

Table 7. State and local area level 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, 2016[†]

Area name	Single[§]	Dual[¶]	Difference^{**}
Alabama	78.1 (71.0-85.2)	77.3 (70.4-84.2)	-0.8 (-2.9-1.3)
Alaska	70.0 (63.0-77.0)	68.8 (62.5-75.2)	-1.1 (-3.3-1.1)
Arizona	74.3 (66.5-82.2)	69.9 (62.0-77.8)	-4.4 (-6.9--1.9) ^{††}
Arkansas	70.6 (62.7-78.4)	67.8 (60.1-75.4)	-2.8 (-4.8--0.8) ^{††}
California	63.9 (53.9-73.8)	65.3 (56.9-73.8)	1.5 (-2.4-5.4)
Colorado	76.2 (67.6-84.8)	76.4 (68.9-83.8)	0.1 (-3.0-3.2)
Connecticut	76.6 (68.4-84.9)	75.7 (68.6 -82.7)	-1.0 (-3.7-1.7)
Delaware	78.8 (71.6-86.0)	78.1(71.7-84.5)	-0.7(-2.6-1.2)
District of Columbia	68.3 (60.7-75.9)	68.2 (61.3-75.1)	-0.1 (-2.3-2.1)
Florida	67.3 (58.2-76.4)	67.1 (58.7-75.5)	-0.2 (-2.3-1.9)
Georgia	74.9 (68.2-81.7)	77.3 (71.2-83.3)	2.3 (0.9-3.7) ^{††}
Hawaii	75.7 (69.3-82.1)	75.1 (69.0-81.2)	-0.6 (-2.0-0.8)

Idaho	73.4 (66.4-80.4)	73.9 (67.2-80.6)	0.5 (-0.7-1.7)
IL-City of Chicago	60.7 (47.4-74.0)	67.4 (56.7-78.2)	6.7 (3.1 -10.3) ⁺⁺
IL-Rest of State	72.9 (67.5-78.3)	72.9 (67.6-78.1)	0.0 (-1.0-1.0)
Indiana	70.2 (63.1-77.3)	68.8 (61.9-75.8)	-1.4 (-3.6-0.8)
Iowa	73.3 (67.2-79.4)	73.5 (67.8-79.2)	0.2 (-1.2-1.6)
Kansas	76.6 (69.7-83.5)	76.4 (69.9-82.9)	-0.2 (-1.6-1.2)
Kentucky	76.1 (68.6-83.7)	74.5 (67.4-81.6)	-1.6 (-3.3-0.1)
Louisiana	69.1 (61.3-76.8)	66.8 (59.7-73.9)	-2.3 (-4.7-0.1)
Maine	70.7 (63.8-77.5)	70.6 (64.1-77.0)	-0.1 (-1.8 -1.6)
Maryland	68.8 (61.0-76.6)	74.4 (67.8-81.0)	5.6 (3.5-7.7) ⁺⁺
Massachusetts	84.6 (79.3-90.0)	85.3 (80.3-90.2)	0.7 (-0.8-2.2)
Michigan	70.4 (62.2-78.6)	70.2 (62.6-77.9)	-0.2 (-2.0-1.6)
Minnesota	75.9 (68.3-83.5)	73.8 (66.8-80.7)	-2.2 (-5.2-0.8)
Mississippi	71.3 (63.8-78.8)	70.4 (63.2-77.7)	-0.8 (-2.5-0.9)

