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# Immunization Coverage in the U.S.

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**At a glance:** Immunization coverage - that is, estimates of the number of people who have received particular vaccines - is measured at national, state, and local levels. Several surveys are used to

- Identify groups at risk of contracting vaccine-preventable diseases
- Stimulate efforts to increase coverage
- Evaluate how well the efforts work

**On this page:**

- [National Immunization Survey \(NIS\)](#) (2002 data)
- [School Vaccination Surveys](#) (includes assessment reporting system)
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**National Immunization Survey (NIS)**

The NIS is a large, on-going survey of immunization coverage among U.S. pre-school children (19 - 35 months old).

- [Overview](#)
- [How to use NIS data](#)
- [NIS Data: Tables, Articles, & Figures](#) (includes 2002 data)
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The tables, figures, and related articles in the table below, describe vaccination coverage at the US national level and by state and immunization action plan (IAP) areas using results from the National Immunization Survey (NIS).

Some NIS tables are only available as Excel files.

NIS Data	Tables	Articles	Figures
Jan - Dec 02	<a href="#">02</a>	<a href="#">02</a>	<a href="#">02</a>
July 01 - June 02	<a href="#">01/02</a>	<a href="#">01/02</a>	<a href="#">01/02</a>
Jan - Dec 01	<a href="#">01</a>	<a href="#">01</a>	<a href="#">01</a>
July 00 - June 01	<a href="#">00/01</a>	<a href="#">00/01</a>	<a href="#">00/01</a>

Jan - Dec 00	<u>00</u>	<u>00</u>	<u>00</u>
July 99 - June 00	<u>99/00</u>	<u>99/00</u>	<u>99/00</u>
Jan - Dec 99	<u>99</u>	<u>99</u>	<u>99</u>
July 98 - June 99 *	<u>98/99</u>	<u>98/99</u>	<u>98/99</u>
Jan - Dec 98 *	<u>98</u>	<u>98</u>	<u>98</u>
Jan - Dec 97 *	<u>97</u>	<u>97</u>	<u>97</u>
July 96 - June 97 *	<u>96/97</u>	<u>96/97</u>	<u>96/97</u>
Jan - Dec 96 *	<u>96</u>	<u>96</u>	<u>96</u>
Jan - Dec 95 *	<u>95</u>	<u>95</u>	<u>95</u>
July 94 - June 95 *	<u>94/95</u>	<u>94/95</u>	<u>94/95</u>
April - Dec 94 *	<u>94</u>	<u>94</u>	<u>94</u>
* The statistical methodology for estimating vaccination coverage rates for NIS data was changed in 1998. The new methodology facilitates valid statistical analyses accounts for the survey's complex sampling design. Small differences exist between vaccination coverage estimates appearing in MMWRs published before 1998 and estimates published on this website. <a href="#">More information on methodologies...</a>			
All estimates published on this website are calculated using this new methodology.			

The National Immunization Survey (NIS) has been conducted annually since 1994 by the National Immunization Program and the National Center for Health Statistics, Centers for Disease Control and Prevention. The NIS is used to obtain national, state, and selected urban area estimates of vaccination coverage rates for U.S. children between the ages of 19 and 35 months. The NIS is a random digit dialing telephone survey of households with age-eligible children followed by a mail survey of the children's vaccination providers to validate immunization information.

For further information, please visit the National Immunization Survey website at <http://www.nisabt.org/>

### School Vaccination Surveys

**These state-based surveys are the primary source of information on vaccination coverage of children in Head Start, day care, kindergarten, and first grade...**

State laws require that children be immunized by the time they first enter school. Immunization records of all children entering school are reviewed each fall. In addition, states conduct studies to validate reports from schools. Results from these studies are used to ensure high vaccination levels in the population of children enrolled in schools. A summary of the results of coverage in children entering schools, attending licensed day care centers and Head Start programs is reported to National Immunization Program (NIP), Centers for Disease Control and Prevention. In almost all states, audits are performed to validate the school entry survey. Consequently, school entry surveys should reflect an accurate picture of the immunization levels of 5- and 6-year-old children. The levels reported are high (usually greater than 95%) but do not indicate whether the children received vaccine at the most appropriate time. Similar surveys are conducted in licensed day care centers and among children who are enrolled in the Head Start Program.

