

OHIO DEPARTMENT OF HEALTH

ANNUAL SUMMARY OF INFECTIOUS DISEASES

OHIO

2008

REPORTED INCIDENCE OF SELECTED
NOTIFIABLE DISEASES



PREPARED AND DISTRIBUTED BY:

BUREAU OF DISEASE INVESTIGATION AND
SURVEILLANCE

DIVISION OF PREVENTION

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INTRODUCTION

The *Annual Summary of Infectious Diseases, Ohio, 2008* provides an overview of the incidence of selected notifiable infectious diseases. The report includes tables of disease by year of onset, age group, sex, month of onset, county of residence, *Salmonella* serotypes and meningococcal disease serogroups. In addition, there are profiles of selected diseases, outbreaks and selected health events detected in EpiCenter that feature recent epidemiologic trends.

The sources of these data are individual case and laboratory reports submitted to the Ohio Department of Health (ODH) by infection preventionists, health care providers, laboratories and city, county and combined health districts throughout the state and entered into the Ohio Disease Reporting System (ODRS). Data reflect disease incidence for Ohio residents only, but include diseases (malaria, for example) acquired by Ohio residents while traveling out of state or overseas.

This summary includes confirmed, probable and suspected cases. For all diseases, the case criteria used are those provided in:

- Centers for Disease Control and Prevention. Case Definitions for Infectious Conditions Under Public Health Surveillance. *Morbidity and Mortality Weekly Report (MMWR)*. 1997; 46 (No. RR-10) available online at <http://www.cdc.gov/mmwr/PDF/rr/rr4610.pdf>,
- The ODH Infectious Disease Control Manual (IDCM) available online at <http://www.odh.ohio.gov/pdf/IDCM/sect3TOC.pdf> and
- The Centers for Disease Control and Prevention (CDC) Division of Integrated Surveillance Systems and Services' nationally notifiable infectious disease case definitions available online at <http://www.cdc.gov/ncphi/diss/nndss/phs/infdis2008.htm>.

HIV/AIDS, sexually transmitted diseases and tuberculosis surveillance data are not included in this report. Please refer to the ODH Web site for summary reports of these diseases as well as previous annual summaries at <http://www.odh.ohio.gov/healthStats/disease/id1.aspx>.

Thanks to all Ohio infection preventionists, health care providers, laboratories and local health departments for their hard work and dedication to reporting infectious diseases in the most accurate, complete and timely manner. These efforts are essential in protecting and improving the health of all Ohioans.

Questions or comments regarding this annual summary may be directed to the Bureau of Disease Investigation and Surveillance at (614) 995-5599.

OHIO NOTIFIABLE DISEASES

Ohio Administrative Code 3701-3-02 and 3701-3-13, effective Jan. 1, 2006

As of Jan. 1, 2006 through Dec. 31, 2008, the following infectious diseases were reportable to the Ohio Department of Health:

Class A(1): Diseases of major public health concern because of the severity of disease or the potential for epidemic spread. Report by telephone immediately upon recognition of a case, a suspected case or a positive laboratory result.

- Anthrax
- Botulism, foodborne
- Cholera
- Diphtheria
- Measles
- Meningococcal disease
- Plague
- Rabies, human
- Rubella, not congenital
- Severe acute respiratory syndrome
- Smallpox
- Tularemia
- Viral hemorrhagic fever
- Yellow fever
- Any unexpected pattern of cases, suspected cases, deaths or increased incidence of any other disease of major public health concern because of the severity of disease or potential for epidemic spread, which may indicate a newly recognized infectious agent, outbreak, epidemic, related public health hazard or act of bioterrorism

Class A(2): Diseases of public health concern needing a timely response because of the potential for epidemic spread. Report by the end of the next business day after the existence of a case, a suspected case or a positive laboratory result.

- Arboviral neuroinvasive and non-neuroinvasive disease: Eastern equine encephalitis, LaCrosse encephalitis, Powassan encephalitis, St. Louis encephalitis, West Nile virus, Western equine encephalitis, other arthropod-borne disease
- Chancroid
- Cyclosporiasis
- Coccidioidomycosis
- Dengue
- Enterohemorrhagic *Escherichia coli*
- Foodborne outbreaks
- Granuloma inguinale
- *Haemophilus influenzae*, invasive disease
- Hantavirus
- Hemolytic uremic syndrome
- Hepatitis A
- Hepatitis B, perinatal
- Influenza-associated pediatric mortality
- Legionellosis
- Listeriosis
- Lymphogranuloma venereum
- Malaria
- Meningitis, aseptic
- Mumps
- Pertussis
- Poliomyelitis
- Psittacosis
- Q fever
- Rubella, congenital
- Salmonellosis
- Shigellosis
- *Staphylococcus aureus*, vancomycin resistant or intermediate resistant
- Syphilis
- Tetanus
- Tuberculosis
- Typhoid fever
- Waterborne disease outbreaks

OHIO NOTIFIABLE DISEASES

Ohio Administrative Code 3701-3-02 and 3701-3-13, effective Jan. 1, 2006

Class A(3): Diseases of significant public health concern. Report by the end of the work week after the existence of a case, a suspected case or a positive laboratory result.

- Amebiasis
- Botulism, infant
- Botulism, wound
- Brucellosis
- Campylobacteriosis
- Chlamydia infections
- Creutzfeldt-Jakob disease
- Cryptosporidiosis
- Cytomegalovirus, congenital
- Ehrlichiosis
- Encephalitis, other viral
- Encephalitis, post infection
- Giardiasis
- Gonococcal infections
- Hepatitis B, non-perinatal
- Hepatitis C
- Hepatitis D
- Hepatitis E
- Herpes, congenital
- Kawasaki disease
- Leprosy
- Leptospirosis
- Lyme disease
- Meningitis, other bacterial
- Mycobacterial disease, other than tuberculosis
- Reye syndrome
- Rheumatic fever
- Rocky Mountain spotted fever
- Streptococcal disease, group A, invasive
- Streptococcal disease, group B, in newborn
- Streptococcal toxic shock syndrome
- *Streptococcus pneumoniae*, invasive disease
- Toxic shock syndrome
- Toxoplasmosis, congenital
- Trichinosis
- Typhus fever
- Varicella
- Vibriosis
- Yersiniosis

Class B: The number of cases is to be reported by the close of each working week.

- Influenza

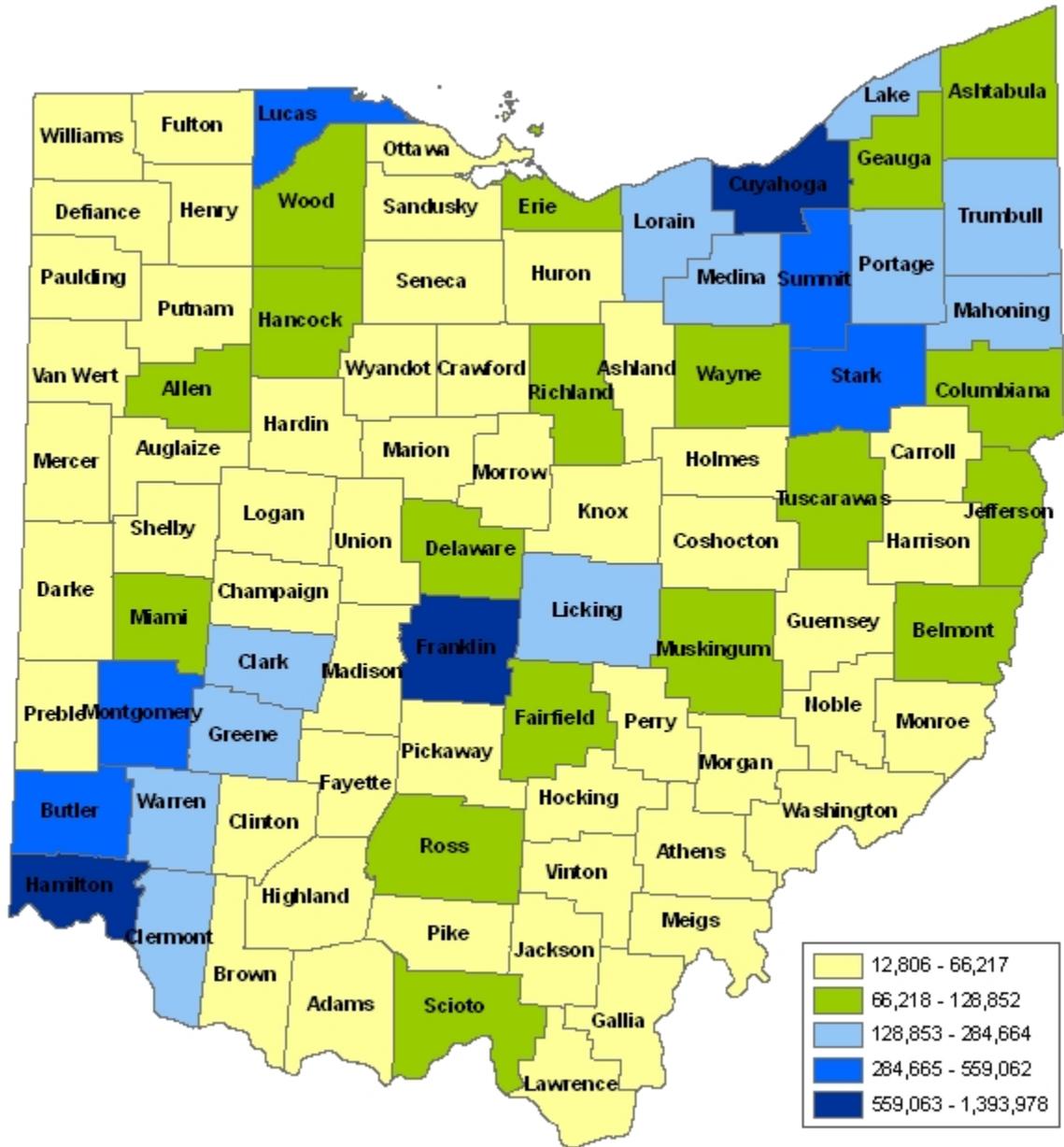
Class C: Report an outbreak, unusual incidence or epidemic by the end of the next working day.

