

# Nationally Notifiable Infectious Diseases and Conditions, United States: Annual Tables

TABLE 4. Annual reported cases of notifiable diseases and rates per 100,000, by age, excluding U.S. Territories - - United States, 2018

(Accessible Version: <https://wonder.cdc.gov/nndss/static/2018/annual/2018-table4.html>)

Disease	<1 yr		1-4 yrs		5-14 yrs		15-24 yrs		25-39 yrs		40-64 yrs		≥65 yrs		Age not stated	Total
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	No.
Anthrax	—	—	—	—	—	—	—	—	1	0.00	—	—	—	—	—	1
Arboviral diseases																
Chikungunya virus disease	1	0.03	2	0.01	8	0.02	9	0.02	41	0.06	45	0.04	11	0.02	—	117
Eastern equine encephalitis virus disease																
Neuroinvasive	—	—	—	—	—	—	—	—	—	—	3	0.00	3	0.01	—	6
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jamestown Canyon virus disease																
Neuroinvasive	—	—	—	—	—	—	4	0.01	4	0.01	10	0.01	7	0.01	—	25
Non-neuroinvasive	—	—	—	—	—	—	2	0.00	—	—	10	0.01	4	0.01	—	16
La Crosse virus disease																
Neuroinvasive	2	0.05	14	0.09	58	0.14	4	0.01	2	0.00	2	0.00	1	0.00	—	83
Non-neuroinvasive	—	—	—	—	3	0.01	—	—	—	—	—	—	—	—	—	3
Powassan virus disease																
Neuroinvasive	—	—	—	—	1	0.00	—	—	1	0.00	7	0.01	12	0.02	—	21
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
St. Louis encephalitis virus disease																
Neuroinvasive	—	—	—	—	—	—	—	—	—	—	1	0.00	4	0.01	—	5
Non-neuroinvasive	—	—	—	—	—	—	—	—	1	0.00	2	0.00	—	—	—	3
West Nile virus disease																
Neuroinvasive	—	—	3	0.02	16	0.04	48	0.11	153	0.23	642	0.62	794	1.51	—	1,656
Non-neuroinvasive	1	0.03	3	0.02	11	0.03	58	0.13	206	0.31	481	0.46	229	0.44	—	989
Western equine encephalitis virus disease																
Neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babesiosis																
Total	5	0.16	3	0.02	30	0.09	44	0.12	159	0.28	878	1.02	1,041	2.39	—	2,160
Confirmed	5	0.16	2	0.02	19	0.06	34	0.10	127	0.23	745	0.87	929	2.13	—	1,861
Probable	—	—	1	0.01	11	0.03	10	0.03	32	0.06	133	0.15	112	0.26	—	299
Botulism																
Total	157	4.08	—	—	2	0.00	3	0.01	18	0.03	37	0.04	8	0.02	—	225
Foodborne	—	—	—	—	2	0.00	1	0.00	4	0.01	5	0.00	5	0.01	—	17
Infant	157	4.08	—	—	—	—	—	—	—	—	—	—	—	—	—	157
Other (wound & unspecified)	—	—	—	—	—	—	2	0.00	14	0.02	32	0.03	3	0.01	—	51
Brucellosis	—	—	1	0.01	12	0.03	11	0.03	29	0.04	52	0.05	33	0.06	—	138
Campylobacteriosis	1,803	46.85	6,050	37.90	5,266	12.82	7,695	17.91	12,878	19.15	22,751	21.96	13,692	26.11	65	70,200
Chancroid	—	—	—	—	—	—	1	0.00	1	0.00	1	0.00	—	—	—	3
<i>Chlamydia trachomatis</i> infection	434	11.28	62	0.39	11,049	26.90	1,087,277	2,530.27	565,787	841.18	89,516	86.39	2,331	4.45	2,212	1,758,668
Cholera	1	0.03	1	0.01	1	0.00	—	—	1	0.00	7	0.01	3	0.01	—	14
Coccidioidomycosis *	15	0.93	80	1.20	517	3.01	1,367	7.64	3,168	11.40	6,396	15.10	4,031	18.87	37	15,611
Cryptosporidiosis																
Total	118	3.07	1,403	8.79	1,360	3.31	1,952	4.54	3,117	4.63	3,026	2.92	1,550	2.96	7	12,533
Confirmed	94	2.44	1,078	6.75	1,019	2.48	1,470	3.42	2,326	3.46	2,122	2.05	866	1.65	5	8,980
Probable	24	0.62	325	2.04	341	0.83	482	1.12	791	1.18	904	0.87	684	1.30	2	3,553
Cyclosporiasis	3	0.09	9	0.06	45	0.12	257	0.67	828	1.37	1,806	1.95	547	1.17	24	3,519

