Estimated Vaccination Coverage* with Individual Vaccines and Selected Vaccination Series
Among Children 19-35 Months of Age Living At or Above the Poverty Level by State and Immunization Action Plan Area --
US, National Immunization Survey, Q1/1998-Q4/1998†

	3+DTP‡	4+DTP§	3+Polio‖	1+MMR¶	3+Hib**	3+HepB††	1+Var‡‡	3:3:1§§	4:3:1‖‖	4:3:1:3¶¶	4:3:1:3:3***
US National	96.5±0.5†††	86.1±0.9	91.7±0.7	93.1±0.6	94.5±0.6	87.7±0.8	44.1±1.2	NA	82.7±1.0	81.5±1.0	74.8±1.1
Alabama	98.1±2.5	88.5±4.7	90.5±4.1	96.1±2.2	95.0±3.3	84.7±4.9	51.4±6.6	NA	84.1±5.2	82.2±5.4	73.8±6.0
AL-Jefferson County	98.9±1.7	83.2±6.4	89.5±5.0	92.2±5.0	96.9±2.3	85.5±5.5	63.7±8.1	NA	80.4±6.7	79.5±6.8	72.4±7.4
AL-Rest of State	98.0±2.9	89.4±5.4	90.7±4.7	96.8±2.4	94.6±3.9	84.5±5.6	49.2±7.6	NA	84.7±6.0	82.6±6.2	74.1±6.9
Alaska	96.6±2.6	84.7±4.9	92.3±3.7	91.1±4.0	94.4±3.2	88.0±4.4	16.3±5.2	NA	81.9±5.3	81.1±5.4	76.4±5.7
Arizona	92.9±3.1	82.2±5.0	88.8±3.9	90.5±3.9	92.4±3.2	88.2±3.8	50.0±6.4	NA	78.8±5.2	78.4±5.3	73.8±5.5
AZ-Maricopa County	93.2±4.1	82.6±6.6	87.9±5.4	89.7±5.4	93.4±4.1	90.1±4.9	49.6±8.9	NA	78.9±7.0	78.9±7.0	75.6±7.3
AZ-Rest of State	92.5±4.7	81.7±7.5	90.4±5.1	92.0±4.8	90.7±5.0	85.1±5.8	50.8±8.4	NA	78.7±7.6	77.4±7.7	70.6±8.0
Arkansas	95.3±2.9	84.2±5.1	93.5±3.3	92.1±3.8	93.2±3.5	86.1±4.8	30.6±6.8	NA	83.9±5.2	82.7±5.3	73.2±6.3
California	95.4±2.5	87.1±3.8	89.2±3.7	94.6±2.6	93.9±2.8	87.0±3.9	59.7±5.6	NA	83.6±4.3	82.8±4.4	75.8±5.0
CA-Los Angeles County	96.2±4.2	85.2±7.2	91.0±5.9	94.1±5.0	95.0±4.8	87.6±7.3	64.1±9.6	NA	83.6±7.4	83.6±7.4	75.8±8.8
CA-San Diego County	93.4±3.9	83.2±5.9	87.6±5.2	94.6±3.7	91.8±4.5	80.8±6.7	63.1±7.9	NA	80.4±6.3	78.8±6.6	67.6±7.7
CA-Santa Clara County	95.0±3.4	88.7±5.1	90.4±4.7	96.0±3.1	92.9±4.2	85.5±5.9	59.8±8.0	NA	86.3±5.5	84.2±5.9	79.4±6.6
CA-Rest of State	95.5±3.6	88.3±5.5	88.5±5.7	94.7±3.8	93.8±4.2	87.8±5.6	57.4±8.3	NA	83.7±6.3	82.8±6.5	76.6±7.3
Colorado	98.2±2.2	82.7±5.7	94.3±3.6	91.4±4.1	96.1±3.0	87.3±5.0	35.9±7.1	NA	77.8±6.2	76.4±6.3	68.3±6.9
Connecticut	98.8±1.6	94.0±3.3	93.9±3.3	97.0±2.5	98.4±1.9	90.3±4.2	41.6±7.0	NA	90.4±4.0	90.0±4.1	81.7±5.4
Delaware	98.2±1.8	85.8±5.2	91.1±4.4	92.4±4.3	95.5±2.8	81.6±5.5	50.6±7.3	NA	80.9±5.9	79.7±6.0	68.7±6.7