- Blastomycosis
- Conjunctivitis, acute
- Histoplasmosis
- Nosocomial infections
- Outbreak, unusual incidence or epidemic of other infectious diseases of known etiology not categorized as class A, class B or class C
- Pediculosis
- Scabies
- Sporotrichosis
- Staphylococcal skin infections
- Toxoplasmosis

Cases of AIDS, AIDS-related conditions, HIV infection, perinatal exposure to HIV and CD4 T-lymphocyte counts less than 200 or 14 percent must be reported on forms and in a manner prescribed by the director.

For the current list (effective Jan. 1, 2009) of reportable diseases in Ohio, please see page 4 at <http://www.odh.ohio.gov/pdf/IDCM/intro1.pdf> or OAC 3701-3-02 and 3701-3-13.

OHIO COUNTY POPULATION MAP



Source of population data: 2000 U.S. Census.

TABLES OF SELECTED NOTIFIABLE DISEASES

BY YEAR OF ONSET TABLE

Pages 6-8

This table displays case counts and rates for five years of data in addition to the mean and median counts and rates during 2004-2008. Means and medians were calculated only when five years of data were available. Population data come from the U.S. Census midpoint estimates for each year. Data are by year of onset with the exception of acute hepatitis B, chronic hepatitis B, perinatal hepatitis B, acute hepatitis C, past or present hepatitis C, outbreaks and varicella. Hepatitis B and C and outbreaks are shown by date of report for all years, while varicella is shown by date of report for 2004-2005 only. Data in previous annual summaries 1992-2003 were by date of report.

BY AGE TABLE

Pages 9-12

This table provides case counts and rates by age group (in years) for 2008. Age refers to the patient's age at the earliest known date associated with the case. Population data come from the 2000 U.S. Census. Outbreak data are not included in this table because numbers indicate the number of outbreaks and do not reflect the individual cases involved.

BY SEX TABLE

Pages 13-14

This table contains case counts and rates by sex for 2008. Population data come from the 2000 U.S. Census. Outbreak data are not included in this table because numbers indicate the number of outbreaks and do not reflect the individual cases involved.

BY MONTH OF ONSET TABLE

Pages 15-18

This table presents case counts and percents by month of onset for 2008. Month refers to the month of symptom onset except for hepatitis B and C conditions and all outbreaks, which are by month of report, and for influenza-associated pediatric mortality, which is by month of death. Population data are not available by month, so rates were not calculated.

BY COUNTY OF RESIDENCE TABLE

Pages 19-44

This table displays case counts and rates by county for 2008. County refers to the patient's county of residence. If the county of residence is unknown, then the county in which the hospital, physician or local health department is located is used. Population data come from the 2000 U.S. Census.

SALMONELLA SEROTYPES TABLE

Pages 45-48

This table contains *Salmonella* case counts by serotype during 2004-2008. Serotypes, untyped serogroups and untyped/ungrouped isolates are provided. The bacteriology laboratory at ODH performs serotyping of *Salmonella* isolates.

MENINGOCOCCAL SEROGROUPS TABLE

Page 49

This table shows meningococcal disease case counts by serogroup during 2004-2008. The bacteriology laboratory at ODH performs serogrouping of *Neisseria meningitidis* isolates.

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY YEAR OF ONSET, OHIO, 2004-2008

GENERAL INFECTIOUS DISEASES	2004		2005		2006		2007		2008		MEDIAN		MEAN	
	N	Rate												
Amebiasis	11	0.1	17	0.1	14	0.1	33	0.3	34	0.3	17	0.1	22	0.2
Botulism	3	0.0	0	0.0	2	0.0	4	0.0	4	0.0	3	0.0	3	0.0
Foodborne	1	0.0	0	0.0	0	0.0	3	0.0	3	0.0	1	0.0	1	0.0
Infant*	2	*	0	*	2	*	1	*	1	*	1	*	1	*
Campylobacteriosis	1,222	10.7	1,174	10.2	1,129	9.8	1,083	9.4	1,215	10.6	1,174	10.2	1,165	10.2
Cholera	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0
Coccidioidomycosis*	-	-	-	-	8	0.1	11	0.1	14	0.1	-	-	-	-
Creutzfeldt-Jakob Disease (CJD)	11	0.1	10	0.1	15	0.1	10	0.1	5	0.0	10	0.1	10	0.1
Cryptosporidiosis	221	1.9	782	6.8	366	3.2	611	5.3	704	6.1	611	5.3	537	4.7
Cyclosporiasis	1	0.0	1	0.0	0	0.0	0	0.0	1	0.0	1	0.0	1	0.0
Cytomegalovirus (CMV), Congenital*	15	*	18	*	13	*	16	*	15	*	15	*	15	*
Encephalitis	40	0.3	26	0.2	40	0.3	29	0.3	15	0.1	29	0.3	30	0.3
Post Chickenpox	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	7	0.1	9	0.1	10	0.1	5	0.0	3	0.0	7	0.1	7	0.1
Primary Viral	32	0.3	17	0.1	30	0.3	24	0.2	12	0.1	24	0.2	23	0.2
<i>Escherichia coli</i> , Shiga Toxin-Producing	124	1.1	169	1.5	211	1.8	138	1.2	209	1.8	169	1.5	170	1.5
O157:H7	103	0.9	150	1.3	160	1.4	80	0.7	161	1.4	150	1.3	131	1.1
Not O157:H7	4	0.0	13	0.1	20	0.2	19	0.2	20	0.2	19	0.2	15	0.1
Unknown Serotype	17	0.1	6	0.1	31	0.3	39	0.3	28	0.2	28	0.2	24	0.2
Giardiasis	789	6.9	820	7.2	806	7.0	833	7.3	891	7.8	820	7.2	828	7.2
<i>Haemophilus influenzae</i> , Invasive Disease	108	0.9	107	0.9	93	0.8	114	1.0	128	1.1	108	0.9	110	1.0
Hemolytic Uremic Syndrome (HUS)	7	0.1	8	0.1	16	0.1	12	0.1	8	0.1	8	0.1	10	0.1
Herpes, Congenital*	13	*	6	*	*	*	*	*	*	*	*	*	*	*
Kawasaki Disease	51	0.4	55	0.5	35	0.3	38	0.3	27	0.2	38	0.3	41	0.4
Legionellosis	211	1.8	206	1.8	237	2.1	231	2.0	248	2.2	231	2.0	227	2.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	1	0.0	2	0.0	0	0.0	1	0.0
Listeriosis	38	0.3	36	0.3	43	0.4	33	0.3	29	0.3	36	0.3	36	0.3
Meningitis, Aseptic	1,407	12.3	1,469	12.8	905	7.9	816	7.1	770	6.7	905	7.9	1,073	9.4
Meningitis, Other Bacterial*	90	0.8	45	0.4	68	0.6	49	0.4	59	0.5	59	0.5	62	0.5
Meningococcal Disease	63	0.5	45	0.4	50	0.4	32	0.3	42	0.4	45	0.4	46	0.4
Rheumatic Fever	1	0.0	1	0.0	0	0.0	4	0.0	2	0.0	1	0.0	2	0.0
Salmonellosis	1,195	10.4	1,343	11.7	1,299	11.3	1,323	11.5	1,378	12.0	1,323	11.5	1,308	11.4
Shigellosis	166	1.4	140	1.2	200	1.7	1,277	11.1	1,954	17.0	200	1.7	747	6.5
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	3	0.0	2	0.0	4	0.0	2	0.0	2	0.0
Streptococcal Disease, Group A, Invasive	204	1.8	199	1.7	245	2.1	226	2.0	265	2.3	226	2.0	228	2.0
Streptococcal Disease, Group B, in Newborn*	54	*	61	*	63	*	49	*	51	*	54	*	56	*
Streptococcal Toxic Shock Syndrome (STSS)	20	0.2	17	0.1	18	0.2	12	0.1	12	0.1	17	0.1	16	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	1,048	9.1	1,221	10.7	1,306	11.4	1,155	10.1	1,240	10.8	1,221	10.7	1,194	10.4
Ages < 5 Years*	120	*	134	*	144	*	117	*	123	*	123	*	128	*
Drug Resistant, Ages 5+ Years*	276	*	351	*	396	*	302	*	338	*	338	*	333	*
Drug Susceptible, Ages 5+ Years*	652	*	736	*	766	*	736	*	779	*	736	*	734	*
Toxic Shock Syndrome (TSS)	7	0.1	4	0.0	7	0.1	2	0.0	4	0.0	4	0.0	5	0.0
Typhoid Fever	6	0.1	2	0.0	11	0.1	11	0.1	10	0.1	10	0.1	8	0.1
Vibriosis	13	0.1	6	0.1	5	0.0	6	0.1	9	0.1	6	0.1	8	0.1
<i>Vibrio parahaemolyticus</i> Infection	4	0.0	2	0.0	2	0.0	3	0.0	4	0.0	3	0.0	3	0.0
<i>Vibrio vulnificus</i> Infection	2	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Other (Not Cholera)	7	0.1	4	0.0	2	0.0	3	0.0	5	0.0	4	0.0	4	0.0
Yersiniosis	61	0.5	45	0.4	41	0.4	52	0.5	48	0.4	48	0.4	49	0.4
SUB-TOTAL	7,200	62.8	8,033	70.1	7,249	63.2	8,214	71.6	9,397	81.8	8,033	70.1	8,019	69.9

N = number of cases reported.

Rates use U.S. Census midpoint estimates and are per 100,000 population.

n/a = not applicable.

