

National Notifiable Infectious Diseases and Conditions: United States

TABLE 4. Reported cases of notifiable diseases and rates per 100,000, by age, excluding U.S. territories -- United States, 2017
(Accessible Version: <https://wonder.cdc.gov/nndss/static/2017/annual/2017-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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arboviral diseases																
Chikungunya virus disease	—	—	—	—	6	0.01	13	0.03	37	0.06	83	0.08	17	0.03	—	156
Eastern equine encephalitis virus disease																
Neuroinvasive	—	—	—	—	—	—	1	0.00	1	0.00	3	0.00	—	—	—	5
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jamestown Canyon virus disease																
Neuroinvasive	—	—	—	—	3	0.01	4	0.01	6	0.01	26	0.02	19	0.04	—	58
Non-neuroinvasive	—	—	—	—	—	—	1	0.00	3	0.00	7	0.01	6	0.01	—	17
La Crosse virus disease																
Neuroinvasive	3	0.08	7	0.04	41	0.10	5	0.01	3	0.00	1	0.00	3	0.01	—	63
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Powassan virus disease																
Neuroinvasive	—	—	—	—	4	0.01	1	0.00	1	0.00	12	0.01	15	0.03	—	33
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	1	0.00	—	1
St. Louis encephalitis virus disease																
Neuroinvasive	—	—	—	—	—	—	—	—	1	0.00	4	0.00	1	0.00	—	6
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	4	0.00	1	0.00	—	5
West Nile virus disease																
Neuroinvasive	—	—	2	0.01	15	0.04	35	0.08	127	0.19	621	0.60	625	1.23	—	1,425
Non-neuroinvasive	—	—	4	0.03	7	0.02	41	0.09	145	0.22	325	0.31	150	0.29	—	672
Western equine encephalitis virus disease																
Neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Non-neuroinvasive	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Babesiosis																
Total	1	0.03	4	0.03	54	0.17	48	0.14	149	0.29	969	1.20	1,132	2.88	11	2,368
Confirmed	1	0.03	2	0.02	35	0.11	36	0.11	124	0.24	793	0.98	995	2.53	8	1,994
Probable	—	—	2	0.02	19	0.06	12	0.04	25	0.05	176	0.22	137	0.35	3	374
Botulism																
Total	131	3.33	4	0.03	2	0.00	3	0.01	11	0.02	17	0.02	6	0.01	3	177
Foodborne	1	0.03	—	—	1	0.00	3	0.01	4	0.01	6	0.01	4	0.01	—	19
Infant *	130	3.30	4	—	—	—	—	—	—	—	—	—	—	—	3	137
Other (wound & unspecified)	—	—	—	—	1	0.00	—	—	7	0.01	11	0.01	2	0.00	—	21
Brucellosis	—	—	2	0.01	7	0.02	15	0.03	36	0.05	48	0.05	32	0.06	—	140
Campylobacteriosis	1,936	49.15	6,328	39.55	5,270	12.83	7,461	17.25	12,027	18.07	21,445	20.62	12,931	25.43	139	67,537
Chancroid	—	—	—	—	—	—	3	0.01	3	0.00	1	0.00	—	—	—	7
<i>Chlamydia trachomatis</i> infection	420	10.66	93	0.58	10,893	26.51	1,069,111	2,471.92	540,510	811.89	83,917	80.68	2,178	4.28	1,447	1,708,569
Cholera	—	—	—	—	—	—	1	0.00	3	0.00	4	0.00	2	0.00	—	10
Coccidioidomycosis †	7	0.44	70	1.07	520	3.10	1,200	6.81	2,734	10.15	6,101	14.64	3,725	18.39	7	14,364
Cryptosporidiosis																
Total	130	3.30	1,246	7.79	1,306	3.18	1,822	4.21	2,870	4.31	2,680	2.58	1,319	2.59	41	11,414
Confirmed	97	2.46	978	6.11	955	2.32	1,343	3.11	2,081	3.13	1,834	1.76	728	1.43	27	8,043
Probable	33	0.84	268	1.68	351	0.85	479	1.11	789	1.19	846	0.81	591	1.16	14	3,371
Cyclosporiasis	—	—	9	0.06	17	0.05	90	0.23	278	0.46	546	0.58	222	0.48	32	1,194
Dengue virus infections §																
Dengue	1	0.03	2	0.01	33	0.08	57	0.13	139	0.21	169	0.16	36	0.07	—	437
Dengue-like illness	—	—	—	—	1	0.00	2	0.00	1	0.00	4	0.00	—	—	—	8
Severe dengue	—	—	—	—	—	—	1	0.00	4	0.01	4	0.00	—	—	—	9
Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ehrlichiosis and Anaplasmosis																
<i>Anaplasma phagocytophilum</i> infection	—	—	24	0.16	147	0.37	156	0.37	479	0.75	2,455	2.44	2,483	5.05	18	5,762
<i>Ehrlichia chaffeensis</i> infection	—	—	11	0.07	44	0.11	99	0.24	195	0.30	720	0.72	569	1.16	4	1,642
<i>Ehrlichia ewingii</i> infection	—	—	—	—	—	—	1	0.00	2	0.00	25	0.03	17	0.04	—	45