TABLE 4. Annual reported cases of notifiable diseases and rates per 100,000, by age, excluding U.S. Territories - - United States, 2018  
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Disease	<1 yr		1-4 yrs		5-14 yrs		15-24 yrs		25-39 yrs		40-64 yrs		≥65 yrs		Age not stated	Total
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	No.
Dengue virus infections <sup>†</sup>																
Dengue	2	0.05	1	0.01	29	0.07	45	0.10	110	0.16	183	0.18	54	0.10	—	424
Dengue-like illness	—	—	2	0.01	1	0.00	4	0.01	13	0.02	16	0.02	5	0.01	—	41
Severe dengue	—	—	—	—	—	—	2	0.00	5	0.01	2	0.00	—	—	—	9
Diphtheria	—	—	—	—	1	0.00	—	—	—	—	—	—	—	—	—	1
Ehrlichiosis and Anaplasmosis																
<i>Anaplasma phagocytophilum</i> infection	—	—	12	0.08	82	0.21	126	0.30	360	0.56	1,747	1.75	1,674	3.31	7	4,008
<i>Ehrlichia chaffeensis</i> infection	—	—	12	0.08	55	0.14	110	0.27	190	0.29	798	0.80	634	1.25	—	1,799
<i>Ehrlichia ewingii</i> infection	—	—	—	—	—	—	—	—	2	0.00	14	0.01	17	0.03	—	33
Undetermined ehrlichiosis/anaplasmosis	—	—	1	0.01	15	0.04	22	0.05	43	0.07	98	0.10	103	0.21	1	283
Giardiasis	104	3.51	1,163	9.46	1,380	4.36	1,742	5.22	3,614	6.87	5,369	6.58	2,166	5.15	10	15,548
Gonorrhea	105	2.73	119	0.75	2,794	6.80	249,081	579.65	258,291	384.01	70,314	67.86	2,332	4.45	369	583,405
<i>Haemophilus influenzae</i> , invasive disease																
All ages, all serotypes	392	10.19	234	1.47	126	0.31	138	0.32	384	0.57	1,510	1.46	2,785	5.31	4	5,573
Age <5 years																
Serotype b	27	0.70	11	0.07	—	—	—	—	—	—	—	—	—	—	—	38
Non-b serotype	100	2.60	91	0.57	—	—	—	—	—	—	—	—	—	—	—	191
Nontypeable	151	3.92	71	0.44	—	—	—	—	—	—	—	—	—	—	—	222
Unknown serotype	114	2.96	61	0.38	—	—	—	—	—	—	—	—	—	—	—	175
Hansen's disease	—	—	—	—	—	—	3	0.01	11	0.02	32	0.03	25	0.05	19	90
Hantavirus infection, non-hantavirus pulmonary syndrome	—	—	—	—	—	—	1	0.00	—	—	1	0.00	—	—	—	2
Hantavirus pulmonary syndrome	—	—	—	—	1	0.00	1	0.00	5	0.01	9	0.01	2	0.00	—	18
Hemolytic uremic syndrome post-diarrheal	9	0.24	159	1.02	95	0.24	25	0.06	20	0.03	34	0.03	33	0.06	1	376
Hepatitis <sup>§</sup>																
A, acute	5	0.13	26	0.16	65	0.16	992	2.31	6,227	9.26	4,563	4.40	590	1.13	6	12,474
B, acute	3	0.08	—	—	1	0.00	105	0.25	1,034	1.55	1,937	1.88	240	0.46	2	3,322
B, perinatal infection	18	0.47	5	0.13	—	—	—	—	—	—	—	—	—	—	—	23
C, acute	8	0.22	1	0.01	4	0.01	686	1.69	2,544	3.99	1,333	1.35	181	0.36	11	4,768
Confirmed	6	0.16	—	—	3	0.01	558	1.37	1,893	2.97	1,004	1.02	151	0.30	6	3,621
Probable	2	0.05	1	0.01	1	0.00	128	0.31	651	1.02	329	0.33	30	0.06	5	1,147
C, perinatal infection	95	2.76	117	0.82	—	—	—	—	—	—	—	—	—	—	2	214
Human immunodeficiency virus diagnoses	39	1.01	13	0.08	51	0.12	6,609	15.38	15,436	22.95	10,065	9.71	786	1.50	—	32,999
Influenza-associated pediatric mortality	20	0.52	48	0.30	74	0.18	17	0.14	—	—	—	—	—	—	—	159
Invasive pneumococcal disease <sup>¶</sup>																
All ages	374	13.09	691	5.82	494	1.62	319	1.00	1,599	3.23	8,236	10.63	8,130	20.46	14	19,857
Confirmed	357	12.49	673	5.67	468	1.53	310	0.97	1,575	3.18	8,162	10.54	8,060	20.28	14	19,619
Probable	17	0.59	18	0.15	26	0.09	9	0.03	24	0.05	74	0.10	70	0.18	—	238
Age <5 years	395	12.83	721	5.64	—	—	—	—	—	—	—	—	—	—	—	1,116
Confirmed	375	12.18	703	5.50	—	—	—	—	—	—	—	—	—	—	—	1,078
Probable	20	0.65	18	0.14	—	—	—	—	—	—	—	—	—	—	—	38
Legionellosis	1	0.03	—	—	3	0.01	82	0.19	704	1.05	4,890	4.72	4,250	8.11	3	9,933
Leptospirosis	—	—	—	—	4	0.01	21	0.06	22	0.04	40	0.05	4	0.01	—	91



