Florida Morbidity Statistics

2010



Florida Department of Health Division of Disease Control Bureau of Epidemiology 4052 Bald Cypress Way, Bin # A-12 Tallahassee, Florida 32399-1720 850-245-4401

http://www.doh.state.fl.us/

Florida Morbidity Statistics Report 2010: http://www.doh.state.fl.us/disease_ctrl/epi/Morbidity _Report/amr_2010.pdf

Published December 2011

Table of Contents

Acknowledgments vii	
Introduction xiii	i
Purposexiii	
Report Format xiii	
Data Sources xiii	
Interpreting the Data xiv	(
Florida County Boundriesxvi	
Population Estimatesxvi	i
Table A: Florida Populations by Year and County, 2001-2010 xvi	i
Table B: Florida Populations by Age Group, 2010 xix	, 1
Table C: Florida Populations by Gender, 2010 xix	, 1
Table D: Florida Populations by Race (White, Black, and other Non-white), 2010 xix	,
List of Reportable Diseases/Conditions in Florida, 2010 xx	
Selected Florida Department of Health Contacts xxi]
Travel-related Illness in Florida, Snapshot of Recent Trends xxi	i
Section 1: Tables of Select Notifiable Diseases 24	
Table 1.1: Reported Confirmed and Probable Cases and Incidence Rate per 100,000Population for Selected Notifiable Diseases, Florida, 2001-2010	
Table 1.2: Reported Confirmed and Probable Cases of Notifiable Diseases of Infrequent Occurrence, Florida, 2001-2010	
Table 1.3: Reported Confirmed and Probable Cases and Incidence Rate per 100,000 Population for Selected Notifiable Diseases by County of Residence, Florida, 2010	
Table 1.4: Reported Confirmed and Probable Cases and Incidence Rate per 100,000Population for Selected Notifiable Diseases by Age Group, Florida, 2010	
Table 1.5: Top 10 Reported Confirmed and Probable Cases of Disease by Age Group, Florida, 2010	
Table 1.6: Reported Confirmed and Probable Cases and Incidence Rate per 100,000Population for Selected Notifiable Diseases by Gender, Florida, 2010	
Table 1.7: Reported Confirmed and Probable Cases of Selected Notifiable Diseases byMonth of Onset, Florida, 2010	
Section 2: Selected Notifiable Diseases and Conditions	
Acquired Immune Deficiency Syndrome and Human Immunodeficiency Virus	
Arsenic Poisoning	
Brucellosis	
Campylobacteriosis	
Carbon Monoxide Poisoning	

Chlamydia	71
Cholera	74
Ciguatera Fish Poisoning	75
Cryptosporidiosis	77
Cyclosporiasis	81
DengueFever	83
Eastern Equine Encephalitis	86
Ehrlichiosis/Anaplasmosis	88
Escherichia coli, Shiga Toxin-Producing	91
Giardiasis	94
Gonorrhea	97
Haemophilus influenzae, Invasive Disease	100
Hepatitis A	103
Hepatitis B, Acute	106
Hepatitis B (+HBsAg in Pregnant Women)	110
Hepatitis C, Acute	112
Lead Poisoning, 2009	115
Legionellosis	120
Leptospirosis	123
Listeriosis	124
Lyme Disease	127
Malaria	131
Measles	135
Meningococcal Disease	136
Mercury Poisoning	139
Mumps	143
Pertussis	145
Pesticide-Related Illness and Injury, 2009	148
Q Fever	153
Rabies, Animal	154
Rabies, Possible Exposure	157
Rocky Mountain Spotted Fever	160
Salmonellosis	163
Shigellosis	166
Streptococcus pneumoniae, Invasive Disease, Drug-Resistant	169
Streptococcus pneumoniae, Invasive Disease, Drug-Susceptible	172
Syphilis	176
Tuberculosis	179
Typhoid Fever	187
Varicella	189

Vibriosis (excluding <i>Vibrio cholerae</i> , type O1, see Cholera) WestNileVirus	
Section 3: Foodborne Disease Outbreaks	200
Section 4: Antimicrobial Resistance Surveillance	208
Section 5: Notable Outbreaks and Case Investigations	222
Section 6: Recently Published Papers and Reports	252
Section 7: Cancer Data, 2008	258
Section 8: Public Health Laboratory Status Report	272

Acknowledgements

The Florida Morbidity Statistics Report is the official record of the occurrence of notifiable disease in Florida and this edition marks the fifty-fifth publication since 1945. The mission statement of the Florida Department of Health is "to protect and promote the health of all residents and visitors in the state through organized state and community efforts, including cooperative agreements with counties." 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.

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

Travel-related illness in Florida was a concern in 2010 and this report contains a special section on recent trends in travel-related illness. In 2010, an earthquake and subsequent cholera epidemic in Haiti presented significant potential for the importation of disease into the state. On January 12, 2010, a 7.0 magnitude earthquake struck in the area surrounding Port-au-Prince, Haiti. The Florida Department of Health and our disease control partners were able to quickly respond to this humanitarian crisis. Florida, as the U.S. state located closest to Haiti, became an initial focal point for assisting the federal repatriation and humanitarian parolee efforts. As the crisis developed, the Department worked to identify the introduction of cholera and prevent local transmission within Florida after an outbreak was identified in Haiti. The Department's response required the collaboration of county health departments, many bureaus, divisions and public health partners. This collaboration was essential to ensure an efficient and effective response to this state, national, and global concern.

