Estimated Vaccination Coverage* with Individual Vaccines and Selected Vaccination Series
Among Children 19-35 Months of Age Living in an MSA[†] Central City 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	94.2±0.9[‡‡‡]	81.6±1.4	89.3±1.2	91.3±1.0	92.1±1.0	85.3±1.2	45.1±1.7	NA	78.3±1.5	76.8±1.5	70.1±1.6
Alabama	99.4±0.9	87.4±6.2	94.3±3.4	94.9±3.5	97.6±1.8	92.1±3.9	56.3±8.2	NA	84.9±6.5	83.7±6.5	79.6±6.8
AL-Jefferson County	98.9±1.8	89.0±5.4	93.0±4.2	94.7±4.1	95.2±3.5	87.3±5.1	63.2±8.0	NA	86.8±5.7	85.2±5.9	78.5±6.6
AL-Rest of State	99.5±1.0	86.9±8.0	94.7±4.3	95.0±4.5	98.4±2.1	93.6±4.9	NA	NA	84.3±8.3	83.2±8.4	80.0±8.8
Alaska	95.5±4.4	82.7±8.0	91.3±5.7	91.4±6.1	94.6±4.8	82.7±8.2	19.8±7.7	NA	80.4±8.0	79.4±8.2	71.4±9.2
Arizona	91.5±4.1	75.1±6.9	88.3±4.9	86.2±5.4	88.6±4.8	83.7±5.6	45.6±7.5	NA	73.3±6.9	71.1±7.0	65.6±7.2
AZ-Maricopa County	91.6±5.3	75.5±8.8	88.1±6.1	86.4±6.9	87.8±6.4	84.0±7.5	41.1±9.6	NA	74.0±8.8	71.2±9.1	67.2±9.2
AZ-Rest of State	91.3±6.4	NA	88.7±7.8	86.0±8.2	90.4±6.6	83.0±7.9	NA	NA	NA	NA	NA
Arkansas	89.8±8.2	NA	88.9±8.3	86.0±9.3	87.0±8.9	NA	NA	NA	NA	NA	NA
California	92.3±4.6	79.5±5.9	86.6±5.5	89.3±4.7	90.1±4.9	86.6±5.0	51.6±7.1	NA	74.2±6.5	72.3±6.6	66.1±7.0
CA-Los Angeles County	94.1±7.6	NA	89.0±8.7	87.1±8.9	93.7±7.6	84.8±9.8	NA	NA	NA	NA	NA
CA-San Diego County	91.5±6.3	78.3±9.6	87.3±7.3	93.6±6.0	85.2±8.7	81.6±9.1	NA	NA	75.9±9.9	NA	NA
CA-Santa Clara County	96.7±2.7	84.8±6.0	93.4±4.0	94.9±3.6	95.0±3.4	86.6±6.1	63.0±8.4	NA	82.1±6.4	81.6±6.5	75.3±7.4
CA-Rest of State	90.7±7.4	79.2±9.3	84.0±9.0	89.2±7.0	87.9±8.1	88.4±7.3	NA	NA	NA	NA	NA
Colorado	96.5±3.9	84.0±7.7	92.0±5.9	94.5±4.4	92.8±5.6	87.6±7.1	35.1±10.0	NA	79.9±8.6	77.5±8.9	71.1±9.7
Connecticut	97.6±3.3	93.0±5.1	93.1±5.1	94.1±4.7	96.7±3.8	87.0±6.8	NA	NA	88.4±6.4	87.4±6.6	77.3±8.5
Delaware	97.0±3.1	83.0±7.1	91.2±5.3	95.0±4.0	92.3±4.9	81.8±7.6	43.5±9.5	NA	78.1±7.8	76.8±7.9	65.1±9.1
District of Columbia	94.5±3.4	76.8±5.9	87.6±4.4	92.7±3.4	91.6±4.0	81.9±5.5	59.9±6.9	NA	73.7±6.0	71.4±6.2	63.5±6.6
