

2011

Executive Summary

Florida Morbidity
Statistics

REPORT

Florida Department of Health
Bureau of Epidemiology

Florida Morbidity Statistics Report Executive Summary 2011



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**Florida Morbidity Statistics Reports:
http://www.doh.state.fl.us/disease_ctrl/epi/Morbidity_Report/amr.html**

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Introduction

This document is an executive summary of the Florida Morbidity Statistics Report 2011. For more in-depth information about 2011 disease trends, as well as notable case and outbreak investigations, refer to the full 2011 Florida Morbidity Statistics Report, available online at http://www.doh.state.fl.us/disease_ctrl/epi/Morbidity_Report/amr.html.

The Florida Morbidity Statistics Report is the official record of the occurrence of reportable disease in Florida and this edition marks the fifty-sixth publication since 1945. The data contained here are final, unless otherwise noted. Florida Statutes Chapter 381 states, "The department shall conduct a communicable disease prevention and control program as part of fulfilling its public health mission." The mission of the Florida Department of Health is to protect, promote, and improve the health of all people in Florida through integrated state, county, and community efforts. This report directly supports the mission of the Department by identifying patterns and trends in the incidence of disease that are used as the scientific basis for development of disease control and prevention strategies and policies.

Disease control and prevention are core functions of any public health agency. Protection of the public's health from existing, emerging, and re-emerging diseases requires diligence in all aspects of public health. Public health partners in identifying and characterizing emerging trends in disease are the physicians, nurses, laboratorians, hospital infection preventionists, and other health care professionals who participate in reportable disease surveillance. Without their participation, the ability to recognize and intervene in emerging public health issues would be much more limited.

The Bureau of Epidemiology thanks all program areas within the Florida Department of Health that contributed to this report including Immunization, HIV/AIDS, Sexually Transmitted Disease, Tuberculosis, Environmental Health, and Public Health Laboratories. Finally, many thanks are extended to the county health department staff and other public health professionals who are involved in reportable disease surveillance, either through disease control activities, case investigations, data collection, or other essential functions.

Purpose

The Florida Morbidity Statistics Report is compiled in a single reference document to:

1. Summarize annual morbidity from reportable acute communicable and environmental diseases and cancer in Florida.
2. Describe patterns of disease that can be assessed over time, compared with trends from other states, and act as an aid in directing future disease prevention and control efforts.
3. Provide a resource to medical and public health authorities at county, state, and national levels.

Data Sources

Data presented in the 2011 Florida Morbidity Statistics Report and Executive Summary are based on reportable disease information received by county and state health department staff from physicians, hospitals, and laboratories throughout the state. Data on the occurrence of reportable diseases in Florida were obtained through passive and active surveillance. Reporting of suspected and confirmed reportable diseases and conditions in the state of Florida is mandated under Florida Statute 381.0031 and Chapter 64D-3, Florida Administrative

Code (F.A.C.). People in charge of laboratories, hospitals, medical facilities, or other facilities providing health services (which can include schools, nursing homes, and state institutions) are required to report certain diseases and conditions and the associated laboratory test results as listed in the Table of Notifiable Diseases or Conditions to be Reported, Chapter 64D-3, F.A.C. Reporting of test results by a laboratory does not nullify a practitioner's obligation to report the disease or condition. These data are the basis for providing useful information on reportable diseases and conditions in Florida to healthcare workers and policymakers, and would not be possible without the cooperation of the extensive network involving both private and public sector participants.

1. Passive surveillance relies on physicians, laboratories, and other healthcare providers to report diseases to the Florida Department of Health (FDOH) confidentially in one of three forms: electronically, by telephone, or by facsimile.
2. Active surveillance entails FDOH staff regularly contacting hospitals, laboratories, and physicians in an effort to identify all cases of a given disease or condition.
3. Increasingly, information about cases of reportable diseases and conditions is passed from providers, especially laboratories, to the FDOH as electronic records. This occurs automatically without the involvement of a person after the electronic transmission process has been established between FDOH and the reporting partner.

Interpreting the Data

Information in the 2011 Florida Morbidity Statistics Report and Executive Summary should be interpreted in light of the limitations below.

1. Underreporting

The data presented in this report and executive summary are primarily based on passive reporting by healthcare providers and laboratories across the state of Florida. Case reporting is most often dependent upon a person becoming ill, seeking medical attention, the healthcare provider ordering laboratory testing, and then the healthcare provider or laboratory reporting the case. Frequently, not all steps in this process occur, so the number of reported cases represents a fraction of the true number of cases of reportable illnesses occurring in Florida each year. Evaluations of infectious disease reporting systems have indicated that the completeness of reporting varies by disease. The less common, more severe reportable diseases such as bacterial meningitis, diphtheria, polio, botulism, anthrax, tuberculosis, and congenital syphilis are more completely reported than the more common but (individually) less severe diseases such as acute hepatitis C, lead poisoning, or campylobacteriosis. Variation in identified disease incidence at the local level probably reflects, to varying degrees, both differences in the true incidence of disease and differences in the vigor with which surveillance is performed.

2. Reliability of Rates

All incidence rates in this report and executive summary are expressed as the number of reported cases of a disease or condition per 100,000 population unless otherwise specified. Animal rabies is only expressed as the number of cases because no reliable denominators exist for animal populations. Rates for diseases with only a few cases reported per year can be unstable and should be interpreted with caution. The observation of zero events is especially difficult to interpret. All rates in the report and executive summary that are based on fewer than 20 events should be considered unreliable. This translates into a relative standard error of the rate of 23% or more, which is the cut-off for rate reliability used by the National Center for Health Statistics. Based on this, rates were

not generally calculated in this report and executive summary when there were less than 20 events.

3. Reporting Period

To ensure consistent case counting, the data in this report and executive summary are aggregated by the date the case was reported to the Bureau of Epidemiology unless otherwise noted. The date of illness onset or the date of diagnosis may not be available for all cases. Cases reported early in 2011 may have actually had onset or been diagnosed in 2010; rarely, cases reported in 2011 may have onset or diagnosis dates prior to 2010. Additionally, cases with illness onset or diagnosis late in 2011 may not have been reported to the Bureau of Epidemiology by the end of the 2011 reporting year, and thus would not be included in this report or executive summary. The reporting year is defined by the standard reporting weeks as outlined by the Centers for Disease Control and Prevention (CDC), where every year has at least 52 reporting weeks and some years have 53. The data in this report and executive summary are consistent with national surveillance data published weekly by CDC. Additionally, disease-specific reports describing data by other dates, such as disease onset and diagnosis dates, may also be published and available on the Florida Department of Health website.

