

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

TABLE 8. Population Denominators for Rate Calculations, United States and U.S. Territories, 2019

Data from some jurisdictions may be incomplete due to the coronavirus disease 2019 (COVID-19) pandemic. Please see Note #9 at the bottom of the table.

(Accessible Version: <https://wonder.cdc.gov/nndss/static/2019/annual/2019-table8.html>)

Reporting Area	Total Resident Population	US Resident Population, by Age Subgroup					Live Births in Year 2019†
		Population (Age <1 year)*	Population (Age <24 months)†	Population (Age <36 months)§	Population (Age <5 years)¶	Population (Age <18 years)**	
United States	328,239,523	3,783,052	7,612,651	11,534,695	19,576,683	73,039,150	3,747,540
New England	14,845,063	145,600	293,082	443,012	749,794	2,902,835	142,529
Connecticut	3,565,287	34,625	70,167	106,513	181,710	727,440	34,258
Maine	1,344,212	12,035	24,390	37,101	63,537	248,842	11,779
Massachusetts	6,892,503	70,791	141,610	212,910	357,362	1,352,800	69,117
New Hampshire	1,359,711	12,052	24,346	37,205	63,621	255,253	11,839
Rhode Island	1,059,361	10,518	21,432	32,224	54,521	204,495	10,175
Vermont	623,989	5,579	11,137	17,059	29,043	114,005	5,361
Middle Atlantic	41,137,740	458,101	921,084	1,389,118	2,339,615	8,601,490	455,354
New Jersey	8,882,190	99,459	201,051	304,425	514,690	1,938,578	99,585
New York (excluding New York City)	11,116,744	115,307	233,718	354,272	603,283	2,311,536	116,136
New York City	8,336,817	108,623	214,201	318,754	523,718	1,716,763	105,403
Pennsylvania	12,801,989	134,712	272,114	411,667	697,924	2,634,613	134,230
East North Central	46,902,431	529,950	1,069,584	1,620,889	2,753,040	10,374,398	526,604
Illinois	12,671,821	143,723	289,659	439,163	746,934	2,817,875	140,128
Indiana	6,732,219	80,356	162,694	245,929	418,340	1,567,974	80,859
Michigan	9,986,857	109,018	219,873	333,798	566,442	2,143,933	107,886
Ohio	11,689,100	133,487	269,734	407,786	690,828	2,578,019	134,461
Wisconsin	5,822,434	63,366	127,624	194,213	330,496	1,266,597	63,270
West North Central	21,426,573	259,226	522,104	793,303	1,346,817	4,974,179	257,856
Iowa	3,155,070	37,540	75,836	115,022	195,636	726,841	37,649
Kansas	2,913,314	35,325	71,362	108,683	185,331	700,250	35,395
Minnesota	5,639,632	67,629	135,987	206,911	351,622	1,303,157	66,027
Missouri	6,137,428	71,012	143,146	217,232	368,080	1,370,585	72,127
Nebraska	1,934,408	25,252	50,631	76,974	130,880	476,074	24,755
North Dakota	762,062	10,483	21,030	32,084	54,101	180,171	10,454
South Dakota	884,659	11,985	24,112	36,397	61,167	217,101	11,449
South Atlantic	65,784,817	729,332	1,469,560	2,222,538	3,759,068	14,032,550	727,520
Delaware	973,764	10,618	21,289	32,350	54,719	203,572	10,562
District of Columbia	705,749	9,552	18,764	27,800	45,368	128,168	9,079
Florida	21,477,737	221,463	445,834	674,612	1,139,742	4,229,929	220,002
Georgia	10,617,423	127,141	255,907	387,551	656,566	2,503,881	126,371
Maryland	6,045,680	69,926	141,584	213,893	361,937	1,334,687	70,178
North Carolina	10,488,084	118,891	239,468	361,132	609,770	2,300,715	118,725
South Carolina	5,148,714	56,122	113,292	171,715	292,464	1,111,183	57,038
Virginia	8,535,519	97,864	197,689	299,132	505,477	1,860,848	97,429
West Virginia	1,792,147	17,755	35,733	54,353	93,025	359,567	18,136
East South Central	19,176,181	225,348	455,032	686,905	1,159,050	4,299,811	228,770
Alabama	4,903,185	56,901	115,191	174,264	294,357	1,088,306	58,615
Kentucky	4,467,673	53,154	107,266	161,730	272,610	1,002,871	53,069
Mississippi	2,976,149	35,518	71,756	108,721	183,478	698,583	36,636
Tennessee	6,829,174	79,775	160,819	242,190	408,605	1,510,051	80,450
West South Central	40,619,450	520,613	1,049,868	1,599,275	2,736,357	10,139,833	522,247
Arkansas	3,017,804	36,355	73,361	110,933	188,464	700,155	36,564
Louisiana	4,648,794	58,010	116,986	178,015	301,469	1,087,630	58,941
Oklahoma	3,956,971	48,442	97,927	149,364	255,533	952,238	49,143
Texas	28,995,881	377,806	761,594	1,160,963	1,990,891	7,399,810	377,599
Mountain	24,854,998	294,108	589,803	894,954	1,528,640	5,809,939	286,809

TABLE 8. Population Denominators for Rate Calculations, United States and U.S. Territories, 2019

