



**2020**

**Behavioral Risk Factor Surveillance System**

**Asthma Call-back Survey**

**Summary Data Quality Report**



**National  
Asthma  
Control  
Program**

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## 2020 Asthma Call-back Survey (ACBS) Summary Data Quality Report

### Introduction

Procedures for interview disposition and response rates for the Behavioral Risk Factor Surveillance System (BRFSS) Asthma Call-back Survey (ACBS) follow the usual BRFSS procedures; however, some additions and adaptations are required for the call-back survey. Disposition codes, disposition code categories, and response rates are discussed in the sections below. Figure 1 is a flow chart that describes the eligibility paths BRFSS respondents with asthma follow through the ACBS process.

Because asthma characteristics vary by season, a seasonal analysis must consider any state for which interviewing was not conducted throughout the year. States may have interrupted interviewing due to contract interruptions with their data collection company. In addition, some ACBS interviews are finalized in the first few months of the next calendar year. If a state has less than 6 complete months of child or adult data, the data from that state are not considered sufficiently comparable with the data from other states and are excluded from the public release file and the response rate calculations. If a state has fewer than seventy-five (75) complete child interviews, reliable weights cannot be calculated and the child data from that state are excluded from the public release file. Also, if a state has fewer than two hundred (200) complete adult interviews, reliable weights cannot be calculated and the adult data for that state are excluded from the public release file.

Appendix A presents tables showing disposition code categories, response rates, and completed interviews by month for each state participating in the ACBS each year. Appendix B provides additional instructions on assigning the ACBS-specific disposition codes. Appendix C presents the ACBS nonresponse bias analysis plan and supporting tables showing demographic breakout and prevalence for each state. Details on BRFSS response rates and procedures can be found in the BRFSS Data Quality Report Handbook and the BRFSS Summary Data Quality Report for each survey year ([http://www.cdc.gov/brfss/annual\\_data/annual\\_data.htm](http://www.cdc.gov/brfss/annual_data/annual_data.htm)).

### Disposition Codes

The BRFSS disposition codes are used for the ACBS; however, a few additional codes are needed to account for situations specific to a call-back survey. In the list below, disposition codes added to the ACBS are underlined and bolded. There are no equivalent BRFSS codes for ACBS-specific codes. Detailed descriptions of the ACBS codes can be found in Appendix B.

The ACBS 4-digit disposition codes for 2020 are:

#### **I. Eligible, contacted: complete interview**

1100 Complete.

1200 Partial complete (through the end of section 8).

#### **II. Eligible, contacted: refusal or termination**

- 4413** Refused to participate in the call-back during the BRFSS interview.
- 2112** Refused to begin the ACBS interview after contacted.
- 2120** Terminated within the questionnaire during the ACBS interview before section 9.
- 2211** Refused to allow combining ACBS responses with BRFSS responses.
- 2212** Refused to answer the “ever had asthma” question during the ACBS interview.

### **III. Eligible, lost to follow-up because unable to contact or communicate with the BRFSS respondent with asthma**

- 2111 Hang up or termination before respondent contacted. Household contacted but ACBS respondent not contacted.
- 2210 Selected respondent never reached or reached but did not begin interview during interviewing period. Selected respondent away from residence during the entire interviewing period.
- 2220 Telephone answering device, message confirming private residential status. Telecommunication technological barrier, message confirming private residential status.
- 2320 Selected respondent physically or mentally unable to complete an interview during the entire interviewing period.
- 2330 Language problem after respondent selection.
- 3100 Contact, hang-up or termination, unknown if private residence.
- 3130 No answer.
- 3140 Telephone answering device, unknown if private residence.
- 3200 Hang-up or termination, known household. Household contact, eligibility undetermined.
- 3322 Physical or mental impairment.
- 3330 Language problem.
- 4100 Household members away from residence during entire interviewing period.
- 4900 Miscellaneous, non-eligible (for ACBS miscellaneous non-contact).
- 4306** Selected ACBS respondent no longer living in the BRFSS household.

#### **Temporary codes: should be resolved prior to submission**

- 5050 Hang-up, unknown if housing unit.
- 5100 Appointment.
- 5111 Household-level refusal.
- 5112 Refusal: hang-up or termination.
- 5120 Break off/termination in questionnaire before Section 9.
- 5130 No answer.
- 5140 Answering machine, unknown if private residence.
- 5220 Answering machine, message confirming residential status.
- 5320 Physical or mental impairment.
- 5330 Language problem.

- 5550 Busy.
- 5560 Unsafe location for interview.

#### **IV. Eligible, lost to follow-up for technical reasons**

- 3150 Telecommunication technological barrier, unknown if private residence.
- 3700 On never-call list.
- 4200 Dedicated fax/data/modem line with no human contact.
- 4300 Telephone number no longer in service or changed. Non-working/disconnected number.
- 4400 Busy/Fast busy/Circuit busy.
- 4430 Call forwarding/Pager.
- 4450 Landline sample number connects to cell phone.
- 4460 Cell phone sample number connects to landline.
- 4470 Cell phone respondent also has landline, less than 90% of all calls on cell phone.
- 4500 Not a private residence – business.
- 4510 Not a private residence – group home.
- 5150 Technological barrier other than answering machine—unknown if private residence.
- 5200 Fax/Data/Modem.
- 5300 Phone number temporarily out of service. Possible non-working number.
- 5400 Technological barrier other than answering machine with message confirming residential status. Fast busy. Circuit busy.
- 5599 Mistaken Ctrl-End.
- 5700 Supervisor attention needed.
- 5900 Null attempt.
- 9999** Missing disposition code.

#### **V. Ineligible: all codes specific to ACBS (no BRFSS equivalent)**

- 2290** Most-knowledgeable person is not parent or guardian.
- 2291** No parent or legal guardian in the household (child ineligible).
- 4480** Not recruited for call-back at BRFSS interview (excluded by state).
- 4490** Random child/adult selection: adult ineligible, child selected.
- 4491** Random child/adult selection: child ineligible, adult selected.
- 4405** Out-of-state when ACBS records are not transferred to state of residence.
- 4700** Household, no eligible respondent (respondent does not have asthma).
- 4411** Selected respondent not eligible for follow-up.
- 4412** Transferred from BRFSS but not attempted (excluded by state).
- 4471** Misdiagnosed asthma in respondent.

## Definitions and Labels for Disposition Code Categories

Because the ACBS is a call-back interview, all those identified with asthma at the BRFSS interview are, with a few notable exceptions, eligible for the call-back survey. The ACBS eligibility flow chart (Figure 1) summarizes how BRFSS respondents are categorized for ACBS response rate calculation.

ACBS interviews are considered complete (COIN) if the respondents finish the entire interview or if they complete through section 8 of the ACBS interview. ACBS interviews are refusals if the respondent refuses participation at either the BRFSS interview or at the time of the ACBS interview. Terminations are ACBS interviews that start but are terminated during the interview before completing section 8 (Medication Section).

The disposition codes that relate to contact problems or technology issues are considered “eligible but lost to follow-up.” If they had been contacted, a small proportion of those eligible but lost to follow-up might have been ineligible.

BRFSS respondents with asthma who are considered ineligible for the ACBS include those who are not asked to participate at the time of the BRFSS interview. Each year, between 10% and 15% of those technically eligible are not asked to participate in the call-back survey.

Respondents might not be asked for several reasons:

- States with split samples may include respondents in the call-back only if they are in specified splits of the BRFSS sample. Counts for states that exclude split-sample respondents are excluded from the following tables and rate calculations.
- The BRFSS respondent may partially complete the BRFSS interview but terminate before the call-back request.
- Specific state BRFSS call-back contracts may limit the number of call-back interviews due to budgetary constraints.
- States may stop conducting call-back interviews during contract negotiations.

BRFSS respondents with asthma who are asked to participate in the ACBS but are later classified as ineligible include:

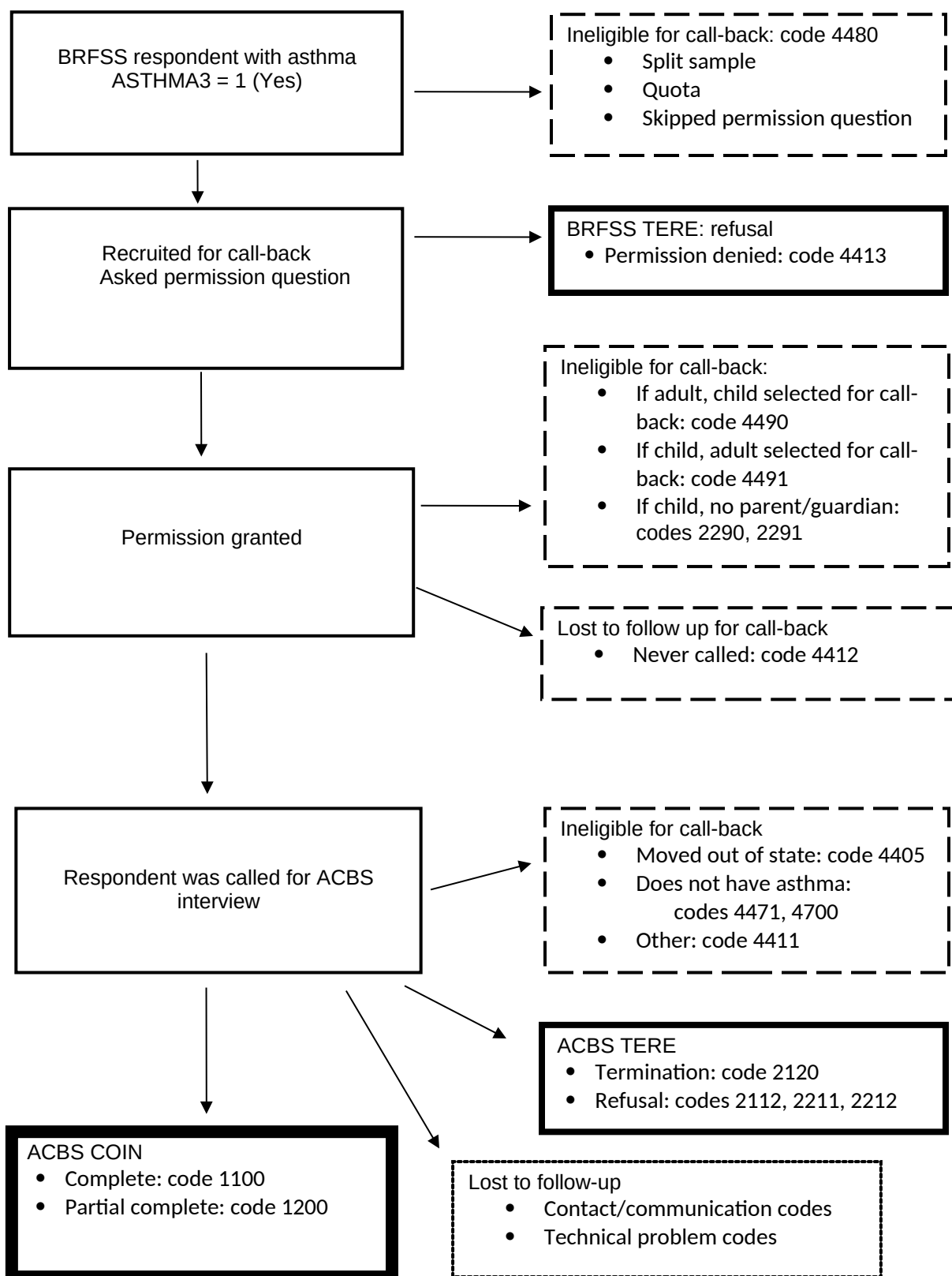
- Respondents in households where both the selected adult and selected child in the household have asthma. When both have asthma, only one is eligible for the ACBS.
- Respondents who move out-of-state between the BRFSS interview and the ACBS interview in states that are not transferring ACBS interview data or to/from states not participating in the ACBS.
- Respondents who indicate, at the time of the ACBS interview, that the reported diagnosis of asthma was an error.
- Child respondents for whom the adult BRFSS respondent is not the child’s parent or guardian.
- Some respondents in states that have reached a pre-specified quota for ACBS interviews.