4. Population Estimates

All population estimates are from the Community Health Assessment Resource Tool Set (CHARTS). CHARTS receives estimates from the Florida Department of Health Office of Health Statistics and Assessment in consultation with the Florida Legislature's Office of Economic and Demographic Research (EDR). Estimates are updated once per year. Note that previous editions of this report may show somewhat different populations for a given year than the ones shown here, as these estimates are revised periodically. This is especially true given the recent 2010 census.

Florida Background

Figure 1: Florida County Boundaries

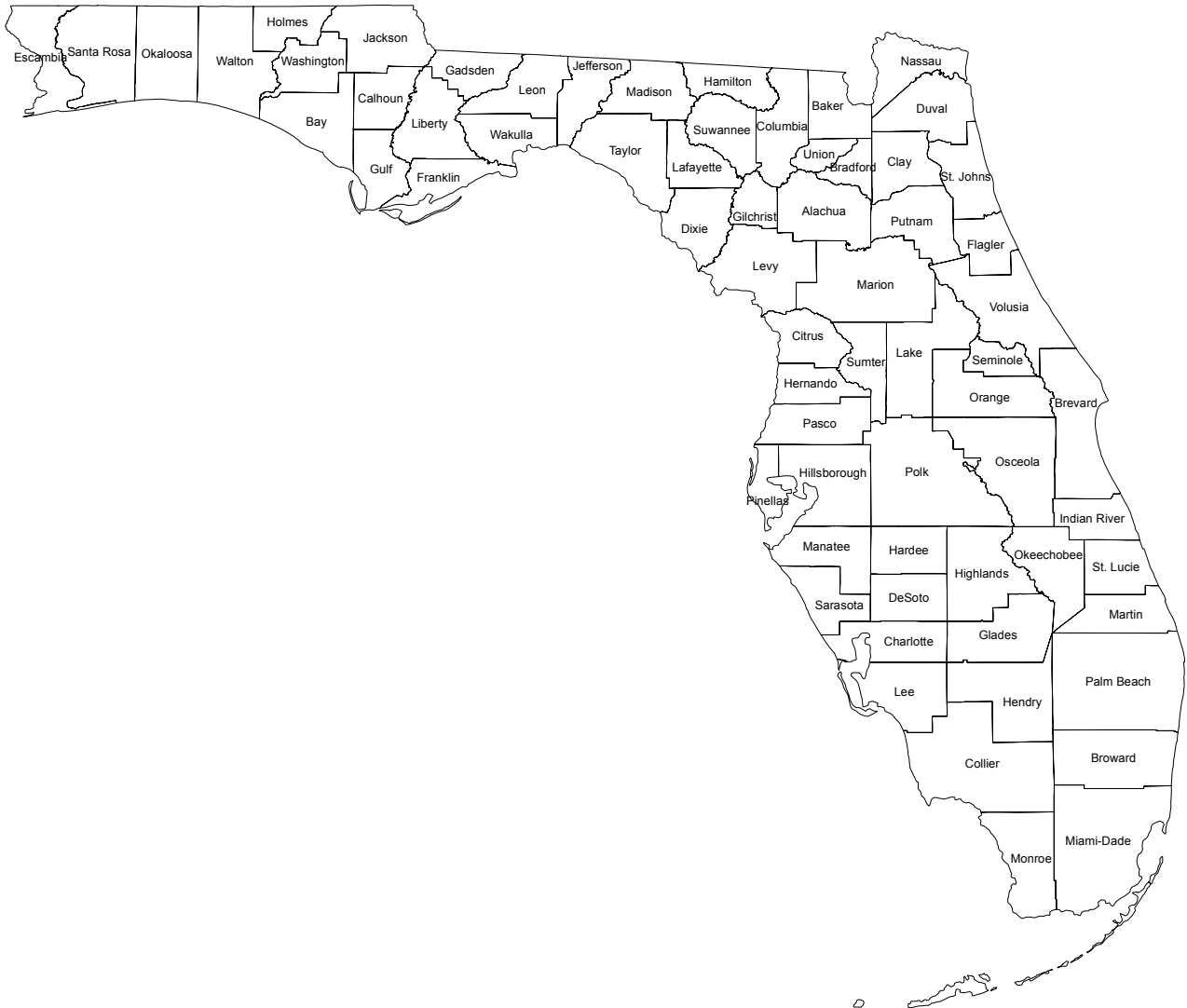


Table 1. Florida Population by Year, 2002-2011

Year	Population
2002	16,772,201
2003	17,164,199
2004	17,613,368
2005	18,018,497
2006	18,440,700
2007	18,731,287
2008	18,812,155
2009	18,819,000
2010	18,788,795
2011	18,934,287

Table 2. Florida Population by Age Group, 2011

Age Group	2011 Population
<1	209,739
1-4	861,809
5-9	1,089,617
10-14	1,131,815
15-19	1,213,606
20-24	1,245,246
25-34	2,327,217
35-44	2,399,046
45-54	2,716,012
55-64	2,397,657
65-74	1,786,874
75-84	1,107,266
85+	448,383
Total	18,934,287

List of Reportable Diseases/Conditions in Florida, 2011

Section 381.0031 (2), Florida Statutes, provides that “Any practitioner licensed in this state to practice medicine, osteopathic medicine, chiropractic medicine, naturopathy, or veterinary medicine; any hospital licensed under part I of chapter 395; or any laboratory licensed under chapter 483 that diagnoses or suspects the existence of a disease of public health significance shall immediately report the fact to the Department of Health.” County health departments serve as the Department’s representative in this reporting requirement. Furthermore, Section 381.0031 (4) provides that “The department shall periodically issue a list of infectious or noninfectious diseases determined by it to be a threat to public health and therefore of significance to public health and shall furnish a copy of the list to the practitioners listed in subsection (2)...”. This list reflects diseases and conditions that were reportable in 2011. Updates may be made in future years; Morbidity Statistics Reports for subsequent years will reflect changes in the list.

