



**2012**

**Behavioral Risk Factor Surveillance System**

**Asthma Call-Back Survey**

**Summary Data Quality Report**



**National  
Asthma  
Control  
Program**

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Paul Garbe, DVM, MPH  
Chief, Air Pollution and Respiratory Health Branch  
Division of Environmental Hazards and Health Effects  
National Center for Environmental Health, CDC  
MS F-60  
4770 Buford Highway  
Atlanta GA 30341

Phone: (770) 488-3700  
Fax: (770) 488-1540

Carol A. Gotway Crawford, PhD  
Chief, Population Health Surveillance Branch  
Division of Population Health  
National Center for Chronic Disease Prevention and Health Promotion  
Centers for Disease Control and Prevention  
1600 Clifton Road NE Mail Stop E97  
Atlanta, GA 30333 USA

Phone: (404) 498-6023  
Fax: (404) 498-0595

## 2012 Asthma Call-Back Survey (ACBS) Summary Data Quality Report

### Introduction

Procedures for interview disposition and response rates for the BRFSS Asthma Call-Back Survey (ACBS) follow 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 one is a flow chart describing the eligibility paths BRFSS respondents with asthma follow through the ACBS process.

Because asthma characteristics vary by season, a seasonal analysis must take into account 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 is missing 6 or more consecutive months of child or adult data or has less than 6 complete months of child or adult data, the data from that state are not considered sufficiently comparable to the data from other states and are excluded from the public release file and the response rate calculations. If a state has fewer than 75 complete child interviews, reliable weights cannot be calculated, and the child data from that state is excluded from the public release file.

Appendix A includes tables showing disposition code categories, response rates and interviews by month for each state participating in the ACBS each year. Appendix B includes information on the conversion from 3-digit to 4-digit disposition codes. Appendix C includes additional instruction on assigning the ACBS specific disposition codes. Detail on BRFSS response rates and procedures can be found in the BRFSS Data Quality Report and the [BRFSS Summary Data Quality Report](#) for each survey year

### 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 for the ACBS are underlined and bolded. There is no equivalent BRFSS code for ACBS-specific codes. Detailed descriptions of the ACBS codes can be found in Appendix C.

The ACBS 4-digit disposition codes for 2012 and later years are listed below:

#### 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 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 Cellular telephone from landline sample
- 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

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

- 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
<b>9999</b>	Missing disposition code

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

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

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 actually be ineligible. All temporary disposition codes (numbered 5000 or higher) that should have been resolved but were not are treated as comparable 4000 level codes.

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 6% and 10% 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 only include respondents in the call-back 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:

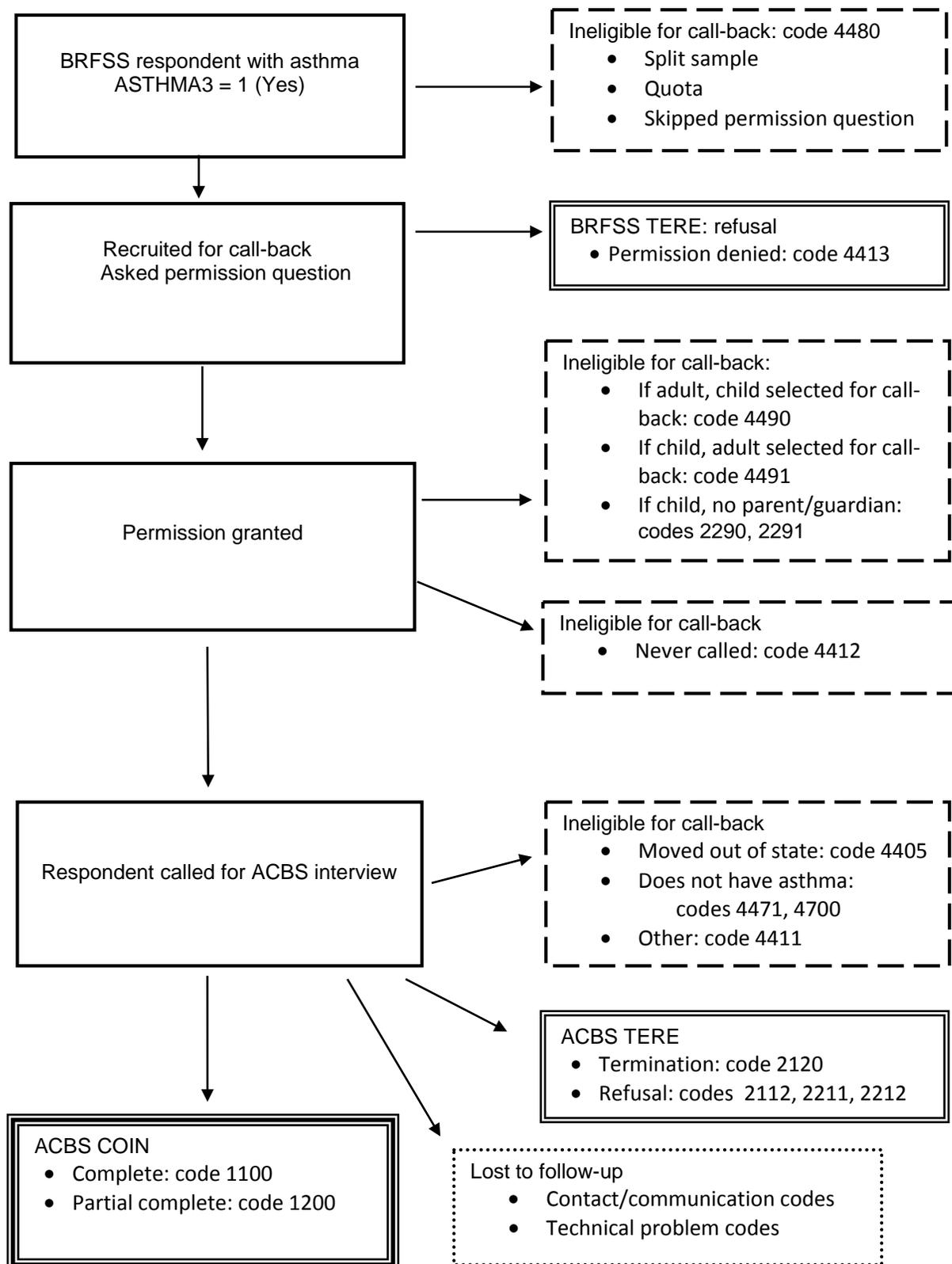
- Respondents in households where both the selected adult and selected child in the household have asthma. When both have asthma, only one is eligible for the ACBS.

- Respondents who move out-of-state between the BRFSS interview and the ACBS interview in states that are not transferring ACBS interview 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):

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>Eligible TERE Terminations and refusals</b>	<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
Eligible, lost to follow-up Not interviewed	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
Ineligible	<b><u>4405, 4700, 4411, 4471</u></b>	At ACBS
Ineligible	<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 actually contacted for and started the ACBS interview. Those who refuse at the initial BRFSS interview (4413), those ineligible, and those never contacted are excluded from the denominator. This rate is based on actual contacts with the eligible respondent 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 refuse or terminate 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 actually 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 includes 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 65 percent 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 35 percent 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 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. The former 3-digit codes that are comparable to the new 4-digit codes can be found in Appendix B. Detail on ACBS specific disposition codes can be found in Appendix C.