The following table indicates how disposition codes are grouped into response rate categories shown in the eligibility flow chart (Figure 1):

Table 1: Disposition Code Categories

Category	Disposition Codes	Notes
Eligible COIN Completed interview	1100, 1200	Through section 8
Eligible TERE Terminations and refusals	<b><u>4413</u></b>	At BRFSS interview
	<b><u>2112, 2120, 2211, 2212,</u></b>	At ACBS
Eligible, lost to follow-up Not interviewed	2111, 2210, 2220, 2320, 2330, 3100, 3130, 3140, 3200, 3322, 3330, 4100, 4900, <b><u>4306,</u></b> 5050, 5100, 5111, 5112, 5120, 5130, 5140, 5220, 5320, 5330, 5550, 5560	Unable to contact or communicate with eligible respondent
	3150, 3700, 4200, 4300, 4400, 4430, 4450, 4460, 4470, 4500, 4510, 5400, 5150, 5200, 5300, 5599, 5700, 5900, <b><u>9999</u></b>	Technical problems
Ineligible	<b><u>2290, 2291, 4480, 4490, 4491</u></b>	At BRFSS interview
	<b><u>4405, 4700, 4411, 4471</u></b>	At ACBS
	<b><u>4412</u></b>	No ACBS attempt

**Figure 1: ACBS Eligibility Flow Chart:**





## ACBS Response Rates

The ACBS Interview Completion Rate is the proportion of completed interviews among eligible respondents who are contacted for and started the ACBS interview. Those who refuse at the initial BRFSS interview (4413), are ineligible, and those never contacted are excluded from the denominator. This rate is based on actual contacts with the eligible respondents at the time of the call-back interview. The numerator of the rate includes completed interviews (COIN). The denominator of the rate includes completed interviews (COIN), plus the number contacted later for the ACBS interview who refused or terminated the interview (disposition codes 2112, 2120, 2211, and 2212).

The ACBS Cooperation Rate is the proportion of completed interviews among all eligible respondents who are recruited and contacted for the ACBS interview. Eligible respondents who refuse the call-back at the time of the BRFSS interview are included. Non-contacts are excluded from the denominator, but contacts with communication problems specific to the respondent with asthma are included. The numerator of the rate consists of completed interviews (COIN). The denominator of the rate includes completed interviews (COIN), plus refusals and terminations (TERE), plus the number of non-interviews that involved language problems with the respondent with asthma (2330) or physical/mental impairment of the respondent with asthma (2320). A Cooperation Rate below sixty-five percent (65%) may indicate some problem with interviewing techniques.

The Refusal Rate is the percentage of all eligible respondents who refuse to be interviewed or terminate an interview early in the questionnaire. The numerator includes terminations and refusals (TERE). The denominator is the same as for the CASRO rate (below). The denominator includes completed interviews (COIN), terminations and refusals (TERE), and a proportion of those eligible, but lost to follow-up. The proportion represents an estimate of the number of those lost to follow-up who would be expected to remain eligible if they had been contacted. The proportion of cases lost to follow-up that are estimated to be eligible is the same as the proportion of cases not lost to follow-up that are eligible. A Refusal Rate above thirty-five percent (35%) indicates some problem with interviewing techniques.

The Council of American Survey Research Organizations (CASRO) rate is a measure of respondent cooperation and is generally defined as the proportion of all eligible respondents in the sample for whom an interview has been completed. The numerator of the CASRO rate includes completed interviews (COIN). The denominator includes completed interviews (COIN), terminations and refusals (TERE), and a proportion of those eligible, but lost to follow-up. The proportion represents an estimate of the number of those lost to follow-up who would be expected to remain eligible if they had been contacted. The proportion of cases lost to follow-up that are estimated to be eligible is the same as the proportion of cases not lost to follow-up that are eligible. A CASRO rate below forty percent (40%) should be cause for a review of data collection practices that could affect it, especially sample management and interviewer recruitment, retention, training, supervision, and monitoring.

Response rate formulae for the ACBS are specified below. Response rate tables for the ACBS, including response rates for each state/area participating in the ACBS, can be found in Appendix A. Details on ACBS-specific disposition codes can be found in Appendix B.

## Response Rate Formulae for the ACBS

### ACBS Interview Completion Rate:

$$\frac{1100 + 1200}{1100 + 1200 + \underline{2112} + \underline{2120} + \underline{2211} + \underline{2212}}$$

### ACBS Cooperation Rate:

$$\frac{1100 + 1200}{1100 + 1200 + \underline{2112} + \underline{2120} + \underline{2211} + \underline{2212} + \underline{4413} + 2320 + 2330}$$

### ACBS CASRO Rate:

$$\frac{1100 + 1200}{[1100 + 1200 + \underline{2112} + \underline{2120} + \underline{2211} + \underline{2212} + \underline{4413}] + P * [\text{Eligible lost}]}$$

### ACBS Refusal Rate:

$$\frac{\underline{2112} + \underline{2120} + \underline{2211} + \underline{2212} + \underline{4413}}{[1100 + 1200 + \underline{2120} + \underline{2211} + \underline{2212} + \underline{2112} + \underline{4413}] + P * [\text{Eligible lost}]}$$

Where:

P (Proportion) = (COIN + ACBS TERE) / (COIN + ACBS TERE + Ineligible)

$$\frac{[(1100+1200) + (\underline{2112} + \underline{2120} + \underline{2211} + \underline{2212})]}{[(1100+1200) + (\underline{2112} + \underline{2120} + \underline{2211} + \underline{2212}) + \underline{4405} + \underline{4700} + \underline{4411} + \underline{4471} + \underline{2291} + \underline{2290} + \underline{4480} + \underline{4490} + \underline{4491} + \underline{4412}]}$$

Eligible lost = 2111, 2210, 2220, 2320, 2330, 3100, 3130, 3140, 3200, 3322, 3330, 4100, 4900, 4306, 5050, 5100, 5111, 5112, 5120, 5130, 5140, 5220, 5320, 5330, 5550, 5560, 3150, 3700, 4200, 4300, 4400, 4430, 4450, 4460, 4470, 4500, 4510, 5400, 5150, 5200, 5300, 5599, 5700, 5900, 5999

## ACBS Nonresponse Bias

The Asthma Call-back Survey (ACBS) uses post-stratification weighting to ensure the sample conforms to the state estimated asthma population with respect to geography, age, sex, race, ethnicity, and other characteristics. Nonresponse bias, however, cannot be completely removed. In order to communicate the potential impact of nonresponse bias on the ACBS analysis results, in Appendix C two groups of tables are being provided (see Appendix C). The first group of tables presents ACBS unweighted frequencies for respondents, non-respondents, and BRFSS-eligible asthma respondents by age, sex, and race/ethnicity demographic categories for each state. The second group of tables report current asthma prevalence (Appendix C). ACBS respondents are those respondents who completed or partially completed the interview. Nonresponse for the ACBS is influenced by eligible BRFSS respondents for which no interview was conducted such as: (1) refusals, terminations, and non-consent; (2) lost to follow-up due to non-contact or communication; and (3) lost to follow-up due to technological circumstances. BRFSS-eligible respondents are individuals on the BRFSS survey who answered, “Yes” to the question, “Has a doctor, nurse, or other health professional EVER told you that you had asthma?” A respondent is classified as current prevalence if he or she also responded “Yes” to the question: “Do you still have asthma?”