Acquired Immunodeficiency Syndrome (AIDS)	Malaria
Amebic encephalitis	Measles
Anthrax	Melioidosis
Arsenic poisoning	Meningitis (bacterial, cryptococcal, mycotic)
Botulism	Meningococcal disease
Brucellosis	Mercury poisoning
California serogroup virus disease (neuroinvasive and non-neuroinvasive)	Mumps
Campylobacteriosis	Neurotoxic shellfish poisoning
Cancer (except non-melanoma skin cancer, and including benign and borderline intracranial and CNS tumors)	Pertussis
Carbon monoxide poisoning	Pesticide-related illness and injury
Chancroid	Plague
Chlamydia	Poliomyelitis
Cholera	Psittacosis
Ciguatera fish poisoning	Q Fever
Congenital anomalies	Rabies (human, animal, possible exposure)
Conjunctivitis (in neonates ≤ 14 days old)	Ricin toxicity
Creutzfeldt-Jakob disease	Rocky Mountain spotted fever
Cryptosporidiosis	Rubella (including congenital)
Cyclosporiasis	St. Louis encephalitis virus disease (neuroinvasive and non-neuroinvasive)
Dengue	Salmonellosis
Diphtheria	Saxitoxin poisoning (including paralytic shellfish poisoning)
Eastern equine encephalitis virus disease (neuroinvasive and non-neuroinvasive)	Severe acute respiratory syndrome-associated <i>Coronavirus</i> (SARS-CoV) disease
Ehrlichiosis/anaplasmosis	Shigellosis
Encephalitis, other (non-arboviral)	Smallpox
Enteric diseases due to:	<i>Staphylococcus aureus</i> (with intermediate or full resistance to vancomycin)
<i>Escherichia coli</i> , O157:H7	<i>Staphylococcus aureus</i> , methicilin resistant (MRSA), community associated mortality
<i>Escherichia coli</i> , other pathogenic <i>E. coli</i> including enterotoxigenic, invasive, pathogenic, hemorrhagic, aggregative strains and Shiga toxin-producing strains	<i>Staphylococcus</i> enterotoxin B poisoning
Giardiasis	Streptococcal invasive disease (Group A)
Glanders	<i>Streptococcus pneumoniae</i> , invasive disease
Gonorrhea	Syphilis
Granuloma inguinale	Tetanus
<i>Haemophilus influenzae</i> , invasive disease	Toxoplasmosis (acute)
Hansen’s Disease (Leprosy)	Trichinosis
Hantavirus infection	Tuberculosis
Hemolytic uremic syndrome	Tularemia
Hepatitis A	Typhoid fever
Hepatitis B, C, D, E, and G	Typhus fever (epidemic and endemic)
Hepatitis B surface antigen in pregnant women or children ≤ 24 months old	Vaccinia disease
Herpes simplex virus in infants ≤ 6 months old, anogenital in children ≤ 12 years old	Varicella mortality
Human immunodeficiency virus (HIV) infection	Venezuelan equine encephalitis virus disease (neuroinvasive and non-neuroinvasive)
Human papillomavirus in children ≤ 6 years old, anogenital in children ≤ 12 years old, cancer associated strains	Vibriosis
Influenza due to novel or pandemic strains	Viral hemorrhagic fevers (Ebola, Marburg, Lassa, Machupo)
Influenza-associated pediatric mortality (in children < 18 years old)	West Nile virus disease (neuroinvasive and non-neuroinvasive)
Lead poisoning	Western equine encephalitis virus disease (neuroinvasive and non-neuroinvasive)
Legionellosis	Yellow fever
Leptospirosis	Any disease outbreak
Listeriosis	Any grouping or clustering of disease
Lyme disease	
Lymphogranuloma venereum	

2011 Summary of Key Disease Trends

Sexually transmitted diseases (STDs), HIV, and AIDS are the most common reportable diseases in Florida, particularly among 15 to 54-year-olds. Chlamydia incidence has been increasing over the past 10 years, with over 76,000 cases reported in Florida in 2011. As chlamydia has increased, the number of gonorrhea cases has consistently decreased in past years. A shift in treatment guidelines and recommendations for screening of women under the age of 25 contributed to the decrease in gonorrhea cases. The incidence of HIV and AIDS has also decreased over the last 10 years, though both diseases increased slightly in 2011 compared to 2010. Syphilis incidence has remained relatively stable for the past 10 years, with only a 5.8% increase in 2011 compared to the previous 5-year average.

In the mid-1980s tuberculosis (TB) re-emerged as a public health threat in the U.S. The number of cases of TB in Florida has decreased every year since 1994. Over the past 20 years, the number of TB cases counted in foreign-born people has remained relatively constant while decreasing dramatically in U.S.-born people. The incidence in 2011 decreased 18.4% from the previous 5-year average.

Florida consistently has one of the highest rates of enteric disease in the nation, with 10,000 to 12,000 cases reported annually. Incidence continued to be high in 2011. Shigellosis activity increased statewide starting in June 2010 and remained high throughout 2011. An increase in non-culture diagnostic laboratory testing and a change in case definition for campylobacteriosis in 2011 contributed to a 68.4% increase in cases compared to 2010. Incidence of other enteric diseases remained relatively stable in 2011.

Despite high vaccine coverage in Florida, vaccine-preventable diseases (VPDs) continued to occur. VPD incidence decreased slightly overall in Florida in 2011 compared to 2010. Acute hepatitis A and hepatitis B incidence has declined drastically over the past decade, likely due to increased vaccination coverage. In contrast, pertussis has been increasing over the past decade, though fewer cases were reported in 2011 than in 2010. More measles cases were reported in 2011 than in any other year since 1997. Eight measles cases were reported; five (62.5%) of these infections were acquired outside the U.S. and seven (87.5%) were in unvaccinated children (vaccination status was unknown for one case in an adult).

Overall, reported tick-borne disease incidence increased by more than 60% in 2011 compared to the previous 5-year average. Lyme disease and ehrlichiosis/anaplasmosis accounted for the increase (largely due to changes in the surveillance case definition), while Rocky Mountain spotted fever incidence actually declined by 27.7%. While most people with ehrlichiosis/anaplasmosis and Rocky Mountain spotted fever continue to acquire their infections in Florida, most people with Lyme disease continue to acquire infections in other states (primarily Northeast and upper Midwest U.S.).

Mosquito-borne disease continued to be a threat in Florida. The number of reported malaria and dengue fever cases decreased in 2011, after both diseases had large increases in activity in 2010. The large number of dengue fever cases in 2010 was partially due to infections acquired in Florida (primarily Monroe County), as well as epidemics in areas with high volumes of travelers to the U.S., such as Puerto Rico. Isolated cases of locally-acquired dengue fever were also identified in south Florida counties in 2011. The increase in malaria cases reported in 2010 was primarily due to cases imported from Haiti following a large earthquake at the beginning of the year. After several years of drought, West Nile virus illness cases began increasing in 2010 and continued to increase in 2011. While most exposures in 2010 occurred in counties located in the central and southern part of the state, cases occurring in 2011 were focused in Duval County.