More information on school entry immunization assessment survey results for kindergarten, first grade and middle school, via the [School Entry Immunization Assessment Report](#).

Also, see these related articles:

- **Vaccination Coverage Among Children Entering School - United States, 2002-03 School Year**  
Source: MMWR August 22, 2003 / 52(33);791-793  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5233a3.htm>
- **Vaccination Coverage Among Children Enrolled in Head Start Programs, Licensed Child Care Facilities, and Entering School -- United States, 2000-01 School Year**  
Source: MMWR March 7, 2003 / 52(09);175-180  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5209a3.htm>
- **Vaccination Coverage Among Children Enrolled in Head Start Programs and Licensed Child Care Centers and Entering School -- United States and Selected Reporting Areas, 1999-2000**  
Source: MMWR October 5, 2001 / 50(SS39);847-855  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5039a2.htm>
- **Vaccination Coverage Among Children Enrolled in Head Start Programs or Day Care Facilities or Entering**  
  
Source: MMWR September 22, 2000 / 49(SS09);27-38  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/ss4909a2.htm>

### **National Health Interview Survey (NHIS)**

**The NHIS is a nationwide survey of adults and children, providing information on vaccinations and other health data.**

The National Health Interview Survey (NHIS), conducted since 1957 by the National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention, is a continuing, nationwide sample survey in which data are collected through personal household interviews. Information is obtained on personal and demographic characteristics, including race and ethnicity, by self-reporting or as reported by another household member. Information is also obtained on illnesses, injuries, impairments, chronic conditions, health behaviors, access to health care and utilization of health resources, and other topics. A child immunization supplement has been included in the NHIS since 1991, and the survey is also an important source of information about nationwide adult vaccination coverage. Since 1994, the information collected from households with children 12 to 35 months of age has been supplemented with information from health care provider records.

The tables and articles below describe vaccination coverage in adults in the United States for influenza, pneumococcal, and tetanus vaccines, using results from the National Health Interview

Survey (NHIS).

NHIS Data	Tables	Articles	Figures
1999 (provisional release)	<a href="#">1999</a>	Articles Span Multiple Years	N/A
1998	<a href="#">1998</a>		
1997	<a href="#">1997</a>		

For more information about the NHIS, please visit the NCHS website at <http://www.cdc.gov/nchs/nhis.htm>

### Behavioral Risk Factor Surveillance System (BRFSS)

#### State-based survey of health behaviors of adults, including adult vaccination at national, regional and state levels.

The Behavioral Risk Factor Surveillance Survey (BRFSS) is a telephone survey conducted by each state health department with technical assistance from the National Centers for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention. The survey collects information on various health behaviors and risk factors for disease, including adult vaccinations. Using random-digit dialing, each state selects a random sample of its noninstitutionalized adult population (ages >18 years) who have telephones.

The tables and articles below contain information on adult immunization coverage derived from the Behavioral Risk Factor Surveillance System (BRFSS). The tables show influenza and pneumococcal vaccine coverage for persons 65 years and older, by state and race/ethnicity; the articles include state-specific coverage rates.

BRFSS Data Tables	Articles	Figures
<a href="#">2001 &amp; 2002 (printable) NEW!</a>	N/A	N/A
<a href="#">2001 &amp; 2002 (text-only) NEW!</a>		
<a href="#">1997 &amp; 1999</a>	Articles Span Multiple Years	N/A

For further information, please visit the BRFSS website at <http://www.cdc.gov/brfss/>.

### More Information on Population-Based Surveys

The following articles provide more information on the strengths and limitations of the population-based surveys described above.