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Disease	<1 yr		1-4 yrs		5-14 yrs		15-24 yrs		25-39 yrs		40-64 yrs		≥65 yrs		Age not stated	Total
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	No.
Primary and secondary	—	—	2	0.01	20	0.05	7,758	18.05	17,819	26.49	9,017	8.70	437	0.83	10	35,063
Tetanus	—	—	—	—	1	0.00	5	0.01	4	0.01	5	0.00	3	0.01	5	23
Toxic shock syndrome (other than Streptococcal)	—	—	2	0.02	13	0.05	12	0.04	1	0.00	2	0.00	3	0.01	—	33
Trichinellosis	—	—	—	—	—	—	—	—	—	—	1	0.00	—	—	—	1
Tuberculosis	48	1.25	138	0.86	186	0.45	874	2.03	2,094	3.11	3,328	3.21	2,354	4.49	3	9,025
Tularemia	—	—	5	0.03	28	0.07	15	0.03	39	0.06	92	0.09	50	0.10	—	229
Typhoid fever	2	0.05	42	0.26	76	0.19	77	0.18	113	0.17	73	0.07	18	0.03	—	401
Vancomycin-intermediate <i>Staphylococcus aureus</i>	—	—	1	0.01	1	0.00	3	0.01	6	0.01	33	0.04	41	0.10	—	85
Vancomycin-resistant <i>Staphylococcus aureus</i>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Varicella morbidity	754	23.83	1,795	13.69	2,738	8.13	769	2.18	840	1.52	651	0.77	127	0.30	527	8,201
Varicella mortality	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vibriosis																
Total	29	0.77	69	0.44	151	0.37	192	0.45	551	0.83	1,169	1.14	795	1.54	8	2,964
Confirmed	3	0.08	24	0.15	114	0.28	108	0.26	347	0.52	750	0.73	475	0.92	1	1,822
Probable	26	0.69	45	0.29	37	0.09	84	0.20	204	0.31	419	0.41	320	0.62	7	1,142
Viral hemorrhagic fevers																
Crimean-Congo hemorrhagic fever virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ebola virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guanarito virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Junin virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lassa virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lujo virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Machupo virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marburg virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sabia virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Yellow fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zika virus																
Zika virus disease, congenital ¶¶	2	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	2
Zika virus disease, non-congenital	—	—	—	—	—	—	11	0.03	35	0.05	23	0.02	10	0.02	—	79
Zika virus infection, congenital ¶¶	7	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	7
Zika virus infection, non-congenital	—	—	—	—	1	0.00	72	0.17	152	0.23	19	0.02	1	0.00	—	245