The Division of Disease Control and the Bureau of Epidemiology would like to thank the other program areas within the Florida Department of Health that contributed information to this report including the Bureau of Immunization, Bureau of HIV/AIDS, Bureau of Sexually Transmitted Diseases Prevention and Control, Bureau of Tuberculosis Control and Refugee Health, Bureau of Environmental Public Health Medicine, and the Bureau of 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.

We hope readers will find this document useful when setting priorities for action at the individual and community level to prevent and control disease in Florida

Julia Gill

Julia Gill, Ph.D., M.P.H. Director, Division of Disease Control

Mary Hilton

Mary Hilton, M.N.O Chief (Acting), Bureau of Epidemiology

Florida Morbidity Statistics Report Staff

Editors

Kate Goodin, M.P.H. Catherine Lesko, M.P.H., C.P.H. Aaron Kite-Powell, M.S. Janet J. Hamilton, M.P.H. Richard Hopkins, M.D., M.S.P.H. Kim Bowman Bureau of Epidemiology Bureau of Epidemiology

Contributors

Avalon Adams-Thames, M.P.H. Sevim Ahmedov, M.P.A. Margie Alderman, R.N. JoEllen Alvarez Isabel Anasco, R.N., B.S.N. Leena Anil, M.V.Sc., Ph.D. David Atrubin, M.P.H. Ron Baker, M.S. Rosanna Barrett, M.P.H. Linda Beyer, R.N., B.S.N. Carina Blackmore, D.V.M., Ph.D. Dean Bodager, R.S., M.P.A., D.A.A.S. Leona Braithwaite, M.P.H. Ronetta Campbell, R.N., B.S.N. Lekisha Cohen, M.P.H. Lisha Constantine, M.P.H. Adrian Cooksey, M.P.H. Mark S. Crowley, M.S.

Gregory Danyluk, Ph.D., M.P.H., M.S. Gloria Davidson Jessica Fung Deerin, M.P.H.

Bureau of Epidemiology Bureau of Tuberculosis and Refugee Health Hendry County Health Department Palm Beach County Health Department Alachua County Health Department Bureau of Environmental Public Health Medicine Hillsborough County Health Department Bureau of Laboratories Bureau of Environmental Public Health Medicine Lee County Health Department Bureau of Environmental Public Health Medicine Bureau of Environmental Public Health Medicine **Highlands County Health Department** Bureau of Immunization Bureau of Sexually Transmitted Diseases Prevention and Control Bureau of Epidemiology Bureau of Sexually Transmitted Diseases Prevention and Control **Collier County Health Department** Seminole County Health Department Highlands County Health Department Bureau of Epidemiology

Timothy Doyle, M.P.H. Michael Drennon, M.S.P.H. Leah Eisenstein, M.P.H. Frantz Fils-Aime, M.P.H. Sandra Forero Sallie Ford Michelle Franz, L.P.N. Mike Friedman, M.P.H. Kate Goodin, M.P.H. Ingrid Gray, M.P.H. Janet J. Hamilton, M.P.H. Terri Harder, B.S.N., R.N. Tania Harper, M.P.H. Richard Hutchinson Patrick Jenkins. M.P.H. Barbara Johnson, R.N. Robyn Kay, M.P.H. Beverly Keith, R.N., B.S.N. Diane King, R.N., M.S.P.H. Aaron Kite-Powell, M.S. Richard Hopkins, M.D., M.S.P.H. Tara Hylton, M.P.H. Brian Lang, M.P.H. Becky Lazensky, M.P.H. Phil Lee, M.Sc., F.I.B.M.S. Catherine Lesko, M.P.H., C.P.H. Ryan M. Lowe, M.P.H. Lorene Maddox, M.P.H. Christina Malloy, R.N., B.S.N. Colin Malone, M.P.H. Kateesha McConnell, M.P.H., C.P.H. Alvaro Mejia-Echeverry, M.D., M.P.H., A.R.N.P. Mara Minichniewicz, M.P.H. Valerie Mock

Bureau of Epidemiology Bureau of Epidemiology Bureau of Epidemiology Miami-Dade County Health Department Palm Beach County Health Department Lafayette County Health Department Sumter County Health Department Bureau of Environmental Public Health Medicine Bureau of Epidemiology Bureau of Sexually Transmitted Diseases Prevention and Control Bureau of Epidemiology Collier County Health Department **Orange County Health Department** Bureau of Environmental Public Health Medicine Broward County Health Department Palm Beach County Health Department Bureau of Epidemiology **Orange County Health Department** Palm Beach County Health Department Bureau of Epidemiology Bureau of Epidemiology Bureau of Epidemiology Bureau of Epidemiology Bureau of Environmental Public Health Medicine Bureau of Laboratories Bureau of Epidemiology Bureau of Environmental Public Health Medicine Bureau of HIV/AIDS Bureau of Immunization Bureau of Epidemiology Bureau of Tuberculosis and Refugee Health Miami-Dade County Health Department Bureau of HIV/AIDS