## **Appendix A:**

### **List of Tables in the 2020 BRFSS ACBS Summary Data Quality Report**

#### **Landline and Cell Phone Samples**

Table 1.1 ACBS 2020 Disposition Categories by State/Territory: Adult Landline and Cell Phone Sample

Table 1.2 ACBS 2020 Disposition Categories by State/Territory: Child Landline and Cell Phone Sample

Table 2.1 ACBS 2020 Response Rates by State/Territory: Adult Landline and Cell Phone Sample

Table 2.2 ACBS 2020 Response Rates by State/Territory: Child Landline and Cell Phone Sample

Table 3.1 ACBS 2020 Completed Interviews by State/Territory and Month: Adult Landline and Cell Phone Sample

Table 3.2 ACBS 2020 Completed Interviews by State/Territory and Month: Child Landline and Cell Phone Sample

**Note:**

In this document, the term “state” is used to refer to all areas participating in the ACBS, including Puerto Rico

**Table 1.1 ACBS 2020 Disposition Categories by State/Territory: Adult Landline and Cell Phone Sample**

State	BRFSS Asthma	Ineligible Not Recruited		Recruited for Call-back				Ineligible		Total Called	Eligible				Ineligible
				Refused BRFSS TERE		Agreed		Child Selected	Never Called		COIN	ACBS TERE	Lost to Follow up		
													Contact	Technical	
Arizona	1416	235	16.60%	452	31.92%	729	51.48%	0	0	729	393	15	262	50	9
Connecticut	1300	185	14.23%	251	19.31%	864	66.46%	88	35	741	434	38	227	33	9
Florida	1241	275	22.16%	225	18.13%	741	59.71%	18	0	723	450	63	190	20	0
Georgia	1105	204	18.46%	159	14.39%	742	67.15%	20	47	675	401	40	198	29	7
Hawaii	1087	111	10.21%	346	31.83%	630	57.96%	22	1	607	338	13	241	13	2
Indiana	1119	159	14.21%	258	23.06%	702	62.73%	28	0	674	410	37	184	41	2
Iowa	1060	126	11.89%	313	29.53%	621	58.58%	0	1	620	369	20	222	9	0
Kansas	1266	61	4.82%	337	26.62%	868	68.56%	37	130	701	325	34	321	17	4
Maine	1549	104	6.71%	446	28.79%	999	64.49%	30	62	907	482	47	358	17	3
Massachusetts	998	92	9.22%	318	31.86%	588	58.92%	11	31	546	326	22	178	16	4
Michigan	1059	86	8.12%	286	27.01%	687	64.87%	37	35	615	415	59	132	4	5
Minnesota	1823	353	19.36%	358	19.64%	1112	61.00%	28	0	1084	659	65	327	33	0
Missouri	1109	78	7.03%	350	31.56%	681	61.41%	30	3	648	332	14	267	22	13
Montana	846	66	7.80%	184	21.75%	596	70.45%	16	0	580	319	31	212	13	5
Nebraska	1458	124	8.50%	402	27.57%	932	63.92%	18	0	914	555	61	280	8	10
New Hampshire	905	103	11.38%	99	10.94%	703	77.68%	23	0	680	515	60	92	9	4
New Jersey	1403	332	23.66%	134	9.55%	937	66.79%	52	0	885	655	94	110	18	8
New Mexico	901	89	9.88%	289	32.08%	523	58.05%	19	22	482	318	27	111	10	16
New York	617	95	15.40%	103	16.69%	419	67.91%	9	0	410	244	27	121	17	1
Ohio	1978	496	25.08%	387	19.57%	1095	55.36%	28	152	915	559	54	275	27	0
Oregon	768	49	6.38%	224	29.17%	495	64.45%	0	11	484	307	16	152	7	2
Pennsylvania	698	70	10.03%	137	19.63%	491	70.34%	15	1	475	249	26	191	5	4
Rhode Island	873	146	16.72%	152	17.41%	575	65.86%	34	21	520	317	28	154	20	1
Texas	1241	193	15.55%	146	11.76%	902	72.68%	83	1	817	589	54	129	29	16
Utah	1615	176	10.90%	508	31.46%	931	57.65%	47	29	855	525	22	275	24	9
Vermont	885	101	11.41%	76	8.59%	708	80.00%	18	0	690	548	62	72	5	3
Wisconsin	601	120	19.97%	80	13.31%	401	66.72%	16	9	376	290	16	59	2	9
Puerto Rico	822	35	4.26%	194	23.60%	593	72.14%	22	1	570	338	15	171	13	33
<b>Total</b>	31743	4264	12.86%	7214	22.38%	20265	64.76%	749	592	18923	11662	1060	5511	511	179

**Notes:**

States only included in version 2 of sample split: New York

States not included in public-release file due to having too few records to produce reliable weights: California, Illinois

States and territories not included in public-release file due to collecting less than 6 months of data during 2020: Kentucky, Nevada and Maryland

Table 1.2 ACBS 2020 Disposition Categories by State/Territory: Child Landline and Cell Phone Sample															
State	BRFSS Asthma	Ineligible Not Recruited	Recruited for Call-back				Ineligible		Total Called	Eligible				Ineligible	
			Refused BRFSS TERE		Agreed		Child Selected	Never Called		COIN	ACBS TERE	Lost to Follow-up			
												Contact	Technical		
<b>States included in public release file because of having more than 75 completes</b>															
Connecticut	316	13	4.11%	62	19.62%	241	76.27%	0	7	234	121	21	81	8	3
Georgia	276	3	1.09%	49	17.75%	224	81.16%	0	17	171	81	22	60	5	3
Minnesota	305	51	16.72%	71	23.28%	183	60.00%	0	0	150	77	17	49	7	0
New Jersey	284	16	5.63%	28	9.86%	240	84.51%	0	0	229	120	40	59	9	1
Texas	312	15	4.81%	40	12.82%	257	82.37%	0	0	257	137	27	77	14	2
Utah	311	41	13.18%	63	20.26%	207	66.56%	0	8	168	84	4	72	7	1
Vermont	156	7	4.49%	15	9.62%	134	85.90%	0	0	114	86	11	16	1	0
<b>States excluded from public releasing file because of less than 75 completes</b>															
California	99	14	14.14%	25	25.25%	60	60.61%	0	0	50	22	13	14	0	1
Florida	204	37	18.14%	31	15.20%	136	66.67%	0	0	119	65	7	43	4	0
Hawaii	222	40	18.02%	52	23.42%	130	58.56%	0	0	105	42	3	58	2	0
Indiana	170	3	1.76%	44	25.88%	123	72.35%	0	0	120	62	16	36	4	2
Kansas	275	40	14.55%	44	16.00%	191	69.45%	0	21	162	44	9	103	5	1
Maine	190	1	0.53%	45	23.68%	144	75.79%	0	34	95	47	2	42	1	3
Massachusetts	70	1	1.43%	31	44.29%	38	54.29%	0	0	38	17	1	20	0	0
Michigan	189	7	3.70%	51	26.98%	131	69.31%	0	8	115	67	13	30	0	3
Missouri	227	20	8.81%	47	20.70%	160	70.48%	0	2	146	72	2	67	4	1
Montana	151	24	15.89%	30	19.87%	97	64.24%	0	0	84	28	7	47	1	1
Nebraska	250	26	10.40%	58	23.20%	166	66.40%	0	5	130	64	15	47	2	2
New Hampshire	129	3	2.33%	13	10.08%	113	87.60%	0	0	95	64	8	20	2	1
New Mexico	172	38	22.09%	5	2.91%	129	75.00%	0	0	102	52	13	31	2	4
New York	118	5	4.24%	16	13.56%	97	82.20%	0	1	83	40	12	22	9	0
Ohio	314	74	23.57%	53	16.88%	187	59.55%	0	26	128	61	16	44	7	0
Pennsylvania	140	20	14.29%	17	12.14%	103	73.57%	0	0	78	35	10	31	1	1
Rhode Island	153	5	3.27%	36	23.53%	112	73.20%	0	4	107	47	7	49	3	1
Wisconsin	95	17	17.89%	11	11.58%	67	70.53%	0	3	58	34	4	18	1	1
Puerto Rico	1/4	20	11.49%	25	14.37%	129	74.14%	0	0	98	66	3	22	2	5
Total	5302	541	10.20%	962	18.14%	3799	71.65%	0	136	3236	1635	303	1158	101	37
<b>Notes:</b>															
States that did not collect child data: Arizona, Iowa, Nevada, and Oregon															
State only included in version 1 of sample split: Massachusetts															
State only included in version 2 of sample split: New York															

**Table 2.1 ACBS 2020 Response Rates by State/Territory: Adult Landline and Cell Phone Sample**

State	Completion Rate	Cooperation Rate	Refusal Rate	Casro Rate
Arizona	96.32%	45.49%	44.26%	37.24%
Connecticut	91.95%	59.37%	32.90%	49.40%
Florida	87.72%	60.98%	33.04%	51.63%
Georgia	90.93%	66.61%	26.92%	54.25%
Hawaii	96.30%	48.42%	40.79%	38.41%
Indiana	91.72%	58.16%	34.18%	47.50%
Iowa	94.86%	52.41%	38.01%	42.12%
Kansas	90.53%	46.63%	41.16%	36.06%
Maine	91.12%	49.39%	39.52%	38.64%
Massachusetts	93.68%	48.88%	42.24%	40.50%
Michigan	87.55%	54.39%	40.06%	48.19%
Minnesota	91.02%	60.91%	32.10%	50.00%
Missouri	95.95%	47.70%	40.05%	36.53%
Montana	91.14%	59.63%	30.10%	44.66%
Nebraska	90.10%	54.52%	37.07%	44.44%
New Hampshire	89.57%	76.41%	21.02%	68.09%
New Jersey	87.45%	73.93%	23.58%	67.73%
New Mexico	92.17%	50.08%	43.95%	44.23%
New York	90.04%	64.72%	27.46%	51.54%
Ohio	91.19%	55.90%	38.56%	48.88%
Oregon	95.05%	56.12%	35.27%	45.12%
Pennsylvania	90.55%	60.44%	29.12%	44.49%
Rhode Island	91.88%	63.02%	29.67%	52.25%
Texas	91.60%	73.44%	22.27%	65.57%
Utah	95.98%	49.76%	42.15%	41.75%
Vermont	89.84%	79.88%	18.40%	73.05%
Wisconsin	94.77%	75.13%	22.50%	67.98%
Puerto Rico	95.75%	61.57%	30.15%	48.75%
<b>Total</b>	<b>91.09%</b>	<b>57.71%</b>	<b>35.02%</b>	<b>48.09%</b>

**Notes:**

States only included in version 2 of sample split: New York

States not included in public-release file due to having too few records to produce reliable weights: California, Illinois