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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.
Undetermined ehrlichiosis/anaplasmosis	—	—	3	0.02	8	0.02	25	0.06	40	0.06	114	0.11	76	0.16	3	269
Giardiasis	113	3.73	1,388	11.26	1,557	4.92	1,792	5.32	3,378	6.49	5,040	6.15	1,883	4.61	42	15,193
Gonorrhea	90	2.28	113	0.71	2,835	6.90	248,470	574.49	237,275	356.40	64,403	61.92	2,063	4.06	359	555,608
<i>Haemophilus influenzae</i> , invasive disease																
All ages, all serotypes	363	9.21	262	1.64	116	0.28	137	0.32	354	0.53	1,456	1.40	2,852	5.61	8	5,548
Age <5 years ¶¶																
Serotype b	17	0.43	16	0.10	—	—	—	—	—	—	—	—	—	—	—	33
Non-b serotype	92	2.34	97	0.61	—	—	—	—	—	—	—	—	—	—	—	189
Nontypeable	140	3.55	60	0.38	—	—	—	—	—	—	—	—	—	—	—	200
Unknown serotype	114	2.89	89	0.56	—	—	—	—	—	—	—	—	—	—	—	203
Hansen's disease	—	—	—	—	1	0.00	4	0.01	16	0.03	32	0.03	23	0.05	18	94
Hantavirus infection, non-hantavirus pulmonary syndrome	—	—	—	—	—	—	1	0.00	1	0.00	—	—	—	—	—	2
Hantavirus pulmonary syndrome	—	—	—	—	—	—	1	0.00	10	0.02	15	0.01	7	0.01	—	33
Hemolytic uremic syndrome post-diarrheal	6	0.16	156	1.00	90	0.22	39	0.09	7	0.01	20	0.02	18	0.04	2	338
Hepatitis **																
A, acute	1	0.03	19	0.12	44	0.11	255	0.59	1,358	2.04	1,345	1.29	338	0.66	5	3,365
B, acute	—	—	2	0.01	—	—	99	0.23	1,183	1.79	1,881	1.82	242	0.48	2	3,409
B, perinatal infection ††	22	0.56	8	0.20	—	—	—	—	—	—	—	—	—	—	1	31
C, acute	13	0.35	21	0.14	2	0.01	669	1.63	2,234	3.52	1,149	1.16	105	0.22	32	4,225
Confirmed	11	0.29	18	0.12	1	0.00	514	1.25	1,681	2.65	874	0.88	84	0.17	30	3,213
Probable	2	0.05	3	0.02	1	0.00	155	0.38	553	0.87	275	0.28	21	0.04	2	1,012
Human immunodeficiency virus diagnoses	32	0.81	15	0.09	49	0.12	7,040	16.28	15,561	23.37	10,459	10.06	782	1.54	—	33,938
Influenza-associated pediatric mortality §§	16	0.41	31	0.19	64	0.16	15	0.12	—	—	—	—	—	—	—	126
Invasive pneumococcal disease ¶¶¶																
All ages	435	14.87	733	6.17	500	1.64	325	1.01	1,491	3.05	8,007	10.30	8,062	20.91	227	19,780
Confirmed	432	14.76	724	6.09	490	1.61	322	1.00	1,481	3.03	7,942	10.22	8,002	20.75	227	19,620