(-) indicates a condition not reportable at that time.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY YEAR OF ONSET, OHIO, 2004-2008

HEPATITIS	2004		2005		2006		2007		2008		MEDIAN		MEAN	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	50	0.4	51	0.4	49	0.4	69	0.6	54	0.5	51	0.4	55	0.5
Hepatitis B*	444	3.9	995	8.7	512	4.5	2,551	22.2	1,681	14.6	995	8.7	1,237	10.8
Acute*	115	1.0	136	1.2	126	1.1	124	1.1	131	1.1	126	1.1	126	1.1
Chronic*	329	2.9	858	7.5	386	3.4	2,427	21.2	1,549	13.5	858	7.5	1,110	9.7
Perinatal Infection*	0	*	1	*	0	*	0	*	1	*	0	*	0	*
Hepatitis C*	5,397	47.1	8,592	74.9	8,080	70.4	11,338	98.9	9,112	79.3	8,592	74.9	8,504	74.1
Acute*	6	0.1	9	0.1	7	0.1	19	0.2	41	0.4	9	0.1	16	0.1
Past or Present*	5,391	47.0	8,583	74.9	8,073	70.3	11,319	98.7	9,071	79.0	8,583	74.9	8,487	74.0
Hepatitis E	1	0.0	4	0.0	1	0.0	3	0.0	2	0.0	2	0.0	2	0.0
SUB-TOTAL	5,892	51.4	9,642	84.1	8,642	75.3	13,961	121.8	10,849	94.5	9,642	84.1	9,797	85.4

OUTBREAKS*	2004		2005		2006		2007		2008		MEDIAN		MEAN	
	N	Rate												
Foodborne*	90	n/a	79	n/a	115	n/a	87	n/a	92	n/a	90	n/a	93	n/a
Waterborne*	4	n/a	5	n/a	5	n/a	9	n/a	4	n/a	5	n/a	5	n/a
Unspecified*	35	n/a	4	n/a	9	n/a	28	n/a	69	n/a	28	n/a	29	n/a
Conjunctivitis*	0	n/a	1	n/a	0	n/a	2	n/a	1	n/a	1	n/a	1	n/a
Nosocomial*	0	n/a	0	n/a	4	n/a	8	n/a	12	n/a	4	n/a	5	n/a
Pediculosis*	0	n/a	0	n/a	0	n/a	1	n/a	4	n/a	0	n/a	1	n/a
Scabies*	0	n/a	7	n/a	8	n/a	18	n/a	14	n/a	8	n/a	9	n/a
Staphylococcal Skin Infections*	0	n/a	10	n/a	18	n/a	39	n/a	21	n/a	18	n/a	18	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	30	n/a	70	n/a	117	n/a	73	n/a	70	n/a	58	n/a
SUB-TOTAL	129	n/a	136	n/a	229	n/a	309	n/a	290	n/a	229	n/a	219	n/a

VACCINE-PREVENTABLE	2004		2005		2006		2007		2008		MEDIAN		MEAN	
	N	Rate												
Influenza-Associated Pediatric Mortality*	-	-	2	0.0	1	0.0	2	0.0	1	0.0	-	-	-	-
Measles	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Imported	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Indigenous	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	10	0.1	8	0.1	45	0.4	26	0.2	17	0.1	17	0.1	21	0.2
Pertussis	885	7.7	1,094	9.5	594	5.2	837	7.3	628	5.5	837	7.3	808	7.0
Tetanus	0	0.0	1	0.0	3	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Varicella*	1,610	14.1	2,021	17.6	8,859	77.2	4,364	38.1	2,392	20.8	2,392	20.8	3,849	33.5
SUB-TOTAL	2,505	21.9	3,129	27.3	9,502	82.8	5,229	45.6	3,038	26.4	3,129	27.3	4,681	40.8

N = number of cases reported.

Rates use U.S. Census midpoint estimates and are per 100,000 population.

n/a = not applicable.

(-) indicates a condition not reportable at that time.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY YEAR OF ONSET, OHIO, 2004-2008

ZOOSES	2004		2005		2006		2007		2008		MEDIAN		MEAN	
	N	Rate												
Brucellosis	4	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Dengue	4	0.0	11	0.1	9	0.1	11	0.1	7	0.1	9	0.1	8	0.1
Ehrlichiosis/Anaplasmosis	0	0.0	3	0.0	6	0.1	3	0.0	12	0.1	3	0.0	5	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	1	0.0	5	0.0	2	0.0	1	0.0	1	0.0	2	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	2	0.0	1	0.0	1	0.0	11	0.1	1	0.0	3	0.0
LaCrosse Encephalitis*	26	0.2	15	0.1	11	0.1	9	0.1	6	0.1	11	0.1	13	0.1
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
Lyme Disease	50	0.4	42	0.4	36	0.3	34	0.3	45	0.4	42	0.4	41	0.4
Malaria	30	0.3	29	0.3	28	0.2	28	0.2	31	0.3	29	0.3	29	0.3
Q Fever	2	0.0	2	0.0	3	0.0	2	0.0	1	0.0	2	0.0	2	0.0
Rabies, Animal*	77	n/a	70	n/a	59	n/a	86	n/a	64	n/a	70	n/a	71	n/a
Rocky Mountain Spotted Fever (RMSF)	11	0.1	20	0.2	26	0.2	9	0.1	31	0.3	20	0.2	19	0.2
St. Louis Encephalitis*	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Toxoplasmosis, Congenital*	1	*	0	*	1	*	1	*	0	*	1	*	1	*
Trichinosis	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhus Fever, Murine	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus*	12	0.1	61	0.5	48	0.4	23	0.2	15	0.1	23	0.2	32	0.3
SUB-TOTAL	219	1.2	257	1.6	229	1.5	206	1.0	213	1.3	219	1.3	225	1.3
GRAND TOTAL	15,945	137.4	21,197	183.1	25,851	222.7	27,919	240.0	23,787	204.0	23,787	204.0	22,940	197.4
POPULATION	11,459,011		11,464,042		11,478,006		11,466,917		11,485,910		11,466,917		11,470,777	

N = number of cases reported.

Rates use U.S. Census midpoint estimates and are per 100,000 population.

n/a = not applicable.

(-) indicates a condition not reportable at that time.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2008

GENERAL INFECTIOUS DISEASES	0-4		5-9		10-14		15-19		20-29		30-39	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	2	0.2	1	0.1	1	0.1	7	0.5	3	0.2
Botulism	1	0.1	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0
Infant*	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Campylobacteriosis	149	19.7	54	6.6	44	5.3	81	9.9	131	8.9	141	8.5
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	2	0.1
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	211	27.9	90	11.0	66	8.0	49	6.0	80	5.5	71	4.3
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	15	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Encephalitis	2	0.3	1	0.1	1	0.1	2	0.2	0	0.0	2	0.1
Post Other Infection*	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Primary Viral	2	0.3	1	0.1	0	0.0	2	0.2	0	0.0	2	0.1
<i>Escherichia coli</i> , Shiga Toxin-Producing	40	5.3	23	2.8	17	2.1	18	2.2	38	2.6	11	0.7
O157:H7	34	4.5	17	2.1	12	1.4	17	2.1	29	2.0	7	0.4
Not O157:H7	2	0.3	4	0.5	3	0.4	1	0.1	1	0.1	4	0.2
Unknown Serotype	4	0.5	2	0.2	2	0.2	0	0.0	8	0.5	0	0.0
Giardiasis	208	27.6	117	14.3	60	7.2	48	5.9	82	5.6	80	4.8
<i>Haemophilus influenzae</i> , Invasive Disease	21	2.8	3	0.4	1	0.1	1	0.1	6	0.4	4	0.2
Hemolytic Uremic Syndrome (HUS)	4	0.5	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0
Kawasaki Disease	20	2.6	6	0.7	1	0.1	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	0	0.0	0	0.0	1	0.1	3	0.2	15	0.9
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	5	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	183	24.2	30	3.7	48	5.8	47	5.8	138	9.4	103	6.2
Meningitis, Other Bacterial*	8	1.1	1	0.1	0	0.0	2	0.2	4	0.3	11	0.7
Meningococcal Disease	12	1.6	2	0.2	3	0.4	3	0.4	1	0.1	3	0.2
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0
Salmonellosis	263	34.8	105	12.9	67	8.1	89	10.9	140	9.6	142	8.5
Shigellosis	908	120.3	462	56.6	113	13.7	45	5.5	162	11.1	122	7.3
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	19	2.5	8	1.0	5	0.6	2	0.2	17	1.2	27	1.6
Streptococcal Disease, Group B, in Newborn*	51	6.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	2	0.2	0	0.0	0	0.0	1	0.1	4	0.2
<i>Streptococcus pneumoniae</i> , Invasive Disease	123	16.3	29	3.6	14	1.7	12	1.5	35	2.4	64	3.8
Ages < 5 Years*	123	16.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Drug Resistant, Ages 5+ Years*	0	0.0	9	1.1	4	0.5	2	0.2	13	0.9	20	1.2
Drug Susceptible, Ages 5+ Years*	0	0.0	20	2.4	10	1.2	10	1.2	22	1.5	44	2.6
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	1	0.1	2	0.2	0	0.0	0	0.0
Typhoid Fever	1	0.1	0	0.0	2	0.2	1	0.1	5	0.3	0	0.0
Vibriosis	1	0.1	1	0.1	1	0.1	1	0.1	0	0.0	2	0.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Other (Not Cholera)	1	0.1	1	0.1	1	0.1	1	0.1	0	0.0	1	0.1
Yersiniosis	14	1.9	4	0.5	0	0.0	3	0.4	3	0.2	2	0.1
SUB-TOTAL	2,259	299.2	940	115.1	445	53.8	412	50.4	855	58.4	809	48.5