States and territories not included in public-release file due to collecting less than 6 months of data during 2020: Kentucky, Nevada and Maryland



<b>Table 2.2 ACBS 2020 Response Rates by State/Territory: Child Landline and Cell Phone Sample</b>				
<b>State</b>	<b>Completion Rate</b>	<b>Cooperation Rate</b>	<b>Refusal Rate</b>	<b>Casro Rate</b>
<b>States included in public release file because of more than 75 completes</b>				
Connecticut	85.21%	56.81%	29.58%	43.12%
Georgia	78.64%	52.94%	36.73%	41.90%
Minnesota	81.91%	46.67%	45.23%	39.57%
New Jersey	75.00%	62.50%	27.66%	48.81%
Texas	83.54%	64.02%	23.39%	47.83%
Utah	95.45%	55.63%	34.87%	43.72%
Vermont	88.66%	76.79%	20.75%	68.64%
<b>States excluded from public release file because of less than 75 completes</b>				
California	62.86%	36.67%	55.75%	32.27%
Florida	90.28%	63.11%	29.26%	50.06%
Hawaii	93.33%	43.30%	45.25%	34.55%
Indiana	79.49%	50.82%	37.91%	39.17%
Kansas	83.02%	45.36%	36.92%	30.65%
Maine	95.92%	50.00%	40.99%	40.99%
Massachusetts	94.44%	34.69%	47.10%	25.02%
Michigan	83.75%	50.76%	41.25%	43.18%
Missouri	97.30%	59.50%	28.96%	42.55%
Montana	80.00%	43.08%	42.04%	31.81%
Nebraska	81.01%	46.72%	44.49%	39.01%
New Hampshire	88.89%	75.29%	20.62%	62.84%
New Mexico	80.00%	74.29%	20.93%	60.46%
New York	76.92%	56.34%	30.87%	44.10%
Ohio	79.22%	46.92%	46.40%	41.02%
Pennsylvania	77.78%	56.45%	34.69%	44.97%
Rhode Island	87.04%	48.96%	32.28%	35.29%
Wisconsin	89.47%	69.39%	24.96%	56.57%
Puerto Rico	95.65%	70.21%	26.11%	61.54%
<b>Total</b>	<b>84.34%</b>	<b>55.69%</b>	<b>34.30%</b>	<b>44.27%</b>
<b>Notes:</b>				
States that did not collect child data: Arizona, Iowa, Nevada, and Oregon				
State only included in version 1 of sample split: Massachusetts				
State only included in version 2 of sample split: New York				



Table 3.2 ABCS 2020 Completed Interviews by State/Territory and Month: Child Landline											
State	2020										
	2020JAN	2020FEB	2020MAR	2020APR	2020MAY	2020JUN	2020JUL	2020AUG	2020SEP	2020OCT	2020NOV
California	.	.	.	.	.	3	1	.	2	4	1
Connecticut	12	18	21	10	9	7	4	5	4	11	11
Florida	13	7	5	8	5	.	2	2	2	4	10
Georgia	9	22	21	2	4	3	5	4	4	3	2
Hawaii	.	.	7	1	5	3	6	8	1	5	3
Indiana	1	1	6	16	16	1	.	3	2	8	6
Kansas	.	.	6	.	1	7	4	3	6	2	3
Kentucky	.	.	.	.	.	.	.	5	.	.	.
Maine	.	3	13	15	4	3	.	.	2	1	3
Maryland	.	.	.	.	.	.	.	.	.	.	1
Massachusetts	2	2	5	3	1	.	1	2	.	.	.
Michigan	.	1	.	2	7	9	6	6	10	5	4
Minnesota	13	10	8	7	6	10	3	3	4	5	6
Missouri	.	11	5	.	1	9	6	7	6	6	.
Montana	.	.	.	2	5	6	3	1	2	.	3
Nebraska	.	.	.	7	3	6	2	11	2	8	2
New Hampshire	5	3	12	4	11	5	4	2	8	4	3
New Jersey	.	.	.	.	1	24	39	28	9	10	6
New Mexico	.	.	.	.	.	25	3	6	2	4	6
New York	3	3	7	16	2	.	1	.	3	2	.
Ohio	1	5	13	5	5	.	2	7	9	1	6
Pennsylvania	.	7	4	6	2	4	.	1	.	4	.
Rhode Island	3	7	9	3	5	8	.	2	.	2	3
Texas	.	5	22	10	16	9	9	13	1	7	24
Utah	.	.	7	7	9	5	8	8	5	9	9
Vermont	10	8	12	6	15	2	3	5	3	6	6
Wisconsin	.	.	4	4	1	.	2	4	8	4	4
Puerto Rico	.	.	.	.	.	.	.	.	.	.	20
<b>State Total Release</b>	72	113	187	177	134	149	114	136	95	115	142
<b>Notes:</b>											
States that did not collect child data: Arizona, Iowa, Nevada, and Oregon											
State only included in version 1 of sample split: Massachusetts											
State only included in version 2 of sample split: New York											

## Appendix B: Instructions for Assigning Additional ACBS Disposition Codes

Following are descriptions of the ACBS disposition codes adapted from standard BRFSS disposition codes and the ACBS disposition codes added to the standard set of BRFSS disposition codes. For detailed definitions for the standard BRFSS disposition codes, see the Data Quality Handbook for each survey year ([http://www.cdc.gov/brfss/annual\\_data/annual\\_data.htm](http://www.cdc.gov/brfss/annual_data/annual_data.htm)).

### I. Eligible, contacted: complete interview

1100 Complete

*Definition:* Respondent completes the ACBS interview through the last question.

1200 Partial complete

*Definition:* Respondent completes the ACBS interview at least through the end of Section 8 (medications).

## **II. Eligible, contacted: refusal or termination**

### **4413** Refused to participate in the call-back during the BRFSS interview

*Definition:* During the BRFSS interview, respondents who indicate they have ever been told by a doctor that they have asthma are asked if they will participate in an additional survey at a later date. Some state Institutional Review Boards (IRBs) require that the content of the additional survey (asthma) be disclosed; other state IRBs require that the specific content not be disclosed. Some states have multiple call-back surveys in the field and do not specify the content of any of the call-back interviews. If a respondent refuses to participate in the call-back survey, that record is assigned disposition code 4413.

### **2112** Refused to begin the ACBS interview after contacted

*Definition:* If the selected respondent is contacted for the ACBS interview but refuses to begin the interview, then the record is assigned code 2112.

### **2120** Terminated within the questionnaire during the ACBS interview

*Definition:* If the respondent is contacted for the ACBS and terminates after the interview begins (section 3) but before completing section 8, then record is considered incomplete and is assigned disposition code 2120.

### **2211** Refused to allow combining ACBS responses with BRFSS responses

*Definition:* Some states require that the respondent provide active approval to combine their responses from the initial BRFSS interview with their responses from the ACBS interview. This approval may be requested at either the initial BRFSS interview or at the beginning of the ACBS interview. If the respondent does not approve combining data from the two interviews, the record is assigned disposition code 2211.

### **2212** Refused to answer the “ever had asthma” question during the ACBS interview

*Definition:* The selected respondent is contacted for the ACBS interview but refuses to answer the initial asthma question. If the respondent answers "don't know" or "refused" to the ACBS question EVER-ASTH (2.1) “Have you ever been told by a doctor or other health professional that (you have/sample child has) asthma?”, then the record is assigned code 2212.

## **III. Eligible, lost to follow-up because unable to contact or communicate with the BRFSS respondent**

### **4306** Selected ACBS respondent no longer living in the BRFSS household

*Definition:* The BRFSS respondent with asthma left the BRFSS household between the BRFSS interview and the ACBS interview. If the selected respondent (from the BRFSS) no longer lives in the BRFSS household but did live in the household during the BRFSS interview, then attempts should be made to obtain new contact

information for the selected respondent, and the follow-up should be conducted using the new telephone number. If this is not possible or the household refuses to provide new contact information, then the record is assigned disposition code 4306.

Refer to the Data Quality Handbook for each survey year for the definitions of all other codes in this category ([http://www.cdc.gov/brfss/annual\\_data/annual\\_data.htm](http://www.cdc.gov/brfss/annual_data/annual_data.htm)).

#### **IV. Eligible, lost to follow-up for technical reasons**

Refer to the Data Quality Handbook for each survey year for the definitions of all codes in this category ([http://www.cdc.gov/brfss/annual\\_data/annual\\_data.htm](http://www.cdc.gov/brfss/annual_data/annual_data.htm)).

#### **V. Ineligible**

**2290** The person the most knowledgeable about the selected child with asthma is not the parent or legal guardian (child ineligible)

*Definition:* This code applies only to the child ACBS interview. The child selected during the BRFSS interview is eligible for the ACBS (the BRFSS respondent indicated that the selected child has an asthma diagnosis). The ACBS child protocol allows a parent or guardian to transfer the interview to a more knowledgeable proxy respondent. If the BRFSS respondent is not the parent or guardian of the selected child with asthma, but the parent or guardian is present to transfer to the person most knowledgeable about the child's health, but the most knowledgeable person is not available, then the child is ineligible for the ACBS. The child record is assigned disposition code 2290

**2291** No parent or legal guardian in the household (child ineligible)

*Definition:* This code applies only to the child ACBS interview. The child selected during the BRFSS interview is eligible for the ACBS (the BRFSS respondent indicated that the selected child has an asthma diagnosis); however, ACBS child protocol requires that the BRFSS respondent must be the parent or guardian of the child to provide proxy responses for the child or to approve transfer to a more-knowledgeable proxy respondent. If there is no parent or guardian of the selected child with asthma in the household, the child is ineligible for the ACBS. The child record is assigned disposition code 2291.

**4405** Out-of-state

*Definition:* The BRFSS question that determines eligibility for the ACBS is "Have you ever been told by a doctor, nurse, or other health professional that (you have/the sample child has) asthma?" Respondents who answer "yes" are eligible for the ACBS. If the respondent is a state resident at the time of the BRFSS interview, but moves to an out-of-state residence between the BRFSS interview and the ACBS interview, the respondent is not eligible for the ACBS if either the new state or the old state is not participating in record transfers, and the record is assigned disposition code 4405.