Florida	93.2±4.0	83.5±4.9	88.1±4.7	92.3±3.8	92.2±4.1	90.1±4.1	36.7±6.2	NA	79.0±5.4	77.5±5.5	75.5±5.6
FL-Miami-Dade County	94.4±5.4	78.6±7.3	88.4±6.0	93.8±3.8	91.9±5.6	84.5±6.4	35.4±7.5	NA	75.6±7.5	74.1±7.6	68.6±7.8
FL-Duval County	98.9±1.3	83.5±5.7	93.6±3.2	93.0±3.6	97.4±2.1	93.6±3.5	42.1±7.2	NA	80.3±6.0	78.8±6.1	74.9±6.5
FL-Rest of State	92.1±5.4	84.8±6.6	87.2±6.4	91.8±5.3	91.5±5.5	91.2±5.5	36.4±8.5	NA	79.8±7.3	78.3±7.5	77.6±7.6
Georgia	97.4±4.0	88.9±6.2	94.0±4.9	93.6±4.4	95.2±4.6	90.0±6.4	NA	NA	86.5±6.7	84.2±7.1	81.3±7.7
GA-Fulton/DeKalb Counties	98.3±3.3	82.7±8.7	92.0±7.0	88.2±7.5	92.4±6.6	86.5±8.2	NA	NA	NA	NA	NA
GA-Rest of State	96.9±6.1	92.6±8.2	95.2±6.6	96.8±5.2	96.9±6.1	92.1±8.8	NA	NA	92.6±8.2	92.6±8.2	90.5±9.1
Hawaii	92.8±5.7	NA	85.3±8.5	94.8±5.0	88.3±7.3	79.6±9.5	NA	NA	NA	NA	NA
Idaho	NA	NA	NA	NA	87.6±9.7	NA	NA	NA	NA	NA	NA
Illinois	92.3±4.2	74.3±6.6	87.4±5.0	88.0±4.7	89.2±4.5	82.8±5.6	29.7±6.5	NA	70.2±6.8	68.3±6.8	63.5±7.1
IL-City of Chicago	90.5±5.1	70.6±7.4	85.7±5.7	85.8±5.6	86.7±5.4	79.3±6.5	30.6±6.7	NA	66.2±7.4	63.8±7.4	57.8±7.6
IL-Rest of State	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indiana	91.2±5.7	79.3±7.2	85.6±6.6	91.8±4.4	89.3±6.0	82.6±6.7	30.2±7.2	NA	77.2±7.3	76.1±7.4	68.4±7.8
IN-Marion County	95.1±2.9	81.7±5.0	88.5±4.2	89.8±3.9	93.0±3.4	81.7±5.0	29.5±5.8	NA	77.7±5.4	77.7±5.4	68.2±6.0
IN-Rest of State	88.9±9.0	NA	NA	93.0±6.7	87.1±9.4	NA	NA	NA	NA	NA	NA
Iowa	95.6±4.3	84.9±7.0	89.9±6.1	93.3±5.3	91.6±5.8	86.5±6.7	37.0±9.7	NA	82.6±7.5	80.2±8.0	77.2±8.4
Kansas	93.5±6.7	88.0±8.3	92.3±7.1	87.5±8.6	90.5±8.6	NA	NA	NA	86.2±8.8	NA	NA
Kentucky	96.9±4.2	87.4±7.6	92.7±6.0	93.8±5.7	93.8±5.4	86.2±7.6	NA	NA	86.2±7.7	83.3±8.3	75.6±9.4
Louisiana	93.5±4.7	83.1±6.6	90.5±5.1	90.1±4.9	93.6±4.5	85.8±5.6	39.5±8.6	NA	80.3±6.8	80.1±6.8	73.8±7.0
LA-Orleans Parish	94.7±3.3	83.2±5.2	90.6±4.1	86.3±5.0	92.6±3.8	82.6±5.4	35.0±6.4	NA	79.9±5.6	79.2±5.7	71.9±6.3
LA-Rest of State	93.0±6.3	83.0±8.8	90.5±6.9	91.5±6.4	94.0±6.0	87.0±7.4	NA	NA	80.5±9.1	80.5±9.1	74.4±9.4