—: No reported cases — The reporting jurisdiction did not submit any cases to CDC.

U: Unavailable — The data are unavailable.

\* Reportable in <25 states.

† Counts include confirmed and probable dengue cases.

§ Chronic hepatitis B and C data are not included in NNDSS tables but reported case counts are included in the annual Summary of Viral Hepatitis, published online by CDC's Division of Viral Hepatitis, available at <https://www.cdc.gov/hepatitis/statistics/SurveillanceRpts.htm>.

¶ Counts include drug resistant and susceptible cases of Invasive Pneumococcal Disease. This condition was previously named *Streptococcus pneumoniae* invasive disease and cases were reported to CDC using different event codes to specify whether the cases were drug resistant or in a defined age group, such as <5 years.

\*\* Prior to 2018, cases of paratyphoid fever were considered salmonellosis.

†† Prior to 2018, cases of paratyphoid fever were included as salmonellosis, but beginning in 2018 they are being published as paratyphoid fever.

§§ Includes the following categories: primary; secondary; early non-primary non-secondary (includes cases previously reported as early latent); and unknown duration or late (includes cases previously reported as late latent syphilis and cases previously reported as late syphilis with clinical manifestations).

¶¶ Data reported to ArboNET using the national surveillance case definition for congenital Zika virus infection (CSTE Position Statement 16-ID-01).

Notes:

- These are **annual** cases of selected infectious national notifiable diseases from the National Notifiable Diseases Surveillance System (NNDSS). NNDSS data reported by the 50 states, New York City, the District of Columbia, and the U.S. territories are collated and published. Cases are reported by state health departments to CDC weekly. Because source datasets may be updated as additional information is received, statistics in publications based on that source data may differ from what is presented in these tables.
- The list of nationally notifiable infectious diseases and conditions for 2018 and their national surveillance case definitions are available by navigating to the

[Surveillance Case Definitions](#) | CDC web page, selecting "2018" for the notifiable condition list year, checking "infectious" conditions, and clicking "Get Notifiable List by Year". This list incorporates the Council of State and Territorial Epidemiologists (CSTE) position statements approved in 2017 by CSTE for national surveillance, that were implemented in January 2018, including updated surveillance case definitions for anthrax, shiga toxin-producing *Escherichia coli*, and syphilis. Perinatal hepatitis c virus infection became a new nationally notifiable condition in 2018. While Carbapenemase Producing Carbapenem-Resistant *Enterobacteriaceae* (CP-CRE) was added to the list of nationally notifiable diseases in 2018, reporting jurisdictions could not submit data for this condition since Office of Management and Budget Paperwork Reduction Act approval was pending during 2018. Publication criteria for the finalized 2018 data are available at [https://wonder.cdc.gov/nndss/documents/2018\\_NNDSS\\_Publication\\_Criteria\\_07122019\\_updated\\_09230219.pdf](https://wonder.cdc.gov/nndss/documents/2018_NNDSS_Publication_Criteria_07122019_updated_09230219.pdf). See also [Guide to Interpreting Provisional and Finalized NNDSS Data](#).