## Response Rate Formulae for the ACBS

### ACBS Interview Completion Rate:

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

### ACBS Cooperation Rate:

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

### ACBS CASRO Rate:

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

### ACBS Refusal Rate:

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

Where:

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

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

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

## Appendix A:

### List of Tables in the 2012 BRFSS ACBS Summary Data Quality Report

#### A. Landline samples only

Table 1A.1 ACBS 2012 Disposition Categories by State: Adult Land Line Sample

Table 1A.2 ACBS 2012 Disposition Categories by State: Child Land Line Sample

Table 2A.1 ACBS 2012 Response Rates by State: Adult Land Line Sample

Table 2A.2 ACBS 2012 Response Rates by State: Child Land Line Sample

Table 3A.1 ACBS 2012 Completed Interviews by State and Month: Adult Land Line Sample

Table 3A.2 ACBS 2012 Completed Interviews by State and Month: Child Land Line Sample

#### B. Landline and Cell Phone samples

Table 1B.1 ACBS 2012 Disposition Categories by State: Adult Land Line Cell Phone Sample

Table 1B.2 ACBS 2012 Disposition Categories by State: Child Land Line Cell Phone Sample

Table 2B.1 ACBS 2012 Response Rates by State: Adult Land Line Cell Phone Sample

Table 2B.2 ACBS 2012 Response Rates by State: Child Land Line Cell Phone Sample

Table 3B.1 ACBS 2012 Completed Interviews by State and Month: Adult Land Line Cell Phone Sample

Table 3B.2 ACBS 2012 Completed Interviews by State and Month: Child Land Line Cell Phone Sample

Table 1A.1 ACBS 2012 Disposition Categories by State: Adult Land Line 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										
ALABAMA	963	33	3.4%	254	26.4%	676	70.2%	27	58	591	333	42	188	20	8
ARIZONA	787	65	8.3%	230	29.2%	492	62.5%	12	1	479	295	19	144	7	14
CALIFORNIA	1,613	281	17.4%	517	32.1%	815	50.5%	3	153	659	427	34	146	32	20
CONNECTICUT	901	45	5.0%	240	26.6%	616	68.4%	33	4	579	324	23	208	13	11
DISTRICT OF COLUMBIA	411	33	8.0%	111	27.0%	267	65.0%	6	4	257	144	5	100	5	3
FLORIDA*	734	60	8.2%	158	21.5%	516	70.3%	0	0	516	282	89	115	21	9
GEORGIA	594	56	9.4%	131	22.1%	407	68.5%	19	0	388	207	11	154	16	0
HAWAII	545	14	2.6%	173	31.7%	358	65.7%	21	4	333	212	13	102	4	2
ILLINOIS	580	29	5.0%	159	27.4%	392	67.6%	17	0	375	264	15	86	2	8
INDIANA*	793	54	6.8%	278	35.1%	461	58.1%	0	0	461	306	61	77	11	6
IOWA*	573	45	7.9%	161	28.1%	367	64.0%	0	0	367	254	17	71	12	13
KANSAS	963	9	0.9%	255	26.5%	699	72.6%	24	2	673	490	19	152	7	5
LOUISIANA	875	29	3.3%	173	19.8%	673	76.9%	11	2	660	351	39	212	43	15
MAINE*	554	28	5.1%	131	23.6%	395	71.3%	15	0	380	268	48	50	5	9
MASSACHUSETTS*	943	119	12.6%	210	22.3%	614	65.1%	20	21	573	275	14	251	33	0
MICHIGAN	1,132	51	4.5%	342	30.2%	739	65.3%	30	1	708	569	45	84	1	9
MISSISSIPPI	703	19	2.7%	176	25.0%	508	72.3%	12	2	494	330	12	102	18	32
MISSOURI	701	37	5.3%	194	27.7%	470	67.0%	14	0	456	300	24	110	16	6
MONTANA	834	45	5.4%	250	30.0%	539	64.6%	11	0	528	365	28	114	9	12
NEBRASKA	1,430	53	3.7%	363	25.4%	1,014	70.9%	24	3	987	697	53	195	19	23
NEVADA*	450	37	8.2%	109	24.2%	304	67.6%	0	3	301	194	12	81	9	5
NEW HAMPSHIRE	848	37	4.4%	244	28.8%	567	66.9%	14	2	551	360	18	148	16	9
NEW JERSEY	1,581	110	7.0%	388	24.5%	1,083	68.5%	55	0	1,028	494	23	474	37	0
NEW MEXICO	807	56	6.9%	202	25.0%	549	68.0%	16	12	521	350	25	106	17	23
NEW YORK	591	40	6.8%	134	22.7%	417	70.6%	11	0	406	229	69	94	12	2
NORTH CAROLINA*	476	25	5.3%	121	25.4%	330	69.3%	0	0	330	218	20	72	7	13
NORTH DAKOTA	353	9	2.5%	90	25.5%	254	72.0%	6	0	248	183	28	32	3	2
OHIO	1,274	105	8.2%	306	24.0%	863	67.7%	28	0	835	480	27	301	27	0
OKLAHOMA	799	32	4.0%	240	30.0%	527	66.0%	13	17	497	269	41	141	28	18
OREGON	661	59	8.9%	208	31.5%	394	59.6%	5	16	373	279	0	87	2	5
PENNSYLVANIA	1,900	105	5.5%	553	29.1%	1,242	65.4%	38	0	1,204	761	182	219	24	18
RHODE ISLAND	663	79	11.9%	185	27.9%	399	60.2%	15	0	384	243	10	120	7	4
TEXAS	746	49	6.6%	194	26.0%	503	67.4%	22	0	481	296	61	101	15	8
VERMONT*	664	21	3.2%	191	28.8%	452	68.1%	0	0	452	302	16	117	9	8
WASHINGTON	1,829	66	3.6%	460	25.2%	1,303	71.2%	23	238	1,042	639	19	347	12	25
WEST VIRGINIA	508	6	1.2%	96	18.9%	406	79.9%	13	33	360	241	11	88	6	14
WISCONSIN	440	56	12.7%	69	15.7%	315	71.6%	8	0	307	218	20	58	6	5
<b>37 AREA** TOTAL</b>	<b>31,219</b>	<b>1,997</b>	<b>6.4%</b>	<b>8,296</b>	<b>26.6%</b>	<b>20,926</b>	<b>67.0%</b>	<b>566</b>	<b>576</b>	<b>19,784</b>	<b>12,449</b>	<b>1,193</b>	<b>5,247</b>	<b>531</b>	<b>364</b>

## NOTES

- \* Florida did not include children
- \* Indiana did not include children
- \* Iowa did not include children
- \* Maine only included respondents inversion 2 of the sample split
- \* Massachusetts only included respondents in version 1 of the sample split.
- \* Nevada did not include children.
- \* North Carolina only included respondents in version 1 of the sample split and did not include children.
- \* Vermont did not include children
- \*\* Maryland, Utah and Puerto Rico were excluded