Maine	NA	97.7±4.4	NA	98.0±3.8	98.1±3.6	90.2±9.2	NA	NA	95.8±5.8	93.9±6.7	NA
Maryland	96.2±5.1	86.0±6.8	94.4±5.4	91.3±6.0	96.2±5.1	82.0±8.6	59.9±9.1	NA	83.1±7.1	83.1±7.1	72.2±9.1
MD-City of Baltimore	98.5±1.9	86.9±5.9	96.3±2.8	92.7±4.4	98.5±1.9	82.6±8.7	57.3±9.1	NA	83.4±6.4	83.4±6.4	71.4±9.3
MD-Rest of State	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Massachusetts	NA	94.7±8.0	94.4±8.2	95.2±8.0	99.2±1.2	98.8±1.8	NA	NA	93.2±8.3	92.4±8.4	91.2±8.6
MA-City of Boston	NA	97.2±3.3	96.5±5.3	98.3±2.4	98.1±2.8	97.0±4.1	NA	NA	93.7±6.0	91.8±6.4	88.8±7.2
MA-Rest of State	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Michigan	89.6±6.2	73.2±8.2	85.5±6.5	85.8±6.6	87.3±6.3	84.5±5.8	30.6±8.1	NA	71.3±8.3	70.6±8.3	64.5±8.5
MI-City of Detroit	89.7±4.7	74.0±6.3	83.6±5.5	87.4±4.5	84.5±5.4	82.4±5.6	23.2±5.6	NA	70.8±6.5	68.7±6.6	63.9±6.8
MI-Rest of State	89.5±8.9	NA	86.4±9.4	85.0±9.6	88.7±9.0	85.5±8.1	NA	NA	NA	NA	NA
Minnesota	98.7±1.8	91.7±5.6	95.2±4.1	96.6±3.5	98.1±2.1	88.4±6.3	NA	NA	89.5±6.1	88.8±6.2	80.6±7.7
Mississippi	NA	NA	NA	88.8±9.0	NA	NA	NA	NA	NA	NA	NA
Missouri	NA	NA	97.6±3.3	93.0±8.4	92.6±8.6	NA	NA	NA	NA	NA	NA
Montana	97.8±3.2	90.3±6.0	96.8±3.8	94.7±4.8	96.9±3.6	88.6±6.6	NA	NA	89.2±6.3	88.3±6.5	82.2±7.8
Nebraska	96.9±3.6	83.1±7.0	90.8±5.4	90.1±5.4	94.4±4.3	88.4±6.0	46.8±9.1	NA	77.2±7.7	76.2±7.7	72.1±8.1
Nevada	91.1±5.2	80.0±6.6	90.0±5.3	90.4±5.6	87.3±5.9	83.3±6.1	31.5±7.1	NA	79.5±6.7	76.2±7.0	69.8±7.3
New Hampshire	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Jersey	96.2±2.8	NA	85.4±6.6	90.8±5.3	94.9±3.0	NA	NA	NA	NA	NA	NA
NJ-City of Newark	93.5±4.3	70.8±8.4	75.6±8.2	84.8±7.5	91.2±4.5	88.1±5.2	20.6±6.4	NA	66.0±8.7	63.8±8.8	61.7±8.8
NJ-Rest of State	NA	NA	99.2±1.0	99.1±1.2	NA	NA	NA	NA	NA	NA	NA
New Mexico	90.1±7.2	74.3±9.8	81.0±9.0	83.2±8.7	87.8±7.5	84.3±8.2	NA	NA	NA	NA	NA
New York	96.6±2.5	86.9±4.4	92.5±3.3	95.3±2.6	93.0±3.6	90.9±4.1	49.2±6.6	NA	84.7±4.7	83.4±4.9	79.6±5.4