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2008

HEPATITIS	0-4		5-9		10-14		15-19		20-29		30-39	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	3	0.4	1	0.1	4	0.5	6	0.7	9	0.6	5	0.3
Hepatitis B*	17	2.3	13	1.6	26	3.1	54	6.6	349	23.8	414	24.8
Acute*	0	0.0	0	0.0	1	0.1	0	0.0	26	1.8	42	2.5
Chronic*	16	2.1	13	1.6	25	3.0	54	6.6	323	22.1	372	22.3
Perinatal Infection*	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis C*	24	3.2	9	1.1	4	0.5	131	16.0	1,321	90.2	1,313	78.7
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	13	0.9	7	0.4
Past or Present*	24	3.2	9	1.1	4	0.5	131	16.0	1,308	89.3	1,306	78.3
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0
SUB-TOTAL	44	5.8	23	2.8	34	4.1	191	23.4	1,680	114.7	1,732	103.8

VACCINE-PREVENTABLE

Influenza-Associated Pediatric Mortality*	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	2	0.3	4	0.5	1	0.1	4	0.5	0	0.0	1	0.1
Pertussis	163	21.6	163	20.0	158	19.1	33	4.0	21	1.4	27	1.6
Varicella*	295	39.1	1,204	147.5	725	87.6	101	12.4	45	3.1	12	0.7
SUB-TOTAL	460	60.9	1,372	168.1	884	106.8	138	16.9	66	4.5	40	2.4

ZOOZOSES

Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	1	0.1	1	0.1	0	0.0	3	0.2
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	3	0.2
LaCrosse Encephalitis*	1	0.1	4	0.5	1	0.1	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Lyme Disease	0	0.0	3	0.4	6	0.7	5	0.6	8	0.5	4	0.2
Malaria	3	0.4	1	0.1	2	0.2	3	0.4	10	0.7	3	0.2
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	2	0.2	0	0.0	1	0.1	4	0.3	6	0.4
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	3	0.2
SUB-TOTAL	4	0.5	10	1.2	10	1.2	10	1.2	23	1.6	21	1.3

GRAND TOTAL	2,767	366.5	2,345	287.3	1,373	165.9	751	91.9	2,624	179.2	2,602	156.0
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POPULATION	754,930		816,346		827,811		816,868		1,464,510		1,668,083	
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2008

GENERAL INFECTIOUS DISEASES	40-49		50-59		60 +		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	9	0.5	6	0.5	5	0.3	0	n/a	34	0.3
Botulism	0	0.0	0	0.0	2	0.1	0	n/a	4	0.0
Foodborne	0	0.0	0	0.0	2	0.1	0	n/a	3	0.0
Infant*	0	0.0	0	0.0	0	0.0	0	n/a	1	0.1
Campylobacteriosis	185	10.5	196	15.3	234	11.9	0	n/a	1,215	10.7
Coccidioidomycosis*	2	0.1	4	0.3	5	0.3	0	n/a	14	0.1
Creutzfeldt-Jakob Disease (CJD)	1	0.1	0	0.0	4	0.2	0	n/a	5	0.0
Cryptosporidiosis	41	2.3	37	2.9	57	2.9	2	n/a	704	6.2
Cyclosporiasis	1	0.1	0	0.0	0	0.0	0	n/a	1	0.0
Cytomegalovirus (CMV), Congenital*	0	0.0	0	0.0	0	0.0	0	n/a	15	2.0
Encephalitis	1	0.1	1	0.1	5	0.3	0	n/a	15	0.1
Post Other Infection*	0	0.0	0	0.0	2	0.1	0	n/a	3	0.0
Primary Viral	1	0.1	1	0.1	3	0.2	0	n/a	12	0.1
<i>Escherichia coli</i> , Shiga Toxin-Producing	14	0.8	18	1.4	29	1.5	1	n/a	209	1.8
O157:H7	7	0.4	12	0.9	26	1.3	0	n/a	161	1.4
Not O157:H7	3	0.2	0	0.0	2	0.1	0	n/a	20	0.2
Unknown Serotype	4	0.2	6	0.5	1	0.1	1	n/a	28	0.2
Giardiasis	115	6.5	83	6.5	98	5.0	0	n/a	891	7.8
<i>Haemophilus influenzae</i> , Invasive Disease	6	0.3	16	1.2	70	3.6	0	n/a	128	1.1
Hemolytic Uremic Syndrome (HUS)	0	0.0	1	0.1	0	0.0	0	n/a	8	0.1
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	n/a	27	0.2
Legionellosis	38	2.2	59	4.6	132	6.7	0	n/a	248	2.2
Leprosy (Hansen's Disease)	1	0.1	0	0.0	1	0.1	0	n/a	2	0.0
Listeriosis	1	0.1	1	0.1	22	1.1	0	n/a	29	0.3
Meningitis, Aseptic	93	5.3	61	4.7	65	3.3	2	n/a	770	6.8
Meningitis, Other Bacterial*	6	0.3	15	1.2	12	0.6	0	n/a	59	0.5
Meningococcal Disease	5	0.3	1	0.1	12	0.6	0	n/a	42	0.4
Rheumatic Fever	0	0.0	1	0.1	0	0.0	0	n/a	2	0.0
Salmonellosis	161	9.2	150	11.7	256	13.0	5	n/a	1,378	12.1
Shigellosis	65	3.7	48	3.7	27	1.4	2	n/a	1,954	17.2
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	4	0.2	0	n/a	4	0.0
Streptococcal Disease, Group A, Invasive	37	2.1	40	3.1	109	5.6	1	n/a	265	2.3
Streptococcal Disease, Group B, in Newborn*	0	0.0	0	0.0	0	0.0	0	n/a	51	6.8
Streptococcal Toxic Shock Syndrome (STSS)	2	0.1	1	0.1	2	0.1	0	n/a	12	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	153	8.7	216	16.8	590	30.0	4	n/a	1,240	10.9
Ages < 5 Years*	0	0.0	0	0.0	0	0.0	0	n/a	123	16.3
Drug Resistant, Ages 5+ Years*	37	2.1	61	4.7	192	9.8	0	n/a	338	3.2
Drug Susceptible, Ages 5+ Years*	116	6.6	155	12.1	398	20.3	4	n/a	779	7.4
Toxic Shock Syndrome (TSS)	1	0.1	0	0.0	0	0.0	0	n/a	4	0.0
Typhoid Fever	0	0.0	1	0.1	0	0.0	0	n/a	10	0.1
Vibriosis	0	0.0	2	0.2	1	0.1	0	n/a	9	0.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	2	0.2	1	0.1	0	n/a	4	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Yersiniosis	7	0.4	4	0.3	11	0.6	0	n/a	48	0.4
SUB-TOTAL	945	53.8	962	74.9	1,753	89.3	17	n/a	9,397	82.8

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2008

HEPATITIS	40-49		50-59		60 +		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	10	0.6	7	0.5	9	0.5	0	n/a	54	0.5
Hepatitis B*	375	21.4	251	19.5	172	8.8	10	n/a	1,681	14.8
Acute*	34	1.9	17	1.3	11	0.6	0	n/a	131	1.2
Chronic*	341	19.4	234	18.2	161	8.2	10	n/a	1,549	13.6
Perinatal Infection*	0	0.0	0	0.0	0	0.0	0	n/a	1	0.1
Hepatitis C*	2,635	150.0	2,854	222.1	750	38.2	71	n/a	9,112	80.3
Acute*	9	0.5	10	0.8	2	0.1	0	n/a	41	0.4
Past or Present*	2,626	149.5	2,844	221.4	748	38.1	71	n/a	9,071	79.9
Hepatitis E	0	0.0	1	0.1	0	0.0	0	n/a	2	0.0
SUB-TOTAL	3,020	171.9	3,113	242.3	931	47.4	81	n/a	10,849	95.6

VACCINE-PREVENTABLE

Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Mumps	2	0.1	1	0.1	0	0.0	2	n/a	17	0.1
Pertussis	26	1.5	20	1.6	14	0.7	3	n/a	628	5.5
Varicella*	6	0.3	3	0.2	1	0.1	0	n/a	2,392	21.1
SUB-TOTAL	34	1.9	24	1.9	15	0.8	5	n/a	3,038	26.8

ZOOSES

Dengue	3	0.2	3	0.2	0	0.0	0	n/a	7	0.1
Ehrlichiosis/Anaplasmosis	1	0.1	3	0.2	3	0.2	0	n/a	12	0.1
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
<i>Ehrlichia chaffeensis</i> *	1	0.1	3	0.2	3	0.2	0	n/a	11	0.1
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	n/a	6	0.1
Leptospirosis	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Lyme Disease	6	0.3	5	0.4	8	0.4	0	n/a	45	0.4
Malaria	4	0.2	2	0.2	3	0.2	0	n/a	31	0.3
Q Fever	1	0.1	0	0.0	0	0.0	0	n/a	1	0.0
Rabies, Animal*	n/a	n/a	n/a	n/a	n/a	n/a	64	n/a	64	n/a
Rocky Mountain Spotted Fever (RMSF)	6	0.3	7	0.5	5	0.3	0	n/a	31	0.3
West Nile Virus*	1	0.1	3	0.2	7	0.4	0	n/a	15	0.1
SUB-TOTAL	22	1.3	23	1.8	26	1.3	64	n/a	213	1.3

GRAND TOTAL	4,021	228.9	4,122	320.8	2,725	138.8	167	n/a	23,497	206.4
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POPULATION	1,756,376		1,284,727		1,963,489		0		11,353,140	
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY SEX OHIO, 2008