Chronic hepatitis continues to account for a large bulk of infectious disease burden in Florida with over 25,000 cases reported annually. In 2011, the rate of newly diagnosed chronic hepatitis C cases was the highest it has been since 2008. Overall, the highest rates occurred among people 45 to 64 years old, with stable rates since 2008. In contrast, the rate of chronic hepatitis C new diagnoses has continued to increase since 2005 among people aged 20 to 34 years. This trend is seen in acute hepatitis C cases as well. While the overall rate of acute hepatitis C remained level in 2011, for the first time the number of cases diagnosed in young adults (aged 20 to 34 years) outpaced those in older adults. The 2011 rate of newly diagnosed chronic hepatitis B cases was the lowest it has been since 2007, with the majority of cases occurring in people 30 to 54 years old.

For additional information on disease-specific trends, refer to the full 2011 Florida Morbidity Statistics Report, available online at http://www.doh.state.fl.us/disease_ctrl/epi/Morbidity_Report/amr.html.

Summary of Selected Reportable Diseases/Conditions

Table 3. Reported Confirmed and Probable Cases and Incidence Rate (per 100,000 Population) of Reportable Diseases/Conditions of Frequent Occurrence, Florida, 2002-2011

Reportable Disease/Condition	2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
AIDS	4,638	27.7	4,394	25.6	5,365	30.5	4,646	25.8	4,850	26.3	3,690	19.7	4,653	24.7	4,062	21.6	3,188	17.0	3,442	18.2
Campylobacteriosis	995	5.9	1,056	6.2	1,009	5.7	894	5.0	941	5.1	1,017	5.4	1,118	5.9	1,120	6.0	1,211	6.4	2,039	10.8
Carbon Monoxide Poisoning	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	43	0.2	172	0.9	85	0.4
Chlamydia	41,958	250.2	41,849	243.8	43,295	245.8	43,324	240.4	48,816	270.1	60,010	320.4	68,344	368.6	72,937	387.6	74,823	398.2	76,035	401.6
Cryptosporidiosis	106	0.6	128	0.7	149	0.8	350	1.9	717	3.9	738	3.9	549	2.9	497	2.6	408	2.2	437	2.3
Cytosporiasis	32	0.2	14	NA	9	NA	524	2.9	31	0.2	32	0.2	59	0.3	40	0.2	63	0.3	58	0.3
Giardiasis	1,318	7.9	1,132	6.6	1,126	6.4	987	5.5	1,165	6.3	1,268	6.8	1,391	7.4	1,981	10.5	2,139	11.4	1,255	6.6
Gonorrhea	21,348	127.3	18,974	110.5	18,580	105.5	20,225	112.2	23,961	129.9	23,366	124.7	23,238	123.5	20,880	111.0	20,164	107.3	19,694	104.0
<i>Haemophilus influenzae</i> , Invasive Disease ¹	82	0.5	99	0.6	99	0.6	117	0.6	142	0.8	127	0.7	161	0.9	222	1.2	191	1.0	232	1.2
Hepatitis A	1,056	6.3	399	2.3	295	1.7	289	1.6	233	1.3	171	0.9	165	0.9	191	1.0	178	0.9	110	0.6
Hepatitis B (+HBsAg) in Pregnant Women ²	631	19.2	555	16.5	599	17.5	530	15.2	448	12.7	643	18.0	599	16.9	598	17.1	438	12.6	481	13.5
Hepatitis B, Acute	543	3.2	631	3.7	527	3.0	510	2.8	446	2.4	368	2.0	358	1.9	318	1.7	315	1.7	234	1.2
Hepatitis C, Acute	76	0.5	69	0.4	53	0.3	39	0.2	49	0.3	46	0.2	53	0.3	77	0.4	105	0.6	100	0.5
HIV Infection	8,678	51.7	7,871	45.9	7,808	44.3	7,032	39.0	6,738	36.5	6,952	37.1	7,999	42.5	5,640	30.0	4,983	26.5	6,046	31.9
Lead Poisoning	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Legionellosis	85	0.5	147	0.9	141	0.8	119	0.7	167	0.9	153	0.8	148	0.8	193	1.0	172	0.9	185	1.0
Listeriosis ¹	28	0.2	36	0.2	28	0.2	59	0.3	46	0.3	34	0.2	50	0.3	25	0.1	54	0.3	38	0.2
Lyme Disease	77	0.5	43	0.3	46	0.3	47	0.3	34	0.2	30	0.2	68	0.5	110	0.6	84	0.4	115	0.6
Malaria	76	0.5	92	0.5	93	0.5	68	0.4	61	0.3	56	0.3	65	0.3	93	0.5	139	0.7	99	0.5
Meningitis (Bacterial, Cryptococcal, Mycotic)	131	0.8	158	0.9	128	0.7	127	0.7	162	0.9	135	0.7	199	1.1	210	1.1	183	1.0	192	1.0
Meningococcal Disease ¹	126	0.8	106	0.6	107	0.6	84	0.5	79	0.4	67	0.4	51	0.3	52	0.3	60	0.3	51	0.3
Mercury Poisoning	8	NA	7	NA	10	NA	30	0.2	33	0.2	24	0.1	69	0.4	21	0.1	12	NA	7	NA
Pertussis	53	0.3	113	0.7	132	0.7	208	1.2	228	1.2	211	1.1	314	1.7	497	2.6	328	1.7	312	1.6
Pesticide-Related Illness and Injury	130	0.8	174	1.0	91	0.5	154	0.9	460	2.5	449	2.4	455	2.4	405	2.2	392	2.1	451	2.4
Rabies, Animal	181	NA	188	NA	205	NA	201	NA	176	NA	128	NA	138	NA	161	NA	121	NA	121	0.6
Rabies, Possible Exposure	1,082	6.5	1,051	6.1	1,128	6.4	1,215	6.7	1,244	6.8	1,474	7.9	1,618	8.6	1,853	9.9	2,114	11.3	2,410	12.7
Salmonellosis	4,651	27.7	4,669	27.2	4,276	24.3	5,552	30.8	4,928	26.7	5,022	26.8	5,312	28.1	6,741	35.8	6,281	33.4	5,923	31.3
Shiga Toxin-Producing <i>Escherichia coli</i> Infection ¹	89	0.5	79	0.5	84	0.5	130	0.7	60	0.3	156	0.8	122	0.6	94	0.5	85	0.5	103	0.5
Shigellosis	2,538	15.1	2,845	16.6	965	5.5	1,270	7.0	1,646	8.9	2,288	12.2	801	4.2	461	2.5	1,212	6.5	2,635	13.9
Streptococcal Disease, Invasive Group A	201	1.2	229	1.3	219	1.2	260	1.4	312	1.7	309	1.6	275	1.5	279	1.5	268	1.4	248	1.3
<i>Streptococcus pneumoniae</i> , Invasive Disease, Drug-Resistant	610	3.6	606	3.5	581	3.3	614	3.4	774	4.2	726	3.9	792	4.2	779	4.1	816	4.3	645	3.4
<i>Streptococcus pneumoniae</i> , Invasive Disease, Drug-Susceptible	NR	NR	201	1.2	606	3.4	598	3.3	620	3.4	622	3.3	704	3.7	701	3.7	693	3.7	679	3.6
Syphilis	3,372	20.1	3,227	18.8	2,953	16.8	2,908	16.1	2,963	16.1	4,092	21.8	4,370	23.2	3,858	20.5	4,078	21.7	4,143	21.9
Toxoplasmosis	45	0.3	31	0.2	24	0.1	2	NA	4	NA	9	NA	14	NA	4	NA	10	NA	7	NA
Tuberculosis	1,086	6.5	1,046	6.1	1,076	6.1	1,094	6.1	1,038	5.6	980	5.2	953	5.1	822	4.4	835	4.4	753	4.0
Varicella	NR	NR	NR	NR	NR	NR	NR	NR	59	0.3	1,321	7.1	1,735	9.2	1,125	6.0	977	5.2	861	4.5
Vibriosis ¹	87	0.5	115	0.7	107	0.6	103	0.6	99	0.5	97	0.5	94	0.5	112	0.6	130	0.7	155	0.8
West Nile Virus Disease ¹	36	0.2	93	0.5	45	0.3	22	0.1	3	NA	3	NA	3	NA	3	NA	12	NA	23	0.1