NY-City of New York	95.8±3.1	85.0±5.3	91.6±3.9	95.4±2.9	91.3±4.4	90.0±4.8	52.0±7.4	NA	82.8±5.5	81.1±5.8	77.8±6.2
NY-Rest of State	NA	95.1±5.6	96.3±5.3	95.1±5.6	NA	94.7±7.7	NA	NA	92.6±7.3	92.6±7.3	NA
North Carolina	98.1±2.8	83.2±7.8	92.5±5.7	96.4±3.5	95.0±4.2	83.8±7.7	66.7±9.0	NA	78.4±8.6	76.2±8.7	66.4±9.5
North Dakota	97.4±3.6	86.9±7.3	93.4±5.4	91.7±5.7	95.5±4.4	90.9±5.9	NA	NA	82.9±7.9	82.9±7.9	78.0±8.5
Ohio	95.9±2.3	80.8±5.8	90.1±3.8	89.7±4.7	95.6±2.2	85.9±5.0	37.3±6.9	NA	77.4±6.0	76.6±6.0	69.1±6.7
OH-Cuyahoga County	90.6±5.2	78.9±7.0	86.8±5.7	91.2±4.9	86.4±5.8	86.7±6.2	46.4±8.3	NA	75.6±7.2	71.4±7.5	68.8±7.8
OH-Franklin County	94.1±4.9	80.0±8.3	84.0±7.5	90.9±5.8	94.1±4.9	81.1±9.3	NA	NA	74.8±8.8	74.8±8.8	NA
OH-Rest of State	97.5±2.9	81.4±7.9	92.0±5.1	89.2±6.4	98.2±2.5	86.5±6.7	34.3±9.4	NA	78.3±8.2	78.3±8.2	69.5±9.1
Oklahoma	NA	NA	NA	91.5±8.7	NA	NA	NA	NA	NA	NA	NA
Oregon	88.0±7.1	79.3±8.6	82.3±8.1	91.3±5.8	87.9±7.2	84.0±7.7	NA	NA	74.7±9.1	74.7±9.1	69.9±9.5
Pennsylvania	98.0±1.4	91.1±3.9	93.1±3.8	95.7±2.6	97.0±1.6	88.4±4.2	65.4±7.0	NA	87.4±4.6	86.7±4.6	78.2±5.7
PA-Philadelphia County	95.2±3.4	85.5±5.2	90.5±4.2	93.0±4.2	92.7±3.8	82.1±5.3	68.5±6.7	NA	81.6±5.7	79.7±5.8	69.2±6.5
PA-Rest of State	NA	95.1±5.6	94.9±5.7	97.7±3.2	NA	93.0±6.0	NA	NA	91.6±6.7	91.6±6.7	84.6±8.5
Rhode Island	NA	85.9±6.6	98.2±2.7	92.8±5.1	97.0±3.4	93.2±5.0	NA	NA	84.2±7.0	82.4±7.3	77.5±8.1
South Carolina	97.6±2.8	91.3±6.7	95.3±4.1	93.7±5.7	97.6±2.8	96.4±3.6	NA	NA	89.2±7.2	89.2±7.2	87.9±7.5
South Dakota	98.0±2.2	90.1±6.1	95.6±4.1	96.7±4.1	95.9±3.3	92.5±5.1	17.0±8.5	NA	87.7±6.9	86.3±7.1	80.7±8.1
Tennessee	97.1±1.6	83.1±4.1	91.7±2.9	90.5±3.2	94.5±2.4	86.6±3.7	42.7±5.6	NA	80.1±4.4	78.0±4.6	69.8±5.1
TN-Davidson County	96.2±3.2	83.1±5.4	87.8±5.0	94.9±3.3	94.7±3.5	79.2±5.7	48.4±7.2	NA	80.2±5.7	79.1±5.8	66.0±6.6
TN-Shelby County	95.7±3.1	76.9±6.5	90.9±4.3	85.9±5.0	92.1±4.1	91.4±4.0	34.6±6.7	NA	74.6±6.6	71.9±6.8	68.4±6.9
TN-Rest of State	NA	92.6±7.4	96.0±5.6	94.1±6.9	98.2±3.6	85.1±9.8	NA	NA	88.6±9.1	86.8±9.6	NA