Bureau of Laboratories

Holly Montejano, M.S. Prakash Mulay, M.B.B.S., M.P.H. Pedro Noya-Chaveco, M.P.H. Tiffani Onifade, Ph.D., M.S. Scott Pritchard, M.P.H. Patricia Ragan, Ph.D., M.P.H. Deva Rea, M.P.H., R.N., B.S.N. Cizao Ren, M.D., Ph.D. Kimberly Rogers, M.P.H., C.P.H. Casey Richards Laura Rutledge, R.N., B.S.N. Max Salfinger, M.D. Adlin Santiago Ann Schmitz, D.V.M., A.M. Ana Scuteri Danielle Stanek, D.V.M. Lillian Stark, Ph.D., M.P.H., M.S. Juan Suarez Lois Taylor, R.N., B.S.N. Robin Terzagian Karen Thomas, M.D., M.P.H. Lasheba Travis, M.S. Kathleen Van Zile, M.S.E.H., R.S. Ruth Voss, M.P.H., R.N. Janet Wamnes, M.S. Lea Wansborough, M.P.H. Sandra Warren Sharon Watkins, Ph.D. Mackenzie Weise, M.P.H. Michael T. Wiese Charlotte White Siri Wilson, M.P.H.

Bureau of Epidemiology Bureau of Environmental Public Health Medicine Miami-Dade County Health Department Bureau of Environmental Public Health Medicine Sarasota County Health Department Bureau of Epidemiology **Orange County Health Department** Bureau of Epidemiology Hillsborough County Health Department Escambia County Health Department Bureau of Immunization Bureau of Laboratories, Bureau of Tuberculosis and Refugee Health Hillsborough County Health Department Bureau of Epidemiology Osceola County Health Department Bureau of Environmental Public Health Medicine Bureau of Laboratories Bureau of Environmental Public Health Medicine Florida Newborn Screening Follow-up Program Bureau of Environmental Public Health Medicine Martin County Health Department Hendry County Health Department Bureau of Environmental Public Health Medicine **Duval County Health Department** Bureau of Environmental Public Health Medicine Bureau of Epidemiology Palm Beach County Health Department Bureau of Environmental Public Health Medicine Bureau of Epidemiology Hillsborough County Health Department Bureau of Epidemiology Alachua County Health Department

Introduction

Purpose

The Florida morbidity report is compiled to:

1. Summarize annual morbidity from notifiable communicable and environmental diseases, and cancer in Florida;

- 2. Describe patterns of disease as an aid in directing future disease prevention and control efforts; and,
- 3. Provide a resource to healthcare and public health authorities at county, state, and national levels.

Report Format

This report is divided into 8 sections:

Section 1: Summary of Selected Notifiable Diseases and Conditions

Section 2: Selected Notifiable Diseases and Conditions

Section 3: Summary of Foodborne Disease Outbreaks

Section 4: Summary of Antimicrobial Resistance Surveillance

Section 5: Summary of Notable Outbreaks and Case Investigations

Section 6: Recently Published Papers and Reports

Section 7: Summary of Cancer Data, 2008

Section 8: Public Health Laboratory Status Report

Data Sources

Data presented in this report are based on reportable disease information received by county and state health department staff from physicians, hospitals, and laboratories throughout the state. Data on occurrence of reportable diseases in Florida were obtained through passive and sometimes active surveillance. Reporting suspect and confirmed notifiable diseases or conditions in the State of Florida is mandated under Section 381.0031, Florida Statutes (F.S.), and Chapter 64D-3, Florida Administrative Code (F.A.C.). People in charge of laboratories, practitioners, hospitals, medical facilities, or other locations providing health services (can include schools, nursing homes, and state institutions) are required to report diseases or conditions and the associated laboratory test results listed in the Table of Notifiable Diseases or Conditions, Chapter 64D-3, F.A.C. Reporting test results by a laboratory does not nullify the practitioner's obligation to also report the disease or 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) using a confidential morbidity report form, 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.
- 3. Increasingly, information about cases of reportable diseases is passed from providers, especially laboratories, to the FDOH as electronic records, which occurs automatically.

References

Specific references are noted appropriately throughout this report. The following reference was used for the majority of notifiable diseases and conditions contained in Section 2.

David L. Heymann (ed.), *Control of Communicable Diseases Manual*, 19th ed., American Public Health Association Press, Washington, District of Columbia, 2008.

Interpreting the Data

This report should be interpreted in light of the following limitations:

1. Under-reporting

Evaluations of infectious disease reporting systems have, in general, indicated that the completeness of reporting varies by disease. The less common, more severe reportable diseases such as bacterial meningitis, diphtheria, poliomyelitis, botulism, anthrax, tuberculosis, and congenital syphilis are more completely reported than the more common but (individually) less severe diseases such as hepatitis A or campylobacteriosis. Variation in reported 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 are expressed as the number of reported cases of a disease or condition per 100,000 population unless otherwise specified. Animal rabies is only reported as the number of cases or as the rate based on human population, 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 based on fewer than 19 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.