1 For information on what is included in this disease category, see Interpreting the Data section.

2 Rate is per 100,000 women aged 15-44 years.

NA Not Applicable. Rates calculated for less than 20 cases are unreliable and therefore are not included in this table. Animal rabies is only expressed as the number of cases because no reliable denominators exist for animal populations. Prior to 2010, lead poisoning case data were primarily stored outside of the state's reportable disease surveillance system and are not able to be included in this table.

NR Not Reportable.

Note that Tables 3 and 4 exclude the following reportable diseases and conditions: cancer, chancroid, congenital anomalies, conjunctivitis in neonates ≤14 days old, granuloma inguinale, herpes simplex virus in infants and children, human papillomavirus in children, lymphogranuloma venereum, novel influenza, influenza-associated pediatric mortality, *Staphylococcus aureus* community-associated mortality, and varicella mortality.

Table 4. Reported Confirmed and Probable Cases of Reportable Diseases/Conditions of Infrequent Occurrence, Florida, 2002-2011

Reportable Disease/Condition	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Amebic Encephalitis	NR	NR	NR	NR	NR	NR	0	3	0	1
Anthrax	0	0	0	0	0	0	0	0	0	1
Arsenic Poisoning	NR	NR	NR	NR	NR	NR	1	9	14	7
Botulism, Foodborne	0	0	0	0	1	0	0	0	0	0
Botulism, Infant	0	0	1	1	0	1	1	1	1	0
Botulism, Other	0	0	2	0	0	0	0	0	0	0
Botulism, Wound	0	0	0	0	0	0	0	0	0	0
Brucellosis	6	10	8	3	5	10	10	9	9	6
California Serogroup Virus Disease ¹	0	0	4	0	1	1	1	0	0	1
Cholera	0	0	0	0	0	0	0	0	4	11
Ciguatera	7	7	4	10	32	29	53	49	20	48
Creutzfeldt-Jakob Disease	NR	4	14	17	14	12	23	15	13	16
Dengue Fever ¹	21	16	13	19	20	46	33	55	195	71
Diphtheria	0	0	0	0	0	0	0	0	0	0
Eastern Equine Encephalitis Virus Disease ¹	1	2	1	5	0	0	1	0	4	0
Ehrlichiosis/Anaplasmosis ¹	5	13	7	5	6	21	12	14	14	26
Encephalitis, Other (Non-Arboviral) ¹	20	10	8	8	5	18	12	27	15	24
Glanders	NR	0	0	0	0	0	0	0	0	0
Hantavirus Infection	0	0	0	0	0	0	0	0	0	0
Hemolytic Uremic Syndrome	5	6	6	20	5	6	5	5	8	4
Hepatitis B, Perinatal	6	2	0	2	6	2	3	0	1	0
Hepatitis D	NR	NR	NR	NR	NR	1	0	1	0	0
Hepatitis E	NR	NR	NR	NR	NR	1	0	2	1	7
Hepatitis G	NR	NR	NR	NR	NR	0	0	1	0	2
Leprosy (Hansen's disease)	4	9	5	2	7	10	10	7	12	11
Leptospirosis	0	1	1	2	2	1	0	1	2	4
Measles	3	0	1	0	4	5	1	5	1	8
Melioidosis	NR	0	0	1	1	0	0	0	0	0
Mumps	7	7	9	8	15	21	16	18	10	11
Neurotoxic Shellfish Poisoning	0	0	0	4	16	1	0	0	0	0
Plague ¹	0	0	0	0	0	0	0	0	0	0
Poliomyelitis ¹	0	0	0	0	0	0	0	0	0	0
Psittacosis	3	3	1	0	1	0	2	0	0	0
Q Fever ¹	2	6	2	1	8	2	1	1	2	3
Rabies, Human	0	0	1	0	0	0	0	0	0	0
Ricin Toxin	NR	0	0	0	0	0	0	0	0	0
Rocky Mountain Spotted Fever	15	17	22	14	21	19	19	10	13	12
Rubella	5	0	0	0	1	0	3	0	0	0
Rubella, Congenital	0	0	0	0	0	0	0	0	0	0
Saxitoxin Poisoning	0	0	1	0	0	0	0	0	0	0
Severe Acute Respiratory Syndrome-Associated Coronavirus	NR	NR	0	0	0	0	0	0	0	0
Smallpox	0	0	0	0	0	0	0	0	0	0
St. Louis Encephalitis Virus Disease ¹	1	0	0	0	0	0	0	0	0	0
Vancomycin-Intermediate <i>Staphylococcus aureus</i> (GISA/VISA)	0	0	0	0	0	1	3	6	1	3
Vancomycin-Resistant <i>Staphylococcus aureus</i> (GRSA/VRSA)	0	0	0	0	0	0	0	0	0	0
Staphylococcus Enterotoxin B	NR	0	0	0	0	0	2	0	0	0
Tetanus	3	3	4	3	2	5	2	0	5	3
Trichinosis	0	0	0	1	1	0	1	0	0	0
Tularemia	0	0	0	1	0	0	0	1	0	0
Typhoid Fever	19	15	10	11	16	15	18	19	22	8
Typhus Fever ¹	0	0	1	0	2	1	0	1	0	2
Vaccinia Disease	0	0	0	0	0	0	0	0	0	1
Venezuelan Equine Encephalitis Virus Disease ¹	0	0	0	0	0	0	0	0	0	0
Viral Hemorrhagic Fever	0	0	0	0	0	0	0	0	0	0
Western Equine Encephalitis Virus Disease ¹	0	0	0	0	0	0	0	0	0	0
Yellow Fever	0	0	0	0	0	0	0	0	0	0

¹ For information on what is included in this disease category, see Interpreting the Data section.