Texas	91.4±3.1	76.3±4.9	85.1±4.2	89.9±3.4	90.3±3.2	78.3±4.6	49.2±5.7	NA	73.6±5.0	73.1±5.0	62.6±5.5
TX-Bexar County	95.7±3.4	83.8±6.0	93.7±3.9	90.3±4.8	93.1±4.1	93.1±4.1	45.6±7.9	NA	80.6±6.3	79.4±6.4	78.2±6.5
TX-City of Houston	85.6±5.7	65.0±7.9	75.7±7.1	86.2±5.4	83.2±6.1	68.1±7.6	39.4±7.7	NA	62.0±7.9	61.3±7.9	48.0±8.0
TX-Dallas County	89.2±6.9	72.3±9.8	86.6±7.3	84.8±7.3	87.7±7.2	NA	NA	NA	70.5±9.9	69.6±10.0	NA
TX-El Paso County	93.9±3.2	81.6±4.9	92.4±3.4	89.3±3.9	92.4±3.5	77.2±5.3	40.9±6.3	NA	78.9±5.2	78.0±5.2	66.8±6.0
TX-Rest of State	93.3±5.5	80.1±8.9	86.2±7.6	92.8±6.3	93.1±5.5	81.6±8.3	NA	NA	77.3±9.2	77.3±9.2	NA
Utah	95.7±3.8	NA	93.9±4.6	89.0±6.6	93.9±4.6	84.3±7.6	NA	NA	NA	NA	NA
Vermont	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Virginia	96.9±4.5	NA	88.5±9.3	90.8±8.5	88.8±8.9	NA	NA	NA	NA	NA	NA
Washington	96.0±3.4	86.4±5.3	91.5±4.6	89.3±4.9	95.4±3.5	76.9±6.7	22.9±6.2	NA	83.5±5.7	83.0±5.8	68.5±7.2
WA-King County	97.7±3.5	92.2±5.4	95.4±4.3	93.0±5.5	95.5±4.3	84.7±7.3	22.6±8.3	NA	89.0±6.4	87.4±6.7	79.3±8.1
WA-Rest of State	95.3±4.6	83.9±7.2	89.9±6.2	87.7±6.5	95.3±4.6	73.5±9.0	23.0±8.0	NA	81.2±7.7	81.2±7.7	64.0±9.6
West Virginia	NA	NA	95.6±6.1	NA	NA	92.6±8.2	NA	NA	NA	NA	NA
Wisconsin	95.5±2.7	83.2±5.0	89.6±4.0	89.8±4.1	93.4±3.0	81.7±4.9	35.7±6.0	NA	76.7±5.6	75.2±5.7	67.0±6.1
WI-Milwaukee County	92.6±4.3	79.7±5.9	87.6±4.9	88.0±5.1	89.5±4.7	76.5±5.9	37.7±6.6	NA	74.6±6.3	72.8±6.4	63.4±6.6
WI-Rest of State	98.0±3.1	86.2±7.8	91.3±6.2	91.3±6.2	96.8±3.8	86.3±7.6	34.0±9.5	NA	78.5±9.0	77.3±9.1	70.1±9.8
Wyoming	99.1±1.7	91.4±6.3	96.3±3.7	95.7±3.7	97.4±2.9	95.8±4.2	NA	NA	88.6±7.0	88.6±7.0	85.2±7.7

* 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

† Metropolitan Statistical Area as defined by the US Office of Management and Budget

‡ 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 pertussis 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)

¶ T hree 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