District of Columbia	96.7±3.3	85.0±6.0	90.1±5.1	93.9±4.0	94.0±4.0	85.8±6.4	70.0±8.2	NA	82.4±6.3	80.0±6.6	71.9±7.7
Florida	94.4±3.5	84.9±4.6	88.7±4.3	91.4±3.8	91.3±4.0	90.1±4.1	40.5±6.1	NA	80.9±5.1	78.0±5.3	75.1±5.5
FL-Miami-Dade County	94.2±6.4	76.4±8.4	91.0±6.7	95.5±3.4	90.9±6.8	87.2±7.1	37.5±8.2	NA	75.9±8.4	73.4±8.6	68.7±8.7
FL-Duval County	98.5±1.8	85.9±5.6	92.0±4.4	93.0±3.9	95.8±3.1	91.8±4.7	49.0±8.2	NA	80.2±6.6	77.5±6.8	72.8±7.4
FL-Rest of State	94.1±4.2	86.4±5.6	88.0±5.3	90.5±4.8	91.0±4.9	90.6±4.9	40.3±7.5	NA	81.8±6.2	78.9±6.5	76.5±6.8
Georgia	97.6±2.0	84.5±4.7	91.3±3.5	92.8±3.3	95.9±2.4	88.2±4.1	44.3±6.2	NA	80.5±5.1	79.7±5.1	74.4±5.5
GA-Fulton/DeKalb Counties	93.7±7.6	77.1±8.8	85.5±8.5	87.4±8.2	90.1±8.0	82.7±8.4	49.8±9.0	NA	72.8±9.0	69.6±9.1	64.1±9.1
GA-Rest of State	98.5±1.8	86.1±5.3	92.5±3.8	94.0±3.6	97.1±2.4	89.3±4.6	43.2±7.2	NA	82.2±5.8	81.8±5.9	76.5±6.3
Hawaii	94.9±3.7	86.0±5.7	91.3±4.9	94.9±3.5	92.5±4.2	86.9±5.7	54.3±7.7	NA	84.1±6.1	81.8±6.4	75.8±7.1
Idaho	92.2±3.7	78.9±5.7	88.5±4.4	89.1±4.2	90.8±4.0	77.3±5.9	8.3±3.9	NA	76.5±5.9	76.5±5.9	66.1±6.6
Illinois	95.5±3.8	84.9±4.9	91.5±4.2	92.9±4.1	93.2±4.0	91.6±3.7	27.8±5.3	NA	82.4±5.1	80.7±5.2	76.7±5.5
IL-City of Chicago	93.1±5.3	74.0±9.4	87.9±7.3	88.9±6.1	87.8±6.4	85.1±7.6	32.9±9.7	NA	69.5±9.8	66.1±9.9	NA
IL-Rest of State	96.0±4.6	87.5±5.7	92.4±5.0	93.9±4.9	94.5±4.8	93.2±4.2	26.6±6.1	NA	85.5±5.8	84.3±5.9	80.6±6.3
Indiana	96.3±2.7	82.6±5.0	89.3±4.1	94.1±2.7	92.9±3.5	83.7±4.8	29.3±5.5	NA	79.8±5.2	77.9±5.4	68.8±5.8
IN-Marion County	95.7±3.0	83.2±5.9	90.1±4.3	90.1±4.3	93.6±3.6	80.1±6.0	31.5±6.9	NA	80.0±6.2	80.0±6.2	67.7±7.1
IN-Rest of State	96.4±3.1	82.5±5.9	89.2±4.8	94.9±3.1	92.7±4.1	84.3±5.6	28.9±6.4	NA	79.8±6.0	77.5±6.3	69.0±6.8
Iowa	98.4±1.6	87.8±4.1	92.9±3.2	93.0±3.3	96.9±2.2	90.7±3.5	34.5±6.0	NA	85.3±4.5	84.3±4.6	80.6±4.9
Kansas	97.1±2.6	87.9±4.7	94.9±3.2	93.4±3.8	94.2±3.4	87.4±4.9	44.1±7.2	NA	86.0±4.9	84.7±5.1	75.9±6.1
Kentucky	98.0±1.8	89.8±4.4	94.2±3.3	94.1±3.3	96.6±2.4	88.5±4.7	53.6±7.6	NA	85.5±5.1	84.7±5.2	76.1±6.3
Louisiana	96.3±2.9	84.8±5.5	93.2±3.8	92.4±4.2	95.8±3.1	89.9±4.4	36.8±7.2	NA	83.7±5.7	82.7±5.8	76.9±6.3