NR Not Reportable.

Note that Tables 3 and 4 exclude the following reportable diseases and conditions: cancer, chancroid, congenital anomalies, conjunctivitis in neonates ≤14 days old, granuloma inguinale, herpes simplex virus in infants and children, human papillomavirus in children, lymphogranuloma venereum, novel influenza, influenza-associated pediatric mortality, *Staphylococcus aureus* community-associated mortality, and varicella mortality.

Table 5. Reported Confirmed and Probable Cases and Incidence Rate (per 100,000 Population) for Selected Reportable Diseases/Conditions by Age Group, Florida, 2011

Reportable Disease/Condition	<1 years		1-4 years		5-9 years		10-14 years		15-19 years		20-24 years		25-34 years		35-44 years		45-54 years		55-64 years		65-74 years		75-84 years		85+ years			
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate		
AIDS	0	NA	0	NA	1	NA	7	NA	50	4.1	211	16.9	640	27.5	960	40.0	1,034	38.1	382	16.3	120	6.7	24	2.2	3	NA		
Arsenic Poisoning	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	2	NA	3	NA	0	NA	0	NA	0	NA		
Brucellosis	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA	1	NA	1	NA	2	NA	1	NA	0	NA	0	NA	0	NA		
Campylobacteriosis	74	35.3	278	32.3	128	11.7	75	6.6	95	7.8	119	9.6	168	6.8	166	6.5	236	8.7	237	9.9	225	12.6	183	16.5	75	16.7		
Carbon Monoxide Poisoning	1	NA	1	NA	6	NA	4	NA	0	NA	2	NA	13	NA	19	NA	13	NA	9	NA	6	NA	8	NA	4	NA		
Chlamydia*	27	12.9	0	NA	3	NA	703	62.1	23,873	1,977.8	29,609	2,377.8	17,120	735.6	3,297	137.4	985	36.3	260	10.8	40	2.2	11	NA	4	NA		
Cholera	0	NA	0	NA	0	NA	0	NA	0	NA	2	NA	2	NA	3	NA	3	NA	1	NA	2	NA	1	NA	0	NA		
Ciguatera Fish Poisoning	0	NA	2	NA	4	NA	1	NA	1	NA	2	NA	7	NA	9	NA	10	NA	9	NA	2	NA	1	NA	0	NA		
Cryptosporidiosis	4	NA	49	5.7	21	1.9	18	NA	16	NA	22	1.8	49	2.1	55	2.3	60	2.2	38	1.6	43	2.4	43	3.9	19	NA		
Cyclosporiasis	0	NA	3	NA	0	NA	0	NA	1	NA	1	NA	1	NA	9	NA	10	NA	7	NA	14	NA	9	NA	2	NA		
Dengue Fever	0	NA	0	NA	3	NA	1	NA	5	NA	2	NA	11	NA	16	NA	15	NA	10	NA	5	NA	3	NA	0	NA		
Ehrlichiosis/Anaplasmosis	0	NA	0	NA	1	NA	0	NA	0	NA	1	NA	3	NA	3	NA	4	NA	6	NA	4	NA	4	NA	0	NA		
Giardiasis	12	NA	247	28.7	151	13.9	93	8.2	56	4.6	50	4.0	114	4.9	154	6.4	144	5.3	106	4.4	77	4.3	42	3.8	9	NA		
Gonorrhea*	0	NA	5	NA	5	NA	160	14.1	5,038	415.0	6,849	550.0	5,095	218.9	1,459	60.8	1,418	52.2	572	23.9	145	8.1	28	2.5	2	NA		
Haemophilus Influenzae, Invasive Disease ¹	12	NA	11	NA	1	NA	1	NA	0	NA	5	NA	11	NA	15	NA	21	0.9	16	NA	34	1.4	41	2.3	3.0	46	10.3	
Hepatitis A	0	NA	0	NA	7	NA	5	NA	12	NA	12	NA	17	NA	15	NA	14	NA	14	NA	6	NA	7	NA	11	NA	4	NA
Hepatitis B (HBsAg) in Pregnant Women ²	0	NA	1	NA	0	NA	0	NA	12	NA	72	11.8	284	24.6	110	9.1	3	NA	0	NA	0	NA	0	NA	0	NA	0	NA
Hepatitis B, Acute	0	NA	1	NA	0	NA	0	NA	2	NA	5	NA	43	1.8	76	3.2	60	2.2	25	1.0	15	NA	6	NA	0	NA		