3. Reporting Period

The data in this report are aggregated by the date the case was reported to the Bureau of Epidemiology for each of the years presented, based on standard weeks as outlined by the Centers for Disease Control and Prevention. Week 1 of each year through week 52 of each year comprise the reporting year. Frequency counts included only cases reported during this time. In some cases, diseases reported in 2010 may have onset or diagnosis dates in 2009.

4. Case Definition

Cases are classified as confirmed, probable, or suspected at the local level, using a published set of surveillance case definitions (Surveillance Case Definitions for Select Reportable Diseases in Florida, available at http://www.doh.state.fl.us/disease_ctrl/epi/surv/CaseDefinitions.html). For cases of selected diseases, these classifications are reviewed at the state level. In this report confirmed and probable cases have been included for all diseases, but no suspected cases have been included.

5. Place of Acquisition of Disease or Condition

The distribution of cases among Florida counties is determined by the patient's reported county of residence. Cases are allocated to their county of residence regardless of where they became ill or are/were hospitalized, diagnosed, or exposed. Cases in people whose official residence is outside the state of Florida, but who became ill or are/were hospitalized or diagnosed in Florida, are not included. These cases are referred through an interstate reciprocal notification system to the state where the patient resides.

6. Population Estimates

All population estimates are from the Community Health Assessment Resource Tool Set (CHARTS). The CHARTS system receives its estimates from the Florida Legislature's Office of Economic and Demographic Research (EDR). Estimates are updated once per year in the CHARTS system. 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.

7. Incomplete Case Information

Certain analyses may not include all reportable cases of a specific disease due to incomplete case information. For graphs denoting month of onset, it is important to note that only those cases of disease for which an onset date could be determined are included.