LA-Orleans Parish	93.9±5.6	84.5±7.9	89.5±6.9	91.1±6.8	93.9±5.6	81.8±8.6	NA	NA	83.6±8.0	83.6±8.0	71.5±9.8
LA-Rest of State	96.5±3.1	84.8±6.0	93.5±4.1	92.5±4.6	96.0±3.3	90.6±4.7	36.4±7.8	NA	83.7±6.1	82.6±6.3	77.4±6.9
Maine	NA	94.0±3.4	97.4±2.1	96.1±2.7	95.5±2.7	89.5±4.1	33.0±6.3	NA	92.5±3.6	89.3±4.2	80.3±5.3
Maryland	95.6±3.1	85.2±4.7	91.4±3.9	89.1±4.4	92.9±3.7	88.0±4.7	54.7±6.3	NA	79.4±5.3	77.5±5.5	73.3±5.8
MD-City of Baltimore	98.9±1.5	83.2±7.8	93.3±4.4	93.6±4.5	98.3±2.0	86.0±8.5	NA	NA	78.4±8.4	78.4±8.4	69.0±10.0
MD-Rest of State	95.2±3.4	85.4±5.1	91.2±4.2	88.7±4.9	92.4±4.1	88.2±5.1	55.0±6.9	NA	79.5±5.8	77.4±6.0	73.7±6.3
Massachusetts	98.8±1.3	92.7±3.2	93.2±3.1	97.3±1.9	97.8±1.8	88.2±4.2	47.2±6.3	NA	88.6±3.9	87.7±4.0	79.2±5.1
MA-City of Boston	NA	92.4±4.1	96.6±3.1	98.5±1.8	99.0±1.5	94.5±3.6	51.1±8.6	NA	90.5±4.6	90.1±4.7	85.7±5.6
MA-Rest of State	98.7±1.4	92.7±3.5	92.9±3.4	97.2±2.1	97.7±1.9	87.6±4.6	46.8±6.8	NA	88.4±4.2	87.5±4.3	78.6±5.5
Michigan	94.7±3.5	85.8±4.8	91.0±4.1	92.2±3.5	93.0±3.8	92.1±3.3	30.9±6.1	NA	81.7±5.4	80.9±5.5	77.4±5.7
MI-City of Detroit	91.5±7.1	81.7±9.0	84.0±8.6	88.1±6.7	87.9±7.9	85.0±8.6	NA	NA	77.0±9.5	75.7±9.7	NA
MI-Rest of State	94.9±3.7	86.1±5.1	91.5±4.4	92.5±3.7	93.4±4.0	92.6±3.5	30.8±6.4	NA	82.0±5.7	81.2±5.8	77.9±6.0
Minnesota	97.4±2.3	90.0±4.2	93.5±3.4	93.3±3.5	97.1±2.3	85.4±4.7	44.9±6.6	NA	85.6±4.9	85.1±4.9	74.7±5.8
Mississippi	94.6±4.4	86.2±6.0	93.0±4.8	92.0±4.8	94.0±4.6	87.9±5.7	27.2±7.1	NA	86.2±6.0	86.2±6.0	80.6±6.7
Missouri	NA	92.2±4.2	95.8±2.7	92.4±4.1	98.0±2.2	90.8±4.4	37.8±7.5	NA	89.1±4.7	87.1±5.1	80.4±6.1
Montana	96.7±2.5	87.6±4.5	93.4±3.4	89.0±4.3	96.3±2.6	87.8±4.4	36.9±6.7	NA	83.1±5.1	82.7±5.1	76.1±5.9
Nebraska	95.9±2.8	86.5±4.7	88.1±4.4	90.9±4.0	91.7±3.8	86.1±4.6	35.2±6.3	NA	79.8±5.4	77.5±5.6	71.2±6.0
Nevada	93.0±5.1	80.2±6.8	91.1±5.3	92.2±5.1	91.3±5.4	83.9±6.4	28.6±6.8	NA	79.2±6.8	78.4±6.9	71.2±7.2
New Hampshire	98.7±1.6	91.0±3.9	92.8±3.6	94.7±3.2	95.2±3.1	87.8±4.4	42.9±6.7	NA	85.3±4.8	83.5±5.0	75.9±5.8
New Jersey	97.0±2.9	88.3±5.0	94.3±3.6	95.5±2.7	95.2±3.4	88.4±5.4	52.8±7.9	NA	87.8±5.0	86.3±5.2	80.1±6.3