GENERAL INFECTIOUS DISEASES	Female		Male		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	17	0.3	16	0.3	1	n/a	34	0.3
Botulism	1	0.0	3	0.1	0	n/a	4	0.0
Foodborne	1	0.0	2	0.0	0	n/a	3	0.0
Infant*	0	*	1	*	0	n/a	1	*
Campylobacteriosis	581	9.9	626	11.4	8	n/a	1,215	10.7
Coccidioidomycosis*	8	0.1	6	0.1	0	n/a	14	0.1
Creutzfeldt-Jakob Disease (CJD)	2	0.0	3	0.1	0	n/a	5	0.0
Cryptosporidiosis	343	5.9	353	6.4	8	n/a	704	6.2
Cyclosporiasis	0	0.0	1	0.0	0	n/a	1	0.0
Cytomegalovirus (CMV), Congenital*	7	*	8	*	0	n/a	15	*
Encephalitis	8	0.1	7	0.1	0	n/a	15	0.1
Post Other Infection*	1	0.0	2	0.0	0	n/a	3	0.0
Primary Viral	7	0.1	5	0.1	0	n/a	12	0.1
<i>Escherichia coli</i> , Shiga Toxin-Producing	112	1.9	94	1.7	3	n/a	209	1.8
O157:H7	82	1.4	77	1.4	2	n/a	161	1.4
Not O157:H7	9	0.2	11	0.2	0	n/a	20	0.2
Unknown Serotype	21	0.4	6	0.1	1	n/a	28	0.2
Giardiasis	417	7.1	473	8.6	1	n/a	891	7.8
<i>Haemophilus influenzae</i> , Invasive Disease	65	1.1	62	1.1	1	n/a	128	1.1
Hemolytic Uremic Syndrome (HUS)	5	0.1	3	0.1	0	n/a	8	0.1
Kawasaki Disease	9	0.2	18	0.3	0	n/a	27	0.2
Legionellosis	74	1.3	172	3.1	2	n/a	248	2.2
Leprosy (Hansen's Disease)	1	0.0	1	0.0	0	n/a	2	0.0
Listeriosis	12	0.2	17	0.3	0	n/a	29	0.3
Meningitis, Aseptic	391	6.7	376	6.8	3	n/a	770	6.8
Meningitis, Other Bacterial*	23	0.4	36	0.7	0	n/a	59	0.5
Meningococcal Disease	23	0.4	19	0.3	0	n/a	42	0.4
Rheumatic Fever	2	0.0	0	0.0	0	n/a	2	0.0
Salmonellosis	752	12.9	618	11.2	8	n/a	1,378	12.1
Shigellosis	1,045	17.9	886	16.1	23	n/a	1,954	17.2
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	2	0.0	2	0.0	0	n/a	4	0.0
Streptococcal Disease, Group A, Invasive	128	2.2	134	2.4	3	n/a	265	2.3
Streptococcal Disease, Group B, in Newborn*	25	*	25	*	1	n/a	51	*
Streptococcal Toxic Shock Syndrome (STSS)	8	0.1	4	0.1	0	n/a	12	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	641	11.0	591	10.7	8	n/a	1,240	10.9
Ages < 5 Years*	62	*	61	*	0	n/a	123	*
Drug Resistant, Ages 5+ Years*	179	*	159	*	0	n/a	338	*
Drug Susceptible, Ages 5+ Years*	400	*	371	*	8	n/a	779	*
Toxic Shock Syndrome (TSS)	3	0.1	1	0.0	0	n/a	4	0.0
Typhoid Fever	6	0.1	4	0.1	0	n/a	10	0.1
Vibriosis	4	0.1	5	0.1	0	n/a	9	0.1
<i>Vibrio parahaemolyticus</i> Infection	2	0.0	2	0.0	0	n/a	4	0.0
Other (Not Cholera)	2	0.0	3	0.1	0	n/a	5	0.0
Yersiniosis	28	0.5	20	0.4	0	n/a	48	0.4
SUB-TOTAL	4,743	81.2	4,584	83.2	70	n/a	9,397	82.8

HEPATITIS

Hepatitis A	23	0.4	31	0.6	0	n/a	54	0.5
Hepatitis B*	686	11.7	981	17.8	14	n/a	1,681	14.8
Acute*	43	0.7	88	1.6	0	n/a	131	1.2
Chronic*	642	11.0	893	16.2	14	n/a	1,549	13.6
Perinatal Infection*	1	*	0	*	0	n/a	1	*
Hepatitis C*	3,264	55.9	5,758	104.5	90	n/a	9,112	80.3
Acute*	20	0.3	21	0.4	0	n/a	41	0.4
Past or Present*	3,244	55.5	5,737	104.1	90	n/a	9,071	79.9
Hepatitis E	2	0.0	0	0.0	0	n/a	2	0.0
SUB-TOTAL	3,975	68.1	6,770	122.8	104	n/a	10,849	95.6

VACCINE-PREVENTABLE

Influenza-Associated Pediatric Mortality*	0	0.0	1	0.0	0	n/a	1	0.0
Mumps	5	0.1	12	0.2	0	n/a	17	0.1
Pertussis	344	5.9	282	5.1	2	n/a	628	5.5
Varicella*	1,171	20.0	1,204	21.8	17	n/a	2,392	21.1
SUB-TOTAL	1,520	26.0	1,499	27.2	19	n/a	3,038	26.8

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY SEX OHIO, 2008

ZOOZOSES	Female		Male		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate
Dengue	3	0.1	4	0.1	0	n/a	7	0.1
Ehrlichiosis/Anaplasmosis	2	0.0	10	0.2	0	n/a	12	0.1
<i>Anaplasma phagocytophilum</i> *	0	0.0	1	0.0	0	n/a	1	0.0
<i>Ehrlichia chaffeensis</i> *	2	0.0	9	0.2	0	n/a	11	0.1
LaCrosse Encephalitis*	3	0.1	3	0.1	0	n/a	6	0.1
Leptospirosis	0	0.0	1	0.0	0	n/a	1	0.0
Lyme Disease	11	0.2	34	0.6	0	n/a	45	0.4
Malaria	12	0.2	19	0.3	0	n/a	31	0.3
Q Fever	0	0.0	1	0.0	0	n/a	1	0.0
Rabies, Animal*	n/a	n/a	n/a	n/a	64	n/a	64	n/a
Rocky Mountain Spotted Fever (RMSF)	9	0.2	22	0.4	0	n/a	31	0.3
West Nile Virus*	9	0.2	6	0.1	0	n/a	15	0.1
SUB-TOTAL	49	0.8	100	1.8	64	n/a	213	1.3

GRAND TOTAL	10,287	176.1	12,953	235.0	257	n/a	23,497	206.4
POPULATION	5,840,878		5,512,262		0		11,353,140	

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2008

GENERAL INFECTIOUS DISEASES	January		February		March		April		May		June		July	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Amebiasis	0	0%	0	0%	2	6%	3	9%	1	3%	3	9%	5	15%
Botulism	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Foodborne	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Infant*	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Campylobacteriosis	51	4%	56	5%	64	5%	77	6%	101	8%	183	15%	204	17%
Coccidioidomycosis*	0	0%	3	21%	2	14%	1	7%	1	7%	0	0%	1	7%
Creutzfeldt-Jakob Disease (CJD)	1	20%	1	20%	2	40%	0	0%	0	0%	1	20%	0	0%
Cryptosporidiosis	11	2%	20	3%	17	2%	25	4%	19	3%	27	4%	76	11%
Cyclosporiasis	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Cytomegalovirus (CMV), Congenital*	0	0%	1	7%	2	13%	2	13%	1	7%	0	0%	1	7%
Encephalitis	1	7%	2	13%	0	0%	2	13%	3	20%	1	7%	0	0%
Post Other Infection*	0	0%	2	67%	0	0%	0	0%	1	33%	0	0%	0	0%
Primary Viral	1	8%	0	0%	0	0%	2	17%	2	17%	1	8%	0	0%
<i>Escherichia coli</i> , Shiga Toxin-Producing	4	2%	9	4%	11	5%	6	3%	11	5%	40	19%	32	15%
O157:H7	1	1%	3	2%	2	1%	4	2%	6	4%	35	22%	26	16%
Not O157:H7	2	10%	0	0%	1	5%	1	5%	4	20%	3	15%	4	20%
Unknown Serotype	1	4%	6	21%	8	29%	1	4%	1	4%	2	7%	2	7%
Giardiasis	71	8%	66	7%	62	7%	67	8%	57	6%	66	7%	95	11%
<i>Haemophilus influenzae</i> , Invasive Disease	16	13%	15	12%	9	7%	13	10%	14	11%	6	5%	11	9%
Hemolytic Uremic Syndrome (HUS)	0	0%	0	0%	0	0%	1	13%	1	13%	1	13%	0	0%
Kawasaki Disease	5	19%	2	7%	6	22%	3	11%	2	7%	1	4%	1	4%
Legionellosis	10	4%	10	4%	5	2%	4	2%	18	7%	39	16%	69	28%
Leprosy (Hansen's Disease)	1	50%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%
Listeriosis	1	3%	2	7%	3	10%	0	0%	2	7%	3	10%	2	7%
Meningitis, Aseptic	47	6%	32	4%	39	5%	38	5%	41	5%	64	8%	89	12%
Meningitis, Other Bacterial*	6	10%	3	5%	6	10%	4	7%	6	10%	5	8%	4	7%
Meningococcal Disease	5	12%	4	10%	5	12%	8	19%	4	10%	5	12%	1	2%
Rheumatic Fever	0	0%	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%
Salmonellosis	68	5%	51	4%	70	5%	138	10%	149	11%	148	11%	138	10%
Shigellosis	59	3%	47	2%	80	4%	71	4%	71	4%	159	8%	285	15%
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0%	0	0%	0	0%	0	0%	2	50%	0	0%	0	0%
Streptococcal Disease, Group A, Invasive	37	14%	37	14%	32	12%	33	12%	28	11%	23	9%	15	6%
Streptococcal Disease, Group B, in Newborn*	4	8%	5	10%	8	16%	4	8%	5	10%	3	6%	7	14%
Streptococcal Toxic Shock Syndrome (STSS)	0	0%	0	0%	4	33%	4	33%	2	17%	0	0%	0	0%
<i>Streptococcus pneumoniae</i> , Invasive Disease	151	12%	146	12%	128	10%	129	10%	111	9%	67	5%	39	3%
Ages < 5 Years*	15	12%	10	8%	10	8%	16	13%	15	12%	5	4%	3	2%
Drug Resistant, Ages 5+ Years*	40	12%	51	15%	45	13%	32	9%	30	9%	19	6%	10	3%
Drug Susceptible, Ages 5+ Years*	96	12%	85	11%	73	9%	81	10%	66	8%	43	6%	26	3%
Toxic Shock Syndrome (TSS)	0	0%	1	25%	0	0%	1	25%	0	0%	1	25%	0	0%
Typhoid Fever	3	30%	0	0%	0	0%	0	0%	0	0%	0	0%	2	20%
Vibriosis	0	0%	0	0%	0	0%	1	11%	1	11%	1	11%	3	33%
<i>Vibrio parahaemolyticus</i> Infection	0	0%	0	0%	0	0%	0	0%	0	0%	1	25%	1	25%
Other (Not Cholera)	0	0%	0	0%	0	0%	1	20%	1	20%	0	0%	2	40%
Yersiniosis	5	10%	5	10%	4	8%	2	4%	2	4%	4	8%	6	13%
SUB-TOTAL	557	6%	520	6%	562	6%	637	7%	653	7%	851	9%	1,087	12%

N = number of cases reported.