- Forty years and four surveys: How does our measuring measure up?**  
 Source: Am J Prev Med, 2001; 20 (4S) 6-14  
[abstract](#)
- Population-based surveys and their role in public**

**health**

Source: Am J Prev Med 2001; 20(4S) 15-16

**abstract**

- **The Impact of Record Scattering on the Measurement of Immunization Coverage.**

Source: Pediatrics Vol. 107 No. 1 January 2001, pp. 91-96

<http://www.pediatrics.org/>

- **Comparison of NIS and NHIS/NIPRCS vaccination coverage estimates.**

Source: Am J Prev Med, 2001; 20 (4 Suppl) 25-7

**abstract****Articles on Immunization Coverage from Data from Other Surveys****Adult Immunization Coverage Articles:**

- **Reasons reported by Medicare beneficiaries for not receiving influenza and pneumococcal vaccinations - United States, 1996**

Source: MMWR

<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm4839a4.htm>

- **Influenza vaccination status of persons aged 65-79 years - Allegheny County, Pennsylvania, February-March 1997**

Source: MMWR

<http://www.cdc.gov/mmwr/preview/mmwrhtml/00056047.htm>

- **Local data for local decision making - selected counties, Connecticut, Massachusetts, and New York, 1997**

Source: MMWR

<http://www.cdc.gov/mmwr/preview/mmwrhtml/00055026.htm>

- **Vaccination levels among Hispanics and Non-Hispanic Whites aged greater than or equal to 65 years - Los Angeles County, California, 1996**

Source: MMWR

<http://www.cdc.gov/mmwr/preview/mmwrhtml/00050236.htm>

**Child Immunization Coverage Articles:**

- [An analysis of the immunization status of preschool children enrolled in a statewide Medicaid managed care program](#) (exit site)

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Key to symbols: =Excel file    =HTML file (printable version)

Overall	Coverage with Individual Vaccines and Vaccination Series
<a href="#">survrept (.xls)</a> <a href="#">survrept (.html)</a>	Description of Immunization Action Plan (IAP) area
<a href="#">antigen_iap (.xls)</a> <a href="#">antigen_iap (.html)</a>	by State and Immunization Action Plan (IAP) area
<a href="#">antigen_state (.xls)</a> <a href="#">antigen_state (.html)</a>	by State
Age	Coverage Levels By Milestone Ages
<a href="#">3months_iap (.xls)</a> <a href="#">3months_iap (.html)</a>	by 3months by State and IAP
<a href="#">5months_iap (.xls)</a> <a href="#">5months_iap (.html)</a>	by 5months by State and IAP
<a href="#">7months_iap (.xls)</a> <a href="#">7months_iap (.html)</a>	by 7months by State and IAP
<a href="#">13months_iap (.xls)</a> <a href="#">13months_iap (.html)</a>	by 13months by State and IAP
<a href="#">19months_iap (.xls)</a> <a href="#">19months_iap (.html)</a>	by 19months by State and IAP
<a href="#">24months_iap (.xls)</a> <a href="#">24months_iap (.html)</a>	by 24months by State and IAP
WIC and Poverty Status	Coverage Levels With Individual Vaccines and Selected Vaccination Series By Participation In WIC, VFC and Poverty Status
<a href="#">wic_iap (.xls)</a> <a href="#">wic_iap (.html)</a>	Participating in WIC by State and IAP
<a href="#">nowic_iap (.xls)</a> <a href="#">nowic_iap (.html)</a>	Not Participating in WIC by State and IAP
<a href="#">nopov_iap (.xls)</a>	Living at or Above Poverty by State and IAP