**4700** Household, no eligible respondent (respondent does not have asthma)

*Definition:* The BRFSS question that determines eligibility for the ACBS is “Have you ever been told by a doctor, nurse, or other health professional that (you have/the sample child has) asthma?” Respondents who answer “yes” are eligible for the ACBS. If the respondent informs the ACBS interviewer that the recorded response from the BRFSS interview was in error and terminates the call, then the respondent is not eligible for the ACBS, and the record is assigned disposition code 4700.

**4411** Selected respondent not eligible for follow-up

*Definition:* If the respondent disagrees with the recorded response to the asthma question from the BRFSS interview and answers “no” to the ACBS question EVER-ASTH (2.1) “Have you ever been told by a doctor or other health professional that (you have/the sample child has) asthma?”, then the respondent is not eligible for the ACBS, and the record is assigned disposition code 4411.

**4412** Transferred from BRFSS but not attempted (excluded by state)

*Definition:* The BRFSS question that determines eligibility for the ACBS is “Have you ever been told by a doctor, nurse, or other health professional that (you have/the sample child has) asthma?” Respondents who answer “yes” are eligible for the ACBS. Eligible respondents are then asked for permission to call back. Those that agree should be called for the ACBS interview, but if a respondent eligible to be called is transferred from BRFSS to the ACBS but never called, then the record is assigned disposition code 4412.

**4471** Misdiagnosed asthma in respondent (2008 and later)

*Definition:* The BRFSS question that determines eligibility for the ACBS is “Have you ever been told by a doctor, nurse, or other health professional that (you have/the sample child has) asthma?” Respondents who answer “yes” are eligible for the ACBS. The initial diagnosis, however, could have been in error and changed. This misdiagnosis is not captured by the BRFSS or ACBS. If the respondent informs the interviewer of the misdiagnosis, the respondent is not eligible for the ACBS, and the record is assigned disposition code 4470.

**4480** Not recruited for call-back at BRFSS interview (excluded by state)

*Definition:* The BRFSS question that determines eligibility for the ACBS is “Have you ever been told by a doctor, nurse, or other health professional that (you have/the sample child has) asthma?” Respondents who answer “yes” are eligible for the ACBS. Eligible respondents are then asked for permission to call back. Those who agree should be called for the ACBS interview. However, if a respondent eligible to be called is not transferred from BRFSS to the ACBS and is never called, then the record is assigned disposition code 4480.

**4490** Random child/adult selection: adult ineligible, child selected

*Definition:* If both the BRFSS respondent and the randomly selected child in the household have asthma and the BRFSS respondent agrees to the call-back

interview, one or the other is randomly selected to be eligible for the call-back. If the child is selected, the adult is ineligible, and the adult record is assigned disposition code 4490.

**4491** Random child/adult selection: child ineligible, adult selected

*Definition:* If both the BRFSS respondent and the randomly selected child in the household have asthma and the BRFSS respondent agrees to the call-back interview, one or the other is randomly selected to be eligible for the call-back. If the adult is selected, the child is ineligible, and the child record is assigned disposition code 4491.

**Appendix C:  
Asthma Call-back Survey (ACBS)  
Non-response Bias Analysis**

Two data tables follow adult and child participants. The first table reports ACBS unweighted frequencies for respondents, non-respondents, and BRFSS-eligible asthma respondents by age, sex, and race/ethnicity demographic categories for each state. The second table reports estimated current asthma percentage among individuals who have ever been diagnosed with asthma.

Table 1A. Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory

Table 1B. Percentage of ACBS child respondents (aged 0 -17), non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory

Table 2A. Estimated percentage of current asthma status among adults ever-diagnosed with asthma by state/territory

Table 2B. Estimated percentage of current asthma status among children (0-17 years) ever-diagnosed with asthma by state/territory

**Note:**

In this document, the term “state” is used to refer to all areas participating in the ACBS, including Puerto Rico



**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
States/areas total	Male	11,629	36.6	7,266,343	39.5	7,057	37.1	4,572	35.9	7,272,591	39.5
	Female	20,114	63.4	11,118,340	60.5	11,964	62.9	8,150	64.1	11,132,105	60.5
	Age 18 to 24	2,679	8.6	2,887,488	15.9	1,719	9.2	960	7.6	2,896,331	15.8
	Age 25 to 34	3,894	12.5	3,198,199	17.7	2,522	13.6	1,372	10.9	3,192,504	17.5
	Age 35 to 44	4,291	13.7	2,766,245	15.3	2,778	14.9	1,513	12	2,768,245	15.1
	Age 45 to 54	4,830	15.5	2,722,579	15	3,012	16.2	1,818	14.4	2,816,950	15.4
	Age 55 to 64	6,263	20.1	3,043,252	16.8	3,532	19	2,731	21.7	3,064,880	16.8
	Age 65 or older	9,257	29.7	3,493,357	19.3	5,042	27.1	4,215	33.4	3,537,652	19.4
	White - Non-Hispanic	23,105	74.4	11,351,051	63.1	13,468	72.7	9,637	77	12,037,995	66.3
	Black - Non-Hispanic	1,944	6.3	2,288,715	12.7	1,242	6.7	702	5.6	2,024,599	11.2
	Other race only, Non-Hispanic	1,547	5	845,948	4.7	1,033	5.6	514	4.1	799,170	4.4
	Multiracial, Non-Hispanic	1,064	3.4	328,326	1.8	654	3.5	410	3.3	371,181	2
	Hispanic	3,389	10.9	3,175,213	17.7	2,130	11.5	1,259	10.1	2,920,560	16.1
Arizona	Male	556	39.3	315,881	41.3	412	40.9	144	35.3	316,099	41.2
	Female	860	60.7	448,706	58.7	596	59.1	264	64.7	450,486	58.8
	Age 18 to 24	101	7.3	115,576	15.4	79	8	22	5.4	115,576	15.2
	Age 25 to 34	160	11.5	134,902	17.9	119	12.1	41	10.1	134,902	17.8
	Age 35 to 44	169	12.2	129,919	17.3	137	14	32	7.9	130,866	17.2
	Age 45 to 54	202	14.6	98,653	13.1	145	14.8	57	14.1	102,402	13.5
	Age 55 to 64	284	20.5	116,176	15.4	178	18.1	106	26.2	117,420	15.5
	Age 65 or older	471	34	157,298	20.9	324	33	147	36.3	158,542	20.9



**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Michigan	Other race only, Non-Hispanic	29	2.8	48,516	4.3	19	3.3	10	2.1	49,927	4.3
	Multiracial, Non-Hispanic	40	3.8	24,508	2.1	24	4.2	16	3.4	22,557	2
	Hispanic	28	2.7	42,857	3.8	17	3	11	2.4	34,197	3
Minnesota	Male	697	38.2	203,737	39.8	437	39.8	260	35.9	203,737	39.8
	Female	1,126	61.8	308,153	60.2	662	60.2	464	64.1	308,268	60.2
	Age 18 to 24	178	9.9	77,821	15.4	103	9.6	75	10.4	77,821	15.2
	Age 25 to 34	269	15	104,404	20.6	165	15.4	104	14.4	104,404	20.4
	Age 35 to 44	284	15.8	80,190	15.9	168	15.7	116	16	80,750	15.8
	Age 45 to 54	324	18	75,986	15	214	19.9	110	15.2	80,958	15.8
	Age 55 to 64	332	18.5	82,600	16.3	196	18.3	136	18.8	82,600	16.1
	Age 65 or older	410	22.8	84,867	16.8	227	21.2	183	25.3	85,471	16.7
	White - Non-Hispanic	1,512	84	409,020	80.7	897	82.8	615	85.9	418,549	82.5
	Black - Non-Hispanic	86	4.8	41,357	8.2	57	5.3	29	4.1	40,069	7.9
	Other race only, Non-Hispanic	67	3.7	23,420	4.6	44	4.1	23	3.2	17,651	3.5
	Multiracial, Non-Hispanic	62	3.4	13,804	2.7	39	3.6	23	3.2	12,023	2.4
	Hispanic	72	4	19,158	3.8	46	4.2	26	3.6	19,348	3.8
Missouri	Male	381	34.4	228,278	38.3	265	34.7	116	33.5	228,278	38.3
	Female	728	65.6	367,313	61.7	498	65.3	230	66.5	367,407	61.7
	Age 18 to 24	119	10.8	111,628	18.9	96	12.7	23	6.7	98,994	16.8
	Age 25 to 34	123	11.2	105,825	17.9	93	12.3	30	8.7	114,837	19.5
	Age 35 to 44	150	13.7	91,650	15.5	108	14.3	42	12.2	92,441	15.7
	Age 45 to 54	165	15	82,393	14	119	15.8	46	13.4	85,465	14.5

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Missouri	Age 55 to 64	206	18.8	99,508	16.9	127	16.8	79	23	99,602	16.9
	Age 65 or older	335	30.5	98,677	16.7	212	28.1	123	35.9	98,551	16.7
	White - Non-Hispanic	867	79.9	457,054	77.9	595	80.1	272	79.5	465,461	78.7
	Black - Non-Hispanic	143	13.2	85,475	14.6	100	13.5	43	12.6	87,094	14.7
	Other race only, Non-Hispanic	24	2.2	14,286	2.4	15	2	9	2.6	11,893	2
	Multiracial, Non-Hispanic	23	2.1	8,111	1.4	15	2	8	2.3	9,797	1.7
	Hispanic	28	2.6	21,571	3.7	18	2.4	10	2.9	16,829	2.8
Montana	Male	353	41.7	49,801	40	210	42.3	143	40.9	49,993	40.1
	Female	493	58.3	74,609	60	286	57.7	207	59.1	74,742	59.9
	Age 18 to 24	83	9.9	20,250	16.5	60	12.3	23	6.6	20,457	16.4
	Age 25 to 34	95	11.4	20,927	17	68	13.9	27	7.8	20,912	16.8
	Age 35 to 44	122	14.6	20,897	17	84	17.2	38	10.9	20,897	16.8
	Age 45 to 54	117	14	16,468	13.4	70	14.3	47	13.5	17,286	13.9
	Age 55 to 64	170	20.3	21,056	17.1	93	19.1	77	22.1	21,188	17
	Age 65 or older	249	29.8	23,384	19	113	23.2	136	39.1	23,862	19.2
	White - Non-Hispanic	709	85.8	105,479	86.2	413	85.5	296	86.3	107,015	86.8
	Black - Non-Hispanic	2	0.2	369	0.3	1	0.2	1	0.3	915	0.7
Nebraska	Other race only, Non-Hispanic	67	8.1	10,216	8.3	37	7.7	30	8.7	7,353	6
	Multiracial, Non-Hispanic	30	3.6	2,935	2.4	21	4.3	9	2.6	2,495	2
	Hispanic	18	2.2	3,374	2.8	11	2.3	7	2	5,569	4.5
	Male	548	37.6	61,320	40.3	317	37.6	231	37.5	61,320	40.1