Hepatitis C, Acute	0	NA	0	NA	0	NA	1	NA	4	NA	12	NA	46	2.0	14	NA	16	NA	6	NA	1	NA	0	NA	1	NA		
HIV Infection	5	NA	5	NA	5	NA	11	NA	227	18.7	749	60.1	1,420	61.0	1,459	60.8	1,418	52.2	572	23.9	145	8.1	28	2.5	2	NA		
Lead Poisoning	9	NA	160	18.6	32	2.9	47	4.2	29	2.4	42	3.4	95	4.1	117	4.9	100	3.7	74	3.1	27	1.5	7	NA	3	NA		
Legionellosis	0	NA	1	NA	0	NA	1	NA	0	NA	0	NA	1	NA	6	NA	18	NA	35	1.3	38	1.6	42	2.4	25	2.3	18	NA
Listeriosis ¹	2	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	3	NA	0	NA	0	NA	0	NA	0	NA	0	NA
Lyme Disease	0	NA	2	NA	8	NA	6	NA	10	NA	11	NA	12	NA	14	NA	11	NA	17	NA	21	1.2	9	NA	1	NA		
Malaria	1	NA	1	NA	0	NA	2	NA	1	NA	11	NA	26	1.1	17	NA	21	0.8	12	NA	6	NA	0	NA	0	NA		
Measles	0	NA	3	NA	0	NA	2	NA	2	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	NA	0	NA		
Meningococcal Disease ¹	1	NA	4	NA	4	NA	0	NA	2	NA	5	NA	12	NA	2	NA	6	NA	2	NA	6	NA	3	NA	4	NA		
Mercury Poisoning	0	NA	0	NA	0	NA	0	NA	0	NA	1	NA	1	NA	1	NA	1	NA	2	NA	2	NA	0	NA	0	NA		
Mumps	0	NA	1	NA	0	NA	0	NA	3	NA	1	NA	3	NA	0	NA	0	NA	3	NA	0	NA	0	NA	0	NA		
Pertussis	91	43.4	42	4.9	40	3.7	31	2.7	25	2.1	11	NA	19	NA	23	1.0	12	NA	12	NA	5	NA	1	NA	0	NA		
Pesticide-Related Illness and Injury*	3	NA	30	3.5	20	1.8	21	1.9	33	2.7	74	5.9	68	2.9	80	3.3	18	NA	61	2.5	25	1.4	9	NA	1	NA		
Rabies, Possible Exposure*	15	NA	95	11.0	139	12.8	140	12.4	182	15.0	211	16.9	349	15.0	349	14.5	359	13.2	267	11.1	182	10.2	91	8.2	29	6.5		
Rocky Mountain Spotted Fever	0	NA	0	NA	0	NA	0	NA	1	NA	0	NA	0	NA	2	NA	6	NA	1	NA	1	NA	0	NA	0	NA		
Salmonellosis	1,143	545.0	1,341	155.6	481	44.1	263	23.2	174	14.3	192	15.4	372	16.0	348	14.5	425	15.6	423	17.6	404	22.6	244	22.0	113	25.2		
Shiga Toxin-Producing Escherichia coli Infection ¹	8	NA	30	3.5	12	NA	13	NA	13	NA	6	NA	10	NA	1	NA	4	NA	3	NA	2	NA	1	NA	0	NA		
Shigellosis*	65	31.0	925	107.3	797	73.1	174	15.4	50	4.1	86	6.9	186	8.0	130	5.4	92	3.4	49	2.0	40	2.2	26	2.3	14	NA		
Streptococcus pneumoniae, Invasive Disease, Drug-Resistant	21	10.0	70	8.1	22	2.0	2	NA	8	NA	17	NA	28	1.2	45	1.9	92	3.4	115	4.8	91	5.1	80	7.2	54	12.0		
Streptococcus pneumoniae, Invasive Disease, Drug-Susceptible	12	NA	35	4.1	23	2.1	5	NA	4	NA	11	NA	33	1.4	65	2.7	127	4.7	131	5.5	111	6.2	65	5.9	57	12.7		
Syphilis*	31	14.8	1	NA	0	NA	4	NA	197	16.2	612	49.1	1,003	43.1	1,050	43.8	845	31.1	289	11.2	94	5.3	29	2.6	6	NA		
Tuberculosis	5	NA	16	NA	9	NA	13	NA	21	1.7	38	3.1	104	4.5	113	4.7	178	6.6	113	4.7	70	3.9	54	4.9	19	NA		
Typhoid Fever	0	NA	1	NA	1	NA	1	NA	1	NA	0	NA	4	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA		
Variacella	66	31.5	166	19.3	199	18.3	169	14.9	76	6.3	23	1.8	73	3.1	47	2.0	23	0.8	10	NA	5	NA	4	NA	0	NA		
Vibriosis ¹	0	NA	5	NA	10	NA	6	NA	9	NA	6	NA	17	NA	14	NA	20	0.7	31	1.3	18	NA	15	NA	4	NA		
West Nile Virus Disease ¹	0	NA	0	NA	0	NA	0	NA	0	NA	1	NA	2	NA	4	NA	6	NA	6	NA	2	NA	1	NA	1	NA		