 <a href="#">nopov_iap (.html)</a>	
 <a href="#">pov_iap (.xls)</a>  <a href="#">pov_iap (.html)</a>	Living Below Poverty by State and IAP
<b>Urbanicity</b>	<b>Vaccination Coverage Levels by Urbanicity</b>
 <a href="#">urb_msacc_iap (.xls)</a>  <a href="#">urb_msacc_iap (.html)</a>	Living in a MSA Central City by State and IAP
 <a href="#">urb_msancc_iap (.xls)</a>  <a href="#">urb_msancc_iap (.html)</a>	Living in a MSA Non Central City by State and IAP
 <a href="#">urb_nonmsa_iap (.xls)</a>  <a href="#">urb_nonmsa_iap (.html)</a>	Living in a Non MSA Central City by State and IAP
<b>Race/ethnicity</b>	<b>Vaccine - Specific Coverage Levels By Race/Ethnicity and Poverty Level</b>
 <a href="#">3dpt_race_iap (.xls)</a>  <a href="#">3dpt_race_iap (.html)</a>	3+DTP by State and IAP
 <a href="#">4dpt_race_iap (.xls)</a>  <a href="#">4dpt_race_iap (.html)</a>	4+DTP by State and IAP
 <a href="#">pol_race_iap (.xls)</a>  <a href="#">pol_race_iap (.html)</a>	3+Polio by State and IAP
 <a href="#">mmr_race_iap (.xls)</a>  <a href="#">mmr_race_iap (.html)</a>	1+MMR by State and IAP
 <a href="#">hib_race_iap (.xls)</a>  <a href="#">hib_race_iap (.html)</a>	3+Hib by State and IAP
 <a href="#">hep_race_iap (.xls)</a>  <a href="#">hep_race_iap (.html)</a>	3+Hep by State and IAP
 <a href="#">var_race_iap (.xls)</a>  <a href="#">var_race_iap (.html)</a>	1+ Varicella Vaccine by State and IAP
 <a href="#">3:3:1_race_iap (.xls)</a>  <a href="#">3:3:1_race_iap (.html)</a>	3:3:1 by State and IAP
 <a href="#">4:3:1_race_iap (.xls)</a>  <a href="#">4:3:1_race_iap (.html)</a>	4:3:1 by State and IAP
 <a href="#">4:3:1:3_race_iap (.xls)</a>  <a href="#">4:3:1:3_race_iap (.html)</a>	4:3:1:3 by State and IAP
 <a href="#">4:3:1:3:3_r_iap (.xls)</a>  <a href="#">4:3:1:3:3_r_iap (.html)</a>	4:3:1:3:3 by State and IAP
 <a href="#">race_nat (.xls)</a>  <a href="#">race_nat (.html)</a>	National Coverage by Race/Ethnicity

 <a href="#">pov_race (.xls)</a>  <a href="#">pov_race (.html)</a>	National Coverage by Poverty Level and Race/Ethnicity
<b>Facility and VFC</b>	<b>Coverage by Provider Characteristics (Facility Type and VFC participation)</b>
 <a href="#">facility_iap (.xls)</a>  <a href="#">facility_iap (.html)</a>	by Provider Facility Type
 <a href="#">vfc_iap (.xls)</a>  <a href="#">vfc_iap (.html)</a>	Participating in Vaccine for Children (VFC) Programs by State and IAP area
 <a href="#">novfc_iap (.xls)</a>  <a href="#">novfc_iap (.html)</a>	Not Participating in VFC State and IAP
<b>Demographics</b>	<b>Selected Socio-Demographics</b>
 <a href="#">dem_iap (.xls)</a>  <a href="#">dem_iap (.html)</a>	Socio-Demographics: Poverty, Provider Type, Race, MSA

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**Estimated Vaccination Coverage\* with 3+DTP<sup>†</sup>**  
**Among Children 19-35 Months of Age by Race/Ethnicity,<sup>‡</sup> and by State and Immunization Action Plan Area --**  
**US, National Immunization Survey, Q3/2000-Q2/2001<sup>§</sup>**