Table 1A.2 ACBS 2012 Disposition Categories by State: Child Land Line Sample

STATE	BRFSS asthma respondent	Ineligible		Recruited for call-back				Ineligible		Total called	Eligible				Ineligible
		Not recruited		Refused BRFSS TERE		Agreed		Adult selected <sup>1</sup>	Never called		COIN	ACBS TERE	Lost to follow-up		
												Contact	Technical		
ALABAMA*	268	44	16.4%	35	13.1%	189	70.5%	44	14	131	60	4	56	9	2
ARIZONA*	146	3	2.1%	35	24.0%	108	74.0%	14	20	74	28	2	40	2	2
CALIFORNIA*	364	19	5.2%	106	29.1%	239	65.7%	59	29	151	67	14	43	18	9
CONNECTICUT	297	7	2.4%	67	22.6%	223	75.1%	25	14	184	82	12	82	4	4
DISTRICT OF COLUMBIA*	88	2	2.3%	27	30.7%	59	67.0%	5	15	39	14	0	23	1	1
GEORGIA*	178	4	2.2%	30	16.9%	144	80.9%	10	0	134	60	6	54	14	0
HAWAII*	165	13	7.9%	45	27.3%	107	64.8%	16	1	90	50	5	32	3	0
ILLINOIS*	137	23	16.8%	26	19.0%	88	64.2%	14	1	73	50	5	14	4	0
KANSAS	247	18	7.3%	49	19.8%	180	72.9%	27	2	151	98	2	44	6	1
KENTUCKY	328	8	2.4%	51	15.5%	269	82.0%	0	0	269	121	11	118	11	8
LOUISIANA*	224	42	18.8%	26	11.6%	156	69.6%	20	3	133	57	11	47	17	1
MAINE* **	115	10	8.7%	18	15.7%	87	75.7%	11	0	76	56	10	6	1	3
MARYLAND	526	175	33.3%	63	12.0%	288	54.8%	20	41	227	98	3	112	14	0
MASSACHUSETTS* **	220	2	0.9%	56	25.5%	162	73.6%	29	5	128	53	3	62	10	0
MICHIGAN	277	2	0.7%	75	27.1%	200	72.2%	32	0	168	115	12	28	2	11
MISSISSIPPI*	170	36	21.2%	20	11.8%	114	67.1%	24	1	89	60	1	23	5	0
MISSOURI*	144	24	16.7%	30	20.8%	90	62.5%	17	0	73	45	5	15	6	2
MONTANA*	150	20	13.3%	28	18.7%	102	68.0%	22	0	80	50	6	21	1	2
NEBRASKA	353	29	8.2%	70	19.8%	254	72.0%	41	1	212	141	6	55	4	6
NEW HAMPSHIRE*	194	0	0.0%	54	27.8%	140	72.2%	11	16	113	58	6	47	2	0
NEW JERSEY	514	7	1.4%	110	21.4%	397	77.2%	50	0	347	133	2	200	12	0
NEW MEXICO*	169	27	16.0%	28	16.6%	114	67.5%	25	14	75	47	7	17	4	0
NEW YORK*	156	17	10.9%	32	20.5%	107	68.6%	16	0	91	48	20	20	3	0
NORTH DAKOTA*	88	9	10.2%	17	19.3%	62	70.5%	6	0	56	38	8	10	0	0
OHIO	285	7	2.5%	66	23.2%	212	74.4%	32	0	180	81	2	87	10	0
OKLAHOMA*	151	14	9.3%	29	19.2%	108	71.5%	17	17	74	32	6	26	9	1
OREGON*	103	3	2.9%	33	32.0%	67	65.0%	13	1	53	30	0	22	1	0
PENNSYLVANIA	481	68	14.1%	81	16.8%	332	69.0%	71	0	261	160	44	44	12	1
RHODE ISLAND*	139	1	0.7%	38	27.3%	100	71.9%	17	3	80	35	2	40	2	1
TEXAS*	201	30	14.9%	35	17.4%	136	67.7%	20	0	116	66	17	28	2	3
WASHINGTON	341	3	0.9%	72	21.1%	266	78.0%	36	73	157	81	3	71	1	1
WEST VIRGINIA*	96	11	11.5%	13	13.5%	72	75.0%	15	4	53	35	1	16	0	1
WISCONSIN*	95	16	16.8%	11	11.6%	68	71.6%	4	0	64	37	3	21	3	0
<b>33 AREA TOTAL</b>	<b>7,410</b>	<b>694</b>	<b>9.4%</b>	<b>1,476</b>	<b>19.9%</b>	<b>5,240</b>	<b>70.7%</b>	<b>763</b>	<b>275</b>	<b>4,202</b>	<b>2,186</b>	<b>239</b>	<b>1,524</b>	<b>193</b>	<b>60</b>
<b>10 WEIGHTED AREA* TOTAL</b>	<b>3,649</b>	<b>324</b>	<b>8.9%</b>	<b>704</b>	<b>19.3%</b>	<b>2,621</b>	<b>71.8%</b>	<b>334</b>	<b>131</b>	<b>2,156</b>	<b>1,110</b>	<b>97</b>	<b>841</b>	<b>76</b>	<b>32</b>

<sup>1</sup> Includes child without parent/guardian

#### NOTES

\* Child data for Alabama, Arizona, California, DC, Georgia, Hawaii, Illinois, Louisiana, Maine, Massachusetts, Mississippi, Missouri, Montana, New Hampshire, New Mexico, New York, North Dakota, Oklahoma, Oregon, Rhode Island, Texas, West Virginia, and Wisconsin were not included in the data file because there were too few records (<75) to produce reliable weights. Child data for Puerto Rico were excluded.

\*\* Maine only included respondents in version 2 of the sample split

\*\* Massachusetts only included respondents in version 1 of the sample split.