% = percentage of cases occurring in the month for the disease.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2008

HEPATITIS	January		February		March		April		May		June		July	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Hepatitis A	5	9%	0	0%	3	6%	5	9%	5	9%	6	11%	3	6%
Hepatitis B*	154	9%	137	8%	163	10%	109	6%	102	6%	198	12%	93	6%
Acute*	13	10%	7	5%	11	8%	9	7%	8	6%	12	9%	8	6%
Chronic*	141	9%	130	8%	152	10%	100	6%	93	6%	186	12%	85	5%
Perinatal Infection*	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%
Hepatitis C*	727	8%	814	9%	911	10%	497	5%	321	4%	835	9%	375	4%
Acute*	0	0%	0	0%	2	5%	1	2%	5	12%	0	0%	3	7%
Past or Present*	727	8%	814	9%	909	10%	496	5%	316	3%	835	9%	372	4%
Hepatitis E	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
SUB-TOTAL	887	8%	951	9%	1,077	10%	611	6%	428	4%	1,039	10%	471	4%

OUTBREAKS*														
Foodborne*	3	3%	5	5%	6	7%	13	14%	11	12%	10	11%	2	2%
Waterborne*	0	0%	0	0%	0	0%	0	0%	0	0%	1	25%	1	25%
Unspecified*	2	3%	1	1%	3	4%	2	3%	1	1%	1	1%	1	1%
Conjunctivitis*	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%
Nosocomial*	3	25%	1	8%	0	0%	3	25%	0	0%	2	17%	3	25%
Pediculosis*	1	25%	1	25%	0	0%	0	0%	0	0%	0	0%	1	25%
Scabies*	0	0%	2	14%	1	7%	0	0%	1	7%	2	14%	1	7%
Staphylococcal Skin Infections*	0	0%	3	14%	2	10%	1	5%	0	0%	1	5%	4	19%
Unusual Incidence of Non-Class A, Class B or Class C Disease*	9	12%	7	10%	9	12%	7	10%	7	10%	5	7%	5	7%
SUB-TOTAL	18	6%	20	7%	21	7%	27	9%	20	7%	22	8%	18	6%

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%
Mumps	5	29%	5	29%	2	12%	2	12%	0	0%	2	12%	0	0%
Pertussis	67	11%	21	3%	21	3%	15	2%	20	3%	20	3%	40	6%
Varicella*	322	13%	267	11%	233	10%	283	12%	232	10%	52	2%	51	2%
SUB-TOTAL	394	13%	294	10%	256	8%	300	10%	252	8%	74	2%	91	3%

ZOOSES														
Dengue	1	14%	0	0%	1	14%	0	0%	1	14%	0	0%	1	14%
Ehrlichiosis/Anaplasmosis	1	8%	0	0%	0	0%	0	0%	1	8%	2	17%	2	17%
<i>Anaplasma phagocytophilum</i> *	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
<i>Ehrlichia chaffeensis</i> *	1	9%	0	0%	0	0%	0	0%	1	9%	2	18%	2	18%
LaCrosse Encephalitis*	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Leptospirosis	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Lyme Disease	1	2%	0	0%	1	2%	1	2%	3	7%	5	11%	18	40%
Malaria	4	13%	1	3%	3	10%	1	3%	3	10%	4	13%	2	6%
Q Fever	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Rabies, Animal*	0	0%	0	0%	1	2%	2	3%	5	8%	11	17%	11	17%
Rocky Mountain Spotted Fever (RMSF)	0	0%	0	0%	0	0%	2	6%	3	10%	10	32%	5	16%
West Nile Virus*	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	7%
SUB-TOTAL	7	3%	1	0%	6	3%	6	3%	16	8%	32	15%	41	19%

GRAND TOTAL	1,863	8%	1,786	8%	1,922	8%	1,581	7%	1,369	6%	2,018	8%	1,708	7%
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N = number of cases reported.
 % = percentage of cases occurring in the month for the disease.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2008

GENERAL INFECTIOUS DISEASES	August		September		October		November		December		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
Amebiasis	5	15%	2	6%	5	15%	3	9%	5	15%	34	100%
Botulism	0	0%	3	75%	1	25%	0	0%	0	0%	4	100%
Foodborne	0	0%	3	100%	0	0%	0	0%	0	0%	3	100%
Infant*	0	0%	0	0%	1	100%	0	0%	0	0%	1	100%
Campylobacteriosis	129	11%	127	10%	97	8%	67	6%	59	5%	1,215	100%
Coccidioidomycosis*	0	0%	0	0%	2	14%	3	21%	1	7%	14	100%
Creutzfeldt-Jakob Disease (CJD)	0	0%	0	0%	0	0%	0	0%	0	0%	5	100%
Cryptosporidiosis	216	31%	178	25%	65	9%	32	5%	18	3%	704	100%
Cyclosporiasis	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Cytomegalovirus (CMV), Congenital*	2	13%	0	0%	2	13%	1	7%	3	20%	15	100%
Encephalitis	2	13%	0	0%	0	0%	2	13%	2	13%	15	100%
Post Other Infection*	0	0%	0	0%	0	0%	0	0%	0	0%	3	100%
Primary Viral	2	17%	0	0%	0	0%	2	17%	2	17%	12	100%
<i>Escherichia coli</i> , Shiga Toxin-Producing	29	14%	36	17%	16	8%	4	2%	11	5%	209	100%
O157:H7	24	15%	33	20%	14	9%	3	2%	10	6%	161	100%
Not O157:H7	2	10%	2	10%	1	5%	0	0%	0	0%	20	100%
Unknown Serotype	3	11%	1	4%	1	4%	1	4%	1	4%	28	100%
Giardiasis	101	11%	94	11%	88	10%	67	8%	57	6%	891	100%
<i>Haemophilus influenzae</i> , Invasive Disease	6	5%	8	6%	6	5%	10	8%	14	11%	128	100%
Hemolytic Uremic Syndrome (HUS)	0	0%	2	25%	2	25%	1	13%	0	0%	8	100%
Kawasaki Disease	3	11%	0	0%	1	4%	1	4%	2	7%	27	100%
Legionellosis	14	6%	35	14%	10	4%	13	5%	21	8%	248	100%
Leprosy (Hansen's Disease)	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%
Listeriosis	4	14%	4	14%	6	21%	1	3%	1	3%	29	100%
Meningitis, Aseptic	111	14%	103	13%	87	11%	63	8%	56	7%	770	100%
Meningitis, Other Bacterial*	5	8%	4	7%	9	15%	3	5%	4	7%	59	100%
Meningococcal Disease	0	0%	1	2%	3	7%	2	5%	4	10%	42	100%
Rheumatic Fever	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%
Salmonellosis	117	8%	132	10%	107	8%	137	10%	123	9%	1,378	100%
Shigellosis	222	11%	218	11%	208	11%	287	15%	247	13%	1,954	100%
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0%	0	0%	1	25%	0	0%	1	25%	4	100%
Streptococcal Disease, Group A, Invasive	8	3%	9	3%	11	4%	9	3%	23	9%	265	100%
Streptococcal Disease, Group B, in Newborn*	2	4%	1	2%	5	10%	3	6%	4	8%	51	100%
Streptococcal Toxic Shock Syndrome (STSS)	0	0%	1	8%	0	0%	0	0%	1	8%	12	100%
<i>Streptococcus pneumoniae</i> , Invasive Disease	39	3%	50	4%	100	8%	111	9%	169	14%	1,240	100%
Ages < 5 Years*	5	4%	10	8%	9	7%	7	6%	18	15%	123	100%
Drug Resistant, Ages 5+ Years*	14	4%	9	3%	25	7%	30	9%	33	10%	338	100%
Drug Susceptible, Ages 5+ Years*	20	3%	31	4%	66	8%	74	9%	118	15%	779	100%
Toxic Shock Syndrome (TSS)	0	0%	0	0%	1	25%	0	0%	0	0%	4	100%
Typhoid Fever	1	10%	1	10%	1	10%	0	0%	2	20%	10	100%
Vibriosis	1	11%	1	11%	1	11%	0	0%	0	0%	9	100%
<i>Vibrio parahaemolyticus</i> Infection	0	0%	1	25%	1	25%	0	0%	0	0%	4	100%
Other (Not Cholera)	1	20%	0	0%	0	0%	0	0%	0	0%	5	100%
Yersiniosis	6	13%	2	4%	3	6%	3	6%	6	13%	48	100%
SUB-TOTAL	1,023	11%	1,012	11%	838	9%	823	9%	834	9%	9,397	100%

N = number of cases reported.

