



2012–2014

Behavioral Risk Factor Surveillance System

Child Asthma Call-back Survey

**Prevalence Table
Technical Information**



**National
Asthma
Control
Program**

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Multiple Year (2012–2014)
Asthma Call-back Survey (ACBS)
Child Prevalence Tables – Technical Information

The Child Asthma Call-back Survey (ACBS) requires states first to use the Behavioral Risk Factor Surveillance System (BRFSS) Random Child Selection Module and the Child Asthma Prevalence Module during the BRFSS survey interview. A BRFSS survey respondent is eligible for the Child ACBS if he or she reports 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 per state. Due to sample loss between the BRFSS interview and the ACBS interview, the number of completed ACBS child interviews per state ranged from 16 to 185 for the years from 2012 through 2014 (Table A). In a step that became 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 completed interview records for children. The step was made because of 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 2012 through 2014 were combined and reweighted. Combining records from all the years for each state that used 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 26 states are included in the multiple-year child tables. All states included in the multiple year file contributed data for all three years: 2012, 2013, and 2014. 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 (_CLLCPWT). 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 ACBS 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 years data file used to produce the child estimates in tables 1 to 14 https://www.cdc.gov/brfss/acbs/2012-2014_tables.html 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. The final weight for multiple years (2012–2014) ACBS data is _CHILDWT_M_YEARS.

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

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

| State | 2012 | 2013 | 2014 | Sample size |
|---------------|-------|-------|-------|-------------|
| Connecticut | 81 | 84 | 53 | 218 |
| Hawaii | 82 | 62 | 40 | 184 |
| Kansas | 98 | 136 | 54 | 288 |
| Louisiana | 57 | 26 | 18 | 101 |
| Maine | 55 | 42 | 42 | 139 |
| Maryland | 98 | 69 | 101 | 268 |
| Massachusetts | 53 | 16 | 17 | 86 |
| Michigan | 147 | 140 | 91 | 378 |
| Mississippi | 86 | 79 | 45 | 210 |
| Missouri | 53 | 47 | 41 | 141 |
| Montana | 65 | 81 | 42 | 188 |
| Nebraska | 170 | 93 | 129 | 392 |
| New Hampshire | 67 | 49 | 36 | 152 |
| New Jersey | 133 | 85 | 157 | 375 |
| New Mexico | 79 | 70 | 49 | 198 |
| New York | 55 | 37 | 24 | 116 |
| Ohio | 90 | 61 | 57 | 208 |
| Oklahoma | 50 | 65 | 52 | 167 |
| Oregon | 37 | 23 | 33 | 93 |
| Pennsylvania | 185 | 74 | 77 | 336 |
| Rhode Island | 35 | 41 | 39 | 115 |
| Texas | 92 | 91 | 118 | 301 |
| Utah | 128 | 144 | 174 | 446 |
| Washington | 88 | 80 | 66 | 234 |
| West Virginia | 35 | 63 | 47 | 145 |
| Wisconsin | 47 | 52 | 35 | 134 |
| | | | | |
| Total | 2,166 | 1,810 | 1,637 | 5,613 |

*Only the states that have records for all three years (2012, 2013, and 2014) are included.