NJ-City of Newark	97.6±2.7	NA	NA	NA	95.0±4.1	88.4±8.4	18.8±8.6	NA	NA	NA	NA
NJ-Rest of State	97.0±3.0	88.8±5.1	94.9±3.6	95.9±2.8	95.2±3.4	88.4±5.5	53.6±8.1	NA	88.3±5.1	86.9±5.3	80.6±6.4
New Mexico	95.9±3.6	81.0±7.0	90.3±5.2	91.4±4.9	91.8±4.9	86.4±6.2	35.0±8.6	NA	77.3±7.4	73.8±7.8	66.2±8.4
New York	98.9±1.4	91.2±3.5	92.9±3.2	96.0±2.4	96.6±2.4	92.5±3.6	46.5±6.3	NA	87.1±4.1	86.0±4.3	81.8±4.9
NY-City of New York	96.8±4.1	87.4±6.4	91.3±5.9	97.1±2.8	91.9±6.4	89.2±7.0	NA	NA	84.3±7.2	82.1±8.0	77.5±8.6
NY-Rest of State	NA	93.1±4.1	93.6±3.9	95.4±3.2	99.0±1.4	94.2±4.1	43.9±7.8	NA	88.5±4.9	88.0±5.0	84.0±6.0
North Carolina	96.3±2.5	86.2±5.1	93.3±3.5	93.8±3.6	93.2±3.4	88.5±4.7	61.1±6.9	NA	83.0±5.5	81.1±5.6	75.1±6.3
North Dakota	95.9±2.9	85.4±5.1	92.1±3.8	89.2±4.5	94.1±3.4	87.7±4.4	36.3±6.3	NA	82.6±5.3	81.7±5.4	74.1±5.9
Ohio	97.6±1.5	83.7±4.4	92.6±2.7	92.2±3.1	97.1±1.6	88.2±3.8	39.6±5.8	NA	80.3±4.6	79.8±4.7	72.5±5.2
OH-Cuyahoga County	94.4±3.9	82.8±6.4	91.4±4.4	90.0±5.0	92.5±4.2	88.7±5.3	47.3±8.3	NA	79.6±6.6	78.1±6.7	73.7±7.0
OH-Franklin County	94.4±4.3	86.4±5.9	83.5±6.5	92.3±4.3	96.2±3.1	85.8±5.9	44.3±8.1	NA	76.0±7.4	76.0±7.4	69.9±7.8
OH-Rest of State	98.5±1.8	83.5±5.6	94.0±3.3	92.5±3.9	97.9±2.0	88.5±4.7	37.8±7.3	NA	80.9±5.8	80.6±5.8	72.6±6.6
Oklahoma	94.9±4.0	81.0±6.9	95.1±3.8	95.1±3.9	92.3±4.7	88.7±5.4	49.4±8.1	NA	80.4±6.9	78.5±7.1	73.3±7.5
Oregon	91.8±4.1	77.8±6.3	84.7±5.3	88.4±4.6	91.2±4.2	80.5±5.8	43.8±7.1	NA	73.5±6.6	73.5±6.6	64.6±7.0
Pennsylvania	98.2±1.7	86.4±4.4	91.5±3.5	92.6±3.5	96.7±2.2	90.1±3.8	55.6±6.2	NA	82.8±4.7	81.7±4.8	75.3±5.4
PA-Philadelphia County	94.9±3.7	86.6±6.8	89.4±5.3	92.1±5.5	92.0±4.5	85.4±5.9	62.2±9.1	NA	83.4±7.3	81.1±7.5	71.7±8.3
PA-Rest of State	98.7±1.8	86.3±4.9	91.8±3.9	92.7±3.9	97.3±2.4	90.7±4.2	54.7±6.9	NA	82.7±5.3	81.8±5.4	75.7±6.0
Rhode Island	99.3±1.3	93.8±3.5	97.9±1.7	98.6±1.6	98.5±1.7	89.8±4.3	60.4±7.2	NA	91.8±3.8	91.4±3.9	82.9±5.3
South Carolina	98.3±2.0	94.3±3.6	95.4±3.2	97.5±2.2	97.5±2.6	94.0±3.6	50.8±8.1	NA	91.8±4.2	90.9±4.4	87.0±5.2
South Dakota	96.6±2.4	76.5±6.7	91.1±4.2	88.5±5.1	93.3±3.7	82.3±5.9	11.3±4.5	NA	72.9±7.0	70.7±7.1	63.6±7.2
Tennessee	97.4±1.8	83.0±4.6	94.0±2.5	94.0±2.6	95.2±3.0	86.1±3.9	43.2±5.4	NA	81.5±4.7	80.7±4.8	72.7±5.2
