
Ohio	39	113	Montgomery
Ohio	39	151	Stark
Ohio	39	153	Summit
Oklahoma	40	27	Cleveland
Oklahoma	40	109	Oklahoma
Oklahoma	40	143	Tulsa
Oregon	41	5	Clackamas
Oregon	41	39	Lane

State Name	ANSI State	ANSI County	County Name
Oregon	41	51	Multnomah
Oregon	41	67	Washington
Pennsylvania	42	3	Allegheny
Pennsylvania	42	101	Philadelphia
Rhode Island	44	3	Kent
Rhode Island	44	7	Providence
Rhode Island	44	9	Washington
South Carolina	45	3	Aiken
South Carolina	45	13	Beaufort
South Carolina	45	19	Charleston
South Carolina	45	45	Greenville
South Carolina	45	51	Horry
South Carolina	45	75	Orangeburg
South Carolina	45	79	Richland
South Carolina	45	83	Spartanburg
South Dakota	46	11	Brookings
South Dakota	46	13	Brown
South Dakota	46	29	Codington
South Dakota	46	65	Hughes
South Dakota	46	81	Lawrence
South Dakota	46	99	Minnehaha
South Dakota	46	103	Pennington
Texas	48	29	Bexar
Texas	48	133	Eastland
Texas	48	157	Fort Bend
Texas	48	201	Harris
Texas	48	303	Lubbock
Texas	48	329	Midland
Texas	48	423	Smith

State Name	ANSI State	ANSI County	County Name
Texas	48	439	Tarrant
Texas	48	453	Travis
Utah	49	11	Davis
Utah	49	35	Salt Lake
Utah	49	45	Tooele
Utah	49	49	Utah
Utah	49	51	Wasatch
Utah	49	57	Weber
Vermont	50	7	Chittenden
Vermont	50	21	Rutland
Vermont	50	23	Washington
Vermont	50	25	Windham
Vermont	50	27	Windsor
Washington	53	11	Clark
Washington	53	33	King
Washington	53	53	Pierce
Washington	53	61	Snohomish
Washington	53	63	Spokane
Washington	53	67	Thurston
West Virginia	54	39	Kanawha
Wisconsin	55	79	Milwaukee
Wyoming	56	13	Fremont
Wyoming	56	21	Laramie
Wyoming	56	25	Natrona

Appendix B: Sample Code for Analysis

SUDAAN Code Example:

For example, to estimate for DeKalb County, GA (_STATE=13, _CNTY=89). The following SAS/SUDAAN code that could be used to do this:

```
data xxxx;
set yyyy;

if (_STATE=13 & _CNTY=89) then DUMMY=1;
run;

proc sort data=xxxx;
by _STSTR SEQNO;
run;

proc descript data=xxxx filetype=sas design=wr;
nest _STSTR SEQNO / missunit;
weight _CNTYWT;
subpopn DUMMY=1 / name="DeKalb County, GA";
var (your analysis variable);
catlevel (the level of your analysis variable for which you want an estimate);
run;
```

SAS Code Example:

```
proc surveymeans data=xxxx nobis mean stderr sum sumwgt;
strata _ststr;
weight _cntywt;
var (your analysis variable);
class (your analysis variable);
domain _state*_cnty;
run;
```