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Nebraska	Female	910	62.4	90,801	59.7	525	62.4	385	62.5	91,730	59.9
	Age 18 to 24	141	9.7	25,107	16.6	90	10.8	51	8.3	25,107	16.5
	Age 25 to 34	208	14.3	34,698	22.9	130	15.5	78	12.7	35,565	23.3
	Age 35 to 44	184	12.7	22,265	14.7	121	14.5	63	10.2	22,265	14.6
	Age 45 to 54	171	11.8	19,048	12.6	90	10.8	81	13.2	18,862	12.4
	Age 55 to 64	272	18.7	24,273	16	147	17.6	125	20.3	24,273	15.9
	Age 65 or older	476	32.8	26,123	17.2	259	30.9	217	35.3	26,437	17.3
	White - Non-Hispanic	1,260	87.9	123,148	82.1	717	87.1	543	89	123,127	81.1
	Black - Non-Hispanic	34	2.4	6,834	4.6	16	1.9	18	3	9,915	6.5
	Other race only, Non-Hispanic	42	2.9	4,849	3.2	24	2.9	18	3	3,954	2.6
	Multiracial, Non-Hispanic	22	1.5	4,602	3.1	13	1.6	9	1.5	5,959	3.9
	Hispanic	75	5.2	10,557	7	53	6.4	22	3.6	8,918	5.9
New Hampshire	Male	321	35.5	65,153	39.8	112	33.9	209	36.3	65,195	39.8
	Female	584	64.5	98,451	60.2	218	66.1	366	63.7	98,785	60.2
	Age 18 to 24	44	4.9	23,086	14.3	12	3.7	32	5.7	23,316	14.4
	Age 25 to 34	85	9.5	27,680	17.1	36	11.1	49	8.7	27,680	17.1
	Age 35 to 44	105	11.8	26,937	16.6	46	14.2	59	10.4	26,937	16.7
	Age 45 to 54	138	15.5	25,394	15.7	57	17.5	81	14.3	24,851	15.4
	Age 55 to 64	213	23.9	29,650	18.3	75	23.1	138	24.4	29,564	18.3
	Age 65 or older	306	34.3	29,041	18	99	30.5	207	36.6	29,430	18.2
	White - Non-Hispanic	816	91.9	143,899	89.4	296	91.6	520	92	144,577	90.1
	Black - Non-Hispanic	6	0.7	1,511	0.9	3	0.9	3	0.5	970	0.6

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
New Hampshire	Other race only, Non-Hispanic	29	3.3	4,988	3.1	11	3.4	18	3.2	3,485	2.2
	Multiracial, Non-Hispanic	17	1.9	4,692	2.9	6	1.9	11	1.9	5,246	3.3
	Hispanic	20	2.3	5,782	3.6	7	2.2	13	2.3	6,258	3.9
New Jersey	Male	538	38.3	347,046	41.1	253	38.7	285	38.1	347,329	41.1
	Female	865	61.7	498,318	58.9	401	61.3	464	61.9	498,318	58.9
	Age 18 to 24	129	9.4	122,911	14.9	56	8.8	73	10	122,911	15
	Age 25 to 34	188	13.7	150,448	18.3	87	13.7	101	13.8	150,448	18.3
	Age 35 to 44	182	13.3	116,714	14.2	103	16.2	79	10.8	114,046	13.9
	Age 45 to 54	242	17.7	120,803	14.7	135	21.2	107	14.6	120,203	14.7
	Age 55 to 64	268	19.6	138,058	16.8	110	17.3	158	21.6	137,782	16.8
	Age 65 or older	359	26.2	174,051	21.1	145	22.8	214	29.2	174,769	21.3
	White - Non-Hispanic	845	62.4	447,848	54.7	374	60	471	64.4	486,005	59.2
	Black - Non-Hispanic	162	12	120,824	14.8	82	13.2	80	10.9	99,750	12.1
New Mexico	Other race only, Non-Hispanic	76	5.6	51,979	6.3	41	6.6	35	4.8	48,191	5.9
	Multiracial, Non-Hispanic	40	3	7,683	0.9	14	2.2	26	3.6	11,625	1.4
	Hispanic	231	17.1	190,648	23.3	112	18	119	16.3	175,839	21.4
	Male	331	36.7	93,281	42.7	216	38.8	115	33.3	93,504	42.7
	Female	570	63.3	125,238	57.3	340	61.2	230	66.7	125,283	57.3
	Age 18 to 24	66	7.4	29,452	13.6	44	8	22	6.4	29,596	13.5
	Age 25 to 34	93	10.4	34,549	15.9	64	11.7	29	8.5	34,549	15.8
Age 35 to 44	113	12.7	42,124	19.4	78	14.2	35	10.2	42,124	19.3	
Age 45 to 54	120	13.5	32,041	14.8	73	13.3	47	13.7	32,847	15	

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
New Mexico	Age 55 to 64	192	21.5	35,851	16.5	111	20.2	81	23.6	36,265	16.6
	Age 65 or older	308	34.5	43,117	19.9	179	32.6	129	37.6	43,158	19.7
	White - Non-Hispanic	468	53.8	80,578	38.2	274	51.5	194	57.4	83,432	38.6
	Black - Non-Hispanic	12	1.4	4,858	2.3	8	1.5	4	1.2	2,333	1.1
	Other race only, Non-Hispanic	90	10.3	18,116	8.6	67	12.6	23	6.8	10,322	4.8
	Multiracial, Non-Hispanic	16	1.8	5,291	2.5	11	2.1	5	1.5	1,163	0.5
	Hispanic	284	32.6	102,350	48.5	172	32.3	112	33.1	118,650	55
Ohio	Male	701	35.4	470,345	37.7	491	36	210	34.3	470,535	37.7
	Female	1,277	64.6	776,435	62.3	874	64	403	65.7	776,881	62.3
	Age 18 to 24	163	8.4	216,126	17.5	102	7.7	61	10	216,276	17.3
	Age 25 to 34	230	11.8	210,101	17	164	12.3	66	10.8	210,101	16.8
	Age 35 to 44	275	14.2	196,650	16	191	14.4	84	13.7	196,650	15.8
	Age 45 to 54	326	16.8	183,943	14.9	235	17.7	91	14.8	195,189	15.6
	Age 55 to 64	412	21.2	205,595	16.7	284	21.4	128	20.9	205,658	16.5
	Age 65 or older	537	27.6	220,087	17.9	354	26.6	183	29.9	223,542	17.9
	White - Non-Hispanic	1,610	82.6	934,516	76.2	1,098	81.9	512	84.2	982,538	79.8
	Black - Non-Hispanic	161	8.3	182,368	14.9	114	8.5	47	7.7	147,758	12
	Other race only, Non-Hispanic	42	2.2	23,866	1.9	36	2.7	6	1	3,156	0.3
	Multiracial, Non-Hispanic	75	3.9	27,715	2.3	51	3.8	24	3.9	34,732	2.8
	Hispanic	60	3.1	58,462	4.8	41	3.1	19	3.1	62,562	5.1
Oregon	Male	283	36.8	187,383	38.3	169	38	114	35.3	187,764	38.4
	Female	485	63.2	301,591	61.7	276	62	209	64.7	301,591	61.6

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Oregon	Age 18 to 24	67	8.8	60,367	12.5	46	10.5	21	6.6	66,767	13.7
	Age 25 to 34	99	13.1	88,520	18.3	71	16.2	28	8.8	82,121	16.9
	Age 35 to 44	116	15.3	80,425	16.6	67	15.3	49	15.3	80,425	16.5
	Age 45 to 54	129	17	75,348	15.6	73	16.7	56	17.5	76,577	15.7
	Age 55 to 64	134	17.7	77,250	15.9	72	16.4	62	19.4	77,814	16
	Age 65 or older	213	28.1	102,624	21.2	109	24.9	104	32.5	103,292	21.2
	White - Non-Hispanic	636	84.9	374,684	78.5	360	82.8	276	87.9	388,542	81.3
	Black - Non-Hispanic	10	1.3	10,400	2.2	9	2.1	1	0.3	3,198	0.7
	Other race only, Non-Hispanic	33	4.4	34,834	7.3	20	4.6	13	4.1	35,268	7.4
	Multiracial, Non-Hispanic	25	3.3	16,133	3.4	16	3.7	9	2.9	14,738	3.1
Pennsylvania	Hispanic	45	6	41,057	8.6	30	6.9	15	4.8	35,915	7.5
	Male	276	39.5	491,683	38.2	177	41.8	99	36	494,893	38.4
	Female	422	60.5	794,817	61.8	246	58.2	176	64	794,817	61.6
	Age 18 to 24	80	11.7	221,721	17.6	56	13.6	24	8.9	221,721	17.3
	Age 25 to 34	114	16.7	265,735	21.1	80	19.4	34	12.5	268,945	21
	Age 35 to 44	109	16	195,948	15.6	69	16.7	40	14.8	196,889	15.4
	Age 45 to 54	108	15.8	165,522	13.1	58	14.1	50	18.5	178,242	13.9
	Age 55 to 64	125	18.3	184,945	14.7	72	17.5	53	19.6	186,418	14.5
	Age 65 or older	147	21.5	226,031	17.9	77	18.7	70	25.8	229,431	17.9
	White - Non-Hispanic	526	77	927,156	73.8	315	76.1	211	78.4	927,533	72.4
Black - Non-Hispanic	83	12.2	163,706	13	49	11.8	34	12.6	184,373	14.4	
Other race only, Non-Hispanic	23	3.4	40,240	3.2	14	3.4	9	3.3	42,466	3.3	