Florida County Boundaries

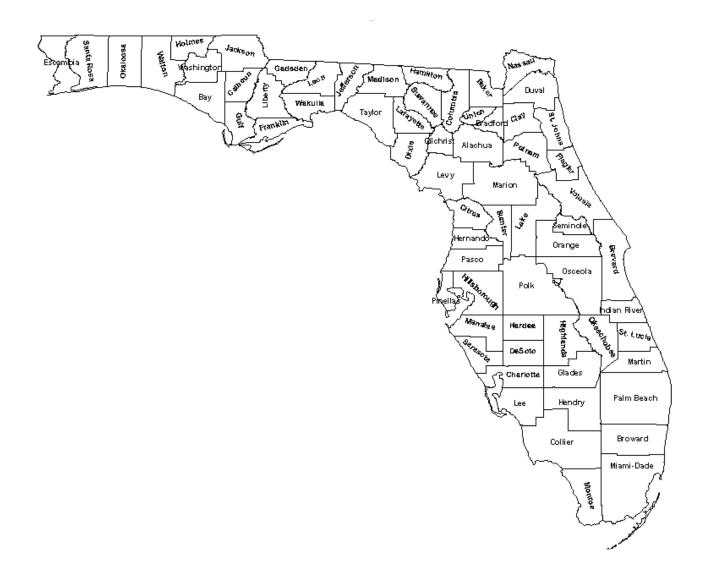


Table A. Florida Population by Y	by Year	and Cour	ear and County, 2000-2010. (Source	-2010. (S	Ι	Florida C	:HARTS;	Florida CHARTS; accessed February 2011	d Februa	ıry 2011)	
County	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
State Total	16,074,896	16,412,296	16,772,201	17,164,199	17,613,368	18,018,497	18,440,700	18,731,287	18,896,559	18,818,998	18,788,795
Alachua	219,239	224,397	229,524	232,110	237,374	241,858	244,648	248,183	249,788	254,690	257,762
Baker	22,388	22,641	23,105	23,472	24,069	23,980	25,216	25,692	25,905	26,049	25,936
Bay	148,692	150,748	152,818	155,414	159,108	162,499	166,160	167,881	168,817	169,955	170,367
Bradford	26,110	26,136	26,649	27,084	27,865	28,195	28,685	29,131	29,304	29,108	29,365
Brevard	478,541	487,131	497,429	510,622	524,046	534,596	545,460	553,481	557,741	555,944	554,908
Broward	1,631,445	1,654,923	1,673,972	1,706,363	1,730,580	1,746,603	1,755,392	1,767,538	1,775,101	1,748,279	1,742,843
Calhoun	13,038	13,101	13,286	13,491	13,636	14,011	14,192	14,545	14,688	14,309	14,546
Charlotte	142,357	145,481	149,486	152,865	158,006	153,788	161,731	165,061	166,473	166,298	166,023
Citrus	118,689	121,078	123,704	126,475	129,822	133,472	137,690	140,652	142,143	143,857	142,905
Clay	141,331	144,161	151,746	157,325	164,868	171,118	178,922	186,014	189,667	185,678	185,700
Collier	254,571	267,632	281,148	295,848	309,369	320,859	327,945	335,235	340,589	332,204	333,853
Columbia	56,683	57,354	58,537	59,218	60,821	61,744	64,052	65,658	66,429	67,161	67,273
Dade	2,262,902	2,292,316	2,320,465	2,354,404	2,388,138	2,432,276	2,442,170	2,466,645	2,478,585	2,477,019	2,477,658
Desoto	32,404	32,741	32,959	33,912	34,220	32,391	33,353	34,086	34,294	34,893	34,526
Dixie	13,883	14,154	14,530	14,768	15,054	15,482	15,715	15,826	15,927	16,080	16,205
Duval	782,691	797,566	813,817	829,937	843,772	865,965	883,875	900,608	908,378	908,562	899,820
Escambia	294,911	297,321	300,421	304,165	308,068	303,240	310,617	311,701	311,924	314,698	312,409
Flagler	50,620	53,881	58,004	62,511	71,004	80,559	90,663	94,199	96,912	95,214	96,099
Franklin	9,871	9,974	10,250	10,530	10,682	10,909	12,082	12,257	12,286	12,427	12,361
Gadsden	45,070	45,419	46,073	46,600	46,965	47,883	48,380	49,630	50,152	51,430	49,810
Gilchrist	14,533	14,759	15,140	15,637	16,016	16,303	16,812	17,171	17,375	17,502	17,618
Glades	10,595	10,624	10,675	10,759	10,763	10,743	10,849	11,113	11,301	11,520	11,338
Gulf	14,785	15,101	15,290	15,691	16,235	16,543	16,565	16,875	17,001	16,885	16,744
Hamilton	13,457	13,792	13,952	14,039	14,346	14,319	14,571	14,725	14,763	14,769	14,744
Hardee	26,952	27,021	27,474	27,434	27,898	27,277	27,240	27,574	27,650	28,359	28,282
Hendry	36,300	36,256	36,174	36,739	37,800	38,610	38,870	39,846	40,295	41,997	40,980
Hernando	131,298	133,497	137,613	141,574	146,118	152,049	158,441	163,035	165,329	166,850	165,758
Highlands	87,676	88,373	89,343	90,770	92,456	93,807	97,336	98,987	99,760	100,834	99,825
Hillsborough	1,005,808	1,034,164	1,062,140	1,085,318	1,114,774	1,137,583	1,171,585	1,197,312	1,209,978	1,202,309	1,200,754
Holmes	18,620	18,713	18,746	18,983	19,027	19,189	19,525	19,432	19,406	19,943	19,904
Indian River	113,755	116,291	118,884	121,887	127,831	130,849	136,546	140,469	142,452	141,926	142,108
Jackson	46,998	47,534	47,963	49,218	48,891	49,883	50,286	50,482	51,106	53,663	52,853
Jefferson	12,874	13,107	13,329	13,618	14,110	14,265	14,390	14,513	14,562	14,732	14,800

,20,
February
accessed
CHARTS;
Florida C
Source -
2010. (5
~ 7
v. 2000-2
I County, 2000-2
/ Year and County, 2000-2
ulation by Year and County, 2000-2
orida Population by Year and County, 2000-2
rida Population by Year and County.

Table A. (Continued) Florida Populatio	ulation by	Year and	n by Year and County, 2000-2010. (Source	2000-20	10. (Sou	irce – Flo	- Florida CHARTS; accessed	ARTS; ac	cessed F	February 2011	2011)
County	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Lafayette	7,061	7,076	7,245	7,394	7,559	8,064	8,092	8,273	8,571	8,981	10,175
Lake	212,823	222,988	233,622	242,919	254,246	265,716	279,583	288,078	293,216	292,605	293,883
Lee	444,151	459,278	481,014	499,387	526,157	555,874	594,219	620,778	634,660	620,966	618,188
Leon	240,631	245,070	249,744	256,921	265,258	272,749	272,573	272,938	273,741	275,369	274,966
Levy	34,626	35,325	36,197	36,856	37,691	38,136	39,277	40,219	40,677	41,064	40,715
Liberty	7,045	7,145	7,165	7,248	7,372	7,623	7,784	7,763	7,767	8,580	8,221
Madison	18,775	18,878	18,974	19,183	19,564	19,738	19,846	19,960	20,018	20,266	20,285
Manatee	265,701	272,342	279,366	288,888	297,037	306,557	309,952	317,395	321,323	318,765	318,700
Marion	260,407	265,629	273,602	284,232	295,550	307,646	317,755	326,791	331,843	330,749	330,877
Martin	127,430	129,415	132,009	135,280	138,329	141,871	142,859	143,914	144,736	143,588	143,859
Monroe	79,721	80,850	81,030	80,473	81,336	82,628	80,055	78,729	78,157	75,213	78,003
Nassau	58,037	59,452	61,643	63,523	65,478	66,019	68,662	69,745	70,447	73,732	73,241
Okaloosa	171,264	174,228	178,036	182,020	186,744	189,766	193,668	197,164	198,884	196,622	197,043
Okeechobee	35,998	36,211	36,715	37,377	38,153	37,752	38,821	39,038	39,116	40,133	39,757
Orange	906,000	936,749	962,531	989,962	1,021,215	1,050,939	1,087,172	1,109,714	1,123,324	1,115,169	1,112,526
Osceola	174,107	182,202	197,901	213,723	228,755	237,659	259,521	267,510	273,266	277,731	273,931
Palm Beach	1,137,532	1,160,977	1,190,653	1,218,508	1,249,598	1,272,335	1,290,600	1,295,586	1,302,077	1,289,159	1,287,224
Pasco	346,882	354,196	364,900	378,085	392,507	410,758	427,594	435,913	441,188	437,880	440,616
Pinellas	923,308	930,602	935,274	941,435	944,966	948,925	947,122	942,911	940,645	932,909	926,217
Polk	487,183	498,011	504,381	514,247	531,472	545,064	570,067	583,315	589,784	584,978	584,058
Putnam	70,532	70,929	71,481	72,114	73,435	73,897	74,549	74,816	74,903	74,777	74,133
Saint Johns	124,613	129,880	135,467	141,216	151,114	159,168	167,553	175,521	179,857	186,142	186,841
Saint Lucie	194,062	199,390	205,396	213,614	228,480	243,061	263,319	273,868	279,469	274,460	275,298
Santa Rosa	118,605	122,252	125,947	129,842	134,761	137,245	142,004	142,094	142,991	145,579	145,550
Sarasota	328,135	335,428	341,784	350,664	360,214	370,123	381,828	388,641	392,262	391,997	389,770
Seminole	368,231	380,763	389,549	396,934	405,565	413,937	422,288	426,364	429,244	423,947	423,952
Sumter	54,203	58,083	61,979	63,522	67,221	75,660	84,687	90,996	94,125	96,033	100,392
Suwannee	35,091	35,744	35,815	37,479	37,863	38,319	39,008	39,816	40,773	42,181	43,908
Taylor	19,297	19,594	19,878	20,794	20,977	21,395	21,696	22,721	23,062	23,701	23,132
Union	13,473	13,660	13,786	13,793	14,752	15,135	15,160	15,865	16,112	16,157	15,705
Volusia	445,676	453,840	462,377	473,185	486,874	497,224	505,317	508,468	511,094	508,844	506,719
Wakulla	23,150	23,936	24,340	25,141	25,692	27,193	28,727	29,632	30,575	31,931	31,742
Walton	40,990	43,270	46,052	47,472	51,167	54,218	56,199	57,318	58,264	58,046	57,982
Washington	21,069	21,516	21,702	21,987	22,534	23,255	23,179	23,876	24,307	25,600	25,109