	Total	White non-Hispanic	Black non-Hispanic	Hispanic	American Indian or Alaska Native	Asian or Pacific Islander	Other
US National	94.3±0.5	95.2±0.5	92.3±1.4	93.5±1.1	91.0±7.5	94.1±2.7	NA
Alabama	95.7±2.3	94.9±3.0	96.8±3.8	NA	NA	NA	NA
AL-Jefferson County	98.1±1.5	98.3±1.9	97.6±2.7	NA	NA	NA	NA
AL-Rest of State	95.3±2.7	94.5±3.4	96.6±4.8	NA	NA	NA	NA
Alaska	90.2±3.7	88.3±5.2	NA	NA	97.7±3.4	NA	NA
Arizona	90.0±3.0	89.9±4.3	NA	91.3±4.2	NA	NA	NA
AZ-Maricopa County	88.9±4.1	88.7±5.8	NA	91.3±5.9	NA	NA	NA
AZ-Rest of State	91.9±3.9	92.5±6.1	NA	91.4±5.6	NA	NA	NA
Arkansas	90.6±3.5	89.9±4.4	92.9±6.4	NA	NA	NA	NA
California	94.9±1.7	97.2±2.3	93.2±7.4	94.7±2.3	NA	93.2±6.6	NA
CA-Los Angeles County	91.6±3.7	97.3±3.7	NA	91.6±4.5	NA	NA	NA
CA-San Diego County	95.4±2.3	95.7±3.8	NA	96.1±2.9	NA	NA	NA
CA-Santa Clara County	93.7±3.2	95.7±4.3	NA	89.1±7.1	NA	99.1±1.7	NA
CA-Rest of State	96.6±2.2	97.6±3.3	NA	97.1±2.9	NA	NA	NA
Colorado	96.0±2.1	96.0±2.5	NA	96.0±4.1	NA	NA	NA
Connecticut	96.2±2.2	97.2±2.3	NA	97.2±4.0	NA	NA	NA
Delaware	96.7±2.2	98.5±1.8	95.5±5.5	92.6±8.8	NA	NA	NA
District of Columbia	90.6±4.0	94.3±5.5	87.9±5.7	96.8±4.5	NA	NA	NA
Florida	94.4±2.3	95.4±2.9	93.0±6.2	93.3±4.0	NA	NA	NA
FL-Miami-Dade County	94.3±2.9	92.9±9.4	94.7±5.3	94.3±3.6	NA	NA	NA
FL-Duval County	95.4±2.6	96.4±2.9	93.2±6.0	NA	NA	NA	NA
FL-Rest of State	94.4±2.9	95.4±3.2	92.5±8.4	92.6±6.3	NA	NA	NA
Georgia	95.4±2.1	97.5±2.0	94.1±4.1	NA	NA	NA	NA
GA-Fulton/DeKalb Counties	94.0±3.3	93.2±5.0	96.0±3.4	NA	NA	NA	NA
GA-Rest of State	95.7±2.4	97.9±2.1	93.1±5.9	NA	NA	NA	NA
Hawaii	92.4±3.7	90.0±8.4	NA	90.8±9.3	NA	94.9±4.3	NA
Idaho	90.9±3.4	92.0±3.5	NA	90.8±8.7	NA	NA	NA
Illinois	93.8±2.3	94.4±3.1	92.6±6.2	92.4±4.8	NA	NA	NA
IL-City of Chicago	92.4±3.4	94.3±5.7	91.7±6.5	91.5±4.9	NA	NA	NA
IL-Rest of State	94.3±3.0	94.4±3.3	NA	93.1±7.9	NA	NA	NA
Indiana	95.2±2.3	96.4±2.3	93.1±7.0	NA	NA	NA	NA
IN-Marion County	92.0±4.7	91.1±6.4	93.7±7.4	NA	NA	NA	NA
IN-Rest of State	95.8±2.6	97.2±2.4	NA	NA	NA	NA	NA
Iowa	93.1±3.4	94.1±3.4	NA	NA	NA	NA	NA
Kansas	91.7±4.5	91.3±4.9	NA	97.2±5.4	NA	NA	NA
Kentucky	93.5±3.2	93.9±3.3	NA	NA	NA	NA	NA
Louisiana	91.3±3.4	90.6±4.9	91.6±5.3	NA	NA	NA	NA
LA-Orleans Parish	95.6±2.8	NA	94.9±3.5	NA	NA	NA	NA
LA-Rest of State	90.8±3.8	90.2±5.1	90.6±6.8	NA	NA	NA	NA