<b>Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory</b>											
<b>ADULTS</b>		<b>BRFSS</b>				<b>ACBS</b>		<b>ACBS</b>			
		<b>Eligible Asthma Respondents</b>				<b>Non-Respondents</b>		<b>Respondents</b>			
<b>State</b>	<b>Demographics</b>	<b>Sample size (unweighted)</b>	<b>Percent (unweighted)</b>	<b>Weighted total</b>	<b>Percent (weighted)</b>	<b>Sample size (unweighted)</b>	<b>Percent (unweighted)</b>	<b>Sample size (unweighted)</b>	<b>Percent (unweighted)</b>	<b>Weighted total</b>	<b>Percent (weighted)</b>
Pennsylvania	Multiracial, Non-Hispanic	13	1.9	14,464	1.2	11	2.7	2	0.7	2,294	0.2
	Hispanic	38	5.6	111,354	8.9	25	6	13	4.8	124,440	9.7
Rhode Island	Male	281	32.2	50,005	37.5	165	31.3	116	33.6	50,005	37.5
	Female	592	67.8	83,499	62.5	363	68.8	229	66.4	83,499	62.5
	Age 18 to 24	49	5.7	16,571	12.6	35	6.8	14	4.1	13,066	9.8
	Age 25 to 34	79	9.2	20,334	15.5	51	9.9	28	8.2	23,839	17.9
	Age 35 to 44	124	14.5	23,110	17.6	82	16	42	12.3	23,110	17.3
	Age 45 to 54	139	16.3	19,961	15.2	89	17.3	50	14.6	21,305	16
	Age 55 to 64	201	23.5	23,865	18.2	125	24.4	76	22.2	23,984	18
	Age 65 or older	263	30.8	27,615	21	131	25.5	132	38.6	27,939	21
	White - Non-Hispanic	656	77.9	91,407	71.1	379	75.2	277	82	94,396	71.7
	Black - Non-Hispanic	37	4.4	6,206	4.8	25	5	12	3.6	7,826	5.9
	Other race only, Non-Hispanic	37	4.4	6,930	5.4	25	5	12	3.6	7,628	5.8
	Multiracial, Non-Hispanic	23	2.7	2,848	2.2	17	3.4	6	1.8	2,315	1.8
	Hispanic	89	10.6	21,173	16.5	58	11.5	31	9.2	19,543	14.8
Texas	Male	430	34.6	689,869	34.8	203	33.9	227	35.3	689,869	34.8
	Female	811	65.4	1,293,901	65.2	395	66.1	416	64.7	1,293,982	65.2
	Age 18 to 24	105	8.6	363,528	18.5	48	8.1	57	8.9	363,528	18.4
	Age 25 to 34	159	13	303,178	15.4	83	14.1	76	11.9	303,178	15.3
	Age 35 to 44	179	14.6	299,994	15.2	89	15.1	90	14.1	298,267	15.1
	Age 45 to 54	218	17.8	301,326	15.3	109	18.5	109	17.1	312,829	15.8
	Age 55 to 64	238	19.4	370,345	18.8	113	19.2	125	19.6	370,511	18.7
	Age 65 or older	327	26.7	331,853	16.8	147	25	180	28.3	332,105	16.8

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Texas	White - Non-Hispanic	674	56.2	858,612	44	293	50.7	381	61.4	933,903	48.3
	Black - Non-Hispanic	109	9.1	342,736	17.6	53	9.2	56	9	366,674	19
	Other race only, Non-Hispanic	37	3.1	49,470	2.5	22	3.8	15	2.4	20,127	1
	Multiracial, Non-Hispanic	37	3.1	18,386	0.9	17	2.9	20	3.2	24,410	1.3
	Hispanic	342	28.5	683,092	35	193	33.4	149	24	589,362	30.5
Utah	Male	713	44.1	168,030	45.9	476	44.6	237	43.3	168,154	45.8
	Female	902	55.9	198,331	54.1	592	55.4	310	56.7	198,908	54.2
	Age 18 to 24	188	11.8	66,435	18.4	130	12.4	58	10.7	66,867	18.5
	Age 25 to 34	244	15.3	79,781	22.1	167	15.9	77	14.2	79,781	22
	Age 35 to 44	293	18.4	70,827	19.6	201	19.2	92	16.9	68,167	18.8
	Age 45 to 54	212	13.3	46,312	12.8	155	14.8	57	10.5	49,473	13.7
	Age 55 to 64	273	17.2	49,508	13.7	157	15	116	21.4	49,508	13.7
	Age 65 or older	381	23.9	48,226	13.4	238	22.7	143	26.3	48,535	13.4
	White - Non-Hispanic	1,369	86.6	287,656	80.2	887	85.1	482	89.4	316,124	86.8
	Black - Non-Hispanic	16	1	4,096	1.1	10	1	6	1.1	3,783	1
	Other race only, Non-Hispanic	35	2.2	11,936	3.3	27	2.6	8	1.5	5,082	1.4
	Multiracial, Non-Hispanic	38	2.4	10,230	2.9	28	2.7	10	1.9	6,366	1.7
	Hispanic	123	7.8	44,581	12.4	90	8.6	33	6.1	32,741	9
Vermont	Male	297	33.6	27,024	36.8	95	34.5	202	33.1	27,024	36.7
	Female	588	66.4	46,508	63.2	180	65.5	408	66.9	46,681	63.3
	Age 18 to 24	49	5.6	11,698	16.1	13	4.9	36	6	13,108	17.9
	Age 25 to 34	89	10.2	12,191	16.7	34	12.7	55	9.1	10,781	14.7

**Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory**

<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Vermont	Age 35 to 44	126	14.5	13,079	18	48	17.9	78	12.9	13,079	17.8
	Age 45 to 54	138	15.8	9,260	12.7	51	19	87	14.4	9,758	13.3
	Age 55 to 64	174	20	11,590	15.9	53	19.8	121	20.1	11,669	15.9
	Age 65 or older	295	33.9	14,983	20.6	69	25.7	226	37.5	14,978	20.4
	White - Non-Hispanic	784	91.1	64,464	89.5	235	88.7	549	92.1	66,736	91.6
	Black - Non-Hispanic	5	0.6	462	0.6	3	1.1	2	0.3	327	0.4
	Other race only, Non-Hispanic	29	3.4	3,159	4.4	17	6.4	12	2	2,144	2.9
	Multiracial, Non-Hispanic	27	3.1	1,548	2.1	5	1.9	22	3.7	1,746	2.4
	Hispanic	16	1.9	2,427	3.4	5	1.9	11	1.8	1,899	2.6
Wisconsin	Male	227	37.8	247,564	42.7	114	38.6	113	36.9	247,564	42.7
	Female	374	62.2	332,780	57.3	181	61.4	193	63.1	332,780	57.3
	Age 18 to 24	45	7.7	83,939	14.7	23	8.1	22	7.3	96,436	16.7
	Age 25 to 34	71	12.1	105,063	18.4	33	11.6	38	12.6	92,566	16.1
	Age 35 to 44	72	12.3	78,177	13.7	44	15.4	28	9.3	77,956	13.5
	Age 45 to 54	106	18.1	103,277	18.1	54	18.9	52	17.2	106,572	18.5
	Age 55 to 64	136	23.2	108,199	18.9	61	21.4	75	24.8	109,891	19.1
	Age 65 or older	157	26.7	92,486	16.2	70	24.6	87	28.8	92,449	16.1
	White - Non-Hispanic	479	82	448,319	80.2	226	80.1	253	83.8	474,292	82.9
	Black - Non-Hispanic	32	5.5	57,019	10.2	16	5.7	16	5.3	45,177	7.9
	Other race only, Non-Hispanic	37	6.3	12,071	2.2	22	7.8	15	5	15,108	2.6
	Multiracial, Non-Hispanic	21	3.6	15,561	2.8	10	3.5	11	3.6	11,990	2.1
	Hispanic	15	2.6	26,299	4.7	8	2.8	7	2.3	25,881	4.5

<b>Table 1.A Percentage of ACBS adult respondent, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory</b>											
<i>ADULTS</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
		<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
<i>State</i>	<i>Demographics</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Puerto Rico	Male	246	29.9	177,923	39.7	144	30.7	102	28.9	177,923	39.7
	Female	576	70.1	270,634	60.3	325	69.3	251	71.1	270,634	60.3
	Age 18 to 24	76	9.3	63,347	14.2	44	9.5	32	9.1	63,347	14.1
	Age 25 to 34	130	15.9	71,181	15.9	81	17.5	49	13.9	71,181	15.9
	Age 35 to 44	130	15.9	77,285	17.3	80	17.2	50	14.2	77,285	17.2
	Age 45 to 54	139	17	67,766	15.1	77	16.6	62	17.6	68,940	15.4
	Age 55 to 64	160	19.6	69,534	15.5	81	17.5	79	22.4	69,534	15.5
	Age 65 or older	182	22.3	98,270	22	101	21.8	81	22.9	98,270	21.9
	White - Non-Hispanic	5	0.6	2,185	0.5	2	0.4	3	0.8	2,905	0.6
	Other race only, Non-Hispanic	7	0.9	3,769	0.8	6	1.3	1	0.3	1,211	0.3
	Hispanic	810	98.5	442,602	98.7	461	98.3	349	98.9	444,442	99.1

**Notes:**  
 \*Adult: aged ≥ 18  
 \*\*Puerto Rico did not collect 6 consecutive months of adult data but did collect 6 or more months of data throughout 2018 and 2019 altogether.