2
N N
Ľ,
ñ
2
ē
d Fet
Q
Q
ŝ
Sce
8
HARTS; access;
in
Ĕ
Ŕ
\triangleleft
CHARTS
\cup
σ
<u>io</u>
S
Ť
- Florida
-
g
úr
õ
0. (Source
<u> </u>
0-2010
5
-20
5
Ō
00
, 2000
iy, 200
nty, 200
nty, 200
nty, 200
nty, 200
nty, 200
nty, 200
nty, 200
nty, 200
nty, 200
I County, 200
nty, 200
on by Year and County, 200
on by Year and County, 200
on by Year and County, 200
on by Year and County, 200
on by Year and County, 200
nty, 200
opulation by Year and County, 200
opulation by Year and County, 200
rida Population by Year and County, 200
lorida Population by Year and County, 200
rida Population by Year and County, 200
lorida Population by Year and County, 200
lorida Population by Year and County, 200
d) Florida Population by Year and County, 200
ued) Florida Population by Year and County, 200
ued) Florida Population by Year and County, 200
continued) Florida Population by Year and County, 200
ued) Florida Population by Year and County, 200
(Continued) Florida Population by Year and County, 200
continued) Florida Population by Year and County, 200
le A. (Continued) Florida Population by Year and County, 200
ble A. (Continued) Florida Population by Year and County, 200
A. (Continued) Florida Population by Year and County, 200

Table B. Florida Population by Age Group, 2010				
Age Group	2010			
<1	210,745			
1-4	925,626			
5-9	1,132,721			
10-14	1,133,067			
15-19	1,193,291			
20-24	1,209,878			
25-34	2,282,290			
35-44	2,384,476			
45-54	2,669,237			
55-64	2,323,781			
65-74	1,630,499			
75-84	1,151,917			
85+	541,267			
Total	18,788,795			

Tab	le (Population	by
-		Ger	nder	, 2010	
	-				

Gender	2010
Female	9,575,127
Male	9,213,668
Total	18,788,795

Table D. Florida Population by Race, Aggregated to White and Non-White, 2010

2010
15,135,817
3,106,660
546,318
18,788,795

List of Reportable Diseases and Conditions in Florida, 2010

Section 381.0031 (1) (2), Florida Statutes, provides that "Any practitioner, licensed in Florida to practice medicine, osteopathic medicine, chiropractic, naturopathy, or veterinary medicine, who 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, this statute provides that "Periodically the Department shall issue a list of diseases determined by it to be of public health significance...and shall furnish a copy of said list to the practitioners...". This list reflects diseases and conditions that were reportable in 2010. Updates may be made in future years; Annual Morbidity Reports for subsequent years will reflect changes in the list.

