



Asthma

The Child Asthma Call-back survey (ACBS) requires use of the Behavioral Risk Factor Surveillance System (BRFSS) Random Child Selection Module and Child Asthma Prevalence Module during the BRFSS survey interview. A BRFSS survey respondent is eligible for the child ACBS if they report that the randomly selected child in the household has ever been diagnosed with asthma (lifetime asthma). The number of children with lifetime asthma identified during the BRFSS interview differs depending on the state BRFSS sample size and typically ranges from 200 to 1,000. Due to sample loss between the BRFSS interview and the asthma Call-back interview the number of completed child interviews for the ACBS ranged from 25 to 304 for the years from 2006 through 2010 ([Table A](#)). Effective in 2009, the state child data were not weighted and were not included in the annual public release file if there were fewer than 75 interview records for children due to concerns regarding the reliability of the sample weights when so few records were available. Because the ACBS annual sample size for children was limited even in states with a sufficient number to weight, the data for all states implementing the child ACBS from 2006 through 2010 were combined and reweighted. Combining records from all the years each state implemented the child ACBS provides more stable estimates of the characteristics of children with asthma in each state than those resulting from single years. Estimates of the characteristics of the child population with asthma from 35 states and the District of Columbia are included in the multiple-year child tables. Most states contributed four or five years of data to the multiple year file. [Table A](#) contains child ACBS sample sizes by year and state.

The annual child ACBS weighting process is based on the BRFSS final child weight for the randomly selected child (`_CHILDWT`). The sum of the BRFSS child weights for records reporting children with lifetime asthma is an estimate of the total population of children in the state with lifetime asthma. For the ACBS weight, the BRFSS child weight for the randomly selected child is adjusted for loss to sample between the BRFSS interview and the asthma Call-back interview. After adjusting for sample loss, demographic post stratification group (age/sex/race) adjustments are made to account for differential non-response. As an end result of the adjustment for sample loss and the post stratification adjustment, for each state the sum of the ACBS final weights for all ACBS child records is equal to the estimated total state population of children with lifetime asthma in the state.

The reweighting process for the multiple year data file used to produce the child estimates in tables 1 to 14 followed a procedure similar to that used on individual year data files. The multiple years of data were adjusted to represent an average individual year lifetime asthma population for each state. Based on the annual BRFSS child lifetime asthma population estimates, each year's total estimated child lifetime asthma population was proportionately adjusted to represent that year's relative contribution to multiple years of combined data. After the proportionate adjustment for the estimated lifetime asthma population, the weights were further adjusted by post-stratifying for differential non-response by demographic subgroups.

Additional information on the ACBS can be accessed at: <https://www.cdc.gov/asthma/ACBS.htm> (<https://www.cdc.gov/asthma/ACBS.htm>) and <https://www.cdc.gov/brfss/acbs/index.htm> (<https://www.cdc.gov/brfss/acbs/index.htm>).

Table A: Child Asthma Call-back Sample Size by Year and State

State	2006	2007	2008	2009	2010	Sample size
Alabama*					*	
Alaska*	*	*				
Arizona	51	52	57	*	38	198
Arkansas						
California	92	80	73	*	32	277
Colorado						
Connecticut	148	119	101	96	85	549
Delaware						
District of Columbia	25	44	47	29	36	181
Florida						
Georgia	128	149	88	103	77	545
Hawaii	141	188	148	116	104	697
Idaho						
Illinois		45	69	77	67	258
Indiana	106	81	86	107	120	500
Iowa	67	86	92	63	66	374
Kansas	165	127	145	279	111	827
Kentucky						
Louisiana				88	73	161
Maine	63	115	117	81	61	437
Maryland	142	117	134	134	97	624
Massachusetts	109	60	96	94	60	419
Michigan	89	129	185	131	146	680
Minnesota						
Mississippi		112				112
Missouri	97	80	85		65	327
Montana	60	70	54	75	81	340
Nebraska	109	133	178	154	143	717

Nevada						
New Hampshire	72	70	90			232
New Jersey			119	190	149	458
New Mexico		93	101	68	93	355
New York	102	100	110	92	39	443
North Carolina						
North Dakota			49	54	57	160
Ohio		141	133	45	27	346
Oklahoma		109	100	36	90	335
Oregon	84	81	67	49	50	331
Pennsylvania		92			117	209
Rhode Island			91	78	68	237
South Carolina						
South Dakota						
Tennessee						
Texas	107	127	169	169	208	780
Utah		117	105	168	183	573
Vermont	124	120	122	121	110	597
Virginia			70	72		142
Washington				304	290	594
West Virginia		85	71	71	47	274
Wisconsin	77	63	54	35	44	273
Wyoming						
Total	2,158	2,985	3,206	3,179	3,034	14,562

* Child data were collected, but records could not be weighted due to sample issues

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