Probable	3	0.10	9	0.08	10	0.03	3	0.01	10	0.02	65	0.08	60	0.16	—	160
Age <5 years ¶¶	454	14.39	780	6.09	—	—	—	—	—	—	—	—	—	—	—	1,234
Confirmed	450	14.27	770	6.01	—	—	—	—	—	—	—	—	—	—	—	1,220
Probable	4	0.13	10	0.08	—	—	—	—	—	—	—	—	—	—	—	14
Legionellosis	1	0.03	4	0.03	2	0.00	55	0.13	529	0.79	3,453	3.32	3,412	6.71	2	7,458
Leptospirosis	—	—	—	—	2	0.01	8	0.02	19	0.04	32	0.04	11	0.03	—	72
Listeriosis	37	0.94	3	0.02	8	0.02	23	0.05	86	0.13	221	0.21	504	0.99	5	887
Lyme disease																
Total	24	0.61	1,580	9.92	6,489	15.86	3,801	8.82	5,570	8.40	15,005	14.49	9,396	18.57	878	42,743
Confirmed	21	0.54	1,309	8.22	4,816	11.77	2,500	5.80	3,724	5.62	10,463	10.10	6,034	11.92	646	29,513
Probable	3	0.08	271	1.70	1,673	4.09	1,301	3.02	1,846	2.79	4,542	4.39	3,362	6.64	232	13,230
Malaria	6	0.15	61	0.38	214	0.52	309	0.71	556	0.84	772	0.74	137	0.27	1	2,056
Measles																
Total	11	0.28	58	0.36	20	0.05	11	0.03	8	0.01	11	0.01	1	0.00	—	120
Indigenous	7	0.18	55	0.34	18	0.04	7	0.02	5	0.01	6	0.01	1	0.00	—	99
Imported	4	0.10	3	0.02	2	0.00	4	0.01	3	0.00	5	0.00	—	—	—	21
Meningococcal disease																
All serogroups	26	0.66	20	0.13	23	0.06	75	0.17	53	0.08	81	0.08	75	0.15	—	353
Serogroups ACWY	4	0.10	3	0.02	3	0.01	7	0.02	20	0.03	38	0.04	32	0.06	—	107
Serogroup B	12	0.30	6	0.04	7	0.02	37	0.09	6	0.01	11	0.01	11	0.02	—	90
Other serogroups	—	—	2	0.01	2	0.00	8	0.02	7	0.01	1	0.00	5	0.01	—	25
Unknown serogroup	10	0.25	9	0.06	11	0.03	23	0.05	20	0.03	31	0.03	27	0.05	—	131
Mumps	13	0.33	184	1.15	1,083	2.64	2,471	5.71	1,424	2.14	831	0.80	94	0.18	9	6,109
Novel Influenza A virus infections	1	0.03	8	0.05	9	0.02	1	0.00	—	—	1	0.00	—	—	46	66
Pertussis	2,237	56.79	2,779	17.37	6,015	14.64	4,204	9.72	1,035	1.55	1,924	1.85	739	1.45	42	18,975
Plague	—	—	—	—	—	—	—	—	—	—	3	0.00	2	0.00	—	5
Poliomyelitis, paralytic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Poliovirus infection, nonparalytic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Psittacosis	—	—	—	—	1	0.00	—	—	1	0.00	2	0.00	1	0.00	—	5
Q fever																
Total	—	—	—	—	3	0.01	4	0.01	25	0.04	103	0.10	58	0.11	—	193
Acute	—	—	—	—	3	0.01	3	0.01	21	0.03	83	0.08	43	0.08	—	153