Acquired Immune Deficiency Syndrome (AIDS) Amebic encephalitis Anthrax Arsenic Poisoning Botulism Brucellosis California serogroup virus (neuroinvasive and non-neuroinvasive) Campylobacteriosis Cancer (except non-melanoma skin cancer, and including benign and borderline intracranial and CNS tumors) Carbon Monoxide Poisoning Chancroid Chlamydia Cholera Ciguatera fish poisoning (Ciguatera) Congenital anomalies Conjunctivitis (in neonates < 14 days old) Creutzfeldt-Jakob Disease (CJD) Cryptosporidiosis Cyclosporiasis Dengue Diphtheria Eastern equine encephalitis virus disease (neuroinvasive and nonneuroinvasive) Ehrlichiosis/Anaplasmosis [human granulocytic (HGA), human monocytic (HME), human other or unspecified agent] Encephalitis, other (non-arboviral) Enteric diseases due to: Escherichia coli, O157:H7 Escherichia coli, other pathogenic E. coli including enterotoxigenic, invasive, pathogenic, hemorrhagic, aggregative strains and shiga toxin positive strains Giardiasis Glanders Gonorrhea Granuloma Inguinale Haemophilus influenzae (meningitis and invasive disease) Hansen's Disease (Leprosy) Hantavirus infection Hemolytic Uremic Syndrome Hepatitis A Hepatitis B, C, D, E, and G Hepatitis B surface antigen (HBsAg) positive in a pregnant woman or a child < 24 months of age Herpes Simplex Virus (HSV) [in Infants to 6 months of age; anogenital in children < 12 yrs] Human Immunodeficiency Virus (HIV) Human papillomavirus (HPV) [in children < 6 years; anogenital in children < 12 yrs, cancer associated strains] Influenza due to novel or pandemic strains Influenza-associated pediatric mortality (in persons aged < 18 yrs) Lead Poisoning Legionellosis Leptospirosis Listeriosis Lyme Disease Lymphogranuloma Venereum (LGV)

Malaria Measles (Rubeola) Melioidosis Meningitis (bacterial, cryptococcal, mycotic) Meningococcal Disease (includes meningitis and meningococcemia) Mercury Poisoning Mumps Neurotoxic Shellfish Poisoning Pertussis Pesticide-related illness and injury Plaque Poliomyelitis Psittacosis (Ornithosis) Q Fever Rabies (human, animal) Rabies (possible exposure) Ricin toxicity Rocky Mountain spotted fever Rubella (including congenital) St. Louis encephalitis (SLE) virus disease (neuroinvasive and nonneuroinvasive) Salmonellosis Saxitoxin Poisoning (including paralytic shellfish poisoning) Severe Acute Respiratory Syndrome-associated Coronavirus (SARS-CoV) disease Shigellosis Smallpox Staphylococcus aureus (with intermediate or full resistance to vancomycin, VISA, VRSA) Staphylococcus aureus, methicilin resistant (MRSA), community associated mortalities Staphylococcus enterotoxin B Streptococcal Disease (invasive, Group A) Streptococcus pneumoniae (invasive disease) Syphilis Tetanus Toxoplasmosis (acute) Trichinosis Tuberculosis Tularemia Typhoid Fever Typhus Fever (epidemic and endemic) Vaccinia Disease Varicella mortality Venezuelan equine encephalitis virus disease (neuroinvasive and non-neuroinvasive) Vibriosis (Vibrio infections) Viral hemorrhagic fevers (Ebola, Marburg, Lassa, Machupo) West Nile virus disease (neuroinvasive and non-neuroinvasive) Western equine encephalitis virus disease (neuroinvasive and nonneuroinvasive) Yellow Fever Any disease outbreak Any grouping or clustering

Selected Florida Department of Health Contacts

Division of Disease Control

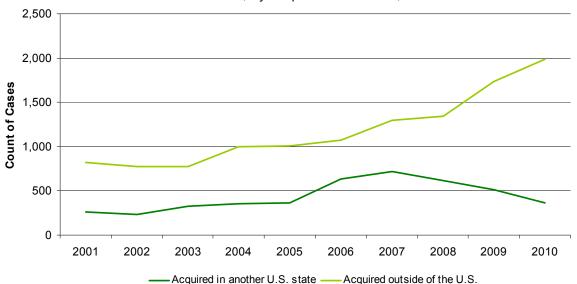
Bureau of Epidemiology	(850) 245-4401 (accessible 24/7/365)
Bureau of Immunization	(850) 245-4342
Bureau of HIV/AIDS	(850) 245-4334
Bureau of Sexually Transmitted Disease Prevention and Control	(850) 245-4303
Bureau of Tuberculosis and Refugee Health	(850) 245-4350
Division of Environmental Health	

Bureau of Environmental Public Health Medicine (850) 245-4277

Travel-Related Illness in Florida, Snapshot of Recent Trends

Reports of selected diseases and conditions are received by the Florida Department of Health from physicians and laboratories. Case reports for acute diseases excluding HIV, STDs, and tuberculosis (TB) are entered into the state's reportable disease surveillance system, Merlin, by county health departments. Data included in the summary below is limited to cases reported in Merlin. This is a snapshot of all cases aggregated at the state level with a focus on where the disease was acquired. The proportion of illnesses that are acquired in particular states, countries, or jurisdictions differs by disease and is often discussed more in-depth in the individual disease summaries included in Section 2 of this report. Additionally, importation of disease is a significant factor in the epidemiology of TB. TB is not discussed in this snapshot but is covered extensively in the TB summary contained in Section 2.