<b>Table 1B. Percentage of ACBS child (aged 0-17 years) respondents, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory</b>											
<i>Child</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
<i>State</i>	<i>Demographics</i>	<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
		<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Sample size (unweighted)</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
States/areas total	Boy	1,096	56.6	1,002,667	59.3	619	56.6	477	56.7	1,011,873	59.4
	Girl	840	43.4	687,960	40.7	475	43.4	365	43.3	690,604	40.6
	Age 0 to 4	126	7.4	224,224	15	67	7.2	59	7.6	279,091	17.3
	Age 5 to 9	340	19.9	436,645	29.2	188	20.2	152	19.5	447,431	27.7
	Age 10 to 14	655	38.3	431,133	28.8	344	37	311	39.9	467,136	28.9
	Age 15 to 17	588	34.4	405,470	27.1	331	35.6	257	33	423,419	26.2
	White only	1,360	71.8	908,886	55.4	753	70.4	607	73.5	939,243	55.9
	Black or African American only	282	14.9	490,064	29.9	164	15.3	118	14.3	499,554	29.7
	Other Races and Multiracial	253	13.4	241,804	14.7	152	14.2	101	12.2	240,713	14.3
Connecticut	Boy	179	57.2	66,603	54.6	91	52.9	88	62.4	67,151	54
	Girl	134	42.8	55,395	45.4	81	47.1	53	37.6	57,265	46
	Age 0 to 4	24	8.6	29,995	27.3	14	9.4	10	7.6	39,288	31.8
	Age 5 to 9	66	23.6	26,179	23.8	34	22.8	32	24.4	23,752	19.2
	Age 10 to 14	97	34.6	30,148	27.4	49	32.9	48	36.6	35,972	29.1
	Age 15 to 17	93	33.2	23,548	21.4	52	34.9	41	31.3	24,513	19.8
	White only	197	65.4	78,976	67.1	109	66.1	88	64.7	79,544	69.5
	Black or African American only	48	15.9	17,610	15	28	17	20	14.7	16,282	14.2
	Other Races and Multiracial	56	18.6	21,166	18	28	17	28	20.6	18,561	16.2
Georgia	Boy	152	55.1	244,622	62	97	56.1	55	53.4	244,622	62
	Girl	124	44.9	149,637	38	76	43.9	48	46.6	149,637	38

	Age 0 to 4	23	9.4	74,736	22.1	14	9.3	9	9.5	60,998	16.7
<b>Table 1B. Percentage of ACBS child (aged 0-17 years) respondents, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory</b>											
<i>Child</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
<i>State</i>	<i>Demographics</i>	<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
		<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Georgia	Age 5 to 9	45	18.4	69,103	20.5	26	17.3	19	20	82,550	22.6
	Age 10 to 14	95	38.8	99,523	29.5	57	38	38	40	114,491	31.3
	Age 15 to 17	82	33.5	94,215	27.9	53	35.3	29	30.5	107,665	29.4
	White only	142	52.4	155,114	40	90	52.9	52	51.5	141,061	35.9
	Black or African American only	104	38.4	199,928	51.6	62	36.5	42	41.6	201,667	51.3
	Other Races and Multiracial	25	9.2	32,498	8.4	18	10.6	7	6.9	50,035	12.7
Minnesota	Boy	169	56.3	46,057	55.8	113	54.9	56	59.6	46,651	55.9
	Girl	131	43.7	36,477	44.2	93	45.1	38	40.4	36,748	44.1
	Age 0 to 4	17	6.4	5,845	7.8	9	5.2	8	8.6	11,191	13.4
	Age 5 to 9	45	16.9	21,973	29.4	31	17.9	14	15.1	21,493	25.8
	Age 10 to 14	108	40.6	25,420	34	69	39.9	39	41.9	29,241	35.1
	Age 15 to 17	96	36.1	21,472	28.7	64	37	32	34.4	21,474	25.7
	White only	228	76.5	54,085	66.8	158	77.5	70	74.5	55,393	66.4
	Black or African American only	22	7.4	10,904	13.5	16	7.8	6	6.4	2,522	3
	Other Races and Multiracial	48	16.1	15,920	19.7	30	14.7	18	19.1	25,484	30.6
New Jersey	Boy	161	57.5	107,323	51.8	68	55.3	93	59.2	112,130	52.7
	Girl	119	42.5	99,807	48.2	55	44.7	64	40.8	100,672	47.3
	Age 0 to 4	24	10.4	17,709	11.2	12	12.9	12	8.8	18,854	9.9
	Age 5 to 9	39	17	36,519	23	15	16.1	24	17.5	55,076	29.1
	Age 10 to 14	93	40.4	63,531	40.1	34	36.6	59	43.1	70,897	37.4
	Age 15 to 17	74	32.2	40,737	25.7	32	34.4	42	30.7	44,719	23.6

	White only	160	58.4	103,480	50.1	59	49.6	101	65.2	125,267	59.3
<b>Table 1B. Percentage of ACBS child (aged 0-17 years) respondents, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory</b>											
<i>Child</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
<i>State</i>	<i>Demographics</i>	<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
		<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
New Jersey	Black or African American only	62	22.6	66,552	32.2	32	26.9	30	19.4	46,549	22.1
	Other Races and Multiracial	52	19	36,505	17.7	28	23.5	24	15.5	39,275	18.6
Texas	Boy	180	58.4	488,920	61.5	86	59.3	94	57.7	489,436	61.6
	Girl	128	41.6	305,994	38.5	59	40.7	69	42.3	305,666	38.4
	Age 0 to 4	18	6.8	87,617	12	7	5.9	11	7.5	139,925	18.3
	Age 5 to 9	52	19.5	255,071	34.9	25	21	27	18.4	236,964	31
	Age 10 to 14	117	44	189,182	25.9	52	43.7	65	44.2	187,568	24.6
	Age 15 to 17	79	29.7	199,926	27.3	35	29.4	44	29.9	198,846	26.1
	White only	215	72.6	439,024	58	91	65.9	124	78.5	455,044	57.9
	Black or African American only	39	13.2	193,572	25.6	22	15.9	17	10.8	229,008	29.1
	Other Races and Multiracial	42	14.2	124,815	16.5	25	18.1	17	10.8	101,857	13
Utah	Boy	171	56.1	42,708	54.8	126	57.8	45	51.7	45,041	56.1
	Girl	134	43.9	35,227	45.2	92	42.2	42	48.3	35,192	43.9
	Age 0 to 4	15	5.3	7,928	10.7	10	5.1	5	5.8	8,323	10.4
	Age 5 to 9	63	22.3	25,665	34.6	45	22.8	18	20.9	25,271	31.7
	Age 10 to 14	95	33.6	19,665	26.5	68	34.5	27	31.4	24,617	30.9
	Age 15 to 17	110	38.9	20,844	28.1	74	37.6	36	41.9	21,474	26.9
	White only	277	90.8	67,183	85	196	89.9	81	93.1	71,308	89.3
	Black or African American only	5	1.6	1,320	1.7	3	1.4	2	2.3	3,260	4.1
	Other Races and Multiracial	23	7.5	10,521	13.3	19	8.7	4	4.6	5,244	6.6

Vermont	Boy	84	54.5	6,433	54.3	38	66.7	46	47.4	6,842	55.8
<b>Table 1B. Percentage of ACBS child (aged 0-17 years) respondents, non-respondents, and BRFSS-eligible asthma respondents by demographic groups and state/territory</b>											
<i>Child</i>		<i>BRFSS</i>				<i>ACBS</i>		<i>ACBS</i>			
<i>State</i>	<i>Demographics</i>	<i>Eligible Asthma Respondents</i>				<i>Non-Respondents</i>		<i>Respondents</i>			
		<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>	<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Sample size</i>	<i>Percent (unweighted)</i>	<i>Weighted total</i>	<i>Percent (weighted)</i>
Vermont	Girl	70	45.5	5,424	45.7	19	33.3	51	52.6	5,424	44.2
	Age 0 to 4	5	3.6	393	3.6	1	2	4	4.4	513	4.3
	Age 5 to 9	30	21.6	2,134	19.5	12	24.5	18	20	2,325	19.5
	Age 10 to 14	50	36	3,664	33.6	15	30.6	35	38.9	4,350	36.5
	Age 15 to 17	54	38.8	4,728	43.3	21	42.9	33	36.7	4,728	39.7
	White only	141	94	11,024	95.2	50	90.9	91	95.8	11,626	95.7
	Black or African American only	2	1.3	178	1.5	1	1.8	1	1.1	266	2.2
	Other Races and Multiracial	7	4.7	3,79	3.3	4	7.3	3	3.2	257	2.1



<b>Table 2B. Estimated percentage of current asthma status among children (0-17 years) ever diagnosed with asthma by state/territory</b>								
<b>Child</b>	<b>ACBS Respondents</b>				<b>BRFSS Eligible Asthma Respondents</b>			
<b>State</b>	<b>ACBS Sample size</b>	<b>Current Prevalence (weighted percent)</b>	<b>Standard Error</b>	<b>CI ACBS</b>	<b>BRFSS Sample size</b>	<b>Current Prevalence (weighted percent)</b>	<b>Standard Error</b>	<b>CI BRFSS</b>
States/areas total	689	57.8	4.91	(47.9 - 67.0)	1,907	63.2	3.31	(56.5 - 69.4)
Connecticut	119	68.3	7.86	(51.4 - 81.5)	308	67.2	5.02	(56.8 - 76.2)
Georgia	77	57.6	7.87	(41.9 - 71.9)	268	59.9	5.27	(49.3 - 69.7)
Minnesota	76	54.2	7.98	(38.7 - 69.0)	296	64.6	4.01	(56.4 - 72.0)
New Jersey	117	58.4	5.74	(46.8 - 69.0)	272	67.3	4.55	(57.8 - 75.5)
Texas	134	55.6	9.29	(37.4 - 72.4)	306	62.1	6.34	(49.1 - 73.5)
Utah	82	66.9	7.21	(51.6 - 79.3)	305	72	3.39	(64.9 - 78.1)
Vermont	84	51.3	6.86	(38.0 - 64.3)	152	64.7	5.18	(54.0 - 74.1)