Table 2A.1 ACBS 2012 Response Rates by State: Adult Land Line Sample

STATE	Completion Rate	Cooperation Rate	Refusal Rate	CASRO Rate
ALABAMA	88.8%	52.9%	37.7%	42.4%
ARIZONA	94.0%	54.2%	37.7%	44.6%
CALIFORNIA	92.6%	43.6%	51.6%	40.0%
CONNECTICUT	93.4%	54.9%	34.6%	42.6%
DISTRICT OF COLUMBIA	96.6%	55.2%	34.1%	42.3%
FLORIDA	76.0%	51.9%	38.4%	43.8%
GEORGIA	95.0%	59.3%	29.9%	43.5%
HAWAII	94.2%	53.3%	38.1%	43.5%
ILLINOIS	94.6%	60.1%	34.0%	51.6%
INDIANA	83.4%	47.2%	47.0%	42.5%
IOWA	93.7%	58.8%	35.6%	50.8%
KANSAS	96.3%	64.0%	30.1%	53.8%
LOUISIANA	90.0%	62.3%	27.0%	44.7%
MAINE	84.8%	59.2%	36.2%	54.2%
MASSACHUSETTS	95.2%	55.1%	32.9%	40.3%
MICHIGAN	92.7%	59.2%	37.6%	55.2%
MISSISSIPPI	96.5%	63.6%	30.4%	53.3%
MISSOURI	92.6%	57.6%	34.9%	48.0%
MONTANA	92.9%	56.8%	37.2%	48.8%
NEBRASKA	92.9%	62.5%	32.0%	53.6%
NEVADA	94.2%	61.4%	31.1%	49.9%
NEW HAMPSHIRE	95.2%	57.7%	34.3%	47.2%
NEW JERSEY	95.6%	54.6%	31.8%	38.2%
NEW MEXICO	93.3%	60.7%	33.7%	52.0%
NEW YORK	76.9%	51.7%	38.9%	43.9%
NORTH CAROLINA	91.6%	60.6%	33.0%	51.0%
NORTH DAKOTA	86.7%	60.6%	35.4%	54.9%
OHIO	94.7%	59.0%	31.0%	44.7%
OKLAHOMA	86.8%	48.6%	41.1%	39.3%
OREGON	100.0%	57.3%	37.5%	50.3%
PENNSYLVANIA	80.7%	50.2%	43.1%	44.7%
RHODE ISLAND	96.1%	55.2%	36.8%	45.9%
TEXAS	82.9%	52.5%	39.5%	45.8%
VERMONT	95.0%	59.3%	33.2%	48.4%
WASHINGTON	97.1%	57.1%	35.4%	47.3%
WEST VIRGINIA	95.6%	69.3%	25.3%	57.0%
WISCONSIN	91.6%	70.8%	25.0%	61.1%
<b>37 AREA* TOTAL</b>	<b>91.3%</b>	<b>56.5%</b>	<b>35.8%</b>	<b>46.9%</b>
<b>Median</b>	<b>93.4%</b>	<b>57.6%</b>	<b>34.9%</b>	<b>47.2%</b>

NOTES

\* Maryland, Utah and Puerto Rico were excluded

Table 2A.2 ACBS 2012 Response Rates by State: Child Land Line Sample

STATE	Completion Rate	Cooperation Rate	Refusal Rate	CASRO Rate
ALABAMA*	93.8%	60.6%	31.5%	48.5%
ARIZONA*	93.3%	43.1%	44.4%	33.6%
CALIFORNIA*	82.7%	35.8%	56.6%	31.6%
CONNECTICUT	87.2%	50.6%	36.4%	37.8%
DISTRICT OF COLUMBIA*	100.0%	33.3%	53.9%	28.0%
GEORGIA*	90.9%	62.5%	23.7%	39.5%
HAWAII*	90.9%	50.0%	40.8%	40.8%
ILLINOIS*	90.9%	61.7%	33.8%	54.6%
KANSAS	98.0%	65.8%	27.9%	53.6%
KENTUCKY	91.7%	66.1%	20.8%	40.6%
LOUISIANA*	83.8%	60.6%	29.3%	45.1%
MAINE*	84.9%	66.7%	31.4%	62.8%
MARYLAND	97.0%	59.8%	32.7%	48.6%
MASSACHUSETTS*	94.6%	47.3%	37.9%	34.0%
MICHIGAN	90.6%	56.9%	38.8%	51.3%
MISSISSIPPI*	98.4%	74.1%	22.1%	63.2%
MISSOURI*	90.0%	56.3%	38.3%	49.3%
MONTANA*	89.3%	59.5%	35.3%	51.9%
NEBRASKA	95.9%	64.7%	29.7%	55.1%
NEW HAMPSHIRE*	90.6%	49.2%	39.4%	38.0%
NEW JERSEY	98.5%	54.3%	28.4%	33.8%
NEW MEXICO*	87.0%	57.3%	38.3%	51.4%
NEW YORK*	70.6%	47.5%	45.0%	41.6%
NORTH DAKOTA*	82.6%	60.3%	35.4%	53.9%
OHIO	97.6%	54.4%	31.6%	37.7%
OKLAHOMA*	84.2%	47.8%	42.5%	38.9%
OREGON*	100.0%	47.6%	42.5%	38.6%
PENNSYLVANIA	78.4%	56.1%	39.3%	50.3%
RHODE ISLAND*	94.6%	46.7%	39.5%	34.5%
TEXAS*	79.5%	55.5%	38.2%	48.4%
WASHINGTON	96.4%	51.9%	40.2%	43.4%
WEST VIRGINIA*	97.2%	71.4%	24.3%	60.8%
WISCONSIN*	92.5%	72.6%	20.9%	55.2%
<b>33 AREA TOTAL</b>	<b>90.1%</b>	<b>56.0%</b>	<b>35.1%</b>	<b>44.7%</b>
<b>33 AREA MEDIAN</b>	<b>90.9%</b>	<b>56.3%</b>	<b>36.4%</b>	<b>45.1%</b>
<b>10 WEIGHTED AREA* TOTAL</b>	<b>92.0%</b>	<b>58.0%</b>	<b>32.6%</b>	<b>45.2%</b>
<b>10 WEIGHTED AREA* MEDIAN</b>	<b>96.2%</b>	<b>56.5%</b>	<b>32.2%</b>	<b>46.0%</b>

## NOTES

\* Child data for Alabama, Arizona, California, DC, Georgia, Hawaii, Illinois, Louisiana, Maine, Massachusetts, Mississippi, Missouri, Montana, New Hampshire, New Mexico, New York, North Dakota, Oklahoma, Oregon, Rhode Island, Texas, West Virginia, and Wisconsin were not included in the file because there were too few records (<75) to produce reliable weights. Child data for Puerto Rico were excluded.

Table 3A.1 ACBS 2012 Completed Interviews by State and Month: Adult Land Line Sample