* Cases that were missing age are excluded from this table: chlamydia (n=103); gonorrhea (n=26); pesticide-related illness and injury (n=8); rabies, possible exposure (n=2); shigellosis (n=1); and syphilis (n=1).

1 For information on what is included in this disease category, see Interpreting the Data section.

2 Rate is per 100,000 women aged 15-44 years.

NA Not Applicable. Rates calculated for less than 20 cases are unreliable and therefore are not included in this table. Note that Tables 5 and 7 include only diseases summarized in Section 2: Selected Reportable Diseases and Conditions (as appropriate).

Table 6. Top 10 Reported Confirmed and Probable Cases of Reportable Diseases/Conditions by Age Group

Rank	Age Group												
	<1	1-4	5-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
1	Salmonellosis (1,143)	Salmonellosis (1,341)	Shigellosis (797)	Chlamydia (703)	Chlamydia (23,873)	Chlamydia (29,609)	Chlamydia (17,120)	Chlamydia (3,297)	HIV (1,418)	HIV (572)	Salmonellosis (404)	Salmonellosis (244)	Salmonellosis (113)
2	Pertussis (91)	Shigellosis (925)	Salmonellosis (481)	Salmonellosis (263)	Gonorrhea (6,036)	Gonorrhea (6,849)	Gonorrhea (5,095)	Gonorrhea (1,485)	AIDS (10,34)	Salmonellosis (423)	Campylobacteriosis (225)	Campylobacteriosis (83)	<i>Streptococcus pneumoniae</i> , Invasive Disease (11)
3	Campylobacteriosis (74)	Campylobacteriosis (278)	Varicella (199)	Shigellosis (174)	HIV (227)	HIV (749)	HIV (1,420)	HIV (1,489)	Chlamydia (985)	AIDS (392)	<i>Streptococcus pneumoniae</i> , Invasive Disease (202)	<i>Streptococcus pneumoniae</i> , Invasive Disease (145)	Campylobacteriosis (75)
4	Varicella (66)	Giardiasis (247)	Giardiasis (151)	Varicella (169)	Syphilis (197)	Syphilis (612)	Syphilis (1,003)	Syphilis (1,050)	Syphilis (845)	Syphilis (269)	Rabies, Possible Exposure (82)	Rabies, Possible Exposure (91)	<i>Haemophilus influenzae</i> , Invasive Disease (46)
5	Shigellosis (65)	Varicella (166)	Rabies, Possible Exposure (139)	Gonorrhea (160)	Rabies, Possible Exposure (182)	AIDS (211)	AIDS (640)	AIDS (960)	Gonorrhea (758)	Rabies, Possible Exposure (267)	HIV (145)	Tuberculosis (54)	Rabies, Possible Exposure (29)
6	Meningitis, Other (43)	Lead Poisoning (160)	Campylobacteriosis (128)	Rabies, Possible Exposure (140)	Salmonellosis (174)	Rabies, Possible Exposure (211)	Salmonellosis (372)	Salmonellosis (349)	Salmonellosis (425)	Chlamydia (260)	AIDS (120)	Cryptosporidiosis (43)	Cryptosporidiosis (8)
7	<i>Streptococcus pneumoniae</i> , Invasive Disease (33)	<i>Streptococcus pneumoniae</i> , Invasive Disease (105)	<i>Streptococcus pneumoniae</i> , Invasive Disease (45)	Giardiasis (93)	Campylobacteriosis (95)	Salmonellosis (192)	Rabies, Possible Exposure (349)	Salmonellosis (348)	Rabies, Possible Exposure (359)	<i>Streptococcus pneumoniae</i> , Invasive Disease (246)	Syphilis (94)	Giardiasis (42)	Tuberculosis (8)
8	Syphilis (31)	Rabies, Possible Exposure (95)	Pertussis (40)	Campylobacteriosis (75)	Varicella (76)	Campylobacteriosis (19)	Hepatitis B (+HBsAg In Pregnant Women) (284)	Campylobacteriosis (156)	Campylobacteriosis (236)	Giardiasis (237)	Giardiasis (77)	<i>Haemophilus influenzae</i> , Invasive Disease (33)	Legionellosis (8)
9	Chlamydia (27)	Cryptosporidiosis (49)	Lead Poisoning (32)	Lead Poisoning (47)	Giardiasis (56)	Shigellosis (86)	Shigellosis (186)	Giardiasis (154)	<i>Streptococcus pneumoniae</i> , Invasive Disease (219)	Gonorrhea (235)	Tuberculosis (70)	Streptococcal Invasive Disease Group A (30)	Shigellosis (14)
10	Rabies, Possible Exposure (8)	Pertussis (42)	Cryptosporidiosis (21)	Pertussis (31)	AIDS (50)	Hepatitis B (+HBsAg In Pregnant Women) (72)	Campylobacteriosis (158)	Shigellosis (130)	Tuberculosis (78)	Tuberculosis (113)	Cryptosporidiosis (43)	Syphilis (29)	Streptococcal Invasive Disease Group A (11)

Table 4 includes the top ten diseases based on frequency of report by age group. These diseases are grouped by color into a few general disease families:

Enteric diseases	Sexually transmitted infections	Lead poisoning	Rabies, possible exposure
Vaccine-preventable diseases	HIV/AIDS	Tuberculosis	Invasive bacterial diseases

Table 7. Reported Confirmed and Probable Cases of Selected Reportable Diseases/Conditions by Month of Onset*, Florida 2011

Selected Reportable Diseases	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Arsenic Poisoning	1	0	0	1	1	0	0	0	0	0	4	0
Brucellosis	0	0	1	1	1	0	1	0	1	0	0	1
Campylobacteriosis	147	143	189	200	234	211	216	163	137	127	135	137
Carbon Monoxide Poisoning	3	7	5	3	4	16	14	12	6	4	3	8
Cholera	4	1	0	0	0	1	1	0	1	1	0	2
Ciguatera Fish Poisoning	2	6	0	4	4	4	8	9	4	7	0	0
Cryptosporidiosis	36	33	27	36	27	56	56	51	29	33	21	32
Cyclosporiasis	9	6	1	5	1	12	13	1	3	1	4	2
Dengue Fever ¹	3	2	1	4	1	0	8	19	11	8	9	5
Ehrlichiosis/Anaplasmosis ¹	1	0	0	5	9	2	2	3	1	2	1	0
Giardiasis	115	71	96	60	93	110	129	142	93	121	102	123
<i>Haemophilus influenzae</i> , Invasive Disease ¹	26	18	27	26	27	15	11	18	10	15	16	23
Hepatitis A	6	9	8	8	5	6	9	12	17	10	4	16
Hepatitis B, Acute	20	11	21	24	19	18	23	23	19	17	17	22
Hepatitis C, Acute	10	7	5	5	12	8	7	8	13	8	5	12
Legionellosis	13	15	11	10	11	14	10	24	20	31	16	10
Listeriosis ¹	6	0	3	1	2	2	4	6	5	2	3	4
Lyme Disease	6	1	4	7	9	19	27	18	8	5	9	2
Malaria	7	8	8	5	10	8	10	19	6	6	7	5
Measles	0	1	2	1	2	0	1	0	0	0	0	1
Meningococcal Disease ¹	3	3	5	10	4	6	4	2	5	2	4	3
Mercury Poisoning	1	0	1	0	2	0	0	0	0	1	2	0
Mumps	0	0	2	0	0	0	3	0	2	1	2	1
Pertussis	25	29	14	16	16	39	53	31	25	17	22	25
Pesticide-Related Illness and Injury	28	29	98	36	36	24	37	44	30	49	25	15
Rabies, Animal ²	3	9	17	9	4	8	12	11	11	13	15	8
Rabies, Possible Exposure ³	156	167	205	175	239	231	200	208	179	201	247	202
Rocky Mountain Spotted Fever	1	0	1	3	0	0	0	1	1	1	2	2
Salmonellosis	236	173	227	359	435	515	792	743	751	773	567	352
Shiga Toxin-Producing <i>Escherichia coli</i> Infection ¹	5	4	13	8	14	13	15	9	8	7	4	3
Shigellosis	135	136	174	215	323	347	232	234	173	254	238	174
<i>Streptococcus pneumoniae</i> , Invasive Disease, Drug-Resistant	114	83	78	57	41	36	22	20	36	44	43	71
<i>Streptococcus pneumoniae</i> , Invasive Disease, Drug-Susceptible	115	90	79	53	41	40	25	24	43	45	60	64
Typhoid Fever	1	1	1	1	0	1	2	1	0	0	0	0
Varicella	84	74	98	125	81	33	43	57	66	62	80	58
Vibriosis ¹	6	6	13	24	22	16	20	16	9	13	8	2
West Nile Virus Disease ¹	0	0	0	0	0	1	8	7	5	2	0	0

* If no illness onset date was available, the earliest date associated with the case was used to approximate onset date. Dates associated with cases include illness onset date, diagnosis date, laboratory report date, and county health department notified date.

1 For information on what is included in this disease category, see Interpreting the Data section.

2 Month of onset is based on the month of laboratory report.

3 Month of onset is based on the month of exposure.

Note that Tables 5 and 7 include only diseases summarized in Section 2: Selected Reportable Diseases and Conditions (as appropriate).