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Reporting Area	Total Resident Population	US Resident Population, by Age Subgroup					Live Births in Year 2019††
		Population (Age <1 year)*	Population (Age <24 months)†	Population (Age <36 months)§	Population (Age <5 years)¶	Population (Age <18 years)**	
Arizona	7,278,717	81,929	164,994	250,720	429,788	1,640,236	79,375
Colorado	5,758,736	64,561	129,428	195,726	332,201	1,259,519	62,869
Idaho	1,787,065	22,106	44,473	67,530	116,200	448,201	22,063
Montana	1,068,778	11,659	23,199	35,545	61,156	228,588	11,079
Nevada	3,080,156	35,701	71,555	108,839	185,575	692,639	35,072
New Mexico	2,096,829	23,014	46,353	70,297	120,986	475,838	22,960
Utah	3,205,958	48,566	96,527	145,948	247,803	931,184	46,826
Wyoming	578,759	6,572	13,274	20,349	34,931	133,734	6,565
Pacific	53,492,270	620,774	1,242,534	1,884,701	3,204,302	11,904,115	599,851
Alaska	731,545	9,978	19,990	30,176	51,080	179,983	9,822
California	39,512,223	462,589	925,302	1,402,624	2,383,716	8,894,641	446,479
Hawaii	1,415,872	16,800	33,517	50,561	85,219	299,868	16,797
Oregon	4,217,737	43,312	87,338	132,800	227,811	866,562	41,858
Washington	7,614,893	88,095	176,387	268,540	456,476	1,663,061	84,895
U.S. Territories	3,672,195	31,808	63,546	95,354	162,350	706,775	25,155
American Samoa	50,826	917	1,843	2,780	4,650	17,418	—
Commonwealth of Northern Mariana Islands	51,994	763	1,517	2,268	3,755	16,004	566
Guam	167,772	3,181	6,362	9,552	15,921	54,170	3,165
Puerto Rico	3,294,626	25,634	51,171	76,736	131,230	594,123	21,424
U.S. Virgin Islands	106,977	1,313	2,653	4,018	6,794	25,060	—

\* Use this population for Zika virus disease, congenital; Zika virus infection, congenital; Infant botulism; and Congenital rubella syndrome.

† Use this population for Perinatal Hepatitis B infection.

§ Use this population for Perinatal Hepatitis C infection.

¶ Use this population for *Haemophilus influenzae*, invasive disease and invasive pneumococcal disease.

\*\* Use this population for Influenza associated pediatric mortality.

†† Use this population for Congenital Syphilis. Please also see [note 7](#).

## 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 2019 and their national surveillance case definitions are available by navigating to the [Surveillance Case Definitions | CDC](#) web page, selecting "2019" 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 2018 by CSTE for national surveillance that were implemented in January 2019. *Candida auris*, clinical became a new national notifiable condition, and revised case definitions were implemented for the following conditions: diphtheria, acute hepatitis A, listeriosis, yellow fever, *Salmonella* Paratyphi infection and *Salmonella* Typhi infection. *Salmonella* Paratyphi infection and *Salmonella* Typhi infection replaced Paratyphoid fever and Typhoid fever, respectively, as national notifiable conditions. Salmonellosis (excluding *S. Typhi* infection and *S. Paratyphi* infection) replaced Salmonellosis (excluding paratyphoid fever and typhoid fever) as a national notifiable condition. In addition, Carbapenemase Producing Carbapenem-Resistant Enterobacteriaceae (CP-CRE) represents a consolidation of CP-CRE species *Klebsiella* spp, CP-CRE *E. coli*, and CP-CRE *Enterobacter* spp. Publication criteria for the finalized 2019 data are available at [https://wonder.cdc.gov/nndss/documents/2019\\_NNDSS\\_Publication\\_Criteria\\_01212021.pdf](https://wonder.cdc.gov/nndss/documents/2019_NNDSS_Publication_Criteria_01212021.pdf). See also [Guide to Interpreting Provisional and Finalized NNDSS Data](#).
- Population estimates for incidence rates are July 1st, 2019, estimates obtained from the National Center for Health Statistics (NCHS) postcensal estimates of the resident population of the United States for April 1, 2010, to July 1, 2019, 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 2019), prepared under a collaborative arrangement with the U.S. Census Bureau. Population estimates for states released July 9, 2020, 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 2019 mid-year estimates from the U.S. Census Bureau International Data Base, accessed on August 6, 2020, at [https://www.census.gov/data-tools/demo/idb/#/country?YR\\_ANIM=2021](https://www.census.gov/data-tools/demo/idb/#/country?YR_ANIM=2021). 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 [Morbidity and Mortality Weekly Report](#).
- NNDSS annual tables since 1952 are available at [CDC Stacks](#) (once in CDC Stacks, select "Annual Reports" in the "Genre" box to the left).

7. 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 national 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.

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 2019 (National Center for Health Statistics [Natality 2019](#), 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.

8. 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).
9. The following 24 jurisdictions may have incomplete data, due to the coronavirus disease 2019 (COVID-19) pandemic: Alaska, California, Connecticut, Delaware, District of Columbia, Florida, Idaho, Indiana, Kansas, Massachusetts, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New York (excluding New York City), New York City, North Dakota, Ohio, Oklahoma, South Carolina, Tennessee, Texas, and West Virginia. In addition, the following 2 U.S. Territories may have incomplete data due to the COVID-19 pandemic: American Samoa and the U.S. Virgin Islands.

#### **Suggested Citation:**

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#### **Acknowledgment:**

- CDC acknowledges the local, state, and territorial health departments that collected the data from a range of case ascertainment sources (e.g., healthcare providers, hospitals, laboratories) and reported these data to CDC's National Notifiable Diseases Surveillance System.

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

Provided by [CDC WONDER](#)