**Estimated Vaccination Coverage\* with 3+DTP<sup>†</sup>**  
**Among Children 19-35 Months of Age by Race/Ethnicity,<sup>‡</sup> and by State and Immunization Action Plan Area --**  
**US, National Immunization Survey, Q3/2000-Q2/2001<sup>§</sup>**

	Total	White non-Hispanic	Black non-Hispanic	Hispanic	American Indian or Alaska Native	Asian or Pacific Islander	Other
Maine	96.3±2.3	95.9±2.6	NA	NA	NA	NA	NA
Maryland	92.4±3.0	92.6±3.7	89.8±6.5	99.3±1.0	NA	NA	NA
MD-City of Baltimore	92.7±3.1	93.5±5.5	92.5±3.8	NA	NA	NA	NA
MD-Rest of State	92.4±3.4	92.5±4.0	88.5±9.5	NA	NA	NA	NA
Massachusetts	95.6±2.2	94.8±2.9	98.0±2.1	99.0±1.0	NA	NA	NA
MA-City of Boston	93.4±3.7	88.9±9.4	95.4±4.5	94.0±5.3	NA	NA	NA
MA-Rest of State	95.8±2.5	95.1±3.0	NA	NA	NA	NA	NA
Michigan	95.0±2.3	96.5±2.4	89.5±7.3	92.8±9.0	NA	NA	NA
MI-City of Detroit	89.7±4.0	NA	90.5±4.5	95.1±6.6	NA	NA	NA
MI-Rest of State	95.8±2.5	96.8±2.4	NA	NA	NA	NA	NA
Minnesota	95.9±2.6	95.7±3.0	NA	NA	NA	NA	NA
Mississippi	96.3±2.5	94.5±4.2	99.2±1.5	NA	NA	NA	NA
Missouri	94.6±3.0	95.9±2.7	NA	NA	NA	NA	NA
Montana	96.0±2.4	95.3±2.8	NA	NA	NA	NA	NA
Nebraska	93.8±2.9	95.7±2.5	NA	NA	NA	NA	NA
Nevada	92.1±3.2	94.3±3.7	NA	89.9±5.9	NA	NA	NA
New Hampshire	95.7±2.4	95.1±2.7	NA	NA	NA	NA	NA
New Jersey	94.2±2.9	94.9±3.7	91.2±8.7	94.4±5.5	NA	NA	NA
NJ-City of Newark	92.3±3.5	NA	92.0±5.4	92.8±4.2	NA	NA	NA
NJ-Rest of State	94.3±3.0	94.9±3.7	NA	94.5±5.9	NA	NA	NA
New Mexico	92.4±3.1	91.0±6.6	NA	94.2±3.3	NA	NA	NA
New York	94.6±2.1	96.7±2.2	89.2±6.9	94.8±4.6	NA	94.9±7.0	NA
NY-City of New York	92.1±3.7	95.0±5.1	88.7±8.5	92.7±6.3	NA	93.1±9.3	NA
NY-Rest of State	96.8±2.3	97.1±2.5	NA	NA	NA	NA	NA
North Carolina	98.8±1.1	99.0±1.4	98.3±2.4	NA	NA	NA	NA
North Dakota	95.2±2.7	95.1±2.9	NA	NA	NA	NA	NA
Ohio	93.8±2.4	94.7±2.7	88.7±7.1	96.3±4.1	NA	NA	NA
OH-Cuyahoga County	92.9±3.1	94.2±3.8	91.6±6.1	NA	NA	NA	NA
OH-Franklin County	96.7±2.1	98.6±1.5	89.4±7.7	NA	NA	NA	NA
OH-Rest of State	93.5±3.1	94.3±3.2	NA	NA	NA	NA	NA
Oklahoma	92.6±4.2	94.6±3.4	NA	98.9±2.1	NA	NA	NA
Oregon	93.1±3.3	93.2±3.8	NA	91.2±9.7	NA	NA	NA
Pennsylvania	97.1±1.7	97.8±2.0	93.9±5.0	94.8±6.7	NA	NA	NA
PA-Philadelphia County	94.4±2.7	96.7±3.8	92.5±4.6	93.7±6.3	NA	NA	NA
PA-Rest of State	97.6±2.0	97.9±2.2	NA	NA	NA	NA	NA
Rhode Island	97.2±1.7	98.1±1.7	NA	97.7±3.2	NA	NA	NA
South Carolina	96.7±2.3	97.4±2.5	95.4±5.2	NA	NA	NA	NA
South Dakota	94.6±2.9	94.5±3.3	NA	NA	NA	NA	NA
Tennessee	96.3±1.5	96.7±1.8	94.5±3.1	97.2±3.9	NA	NA	NA