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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		
Chronic	—	—	—	—	—	—	1	0.00	4	0.01	20	0.02	15	0.03	—	40
Rabies																
Human	—	—	—	—	—	—	—	—	—	—	1	0.00	1	0.00	—	2
Rubella	—	—	1	0.01	—	—	2	0.00	1	0.00	2	0.00	1	0.00	—	7
Rubella, congenital syndrome *	5	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	5
Salmonellosis	5,278	133.98	7,138	44.61	5,418	13.19	5,018	11.60	7,723	11.60	14,219	13.67	9,223	18.13	268	54,285
Severe acute respiratory syndrome-associated coronavirus disease	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Shiga toxin-producing <i>Escherichia coli</i> ***	309	7.84	1,860	11.63	1,383	3.37	1,654	3.82	1,268	1.90	1,209	1.16	921	1.81	68	8,672
Shigellosis	226	5.74	3,036	18.98	2,876	7.00	1,339	3.10	3,048	4.58	3,204	3.08	1,078	2.12	105	14,912
Smallpox	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Spotted fever rickettsiosis																
Total	2	0.05	68	0.43	286	0.70	488	1.14	1,209	1.83	2,787	2.70	1,402	2.77	6	6,248
Confirmed	—	—	7	0.04	7	0.02	6	0.01	37	0.06	84	0.08	35	0.07	—	176
Probable	2	0.05	61	0.38	279	0.68	482	1.12	1,172	1.77	2,703	2.62	1,367	2.71	6	6,072
Streptococcal toxic shock syndrome	4	0.16	4	0.04	17	0.07	11	0.04	58	0.14	156	0.23	122	0.37	—	372
Syphilis																
Total, all stages	924	23.46	4	0.03	55	0.13	19,761	45.69	49,521	74.38	29,296	28.17	1,972	3.88	34	101,567
Congenital *	918	23.30	—	—	—	—	—	—	—	—	—	—	—	—	—	918
Primary and secondary	3	0.08	2	0.01	21	0.05	7,001	16.19	15,288	22.96	7,967	7.66	349	0.69	13	30,644
Tetanus	—	—	—	—	3	0.01	—	—	5	0.01	6	0.01	7	0.01	12	33
Toxic shock syndrome (other than Streptococcal)	—	—	2	0.02	15	0.05	5	0.02	1	0.00	3	0.00	4	0.01	—	30
Trichinellosis	—	—	—	—	—	—	1	0.00	6	0.01	5	0.01	3	0.01	—	15
Tuberculosis	53	1.35	175	1.09	201	0.49	847	1.96	2,162	3.25	3,354	3.22	2,305	4.53	8	9,105
Tularemia	1	0.03	10	0.06	39	0.09	11	0.03	35	0.05	100	0.10	43	0.08	—	239
Typhoid fever	2	0.05	49	0.31	94	0.23	57	0.13	123	0.18	77	0.07	16	0.03	1	419
Vancomycin-intermediate <i>Staphylococcus aureus</i>	—	—	2	0.02	1	0.00	6	0.02	15	0.03	39	0.05	46	0.12	—	109
Vancomycin-resistant <i>Staphylococcus aureus</i>	—	—	—	—	—	—	—	—	—	—	1	0.00	2	0.00	—	3
Varicella morbidity	724	22.34	1,881	14.31	3,039	9.02	867	2.45	836	1.53	633	0.75	110	0.27	685	8,775
Varicella mortality	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vibriosis																
Total	18	0.46	44	0.28	141	0.35	124	0.29	360	0.55	830	0.81	560	1.12	8	2,085
Confirmed	4	0.10	20	0.13	123	0.30	90	0.21	258	0.39	617	0.60	379	0.76	6	1,497
Probable	14	0.36	24	0.15	18	0.04	34	0.08	102	0.16	213	0.21	181	0.36	2	588
Viral hemorrhagic fevers																
Crimean-Congo hemorrhagic fever virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ebola virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Guanarito virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Junin virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lassa virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lujovirus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Machupo virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marburg virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sabia virus	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Yellow fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zika virus																
Zika virus disease, congenital *,†††	22	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	22
Zika virus disease, non-congenital	—	—	4	0.03	15	0.04	84	0.19	172	0.26	183	0.18	39	0.08	—	497
Zika virus infection, congenital *,†††	17	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	17
Zika virus infection, non-congenital	—	—	—	—	—	—	193	0.45	411	0.62	33	0.03	4	0.01	—	641