STATE	2012												2013			Total
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
ALABAMA	.	33	27	33	36	22	39	36	23	36	26	22	.	.	.	333
ARIZONA	.	21	47	24	28	29	26	24	12	25	29	24	6	.	.	295
CALIFORNIA	.	45	78	5	.	79	22	.	.	108	40	50	.	.	.	427
CONNECTICUT	.	31	50	18	30	27	23	23	10	47	28	11	26	.	.	324
DISTRICT OF COLUMBIA	.	14	30	19	15	9	11	8	3	10	9	11	5	.	.	144
FLORIDA	.	35	1	45	28	31	20	28	21	26	26	21	.	.	.	282
GEORGIA	.	44	29	23	19	8	10	13	13	15	22	11	.	.	.	207
HAWAII	.	29	11	8	18	20	11	16	16	24	21	23	15	.	.	212
ILLINOIS	.	.	.	76	6	17	23	20	24	22	28	17	29	2	.	264
INDIANA	.	56	34	26	19	13	16	16	15	42	38	28	3	.	.	306
IOWA	.	.	42	18	26	19	21	24	13	23	25	18	25	.	.	254
KANSAS	36	41	46	42	29	54	42	37	49	39	40	35	.	.	.	490
LOUISIANA	.	.	14	73	.	32	36	3	24	31	8	68	2	40	20	351
MAINE	16	27	27	28	26	17	16	19	16	19	19	35	3	.	.	268
MARYLAND*	.	46	36	27	37	48	6	.	.	.	.	.	.	.	.	200
MASSACHUSETTS	.	31	38	16	29	20	21	20	26	28	22	22	2	.	.	275
MICHIGAN	.	81	35	40	48	37	30	70	29	44	87	58	10	.	.	569
MISSISSIPPI	.	.	53	26	26	34	19	22	30	39	27	30	22	2	.	330
MISSOURI	.	.	.	51	41	14	19	39	37	16	51	16	15	1	.	300
MONTANA	.	17	1	85	6	27	28	27	38	32	52	18	34	.	.	365
NEBRASKA	.	.	37	104	157	60	66	57	68	71	36	18	23	.	.	697
NEVADA	.	3	26	15	8	13	26	28	6	16	25	15	11	2	.	194
NEW HAMPSHIRE	.	30	43	21	19	25	24	34	16	29	44	59	16	.	.	360
NEW JERSEY	.	.	52	58	35	36	42	46	39	72	17	62	35	.	.	494
NEW MEXICO	.	.	22	29	20	45	33	14	58	1	31	73	24	.	.	350
NEW YORK	.	76	28	17	13	4	17	18	12	10	19	15	.	.	.	229
NORTH CAROLINA	.	.	56	33	18	22	13	25	12	15	7	9	8	.	.	218
NORTH DAKOTA	12	28	10	16	12	6	15	13	12	15	21	21	2	.	.	183
OHIO	.	62	39	34	42	42	38	34	46	34	31	47	31	.	.	480
OKLAHOMA	.	28	21	23	23	20	23	.	20	18	.	.	.	30	63	269
OREGON	25	25	30	14	22	20	14	28	17	19	39	23	3	.	.	279
PENNSYLVANIA	.	111	69	57	58	68	52	76	54	69	80	60	7	.	.	761
RHODE ISLAND	.	27	41	12	29	34	27	24	12	19	3	13	2	.	.	243
TEXAS	.	53	22	32	14	27	23	26	28	22	28	18	3	.	.	296
UTAH*	.	.	.	.	32	42	26	4	.	.	.	.	.	.	.	104
VERMONT	.	31	36	21	28	24	22	20	13	47	27	30	3	.	.	302
WASHINGTON	.	.	240	93	69	53	54	50	45	35	.	.	.	.	.	639
WEST VIRGINIA	.	21	26	19	22	28	27	18	.	15	21	44	.	.	.	241
WISCONSIN	.	.	1	37	16	18	2	39	29	10	24	10	25	7	.	218
PUERTO RICO*	.	.	.	.	.	89	4	.	.	.	94	56	.	.	.	243
40 AREA TOTAL	89	1,046	1,398	1,318	1,104	1,233	987	999	886	1,143	1,145	1,091	390	84	83	12,996
37 AREA* TOTAL	89	1,000	1,362	1,291	1,035	1,054	951	995	886	1,143	1,051	1,035	390	84	83	12,449

## NOTES

\* Maryland, Utah and Puerto Rico were excluded

Table 3A.2 ACBS 2012 Completed Interviews by State and Month: Child Land Line Sample

STATE	2012												2013			Total
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
ALABAMA*	.	.	.	18	11	3	5	5	4	6	4	4	.	.	.	60
ARIZONA*	.	.	7	3	4	2	1	3	2	1	2	2	1	.	.	28
CALIFORNIA*	.	8	14	2	.	11	4	.	.	13	4	6	5	.	.	67
CONNECTICUT	.	.	20	9	5	7	14	3	5	5	9	2	3	.	.	82
DISTRICT OF COLUMBIA*	.	.	2	3	1	.	2	1	.	1	1	1	2	.	.	14
GEORGIA*	.	11	9	9	8	5	3	4	4	2	2	3	.	.	.	60
HAWAII*	.	.	11	2	5	6	.	2	5	3	2	10	4	.	.	50
ILLINOIS*	.	.	.	15	5	2	4	3	1	.	6	7	6	1	.	50
KANSAS	10	13	3	3	8	14	7	9	7	5	12	7	.	.	.	98
KENTUCKY	.	.	.	40	10	9	11	15	1	11	12	11	1	.	.	121
LOUISIANA*	.	.	.	20	1	2	4	2	.	5	4	7	.	6	6	57
MAINE*	6	7	6	6	3	2	4	5	6	2	5	4	.	.	.	56
MARYLAND	.	14	12	3	10	15	12	7	5	8	9	3	.	.	.	98
MASSACHUSETTS*	.	6	8	6	3	1	7	2	3	7	5	4	1	.	.	53
MICHIGAN	.	12	18	13	7	8	7	8	5	8	15	8	6	.	.	115
MISSISSIPPI*	.	.	8	3	7	4	7	3	5	8	8	5	1	1	.	60
MISSOURI*	.	.	.	.	1	1	11	8	4	.	10	3	7	.	.	45
MONTANA*	.	.	.	15	2	5	5	1	5	5	2	7	3	.	.	50
NEBRASKA	.	.	8	20	32	13	13	11	17	9	11	3	4	.	.	141
NEW HAMPSHIRE*	.	.	10	6	2	2	4	1	3	3	10	12	5	.	.	58
NEW JERSEY	.	.	5	11	15	16	12	10	9	9	11	23	12	.	.	133
NEW MEXICO*	.	.	.	.	.	8	12	2	12	.	.	9	4	.	.	47
NEW YORK*	.	10	9	4	3	2	3	4	2	4	5	2	.	.	.	48
NORTH DAKOTA*	2	6	.	2	2	3	4	6	1	3	5	4	.	.	.	38
OHIO	.	14	6	5	6	2	6	5	9	11	3	7	7	.	.	81
OKLAHOMA*	.	.	.	12	7	1	1	.	3	1	.	.	1	4	2	32
OREGON*	3	4	3	2	.	1	1	2	1	10	2	.	1	.	.	30
PENNSYLVANIA	.	33	15	11	11	19	9	10	13	12	11	14	2	.	.	160
RHODE ISLAND*	.	.	10	6	6	2	1	3	3	2	.	2	.	.	.	35
TEXAS*	.	11	1	9	5	9	3	7	5	5	4	6	1	.	.	66
WASHINGTON	.	.	22	11	14	7	7	5	10	5	.	.	.	.	.	81
WEST VIRGINIA*	.	.	.	7	5	5	2	1	5	.	2	8	.	.	.	35
WISCONSIN*	.	.	1	6	3	1	.	5	7	2	3	1	6	2	.	37
PUERTO RICO*	.	.	.	.	.	.	.	6	3	.	21	42	.	.	.	72
34 AREA TOTAL	21	149	208	282	202	188	186	153	162	166	179	185	83	14	8	2,258
10 WEIGHTED AREA** TOTAL	10	86	109	126	118	110	98	83	81	83	93	78	35	0	0	1,110

## NOTES

\* Child data for Alabama, Arizona, California, DC, Georgia, Hawaii, Illinois, Louisiana, Maine, Massachusetts, Mississippi, Missouri, Montana, New Hampshire, New Mexico, New York, North Dakota, Oklahoma, Oregon, Rhode Island, Texas, West Virginia, and Wisconsin were not included in the file because there were too few records (<75) to produce reliable weights. Child data for Puerto Rico were excluded.

\*\* Two child records in Pennsylvania, one in Connecticut, and one in Washington could not be weighted or included in the public use file because the child's age increased above age 18 years between the BRFSS interview and the ACBS interview.