% = percentage of cases occurring in the month for the disease.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2008

HEPATITIS	August		September		October		November		December		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
Hepatitis A	3	6%	5	9%	8	15%	6	11%	5	9%	54	100%
Hepatitis B*	159	9%	121	7%	151	9%	123	7%	171	10%	1,681	100%
Acute*	16	12%	11	8%	16	12%	11	8%	9	7%	131	100%
Chronic*	143	9%	110	7%	135	9%	112	7%	162	10%	1,549	100%
Perinatal Infection*	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Hepatitis C*	598	7%	422	5%	615	7%	1,150	13%	1,847	20%	9,112	100%
Acute*	2	5%	1	2%	8	20%	19	46%	0	0%	41	100%
Past or Present*	596	7%	421	5%	607	7%	1,131	12%	1,847	20%	9,071	100%
Hepatitis E	1	50%	0	0%	0	0%	0	0%	0	0%	2	100%
SUB-TOTAL	761	7%	548	5%	774	7%	1,279	12%	2,023	19%	10,849	100%

OUTBREAKS*												
Foodborne*	6	7%	7	8%	8	9%	9	10%	12	13%	92	100%
Waterborne*	2	50%	0	0%	0	0%	0	0%	0	0%	4	100%
Unspecified*	12	17%	1	1%	1	1%	18	26%	26	38%	69	100%
Conjunctivitis*	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Nosocomial*	0	0%	0	0%	0	0%	0	0%	0	0%	12	100%
Pediculosis*	1	25%	0	0%	0	0%	0	0%	0	0%	4	100%
Scabies*	1	7%	3	21%	1	7%	0	0%	2	14%	14	100%
Staphylococcal Skin Infections*	3	14%	1	5%	2	10%	1	5%	3	14%	21	100%
Unusual Incidence of Non-Class A, Class B or Class C Disease*	1	1%	2	3%	3	4%	7	10%	11	15%	73	100%
SUB-TOTAL	26	9%	14	5%	15	5%	35	12%	54	19%	290	100%

VACCINE-PREVENTABLE												
Influenza-Associated Pediatric Mortality*	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Mumps	0	0%	0	0%	1	6%	0	0%	0	0%	17	100%
Pertussis	32	5%	55	9%	116	18%	106	17%	115	18%	628	100%
Varicella*	59	2%	163	7%	183	8%	280	12%	267	11%	2,392	100%
SUB-TOTAL	91	3%	218	7%	300	10%	386	13%	382	13%	3,038	100%

ZOOSES												
Dengue	0	0%	0	0%	3	43%	0	0%	0	0%	7	100%
Ehrlichiosis/Anaplasmosis	3	25%	0	0%	2	17%	1	8%	0	0%	12	100%
<i>Anaplasma phagocytophilum</i> *	0	0%	0	0%	0	0%	1	100%	0	0%	1	100%
<i>Ehrlichia chaffeensis</i> *	3	27%	0	0%	2	18%	0	0%	0	0%	11	100%
LaCrosse Encephalitis*	2	33%	3	50%	1	17%	0	0%	0	0%	6	100%
Leptospirosis	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Lyme Disease	9	20%	3	7%	4	9%	0	0%	0	0%	45	100%
Malaria	1	3%	4	13%	2	6%	1	3%	5	16%	31	100%
Q Fever	1	100%	0	0%	0	0%	0	0%	0	0%	1	100%
Rabies, Animal*	14	22%	14	22%	2	3%	4	6%	0	0%	64	100%
Rocky Mountain Spotted Fever (RMSF)	7	23%	1	3%	1	3%	2	6%	0	0%	31	100%
West Nile Virus*	5	33%	9	60%	0	0%	0	0%	0	0%	15	100%
SUB-TOTAL	42	20%	34	16%	15	7%	8	4%	5	2%	213	100%

GRAND TOTAL	1,943	8%	1,826	8%	1,942	8%	2,531	11%	3,298	14%	23,787	100%
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N = number of cases reported.

% = percentage of cases occurring in the month for the disease.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Adams		Allen		Ashland		Ashtabula		Athens		Auglaize		Belmont	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	0	0.0	14	12.9	6	11.4	4	3.9	0	0.0	7	15.0	3	4.3
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	1	3.7	9	8.3	1	1.9	1	1.0	0	0.0	6	12.9	0	0.0
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	1	1.4
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4
Primary Viral	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	7.3	3	2.8	3	5.7	0	0.0	1	1.6	7	15.0	0	0.0
O157:H7	2	7.3	3	2.8	3	5.7	0	0.0	0	0.0	3	6.4	0	0.0
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	4	8.6	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	2	7.3	20	18.4	3	5.7	2	1.9	5	8.0	2	4.3	3	4.3
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	1	0.9	1	1.9	0	0.0	0	0.0	1	2.1	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	1	0.9	0	0.0	1	1.0	0	0.0	1	2.1	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	1	0.9	1	1.9	0	0.0	1	1.6	0	0.0	0	0.0
Meningitis, Aseptic	1	3.7	17	15.7	0	0.0	2	1.9	1	1.6	5	10.7	4	5.7
Meningitis, Other Bacterial*	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	1	2.1	1	1.4
Meningococcal Disease	1	3.7	1	0.9	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	3	11.0	11	10.1	5	9.5	14	13.6	6	9.6	5	10.7	7	10.0
Shigellosis	0	0.0	2	1.8	3	5.7	2	1.9	1	1.6	3	6.4	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	0	0.0	2	1.8	0	0.0	2	1.9	1	1.6	3	6.4	0	0.0
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	0	0.0	16	14.8	0	0.0	8	7.8	5	8.0	10	21.5	10	14.2
Ages < 5 Years*	0	*	3	*	0	*	1	*	0	*	0	*	1	*
Drug Resistant, Ages 5+ Years*	0	*	3	*	0	*	4	*	2	*	2	*	3	*
Drug Susceptible, Ages 5+ Years*	0	*	10	*	0	*	3	*	3	*	8	*	6	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0
SUB-TOTAL	10	36.6	100	92.2	23	43.8	37	36.0	21	33.7	54	115.9	29	41.3

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Adams		Allen		Ashland		Ashtabula		Athens		Auglaize		Belmont	
	N	Rate	N	Rate	N	Rate								
Hepatitis A	0	0.0	3	2.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B*	0	0.0	9	8.3	4	7.6	1	1.0	10	16.1	4	8.6	5	7.1
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	0	0.0
Chronic*	0	0.0	9	8.3	4	7.6	1	1.0	8	12.9	4	8.6	5	7.1
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	14	51.2	58	53.5	28	53.3	45	43.8	55	88.4	11	23.6	35	49.8
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Past or Present*	14	51.2	58	53.5	28	53.3	45	43.8	55	88.4	11	23.6	35	49.8
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	14	51.2	70	64.5	32	60.9	46	44.8	65	104.5	15	32.2	40	57.0

OUTBREAKS*														
Foodborne*	0	n/a	0	n/a	1	n/a	1	n/a	0	n/a	1	n/a	0	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Unspecified*	0	n/a	1	n/a	0	n/a								
Conjunctivitis*	0	n/a	1	n/a	0	n/a								
Nosocomial*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Pediculosis*	0	n/a	1	n/a	0	n/a								
Scabies*	0	n/a	0	n/a	0	n/a	2	n/a	1	n/a	0	n/a	0	n/a
Staphylococcal Skin Infections*	0	n/a	5	n/a	1	n/a	0	n/a	1	n/a	1	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	3	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a
SUB-TOTAL	0	n/a	11	n/a	2	n/a	3	n/a	3	n/a	2	n/a	0	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	0	0.0	1	0.9	4	7.6	2	1.9	4	6.4	2	4.3	0	0.0
Varicella*	3	11.0	9	8.3	28	53.3	5	4.9	29	46.6	21	45.1	14	19.9
SUB-TOTAL	3	11.0	10	9.2	32	60.9	7	6.8	33	53.0	23	49.3	14	19.9

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	0	n/a	1	n/a	0	n/a								
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	0	0.0	2	0.9	0	0.0	0	0.0	2	3.2	0	0.0	0	0.0

GRAND TOTAL	27	98.8	193	166.9	89	165.6	93	87.6	124	194.5	94	197.4	83	118.2
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POPULATION	27,330	108,473	52,523	102,728	62,223	46,611	70,226
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N = number of cases reported.
 Rates use 2000 U.S. Census counts and are per 100,000 population.
 n/a = not applicable.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Brown		Butler		Carroll		Champaign		Clark		Clermont		Clinton	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	6	14.2	27	8.1	4	13.9	4	10.3	17	11.7	14	7.9	3	7.4
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	2	4.7	5	1.5	1	3.5	0	0.0	3	2.1	1	0.6	4	9.9
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	1	2.4	6	1.8	0	0.0	1	2.6	3	2.1	2	1.1	1	2.5
O157:H7	0	0.0	5	1.5	0	0.0	1	2.6	3	2.1	2	1.1	1	2.5
Not O157:H7	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown Serotype	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	3	7.1	28	8.4	4	13.9	2	5.1	6	4.1	10	5.6	1	2.5
<i>Haemophilus influenzae</i> , Invasive Disease	1	2.4	2	0.6	0	0.0	1	2.6	3	2.1	4	2.2	1	2.5
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	2.2	0	0.0
Legionellosis	0	0.0	0	0.0	1	3.5	0	0.0	2	1.4	0	0.0	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	4	9.5	23	6.9	2	6.9	2	5.1	4	2.8	16	9.0	1	2.5
Meningitis, Other Bacterial*	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	2	1.1	1	2.5
Meningococcal Disease	1	2.4	3	0.9	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	1	2.4	36	10.8	4	13.9	3	7.7	17	11.7	8	4.5	11	27.1
Shigellosis	1	2.4	18	5.4	0	0.0	9	23.1	28	19.3	18	10.1	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	0	0.0	5	1.5	1	3.5	0	0.0	5	3.5	4	2.2	3	7.4
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	0	*	1	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	2	4.7	24	7.2	10	34.7	4	10.3	28	19.3	34	19.1	3	7.4
Ages < 5 Years*	0	*	4	*	0	*	0	*	1	*	3	*	0	*
Drug Resistant, Ages 5+ Years*	0	*	7	*	6	*	0	*	3	*	10	*	1	*
Drug Susceptible, Ages 5+ Years*	2	*	13	*	4	*	4	*	24	*	21	*	2	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0
Yersiniosis	0	0.0	1	0.3	1	3.5	0	0.0	1	0.7	0	0.0	0	0.0
SUB-TOTAL	22	52.0	179	53.8	29	100.6	26	66.9	120	82.9	118	66.3	29	71.5

