

Table 8. State and local area estimates for 4:3:1:3*:3:1:4 vaccine series* among children 19-35 months by sampling frame and year, National Immunization Survey-Child, 2017[†]

| Area name | Single[§] | Dual[¶] | Difference^{**} |
|----------------------|---------------------------|-------------------------|--------------------------------|
| Alabama | 72.5 (65.5-79.5) | 71.2 (64.4-78.1) | -1.3 (-3.6-1.0) |
| Alaska | 69.0 (62.5-75.5) | 69.5 (63.2-75.8) | 0.5 (-0.4-1.4) |
| Arizona | 65.1 (57.7-72.6) | 66.5 (59.5-73.5) | 1.3 (-0.5-3.1) |
| Arkansas | 70.5(63.1-77.8) | 69.4 (62.2-76.7) | -1.0 (-2.1-0.1) |
| California | 67.9 (58.6-77.1) | 68.6 (60.0-77.1) | 0.7 (-3.4-4.8) |
| Colorado | 71.7 (64.3-79.1) | 71.0 (63.6-78.4) | -0.7 (-2.7-1.3) |
| Connecticut | 77.1 (69.7-84.6) | 75.3 (68.2-82.4) | -1.8 (-5.7-2.1) |
| Delaware | 76.2 (69.3-83.0) | 77.1 (70.7-83.4) | 0.9 (-0.7-2.5) |
| District of Columbia | 73.2(65.1-81.4) | 74.0 (66.8-81.2) | 0.8 (-1.7-3.3) |
| Florida | 76.9 (69.9-83.9) | 76.2 (69.4-82.9) | -0.7 (-2.2-0.8) |
| Georgia | 66.6(58.8-74.3) | 65.6 (58.3-72.8) | -1.0 (-3.6-1.6) |
| Hawaii | 69.5 (62.5-76.5) | 69.8 (63.0-76.6) | 0.3 (-1.3-1.9) |
| Idaho | 69.0 (61.0-77.1) | 69.2 (61.6-76.9) | 0.2 (-1.7-2.1) |

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| IL-City of Chicago | 73.3 (62.4-84.1) | 75.3 (65.9-84.6) | 2.0 (0.5-3.5) ^{††} |
| IL-Rest of State | 74.7 (68.9-80.5) | 75.5 (70.1-80.9) | 0.8 (-0.5-2.1) |
| Indiana | 66.6 (58.9-74.3) | 66.3 (58.7-73.8) | -0.4 (-1.9-1.1) |
| Iowa | 73.5 (66.3-80.6) | 72.8 (66.1-79.6) | -0.6 (-3.3-2.1) |
| Kansas | 68.0 (58.9-77.0) | 69.5 (61.2-77.9) | 1.6 (-0.9-4.1) |
| Kentucky | 73.6 (66.6-80.6) | 71.0 (63.9-78.2) | -2.6 (-5.1--0.1) ^{††} |
| Louisiana | 70.4 (63.0-77.9) | 70.0 (62.7-77.3) | -0.4 (-2.0-1.2) |
| Maine | 72.6 (66.4-78.9) | 72.7 (66.7-78.8) | 0.1 (-1.3-1.5) |
| Maryland | 75.1 (67.1-83.1) | 75.2 (67.1-83.3) | 0.1 (-3.7-3.9) |
| Massachusetts | 84.8 (77.4-92.2) | 82.1 (75.1-89.2) | -2.7 (-5.8-0.4) |
| Michigan | 68.5 (60.4-76.6) | 69.9 (62.4-77.3) | 1.4 (-0.5-3.3) |
| Minnesota | 66.8 (58.2-75.4) | 66.1 (58.0-74.2) | -0.7 (-3.6-2.2) |
| Mississippi | 69.9 (62.3-77.5) | 68.7 (61.4-76.0) | -1.2 (-2.8-0.4) |
| Missouri | 71.9 (64.5-79.4) | 71.2 (63.9-78.5) | -0.7 (-2.4-1.0) |