Table 1B.1 ACBS 2012 Disposition Categories by State: Adult Land Line 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	
CALIFORNIA	2,102	516	24.5%	589	28.0%	997	47.4%	3	169	825	504	52	209	39	21
HAWAII	1,142	66	5.8%	306	26.8%	770	67.4%	47	15	708	363	59	275	7	4
ILLINOIS	693	65	9.4%	177	25.5%	451	65.1%	19	0	432	288	17	110	7	10
INDIANA*	1,124	82	7.3%	349	31.0%	693	61.7%	0	1	692	440	101	117	25	9
IOWA*	771	78	10.1%	209	27.1%	484	62.8%	0	0	484	319	25	111	15	14
MICHIGAN	1,497	91	6.1%	424	28.3%	982	65.6%	44	2	936	718	63	139	5	11
MISSISSIPPI	895	35	3.9%	217	24.2%	643	71.8%	18	3	622	409	15	135	24	39
MISSOURI	930	73	7.8%	239	25.7%	618	66.5%	17	4	597	374	25	169	23	6
MONTANA	1,108	79	7.1%	327	29.5%	702	63.4%	15	97	590	390	32	140	14	14
NEBRASKA	1,932	84	4.3%	455	23.6%	1,393	72.1%	33	3	1,357	895	81	328	25	28
NEVADA*	579	65	11.2%	133	23.0%	381	65.8%	0	5	376	227	14	118	11	6
NEW HAMPSHIRE	1,000	65	6.5%	279	27.9%	656	65.6%	21	2	633	396	23	187	17	10
NEW MEXICO	1,186	102	8.6%	284	23.9%	800	67.5%	24	24	752	467	45	182	30	28
NEW YORK	797	101	12.7%	168	21.1%	528	66.2%	16	6	506	266	95	127	15	3
OHIO	1,695	189	11.2%	377	22.2%	1,129	66.6%	34	140	955	525	29	327	74	0
OKLAHOMA	1,138	71	6.2%	311	27.3%	756	66.4%	24	138	594	326	52	167	30	19
OREGON	868	105	12.1%	265	30.5%	498	57.4%	5	32	461	325	0	126	5	5
PENNSYLVANIA	2,486	162	6.5%	697	28.0%	1,627	65.4%	51	7	1,569	947	255	294	55	18
TEXAS	1,024	119	11.6%	233	22.8%	672	65.6%	37	5	630	365	88	146	22	9
VERMONT*	805	40	5.0%	227	28.2%	538	66.8%	0	1	537	348	21	149	11	8
WASHINGTON	2,246	124	5.5%	538	24.0%	1,584	70.5%	25	368	1,191	732	20	399	15	25
WISCONSIN	569	84	14.8%	77	13.5%	408	71.7%	10	2	396	269	30	81	10	6
<b>22 AREA** TOTAL</b>	<b>26,587</b>	<b>2,396</b>	<b>9.0%</b>	<b>6,881</b>	<b>25.9%</b>	<b>17,310</b>	<b>65.1%</b>	<b>443</b>	<b>1,024</b>	<b>15,843</b>	<b>9,893</b>	<b>1,142</b>	<b>4,036</b>	<b>479</b>	<b>293</b>

## NOTES

- \* Indiana did not include children
- \* Iowa did not include children
- \* Nevada did not include children.
- \* Vermont did not include children
- \*\* Utah and Puerto Rico were excluded

Table 1B.2 ACBS 2012 Disposition Categories by State: Child Land Line Cell Phone Sample

STATE	BRFSS asthma respondent	Ineligible Not recruited		Recruited for call-back				Ineligible		Total called	Eligible				Ineligible
				Refused BRFSS TERE		Agreed		Adult selected <sup>1</sup>	Never called		COIN	ACBS TERE	Lost to follow-up		
												Contact	Technical		
CALIFORNIA	477	39	8.2%	140	29.4%	298	62.5%	77	34	187	81	16	52	26	12
HAWAII	381	33	8.7%	85	22.3%	263	69.0%	57	8	198	82	23	86	7	0
ILLINOIS*	176	30	17.0%	36	20.5%	110	62.5%	18	1	91	61	5	21	4	0
MICHIGAN	372	5	1.3%	103	27.7%	264	71.0%	43	0	221	147	17	42	2	13
MISSISSIPPI	248	47	19.0%	33	13.3%	168	67.7%	28	2	138	86	3	41	8	0
MISSOURI*	204	32	15.7%	41	20.1%	131	64.2%	23	11	97	53	5	31	6	2
MONTANA*	204	24	11.8%	44	21.6%	136	66.7%	22	7	107	65	6	33	1	2
NEBRASKA	464	38	8.2%	95	20.5%	331	71.3%	57	1	273	170	11	77	6	9
NEW HAMPSHIRE*	233	2	0.9%	61	26.2%	170	73.0%	13	22	135	67	6	57	5	0
NEW MEXICO	288	36	12.5%	43	14.9%	209	72.6%	35	21	153	79	12	49	11	2
NEW YORK*	200	21	10.5%	42	21.0%	137	68.5%	25	0	112	55	22	31	4	0
OHIO	388	10	2.6%	76	19.6%	302	77.8%	41	49	212	90	3	99	20	0
OKLAHOMA*	272	26	9.6%	43	15.8%	203	74.6%	26	53	124	50	10	48	14	2
OREGON*	142	5	3.5%	38	26.8%	99	69.7%	19	8	72	38	0	32	1	1
PENNSYLVANIA	635	83	13.1%	124	19.5%	428	67.4%	87	2	339	188	60	66	23	2
TEXAS	308	43	14.0%	48	15.6%	217	70.5%	32	0	185	93	38	45	5	4
WASHINGTON	421	4	1.0%	90	21.4%	327	77.7%	43	108	176	89	4	80	2	1
WISCONSIN*	131	24	18.3%	20	15.3%	87	66.4%	7	0	80	48	3	26	3	0
<b>18 AREA TOTAL</b>	<b>5,544</b>	<b>502</b>	<b>9.1%</b>	<b>1,162</b>	<b>21.0%</b>	<b>3,880</b>	<b>70.0%</b>	<b>653</b>	<b>327</b>	<b>2,900</b>	<b>1,542</b>	<b>244</b>	<b>916</b>	<b>148</b>	<b>50</b>
<b>10 WEIGHTED AREA* TOTAL</b>	<b>3,982</b>	<b>338</b>	<b>8.5%</b>	<b>837</b>	<b>21.0%</b>	<b>2,807</b>	<b>70.5%</b>	<b>500</b>	<b>225</b>	<b>2,082</b>	<b>1,105</b>	<b>187</b>	<b>637</b>	<b>110</b>	<b>43</b>

<sup>1</sup> Includes child without parent/guardian

**NOTES**

\* Child data for Illinois, Missouri, Montana, New Hampshire, New York, Oklahoma, Oregon, and Wisconsin were not included in the file because there were too few records (<75) to produce reliable weights. Child data from Puerto Rico were excluded.