**Estimated Vaccination Coverage\* with 3+DTP<sup>†</sup>**  
**Among Children 19-35 Months of Age by Race/Ethnicity,<sup>‡</sup> and by State and Immunization Action Plan Area --**  
**US, National Immunization Survey, Q3/2000-Q2/2001<sup>§</sup>**

	Total	White non-Hispanic	Black non-Hispanic	Hispanic	American Indian or Alaska Native	Asian or Pacific Islander	Other
<b>TN-Davidson County</b>	93.6±3.2	95.2±3.2	91.7±7.0	NA	NA	NA	NA
<b>TN-Shelby County</b>	95.4±2.7	96.8±3.4	93.8±4.3	NA	NA	NA	NA
<b>TN-Rest of State</b>	97.0±1.9	96.9±2.2	NA	NA	NA	NA	NA
<b>Texas</b>	90.6±2.4	90.9±3.9	91.3±5.4	89.9±3.7	NA	91.9±8.0	NA
<b>TX-Bexar County</b>	92.2±3.1	92.4±6.5	NA	93.3±3.5	NA	NA	NA
<b>TX-City of Houston</b>	88.3±4.2	89.9±9.7	84.8±9.6	89.7±5.1	NA	NA	NA
<b>TX-Dallas County</b>	89.3±3.5	91.7±5.7	NA	89.2±4.5	NA	NA	NA
<b>TX-El Paso County</b>	90.8±3.4	97.3±5.2	NA	89.7±3.8	NA	NA	NA
<b>TX-Rest of State</b>	91.0±3.5	90.7±4.9	95.8±8.1	89.6±6.1	NA	NA	NA
<b>Utah</b>	92.0±3.4	91.9±3.8	NA	90.9±8.8	NA	NA	NA
<b>Vermont</b>	97.4±1.7	97.1±1.9	NA	NA	NA	NA	NA
<b>Virginia</b>	97.1±2.8	97.2±2.7	NA	NA	NA	NA	NA
<b>Washington</b>	94.0±2.3	93.1±3.1	NA	96.8±3.2	NA	96.3±5.2	NA
<b>WA-King County</b>	92.1±3.4	92.3±3.9	NA	NA	NA	NA	NA
<b>WA-Rest of State</b>	94.8±3.0	93.4±4.0	NA	98.5±2.9	NA	NA	NA
<b>West Virginia</b>	96.1±2.4	96.4±2.4	NA	NA	NA	NA	NA
<b>Wisconsin</b>	94.2±2.3	95.3±2.6	NA	97.3±3.0	NA	NA	NA
<b>WI-Milwaukee County</b>	90.2±4.5	97.2±2.5	NA	91.3±9.0	NA	NA	NA
<b>WI-Rest of State</b>	95.3±2.7	95.0±3.0	NA	NA	NA	NA	NA
<b>Wyoming</b>	96.6±2.2	96.3±2.6	NA	97.0±5.8	NA	NA	NA

\* 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

<sup>†</sup> 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)

<sup>‡</sup> Self-reported by respondent. Individual racial groups do not include Hispanic children. Children of Hispanic ethnicity may be of any race.

<sup>§</sup> Children in the Q3/2000-Q2/2001 National Immunization Survey were born between August 1997 and November 1999.

<sup>¶</sup> % ± 95% Confidence Interval