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| Montana | 66.8 (58.7-74.9) | 66.2 (58.3-74.1) | -0.5 (-2.3-1.3) |
| Nebraska | 79.0 (73.0-85.0) | 77.9 (71.9-83.8) | -1.2 (-2.8-0.4) |
| Nevada | 72.4 (65.5-79.3) | 71.3 (64.7-77.9) | -1.1 (-3.0-0.8) |
| New Hampshire | 79.5 (73.2-85.9) | 78.9 (72.9-84.8) | -0.7 (-2.9-1.5) |
| New Jersey | 70.1 (62.8-77.4) | 69.3 (63.1-75.4) | -0.8 (-3.7-2.1) |
| New Mexico | 72.5 (65.3-79.7) | 71.9 (64.9-79.0) | -0.6 (-2.0-0.8) |
| NY-City of New York | 61.2 (52.7-69.8) | 61.8 (54.4-69.2) | 0.6 (-2.8-4.0) |
| NY-Rest of State | 71.3 (63.9-78.7) | 73.1 (66.9-79.3) | 1.8 (-0.9-4.5) |
| North Carolina | 70.2 (63.0-77.4) | 70.9 (64.1-77.8) | 0.7 (-0.9-2.3) |
| North Dakota | 80.0 (73.7-86.4) | 78.8 (72.6-85.1) | -1.2 (-3.0-0.6) |
| Ohio | 67.9 (60.6-75.2) | 66.4 (59.2-73.5) | -1.5 (-3.4-0.4) |
| Oklahoma | 66.6 (58.7-74.4) | 67.3 (59.8-74.8) | 0.8 (-0.6-2.2) |
| Oregon | 68.9 (61.2-76.5) | 70.3 (63.3-77.2) | 1.4 (-0.2-3.0) |
| PA-Philadelphia County | 69.0 (59.8-78.1) | 70.4 (62.3-78.5) | 1.4 (-1.1-3.9) |

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| PA-Rest of State | 70.4 (62.3-78.5) | 70.4 (62.4-78.5) | 0.0 (-4.0-4.0) |
| Rhode Island | 75.9 (69.2-82.7) | 74.4 (68.3-80.4) | -1.6 (-4.7-1.5) |
| South Carolina | 65.4 (56.7-74.1) | 66.0 (57.8-74.1) | 0.6 (-1.6-2.8) |
| South Dakota | 74.8 (68.0-81.7) | 74.7 (68.10-81.4) | -0.1 (-0.80-0.6) |
| Tennessee | 79.3 (73.4-85.3) | 79.3 (73.4-85.2) | 0.0 (-1.2-1.2) |
| TX-Bexar County | 75.1 (68.3-81.9) | 75.6 (69.1-82.2) | 0.6 (0.0-1.2) |
| TX-City of Houston | 73.3 (63.3-83.2) | 74.3 (65.1-83.6) | 1.1 (-0.6-2.8) |
| TX-El Paso County | 67.7 (59.6-75.7) | 66.2(58.2-74.3) | -1.4 (-3.3-0.5) |
| TX-Dallas County | 66.5 (57.7-75.3) | 65.6 (56.6-74.6) | -0.9 (-1.7-0.1) ^{††} |
| TX-Travis County | 66.3 (59.1-73.5) | 66.7 (59.8-73.6) | 0.4 (-1.2-2.0) |
| TX-Rest of State | 66.1 (61.0-71.2) | 66.0 (61.0-71.0) | -0.1 (-1.4-1.2) |
| Utah | 67.9 (60.4-75.4) | 67.9 (60.9-74.9) | 0.0 (-1.8-1.8) |
| Vermont | 74.1 (67.6-80.6) | 74.0 (67.9-80.0) | -0.1 (-1.8-1.6) |
| Virginia | 75.1 (66.4-83.7) | 77.1 (69.1-85.1) | 2.0 (-0.9-4.9) |

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| Washington | 69.6 (61.8-77.5) | 69.9 (62.7-77.2) | 0.3 (-2.1-2.7) |
| West Virginia | 74.3 (68.2-80.4) | 74.7 (68.7-80.6) | 0.3 (-1.0-1.6) |
| Wisconsin | 68.9 (60.9-76.8) | 69.2 (61.8-76.7) | 0.4 (-1.9-2.7) |
| Wyoming | 71.5 (64.9-78.2) | 72.0 (65.6-78.4) | 0.5 (-0.5-1.5) |
| U.S. Virgin Islands | 40.3 (22.7-57.9) | 43.9 (29.8-57.9) | 3.6 (-1.4-8.6) |
| Guam | 46.1 (38.0-54.2) | 49.1 (42.5-55.7) | 3.0 (-0.4-6.4) |
| Puerto Rico | 65.9 (57.4-74.4) | 65.0 (56.8-73.2) | -0.9 (-2.9-1.1) |

Abbreviations: CI=confidence interval, MSA = Metropolitan Statistical Area

* The 4:3:1:3*:3:1:4 vaccine series includes ≥ 4 doses of DTaP, ≥ 3 doses of poliovirus vaccine, ≥ 1 dose of measles-containing vaccine, the full series of Hib (≥ 3 or ≥ 4 doses, depending on product type), ≥ 3 doses of HepB, ≥ 1 dose of varicella vaccine, and ≥ 4 doses of PCV.

† Data for the 2017 survey year include children born during January 2014–May 2016.

§ Dual-frame is defined as households with both landlines and cell-phones.

¶ Single-frame is defined as households with only cellphones

**Difference between proportion of dual households and the proportion of single households.

††Statistically significantly different from 0 at $p < 0.05$