Missouri	72.2 (64.0-80.3)	66.9 (59.0-74.7)	-5.3(-8.3-2.3) ^{††}
Montana	63.1 (55.2-71.1)	63.6 (56.2-71.1)	0.5 (-1.5-2.5)
Nebraska	84.6 (78.6-90.5)	80.6 (74.4-86.8)	-4.0 (-6.4 -1.6) ^{††}
Nevada	70.5 (62.2-78.9)	71.9 (64.4-79.4)	1.4 (-0.7-3.5)
New Hampshire	77.2 (70.6-83.8)	78.0 (71.9-84.1)	0.8 (-0.8-2.4)
New Jersey	73.7 (65.7-81.7)	70.2 (63.2-77.1)	-3.5 (-7.2-0.2)
New Mexico	68.1 (61.1-75.2)	68.5 (61.8-75.1)	0.3 (-1.6-2.2)
NY-City of New York	69.7 (61.8-77.6)	68.1 (61.7-74.5)	-1.6 (-4.9-1.7)
NY-Rest of State	77.0 (69.9-84.2)	76.5 (70.7-82.2)	-0.6 (-3.3-2.1)
North Carolina	77.2 (69.9-84.6)	77.8 (70.8-84.7)	0.6 (-1.8-3.0)
North Dakota	71.0 (63.5-78.4)	68.2 (60.6-75.8)	-2.8 (-5.6-0.0)
Ohio	67.7 (59.6-75.9)	68.0 (60.4-75.7)	0.3 (-2.0-2.6)
Oklahoma	68.3 (60.0-76.5)	67.0 (59.2-74.8)	-1.3 (-3.8-1.2)
Oregon	58.8 (51.3-66.3)	58.1 (51.0-65.1)	-0.7 (-2.3-0.9)

PA-Philadelphia County	83.0 (77.3-88.7)	83.4 (78.1-88.7)	0.4 (-1.4-2.2)
PA-Rest of State	75.2 (67.6-82.9)	71.9 (64.9-78.8)	-3.3 (-6.8-0.2)
Rhode Island	73.7 (66.3-81.1)	75.5 (68.8-82.2)	1.8 (0.6-3.0) ^{††}
South Carolina	70.9 (64.2-77.7)	69.7 (63.1-76.2)	-1.3 (-3.2-0.6)
South Dakota	71.9 (65.0-78.8)	70.4 (63.8-77.1)	-1.5 (-3.2-0.2)
Tennessee	66.7(58.6-74.8)	67.4 (59.9-74.9)	0.7 (-1.1-2.5)
TX-Bexar County	69.3 (60.8-77.8)	69.4 (61.3-77.4)	0.0 (-1.8-1.8)
TX-City of Houston	73.1 (64.4-81.9)	73.1 (65.1-81.1)	-0.1 (-2.0-1.8)
TX-El Paso County	71.0(61.7-80.3)	72.8 (64.5-81.1)	1.8 (0.2-3.4) ^{††}
TX-Dallas County	71.1 (62.5-79.6)	71.2 (62.7-79.8)	0.2 (-1.0-1.4)
TX-Rest of State	68.8 (63.1-74.5)	68.3 (62.8-73.9)	-0.5 (-2.2-1.2)
Utah	72.2 (64.9-79.4)	72.2 (65.4-79.1)	0.1 (-1.5-1.7)
Vermont	74.5 (67.3-81.7)	76.8 (71.1-82.6)	2.3 (-0.3-4.9)
Virginia	67.4 (58.4-76.5)	65.9 (57.0-74.7)	-1.6 (-6.0-2.8)

Washington	77.5 (71.3-83.8)	75.7 (69.9-81.6)	-1.8 (-4.5-0.9)
West Virginia	65.0 (57.6-72.4)	64.7 (57.5-71.9)	-0.3 (-2.6-2.0)
Wisconsin	82.1 (75.6-88.6)	79.4 (73.0-85.9)	-2.6 (-5.0--0.2) ^{††}
Wyoming	62.1 (54.9-69.3)	62.8 (55.9-69.8)	0.7 (-0.7-2.1)
U.S. Virgin Islands	43.6 (35.7-51.5)	45.7 (38.3-53.2)	2.1 (-0.1-4.3)
Guam	52.6 (43.5-61.6)	50.1 (43.8-56.4)	-2.5 (-6.0-1.0)
Puerto Rico	63.9 (56.7-71.1)	64.4 (57.7-71.0)	0.5 (-1.6-2.6)

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 2016 survey year include children born during January 2013–May 2015.

[§] 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 $p < 0.05$