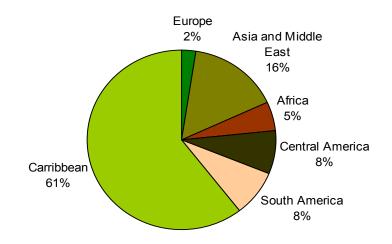
With the ease of international travel, as well as the large number of tourists that visit Florida each year, there is significant potential for the importation of disease to the state. Residents and non-residents alike are capable of introducing infectious diseases into Florida's population. Over the past ten years, the recorded number of cases of reportable disease where illness was determined to be acquired outside of Florida has risen steadily. However, when summarized by illness acquired domestically versus internationally it is apparent that the dramatic increase in non-Florida acquired illness is due to international travel (Figure 1). Illness associated with disease acquired in the U.S., but not in Florida has decreased over the past four years.

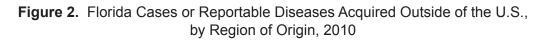




Common categories of travel include trips for pleasure and business. In addition to Florida residents who travel for pleasure or business, another category of international travel are those who travel to visit with friends and relatives (VFR). These populations are likely Florida residents whose family still resides in their country of origin. When visiting with family and friends, VFRs are likely to eat traditional foods, such as unpasteurized dairy products, which can pose a risk to their health. Additionally, VFRs are less likely to take certain precautions, such as taking anti-malarial medications, when traveling home because of a perceived lack of risk. Travel-related illness is also frequently associated with immigration. Florida is consistently ranked as one of the top six states in the U.S. Immigrants are screened for many infectious and chronic diseases upon entry into the country. All cases of reportable diseases are referred to the county health department and then reported as Florida residents.

For cases of reportable diseases captured in Merlin, in addition to the import status of the case, information about the country of origin is also entered. There were a total of 1,984 cases of a reportable disease reported in 2010 which were listed as being acquired outside of the U.S. The highest proportion of cases listed as acquired outside of the U.S. were imported from Cuba (N=640), Haiti (N=253), Puerto Rico (N=54), China (N=50), India (N=45), Mexico (N=45), and the Dominican Republic (N=41). Figure 2 groups countries into larger geographic regions.





Another area of significant morbidity are cases of infectious disease that are imported into Florida by a person who is traveling within the state but whose residence is outside of Florida. Because cases of reportable disease are classified according to the person's state of residence, cases of disease in travelers to Florida are not reflected in Florida's statistics and are not included in the other sections of this Annual Morbidity Statistics Report. It is estimated that over 82 million people visited Florida in 2010. Of those, approximately 71 million were from within the U.S., three million were from Canada, and eight million were from other international locations. These travelers may bring with them any number of infectious diseases. When ill individuals are identified, it is essential for public health to respond quickly and effectively to prevent continued transmission of the disease among other travelers as well as Florida residents. Measles is an example of a disease which commonly poses a threat to Florida residents from international travelers. Measles has become endemic in the United Kingdom and several other countries in Europe due to decreased numbers of individuals receiving vaccine.

Diseases which are commonly imported in travelers which require immediate public health action include measles, malaria, dengue, and *Brucella (melitensis* and *abortus* species) infections, to name a few. Specifically, malaria and dengue infections necessitate pesticide applications in the areas where the infected persons were near competent vectors. This reduces the risk that these diseases will be re-introduced to the state or to new areas of the state. For *Brucella melitensis* or *abortus* infections, it is essential to identify the travel history of individuals as well as establish other exposure information including livestock and unpasteurized cheese exposures. *Brucella melitensis* and *abortus* infections have been eliminated in Florida and would cause significant economic impact to commercial livestock if they were re-introduced in the state. Several examples of imported disease investigations are discussed in-depth in Section 5: Summary of Notable Outbreaks and Case Investigations. These summaries include cholera cases imported from Haiti after the January 2010 earthquake, an investigation of malaria in airline staff, which was acquired in Africa during a series of layovers, as well as measles in a traveler returning from Europe. However, the summaries in Section 5 do not cover all investigations that were conducted within the state associated with disease importation.

On January 12, 2010, an earthquake occurred near the Haitian capital of Port-au-Prince, creating enormous devastation. Florida's close proximity to Haiti resulted in >22,000 people entering Florida from Haiti as part of federal repatriation and humanitarian parolee efforts. Travel between Florida and Haiti is common and reportable diseases introduced by travelers returning from Haiti are identified every year. Because of the anticipated large post-earthquake influx of persons into Florida from Haiti, Florida enhanced surveillance efforts. Merlin was used to document cases of reportable diseases in people coming to Florida who were in Haiti at the time of or after the earthquake, regardless of residency. The Outbreak Module within Merlin was used to capture data on Haiti travel, medical condition upon entry into the U.S., and citizenship. During the post-earthquake period, 51 cases in Florida residents and 31 cases in non-Florida residents were recorded. Please see Section 5 under "Haiti" for a detailed breakdown of the diseases captured in Merlin related to the Haiti earthquake.

References

Florida Research Fact Sheet, available at: http://media.visitflorida.org/research.php.

Brucellosis Fact Sheet, Bureau of Environmental Public Health Medicine, available at: http://www.myfloridaeh.com/medicine/arboviral/Zoonoses/Zoonotic-brucellosis.html.

Migration Policy Institute. Immigration Facts. Published October 2004. Available at: http://www.migrationpolicy.org/Factsheet_102904.pdf.