**Table 2B.1 ACBS 2012 Response Rates by State: Adult Land Line Cell Phone Sample**

STATE	Completion Rate	Cooperation Rate	Refusal Rate	CASRO Rate
CALIFORNIA	90.7%	44.0%	51.1%	40.2%
HAWAII	86.0%	49.9%	38.7%	38.5%
ILLINOIS	94.4%	59.6%	34.0%	50.4%
INDIANA	81.3%	49.3%	44.5%	43.5%
IOWA	92.7%	57.7%	35.9%	48.9%
MICHIGAN	91.9%	59.3%	36.7%	54.2%
MISSISSIPPI	96.5%	63.7%	30.1%	53.1%
MISSOURI	93.7%	58.4%	33.4%	47.3%
MONTANA	92.4%	52.1%	42.1%	45.7%
NEBRASKA	91.7%	62.5%	30.9%	51.5%
NEVADA	94.2%	60.5%	31.1%	48.1%
NEW HAMPSHIRE	94.5%	56.6%	35.0%	45.9%
NEW MEXICO	91.2%	58.7%	34.5%	49.0%
NEW YORK	73.7%	48.8%	41.5%	41.9%
OHIO	94.8%	56.4%	34.6%	44.8%
OKLAHOMA	86.2%	47.1%	45.0%	40.4%
OREGON	100.0%	55.1%	39.0%	47.8%
PENNSYLVANIA	78.8%	49.3%	43.5%	43.2%
TEXAS	80.6%	51.7%	39.7%	45.2%
VERMONT	94.3%	58.4%	33.6%	47.2%
WASHINGTON	97.3%	56.7%	36.5%	47.8%
WISCONSIN	90.0%	71.4%	24.1%	60.6%
<b>22 AREA* TOTAL</b>	<b>89.7%</b>	<b>55.0%</b>	<b>37.9%</b>	<b>46.7%</b>
<b>Median</b>	<b>92.2%</b>	<b>56.6%</b>	<b>36.2%</b>	<b>47.2%</b>

**NOTES**

\* Utah and Puerto Rico were excluded

**Table 2B.2 ACBS 2012 Response Rates by State: Child Land Line Cell Phone Sample**

STATE	Completion Rate	Cooperation Rate	Refusal Rate	CASRO Rate
CALIFORNIA	83.5%	34.2%	58.6%	30.4%
HAWAII	78.1%	43.2%	45.4%	34.4%
ILLINOIS*	92.4%	59.8%	35.2%	52.4%
MICHIGAN	89.6%	55.1%	40.1%	49.2%
MISSISSIPPI	96.6%	70.5%	24.3%	58.0%
MISSOURI*	91.4%	53.5%	39.6%	45.7%
MONTANA*	91.6%	56.5%	37.3%	48.5%
NEBRASKA	93.9%	61.4%	32.3%	51.8%
NEW HAMPSHIRE*	91.8%	50.0%	38.3%	38.3%
NEW MEXICO	86.8%	58.1%	33.6%	48.3%
NEW YORK*	71.4%	45.1%	45.4%	39.0%
OHIO	96.8%	53.3%	34.9%	39.8%
OKLAHOMA*	83.3%	48.5%	42.3%	39.9%
OREGON*	100.0%	50.0%	40.6%	40.6%
PENNSYLVANIA	75.8%	50.5%	43.4%	44.3%
TEXAS	71.0%	51.4%	40.9%	44.3%
WASHINGTON	95.7%	48.6%	44.0%	41.7%
WISCONSIN*	94.1%	67.6%	25.8%	53.9%
<b>18 AREA TOTAL</b>	<b>86.3%</b>	<b>52.2%</b>	<b>39.9%</b>	<b>43.8%</b>
<b>18 AREA MEDIAN</b>	<b>91.5%</b>	<b>52.3%</b>	<b>39.9%</b>	<b>44.3%</b>
<b>10 WEIGHTED AREA* TOTAL</b>	<b>85.5%</b>	<b>51.8%</b>	<b>40.5%</b>	<b>43.7%</b>
<b>10 WEIGHTED AREA* MEDIAN</b>	<b>88.2%</b>	<b>52.3%</b>	<b>40.5%</b>	<b>44.3%</b>

**NOTES**

\* Child data for Illinois, Missouri, Montana, New Hampshire, New York, Oklahoma, Oregon, and Wisconsin were not included in the data file because there were too few records (<75) to produce reliable weights. Child data from Puerto Rico were excluded.

Table 3B.1 ACBS 2012 Completed Interviews by State and Month: Adult Land Line Cell Phone Sample

STATE	2012												2013			Total
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
CALIFORNIA	.	55	98	5	.	93	22	.	.	131	46	54	.	.	.	504
HAWAII	.	29	33	16	46	35	29	29	28	37	40	26	15	.	.	363
ILLINOIS	.	.	.	77	6	17	25	28	27	25	33	19	29	2	.	288
INDIANA	.	68	46	31	27	15	28	38	24	57	57	43	6	.	.	440
IOWA	.	.	54	24	29	21	27	31	20	30	29	23	31	.	.	319
MICHIGAN	.	88	58	54	64	57	39	78	43	53	100	68	16	.	.	718
MISSISSIPPI	.	.	62	45	33	38	23	30	37	45	35	32	27	2	.	409
MISSOURI	.	.	.	53	56	19	21	48	41	17	78	20	20	1	.	374
MONTANA	.	17	1	85	6	27	28	32	40	36	54	22	42	.	.	390
NEBRASKA	.	.	56	153	204	71	92	78	73	78	41	22	27	.	.	895
NEVADA	.	3	32	15	8	13	37	33	6	22	25	15	16	2	.	227
NEW HAMPSHIRE	.	30	51	26	22	25	25	39	17	36	46	61	18	.	.	396
NEW MEXICO	.	.	29	35	30	56	45	22	77	1	43	99	30	.	.	467
NEW YORK	.	80	37	20	13	6	19	21	14	15	22	19	.	.	.	266
OHIO	.	62	39	34	42	42	38	34	46	34	32	91	31	.	.	525
OKLAHOMA	.	28	29	24	36	26	48	.	24	18	.	.	.	30	63	326
OREGON	27	28	35	21	28	23	14	29	20	21	52	24	3	.	.	325
PENNSYLVANIA	.	127	91	80	73	86	64	91	71	80	101	71	12	.	.	947
TEXAS	.	64	26	36	19	33	33	30	36	29	33	21	5	.	.	365
UTAH*	.	.	.	.	37	46	26	10	.	.	.	.	.	.	.	119
VERMONT	.	31	50	27	31	28	31	24	14	48	27	34	3	.	.	348
WASHINGTON	.	.	258	107	75	62	68	64	52	46	.	.	.	.	.	732
WISCONSIN	.	.	1	51	19	19	5	39	42	14	28	16	26	9	.	269
PUERTO RICO*	.	.	.	.	.	89	75	1	.	.	99	170	.	.	.	434
24 AREA TOTAL	27	710	1,086	1,019	904	947	862	829	752	873	1,021	950	357	46	63	10,446
22 AREA* TOTAL	27	710	1,086	1,019	867	812	761	818	752	873	922	780	357	46	63	9,893

## NOTES

\* Utah and Puerto Rico were excluded

Table 3B.2 ACBS 2012 Completed Interviews by State and Month: Child Land Line Cell Phone Sample