TN-Davidson County	99.0±1.5	87.6±5.1	92.6±4.2	96.6±2.8	97.7±2.4	80.7±6.3	51.6±8.2	NA	84.9±5.7	83.6±5.9	68.4±7.4
TN-Shelby County	97.7±2.3	75.6±8.6	91.8±4.9	88.5±5.5	94.7±4.4	92.1±4.5	40.9±8.9	NA	73.9±8.6	72.3±8.8	68.3±9.0
TN-Rest of State	97.0±2.5	84.1±6.1	94.8±3.3	94.9±3.3	94.9±4.1	85.5±5.3	42.4±7.2	NA	82.8±6.2	82.3±6.3	74.6±6.9
Texas	95.0±2.4	80.9±4.6	90.7±3.0	92.0±2.8	92.6±2.9	80.4±4.4	43.6±5.8	NA	76.7±4.9	76.2±4.9	65.2±5.5
TX-Bexar County	98.3±1.9	86.3±6.1	92.9±4.2	94.7±4.1	93.7±4.3	92.5±4.3	53.0±8.8	NA	81.0±6.9	79.3±7.1	75.7±7.5
TX-City of Houston	87.7±7.1	70.1±9.7	79.2±8.4	85.6±7.3	84.3±7.9	NA	NA	NA	NA	NA	NA
TX-Dallas County	97.0±3.0	80.8±7.7	88.7±6.8	88.1±6.5	95.1±3.7	73.3±9.8	NA	NA	74.9±8.6	74.9±8.6	NA
TX-El Paso County	97.0±3.5	83.2±7.4	97.0±3.5	88.7±6.2	94.8±4.3	73.2±8.7	47.1±9.9	NA	81.2±7.7	80.5±7.8	65.7±9.3
TX-Rest of State	95.4±3.4	82.1±6.4	92.4±4.1	93.6±3.8	93.3±4.0	82.9±6.0	42.2±8.2	NA	78.2±6.9	77.6±6.9	67.1±7.7
Utah	93.8±3.2	79.7±5.5	91.1±3.7	90.4±4.0	91.7±3.6	78.4±5.9	25.4±5.7	NA	77.5±5.6	76.0±5.7	65.9±6.6
Vermont	98.4±2.2	92.9±3.7	95.3±3.5	96.0±2.8	96.7±2.6	91.0±3.9	40.4±6.7	NA	88.6±4.6	86.9±4.8	81.3±5.4
Virginia	96.4±2.6	86.5±5.0	91.1±4.1	90.5±4.6	93.8±3.4	90.5±4.3	53.1±7.1	NA	82.0±5.8	80.6±5.9	75.8±6.3
Washington	97.5±1.7	87.1±3.7	92.9±2.8	90.1±3.5	95.8±2.3	81.2±4.3	25.4±4.6	NA	83.7±4.1	83.3±4.2	70.3±5.1
WA-King County	98.3±1.9	92.5±4.2	94.8±3.0	95.3±3.3	95.7±2.8	80.0±5.9	27.0±6.4	NA	90.4±4.5	89.0±4.7	73.4±6.6
WA-Rest of State	97.1±2.3	84.9±4.9	92.2±3.8	87.9±4.7	95.9±3.0	81.7±5.6	24.7±6.0	NA	81.0±5.5	81.0±5.5	69.1±6.6
West Virginia	NA	90.0±4.1	94.7±3.1	94.3±3.2	99.0±1.4	89.5±4.8	43.7±7.1	NA	85.6±4.9	85.1±5.0	76.7±6.2
Wisconsin	97.5±1.7	87.7±3.6	92.7±2.9	93.4±2.8	95.5±2.1	85.3±3.8	33.5±5.2	NA	82.5±4.2	80.8±4.3	72.4±4.9
WI-Milwaukee County	96.5±2.4	84.0±5.8	91.0±4.0	93.8±3.3	92.6±3.8	77.5±6.0	37.5±7.2	NA	78.8±6.3	76.3±6.5	63.2±7.2
WI-Rest of State	97.7±1.9	88.5±4.2	93.0±3.4	93.3±3.3	96.1±2.5	87.0±4.5	32.7±6.1	NA	83.3±4.9	81.8±5.0	74.4±5.7
Wyoming	94.4±3.2	84.4±5.0	90.3±4.0	89.7±4.3	92.8±3.7	87.4±4.5	33.4±6.5	NA	82.1±5.2	81.7±5.3	77.0±5.7

