

# 2024 Provisional Pertussis Surveillance Report

## Reported Pertussis Incidence and Cases

| STATES         | Incidence<br>(per 100,000) | No. of<br>Cases |
|----------------|----------------------------|-----------------|
| ALABAMA        | 7.67                       | 389             |
| ALASKA         | 81.11                      | 595             |
| ARIZONA        | 10.35                      | 762             |
| ARKANSAS       | 9.82                       | 299             |
| CALIFORNIA     | 4.55                       | 1,775           |
| COLORADO       | 11.22                      | 655             |
| CONNECTICUT    | 7.89                       | 286             |
| DELAWARE       | 5.20                       | 53              |
| D.C.           | 3.27                       | 22              |
| FLORIDA        | 3.29                       | 732             |
| GEORGIA        | 2.58                       | 280             |
| HAWAII         | 4.86                       | 70              |
| IDAHO          | 54.10                      | 1,049           |
| ILLINOIS       | 18.31                      | 2,304           |
| INDIANA        | 6.85                       | 468             |
| IOWA           | 11.03                      | 353             |
| KANSAS         | 8.61                       | 253             |
| KENTUCKY       | 10.44                      | 471             |
| LOUISIANA      | 2.81                       | 129             |
| MAINE          | 12.85                      | 178             |
| MARYLAND       | 3.81                       | 235             |
| MASSACHUSETTS  | 12.05                      | 841             |
| MICHIGAN       | 16.77                      | 1,683           |
| MINNESOTA      | 33.15                      | 1,895           |
| MISSISSIPPI    | 1.56                       | 46              |
| MISSOURI       | 12.51                      | 773             |
| MONTANA        | 10.24                      | 115             |
| NEBRASKA       | 21.29                      | 419             |
| NEVADA         | 0.25                       | 8               |
| NEW HAMPSHIRE  | 3.87                       | 54              |
| NEW JERSEY     | 4.57                       | 423             |
| NEW MEXICO     | 4.78                       | 101             |
| NEW YORK       | 15.30                      | 1,735           |
| NEW YORK CITY  | 11.62                      | 969             |
| NORTH CAROLINA | 7.08                       | 757             |
| NORTH DAKOTA   | 17.71                      | 138             |
| OHIO           | 14.53                      | 1,708           |
| OKLAHOMA       | 11.67                      | 469             |
| OREGON         | 24.50                      | 1,039           |
| PENNSYLVANIA   | 22.27                      | 2,889           |
| RHODE ISLAND   | 9.14                       | 100             |
| SOUTH CAROLINA | 5.24                       | 277             |
| SOUTH DAKOTA   | 29.46                      | 268             |
| TENNESSEE      | 5.03                       | 355             |
| TEXAS          | 3.85                       | 1,156           |
| UTAH           | 7.78                       | 263             |
| VERMONT        | 14.99                      | 97              |
| VIRGINIA       | 9.07                       | 788             |
| WASHINGTON     | 26.06                      | 2,029           |
| WEST VIRGINIA  | 1.97                       | 35              |
| WISCONSIN      | 44.92                      | 2,647           |
| WYOMING        | 0.00                       | 0               |
| <b>TOTAL</b>   | <b>10.63</b>               | <b>35,435</b>   |

**Source:** Single Race Vintage 2022 postcensal estimates; 2023 and 2024 estimates were not available at the time of publication.

Weeks 1-52, 2024 CDC/NCIRD/DBD/MVPDB

## Notice to Readers:

### Provisional 2024 Reports of Notifiable Diseases

<https://wonder.cdc.gov/nndss/static/2024/52/2024-52-table990.html>

**NOTE:** The pertussis case definition was modified by CSTE effective January 1, 2020. Criteria were modified increasing sensitivity for case ascertainment such that case counts may increase. The 2020 CSTE case definition can be viewed here: <https://ndc.services.cdc.gov/case-definitions/pertussis-2020/>.

## Reported Pertussis Cases

2023: 7,063

2024: 35,435

## Reported Pertussis Cases and Percent Hospitalization by Age Group

| Age          | No. of Cases<br>(% of total) | Age Inc<br>/100,000 | % Hospitalized<br>by age** |
|--------------|------------------------------|---------------------|----------------------------|
| < 6 mos      | 1,573 (4.4)                  | 85.4                | 33.4                       |
| 6-11 mos     | 1,150 (3.2)                  | 62.4                | 11.2                       |
| 1-6 yrs      | 6,539 (18.5)                 | 28.7                | 3.5                        |
| 7-10 yrs     | 4,945 (14.0)                 | 30.7                | 1.4                        |
| 11-19 yrs    | 15,194 (42.9)                | 39.5                | 1.1                        |
| 20+ yrs      | 6,026 (17.0)                 | 2.4                 | 10.3                       |
| Unknown Age  | 8 (0.0)                      | N/A                 | N/A                        |
| <b>Total</b> | <b>35,435 (100)</b>          | <b>10.6*</b>        | <b>4.9</b>                 |

\*Total incidence per 100,000 calculated from 35,427 cases with age reported.

\*\*Calculated from those with known hospitalization status.

## Reported Pertussis Deaths

| Age                   | Deaths*   |
|-----------------------|-----------|
| Cases, aged<br>< 1 yr | 6         |
| Cases, aged<br>≥ 1 yr | 4         |
| <b>Total</b>          | <b>10</b> |

\*Confirmation of deaths is ongoing and may result in changes to the final count for 2024.

## Reported DTaP Vaccine Status of Children with Pertussis, Ages 6 months through 6 years

| Age          | Vaccine History<br>Unknown | Unvaccinated     | Undervaccinated<br>(1-2 doses) | Completed Primary<br>DTaP Series<br>(3+ doses) | Total        |
|--------------|----------------------------|------------------|--------------------------------|------------------------------------------------|--------------|
|              | No. (%)                    | No. (%)          | No. (%)                        | No. (%)                                        | No.          |
| 6-11 mo      | 774 (67.3)                 | 84 (7.3)         | 103 (9.0)                      | 189 (16.4)                                     | 1,150        |
| 1-4 yrs      | 2,992 (62.3)               | 370 (7.7)        | 212 (4.4)                      | 1,232 (25.6)                                   | 4,806        |
| 5-6 yrs      | 978 (56.4)                 | 118 (6.8)        | 65 (3.8)                       | 572 (33.0)                                     | 1,733        |
| <b>Total</b> | <b>4,744 (61.7)</b>        | <b>572 (7.4)</b> | <b>380 (4.9)</b>               | <b>1,993 (25.9)</b>                            | <b>7,689</b> |

**Footnote:** CDC recommends all children receive at least 3 doses of DTaP by age 6 months. DTaP coverage in the United States is very high. Over 95% of all children 19-35 months of age have received at least 3 doses of DTaP. This table illustrates a similar trend among the pertussis cases reported during 2024—the majority have received at least 3 doses of DTaP. Because protection from DTaP wanes over time, even children who are up to date with their pertussis vaccines may contract pertussis. Unvaccinated children are more likely to contract pertussis and have more severe disease than those who are fully vaccinated. These data cannot be used to interpret vaccine effectiveness or to assess risk, as the data are incomplete and there is no healthy comparison group.