STATE	2012												2013			Total
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
CALIFORNIA	.	10	18	2	.	14	4	.	.	16	6	6	5	.	.	81
HAWAII	.	.	16	8	8	11	3	6	7	5	3	11	4	.	.	82
ILLINOIS*	.	.	.	16	5	3	6	3	3	1	9	7	7	1	.	61
MICHIGAN	.	13	22	16	10	10	10	9	8	10	18	13	8	.	.	147
MISSISSIPPI	.	.	8	10	11	5	11	8	5	11	9	5	2	1	.	86
MISSOURI*	.	.	.	.	1	1	11	15	5	.	10	3	7	.	.	53
MONTANA*	.	.	.	20	2	5	6	2	8	5	4	8	5	.	.	65
NEBRASKA	.	.	10	22	45	18	15	12	18	10	12	4	4	.	.	170
NEW HAMPSHIRE*	.	.	11	7	7	2	4	2	3	3	11	12	5	.	.	67
NEW MEXICO	.	.	.	.	.	18	14	4	13	.	3	18	9	.	.	79
NEW YORK*	.	11	13	5	3	2	3	4	3	4	5	2	.	.	.	55
OHIO	.	14	6	5	6	2	6	5	9	11	4	15	7	.	.	90
OKLAHOMA*	.	.	.	20	7	3	3	.	3	1	.	.	1	4	8	50
OREGON*	3	5	4	4	.	1	1	2	2	10	4	1	1	.	.	38
PENNSYLVANIA	.	33	18	13	13	20	11	14	18	14	14	15	5	.	.	188
TEXAS	.	18	2	10	6	11	5	8	12	6	6	7	2	.	.	93
WASHINGTON	.	.	23	11	14	7	10	6	12	6	.	.	.	.	.	89
WISCONSIN*	.	.	1	9	7	2	.	5	7	2	5	1	6	3	.	48
PUERTO RICO*	.	.	.	.	.	.	.	6	10	.	57	78	.	.	.	151
19 AREA TOTAL	3	104	152	178	145	135	123	111	146	115	180	206	78	9	8	1,693
10 WEIGHTED AREA** TOTAL	0	88	123	97	113	116	89	72	102	89	75	94	46	1	0	1,105

## NOTES

\* Child data for Illinois, Missouri, Montana, New Hampshire, New York, Oklahoma, Oregon, Wisconsin and Puerto Rico were excluded from the 10 weighted area total.

\*\* Three child records in Pennsylvania, one in Texas, and one in Washington could not be weighted or included in the public use file because the child's age increased above age 18 years between the BRFSS interview and the ACBS interview.

## Appendix B: Conversion to 4-digit from 3-digit ACBS disposition codes

### I. Eligible, contacted: complete interview

1100	110	Complete
1200	120	Partial complete (break-off after the end of section 8)

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

<b><u>4413</u></b>	<b><u>413</u></b>	Refused to participate in the call-back during the BRFSS interview
<b><u>2112</u></b>	<b><u>220</u></b>	Refused to begin the ACBS interview after contacted
<b><u>2120</u></b>	<b><u>210</u></b>	Terminated within the questionnaire (before section 9 of the ACBS interview)
<b><u>2211</u></b>	<b><u>211</u></b>	Refused to allow combining ACBS responses with BRFSS responses
<b><u>2212</u></b>	<b><u>212</u></b>	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

2111	270	Hang up or termination before ACBS respondent contacted
2111	280	Household contact after number of adults recorded but before ACBS respondent contacted
2210	230	Selected respondent never reached or reached but did not begin interview during interviewing period
2210	240	Selected respondent away from residence during the entire interviewing period
2220	335	Telephone answering device, message confirming private residential status
2220	340	Telecommunication technological barrier, message confirming private residential status
2320	260	Selected respondent physically or mentally unable to complete an interview during the entire interviewing period
2330	250	Language problem after respondent selection
3100	330	Hang-up or termination, unknown if private residence
3100	332	Contact, unknown if private residence
3130	360	No answer
3140	345	Telephone answering device, unknown if private residence
3200	310	Hang-up or termination, known household
3200	315	Household contact, eligibility undetermined
3322	325	Physical or mental impairment
3330	320	Language problem
4100	305	Household members away from residence during entire interviewing period
4900	N/A	No previous 3-digit code
<b><u>4306</u></b>	<b><u>306</u></b>	Selected ACBS respondent no longer living in the BRFSS household
5050	505	Refusal: hang-up, unknown if housing unit
5100	510	Call-back appointment
5111	505	Refusal: household level refusal
5112	505	Refusal: respondent refusal, hang-up, or termination
5120	505	Refusal: hang-up or termination before starting section 9
5130	550	No answer

5140	535	Answering machine, unknown if private residence
5220	525	Answering machine, message confirming residential status
5320	520	Physical or mental impairment
5330	515	Language problem
5550	555	Busy
5560	N/A	Unsafe location for interview

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

3150	350	Telecommunication technological barrier, unknown if private residence
3700	370	On never call list
4200	430	Dedicated fax/data/modem line with no human contact
4300	355	Telephone number no longer in service or changed
4300	450	Non-working/disconnected number
4400	365	Busy
4400	440	Fast busy
4430	N/A	Call forwarding/pager
4450	435	Cellular telephone
4460	N/A	Cell phone number connects to landline
4470	N/A	Landline number connects to cell phone
4500	420	Not a private residence
4510	420	Not a private residence
5150	540	Technological barrier other than answering machine, unknown if private residence
5200	560	Fax/data/modem
5300	545	Phone number temporarily out of service
5300	570	Possible non-working number
5400	530	Technological barrier other than answering machine, message confirming residential status
5550	555	Busy
5599	599	Mistaken Ctrl-end
5700	580	Requires supervisor attention
5900	585	Null attempt
<b>5999</b>	N/A	Missing disposition code

#### V. Ineligible

<b>2290</b>	<b>290</b>	Most Knowledgeable Person isn't parent or legal guardian (child)
<b>2291</b>	<b>291</b>	No parent or legal guardian in the household (child ineligible)
<b>4480</b>	<b>480</b>	Not recruited for call-back at BRFSS interview (excluded by state)
<b>4490</b>	<b>490</b>	Random child/adult selection: adult ineligible, child selected
<b>4491</b>	<b>491</b>	Random child/adult selection: child ineligible, adult selected

<u>4405</u>	<u>405</u>	Out-of-state when ACBS records are not transferred to actual state of residence
<u>4700</u>	<u>410</u>	Household, no eligible respondent (respondent does not have asthma)
<u>4411</u>	<u>411</u>	Selected respondent not eligible for follow-up
<u>4412</u>	<u>412</u>	Transferred from BRFSS but not attempted (excluded by state)
<u>4471</u>	<u>470</u>	Misdiagnosed asthma in respondent (2008 and later)

## Appendix C: 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

#### 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 9413.

#### 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 9220.

#### 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 9210.

#### 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 9211.

#### 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 9212.

### 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 9306.

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/technical\\_infodata/surveydata.htm](http://www.cdc.gov/brfss/technical_infodata/surveydata.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/technical\\_infodata/surveydata.htm](http://www.cdc.gov/brfss/technical_infodata/surveydata.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. However, 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. However, the initial diagnosis 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.