* Estimate=NA (Not Available) if the unweighted sample size for the numerator was <30 or (CI half width)/Estimate >0.5 or (CI half width)>10

† Children in the Q1/1998-Q4/1998 National Immunization Survey were born between February 1995 and May 1997.

‡ Three or more doses of any diphtheria and tetanus toxoids and pertusis vaccines including diphtheria and tetanus toxoids, and any acellular pertussis vaccine (DTP/DTaP/DT)

§ Four or more doses of any diphtheria and tetanus toxoids and pertussis vaccines including diphtheria and tetanus toxoids, and any acellular pertussis vaccine (DTP/DTaP/DT)

‖ Three or more doses of any poliovirus vaccine

¶ One or more doses of measles-mumps-rubella vaccine; previous reports of vaccination coverage were for measles-containing vaccine (MCV)

** Three or more doses of *Haemophilus influenzae* type b (Hib) vaccine

†† Three or more doses of hepatitis B vaccine

‡‡ One or more doses of varicella at or after child's first birthday, unadjusted for history of varicella illness

§§ Three or more doses of DTP, three or more doses of poliovirus vaccine, and one or more doses of any MCV.

‖‖ Four or more doses of DTP, three or more doses of poliovirus vaccine, and one or more doses of any MCV.

¶¶ Four or more doses of DTP, three or more doses of poliovirus vaccine, one or more doses of any MCV, and three or more doses of Hib

*** Four or more doses of DTP, three or more doses of poliovirus vaccine, one or more doses of any MCV, three or more doses of Hib, and three or more doses of HepB

††† % ± 95% Confidence Interval