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

U: Unavailable — The data are unavailable.

* The rate is calculated using population less than 1 year of age.

† Reportable in <25 states.

§ Total number of reported laboratory-positive dengue cases, including all confirmed cases [by anti-dengue virus (DENV) molecular diagnostic methods or seroconversion of anti-DENV IgM] and all probable cases (by a single, positive anti-DENV IgM).

¶ The rate is calculated using population less than 5 years of age.

** 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/2016surveillance/index.htm>.

†† The rate is calculated using population less than 2 years of age.

§§ The rate is calculated using population less than 18 years of age.

¶¶ Includes 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.

*** Includes *Escherichia coli* O157:H7 and Shiga toxin-positive *Escherichia coli* (including O157, non-O157, and not serogrouped).

††† Data reported to ArboNET using the national surveillance case definition for congenital Zika virus disease or infection (CSTE Position Statement 16-ID-01). Additional data reported to the US Zika Pregnancy Registry for outcomes of pregnancies with laboratory evidence of possible Zika virus infection are available at <https://www.cdc.gov/pregnancy/zika/data/pregnancy-outcomes.html>. Cases reported to the US Zika Pregnancy Registry might not meet the national surveillance case definition for congenital Zika virus disease or infection.

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 national notifiable infectious diseases and conditions for 2017 and their national surveillance case definitions are available at <https://www.cdc.gov/nndss/conditions/notifiable/2017/infectious-diseases/>. This list incorporates the Council of State and Territorial Epidemiologists (CSTE) position statements approved in 2016 by CSTE for national surveillance, that were implemented in January 2017, including updated surveillance case definitions for salmonellosis, shigellosis, vibriosis, perinatal hepatitis B virus infection, invasive pneumococcal disease, Lyme disease, and tularemia reported through August 7, 2018. Publication criteria for the finalized 2017 data are available at https://wonder.cdc.gov/nndss/documents/2017_NNDSS_Publication_Criteria.pdf. See also [Guide to Interpreting Provisional and Finalized NNDSS Data](#).
- Population estimates for incidence rates are July 1st, 2017 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, 2017, 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 2017), prepared under a collaborative arrangement with the U.S. Census Bureau. Population estimates for states released June 27, 2018 are available at https://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm. Population estimates for territories are the 2017 mid-year estimates from the U.S. Census Bureau International Data Base, accessed on October 2, 2018 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.
- Annual tables for 2016 and later years are available on [CDC WONDER](#).
- Annual summary reports from 1993-2015 are available as published in the *MMWR*.
- NNDSS annual tables since 1952 are available at [CDC Stacks](#) (once in CDC Stacks select "Annual Reports" in the "Genre" box to the left).

Suggested Citation:

- Centers for Disease Control and Prevention. National Notifiable Diseases Surveillance System, 2017 Annual Tables of Infectious Disease Data. Atlanta, GA. CDC Division of Health Informatics and Surveillance, 2018. Available at: <https://www.cdc.gov/nndss/infectious-tables.html>.

National Notifiable Diseases Surveillance System

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