3. Annual tables for 2016 and later years are available on [CDC WONDER](#).
4. Annual summary reports from 1993-2015 are available as published in the [MMWR](#).
5. NNDSS annual tables since 1952 are available at [CDC Stacks](#) (once in CDC Stacks select "Annual Reports" in the "Genre" box to the left).
6. For most conditions, national incidence rates are calculated as the number of reported cases for each infectious disease or condition divided by the U.S. resident population for the specified demographic population or the total U.S. resident population, multiplied by 100,000. When a nationally notifiable infectious condition is associated with a specific age restriction, the same restriction was applied to the population in the denominator of the incidence rate calculation. In addition, population data from reporting jurisdictions in which the disease or condition was not reportable or not available were excluded from the denominator of the incidence rate calculations.

Population estimates for incidence rates are July 1st, 2018 estimates obtained from the National Center for Health Statistics (NCHS) postcensal estimates of the resident population of the United States for April 1, 2010 - July 1, 2018, by year, county, single year of age (range: 0 to 85 years), bridged-race (white, black or African American, American Indian or Alaska Native, Asian, or Pacific Islander), Hispanic ethnicity (not Hispanic or Latino, Hispanic or Latino), and sex (Vintage 2018), prepared under a collaborative arrangement with the U.S. Census Bureau. Population estimates for states released June 25, 2019 are available at [https://www.cdc.gov/nchs/nvss/bridged\\_race/data\\_documentation.htm](https://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm). Population estimates for territories are the 2018 mid-year estimates from the U.S. Census Bureau International Data Base, accessed on June 26, 2019 at <https://www.census.gov/data-tools/demo/idb/informationGateway.php>. The choice of population denominators for incidence is based on the availability of population data at the time of publication preparation.

Age restrictions in the numerator and denominator are applied for the following childhood conditions:

Zika virus disease, congenital (age restriction in numerator and denominator is <1 year)  
Zika virus infection, congenital (age restriction in numerator and denominator is <1 year)  
*Haemophilus influenzae*, invasive disease <5 years (age restriction in numerator and denominator is <5 years)  
Invasive pneumococcal disease <5 years (age restriction in numerator and denominator is <5 years)  
Influenza associated pediatric mortality (age restriction in numerator and denominator is <18 years)  
Infant botulism (age restriction in numerator and denominator is <1 year)  
Congenital rubella syndrome (age restriction in numerator and denominator is <1 year)  
Perinatal Hepatitis B infection (age restriction in numerator is ≤24 months, denominator is <24 months)  
Perinatal Hepatitis C infection (age restriction in numerator is ≤36 months, denominator is <36 months)

Data for congenital syphilis are aggregated by the infant's year of birth. The rate for congenital syphilis is based upon the number of reported cases per 100,000 live births, using natality data for 2018 (National Center for Health Statistics [Natality 2018](#), as compiled from data provided by the Vital Statistics Cooperative Program). The mother's race and ethnicity are used for race- and ethnicity-specific rates of congenital syphilis cases. Congenital syphilis data are published in Syphilis Statistics in the Sexually Transmitted Diseases (STD) surveillance report (<https://www.cdc.gov/std/syphilis/stats.htm>) and in the historical archives of the STD surveillance report (<https://www.cdc.gov/std/stats/archive.htm>). The STD surveillance report (<https://www.cdc.gov/std/syphilis/stats.htm>) updates congenital syphilis cases and rates over time.

7. Surveillance data reported by other CDC programs might vary from data reported in these tables because of differences in 1) the date used to aggregate the data, 2) the timing of reports, 3) the source of the data, 4) surveillance case definitions, and 5) policies regarding case jurisdiction (i.e., which jurisdiction should submit the case notification to CDC).

#### **Suggested Citation:**

- Centers for Disease Control and Prevention. National Notifiable Diseases Surveillance System, 2018 Annual Tables of Infectious Disease Data. Atlanta, GA. CDC Division of Health Informatics and Surveillance, 2019. Available at: <https://www.cdc.gov/nndss/data-statistics/infectious-tables/index.html>.

#### **Acknowledgement:**

- CDC acknowledges the Local, State, and Territorial Health Departments that collected the data from a range of case ascertainment sources (e.g., health-care providers, hospitals, laboratories) and reported these data to CDC's National Notifiable Diseases Surveillance System.

### **National Notifiable Diseases Surveillance System**

Provided by [CDC WONDER](#)