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Brown		Butler		Carroll		Champaign		Clark		Clermont		Clinton	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	1	0.3	0	0.0	1	2.6	0	0.0	0	0.0	0	0.0
Hepatitis B*	2	4.7	47	14.1	1	3.5	4	10.3	29	20.0	17	9.6	3	7.4
Acute*	0	0.0	5	1.5	0	0.0	1	2.6	17	11.7	5	2.8	0	0.0
Chronic*	2	4.7	42	12.6	1	3.5	3	7.7	12	8.3	12	6.7	3	7.4
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	23	54.4	254	76.3	11	38.1	23	59.1	128	88.4	127	71.4	15	37.0
Acute*	0	0.0	0	0.0	0	0.0	1	2.6	1	0.7	0	0.0	0	0.0
Past or Present*	23	54.4	254	76.3	11	38.1	22	56.6	127	87.7	127	71.4	15	37.0
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	25	59.1	302	90.7	12	41.6	28	72.0	157	108.5	144	80.9	18	44.4

OUTBREAKS*														
Foodborne*	0	n/a	4	n/a	0	n/a	0	n/a	3	n/a	0	n/a	0	n/a
Waterborne*	0	n/a												
Unspecified*	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	1	n/a	0	n/a
Conjunctivitis*	0	n/a												
Nosocomial*	0	n/a												
Pediculosis*	0	n/a												
Scabies*	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Staphylococcal Skin Infections*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	1	n/a	0	n/a								
SUB-TOTAL	0	n/a	6	n/a	0	n/a	2	n/a	4	n/a	1	n/a	0	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	1	3.5	0	0.0	1	0.7	0	0.0	0	0.0
Pertussis	2	4.7	4	1.2	1	3.5	5	12.9	23	15.9	43	24.2	3	7.4
Varicella*	58	137.2	41	12.3	5	17.3	11	28.3	15	10.4	25	14.0	2	4.9
SUB-TOTAL	60	141.9	45	13.5	7	24.3	16	41.1	39	26.9	68	38.2	5	12.3

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.5
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.5
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	1	0.3	1	3.5	0	0.0	1	0.7	0	0.0	0	0.0
Malaria	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	0	n/a	2	n/a	0	n/a	0	n/a	3	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	2	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
SUB-TOTAL	0	0.0	6	1.2	1	3.5	0	0.0	4	0.7	2	1.1	1	2.5

GRAND TOTAL	107	253.0	538	159.3	49	169.9	72	180.0	324	221.1	333	186.5	53	130.7
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POPULATION	42,285	332,807	28,836	38,890	144,742	177,977	40,543
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N = number of cases reported.
 Rates use 2000 U.S. Census counts and are per 100,000 population.
 n/a = not applicable.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Columbiana		Coshocton		Crawford		Cuyahoga		Darke		Defiance		Delaware	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	3	6.4	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	3	6.4	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	5	4.5	12	32.7	0	0.0	169	12.1	13	24.4	2	5.1	9	8.2
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	1	0.9
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	9	8.0	0	0.0	7	14.9	14	1.0	6	11.3	1	2.5	25	22.7
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	4	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	1.8	1	2.7	0	0.0	13	0.9	1	1.9	0	0.0	4	3.6
O157:H7	2	1.8	0	0.0	0	0.0	11	0.8	1	1.9	0	0.0	3	2.7
Not O157:H7	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Unknown Serotype	0	0.0	1	2.7	0	0.0	1	0.1	0	0.0	0	0.0	1	0.9
Giardiasis	7	6.2	4	10.9	1	2.1	86	6.2	2	3.8	3	7.6	33	30.0
<i>Haemophilus influenzae</i> , Invasive Disease	2	1.8	0	0.0	2	4.3	12	0.9	0	0.0	1	2.5	0	0.0
Hemolytic Uremic Syndrome (HUS)	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.9
Kawasaki Disease	0	0.0	0	0.0	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0
Legionellosis	2	1.8	2	5.5	0	0.0	46	3.3	0	0.0	0	0.0	2	1.8
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	1	0.9	0	0.0	0	0.0	6	0.4	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	3	2.7	6	16.4	1	2.1	98	7.0	2	3.8	1	2.5	9	8.2
Meningitis, Other Bacterial*	0	0.0	0	0.0	1	2.1	12	0.9	0	0.0	0	0.0	0	0.0
Meningococcal Disease	0	0.0	0	0.0	0	0.0	6	0.4	1	1.9	1	2.5	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	6	5.4	4	10.9	5	10.6	174	12.5	8	15.0	8	20.3	19	17.3
Shigellosis	4	3.6	0	0.0	0	0.0	209	15.0	0	0.0	0	0.0	14	12.7
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	3	2.7	0	0.0	0	0.0	26	1.9	1	1.9	2	5.1	7	6.4
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	7	*	0	*	0	*	1	*
Streptococcal Toxic Shock Syndrome (STSS)	1	0.9	0	0.0	0	0.0	4	0.3	0	0.0	1	2.5	1	0.9
<i>Streptococcus pneumoniae</i> , Invasive Disease	20	17.8	7	19.1	5	10.6	97	7.0	2	3.8	5	12.7	15	13.6
Ages < 5 Years*	4	*	1	*	0	*	6	*	0	*	1	*	3	*
Drug Resistant, Ages 5+ Years*	5	*	2	*	4	*	37	*	0	*	0	*	7	*
Drug Susceptible, Ages 5+ Years*	11	*	4	*	1	*	54	*	2	*	4	*	5	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	1	0.1	1	1.9	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	1	0.9
Vibriosis	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	1	0.9
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.9
Yersiniosis	0	0.0	0	0.0	1	2.1	10	0.7	0	0.0	0	0.0	4	3.6
SUB-TOTAL	66	58.9	36	98.2	26	55.4	1,012	72.6	37	69.4	25	63.3	147	133.6

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Columbiana		Coshocton		Crawford		Cuyahoga		Darke		Defiance		Delaware	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	0	0.0	0	0.0	7	0.5	0	0.0	0	0.0	0	0.0
Hepatitis B*	5	4.5	0	0.0	3	6.4	254	18.2	2	3.8	2	5.1	13	11.8
Acute*	2	1.8	0	0.0	0	0.0	30	2.2	1	1.9	0	0.0	1	0.9
Chronic*	3	2.7	0	0.0	3	6.4	224	16.1	1	1.9	2	5.1	12	10.9
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	66	58.9	18	49.1	18	38.3	1,201	86.2	14	26.3	3	7.6	32	29.1
Acute*	0	0.0	0	0.0	1	2.1	6	0.4	0	0.0	0	0.0	0	0.0
Past or Present*	66	58.9	18	49.1	17	36.2	1,195	85.7	14	26.3	3	7.6	32	29.1
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	71	63.4	18	49.1	21	44.7	1,462	104.9	16	30.0	5	12.7	45	40.9

OUTBREAKS*														
Foodborne*	0	n/a	0	n/a	2	n/a	5	n/a	0	n/a	0	n/a	6	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Unspecified*	0	n/a	0	n/a	0	n/a	8	n/a	0	n/a	0	n/a	0	n/a
Conjunctivitis*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Nosocomial*	0	n/a	0	n/a	0	n/a	3	n/a	0	n/a	0	n/a	0	n/a
Pediculosis*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Scabies*	1	n/a	0	n/a	0	n/a	3	n/a	0	n/a	1	n/a	0	n/a
Staphylococcal Skin Infections*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	1	n/a	0	n/a	0	n/a	18	n/a	0	n/a	0	n/a	3	n/a
SUB-TOTAL	2	n/a	0	n/a	2	n/a	38	n/a	0	n/a	2	n/a	9	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	2	1.8	0	0.0	4	8.5	21	1.5	0	0.0	0	0.0	54	49.1
Varicella*	18	16.1	7	19.1	4	8.5	82	5.9	54	101.3	66	167.1	29	26.4
SUB-TOTAL	20	17.8	7	19.1	8	17.0	103	7.4	54	101.3	66	167.1	83	75.5

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	1	0.9	0	0.0	0	0.0	8	0.6	0	0.0	0	0.0	1	0.9
Malaria	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	0	0.0	1	0.9
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	0	n/a	0	n/a	1	n/a	3	n/a	0	n/a	0	n/a	4	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.9
West Nile Virus*	0	0.0	0	0.0	0	0.0	5	0.4	0	0.0	0	0.0	0	0.0
SUB-TOTAL	1	0.9	0	0.0	1	0.0	20	1.2	0	0.0	0	0.0	7	2.7

GRAND TOTAL	160	141.0	61	166.4	58	117.1	2,635	186.1	107	200.7	98	243.0	291	252.8
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POPULATION	112,075	36,655	46,966	1,393,978	53,309	39,500	109,989
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Erie		Fairfield		Fayette		Franklin		Fulton		Gallia		Geauga	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	16	13.0	0	0.0	9	0.8	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	4	5.0	12	9.8	2	7.0	89	8.3	4	9.5	1	3.2	15	16.5
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	2	2.5	16	13.0	0	0.0	310	29.0	1	2.4	0	0.0	3	3.3
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	1	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	4	3.3	0	0.0	35	3.3	1	2.4	0	0.0	2	2.2
O157:H7	0	0.0	4	3.3	0	0.0	30	2.8	1	2.4	0	0.0	2	2.2
Not O157:H7	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0
Giardiasis	8	10.1	13	10.6	1	3.5	164	15.3	4	9.5	0	0.0	4	4.4
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	1	0.8	1	3.5	7	0.7	1	2.4	1	3.2	1	1.1
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0
Kawasaki Disease	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	6	4.9	1	3.5	61	5.7	0	0.0	1	3.2	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	1	1.1
Meningitis, Aseptic	0	0.0	6	4.9	0	0.0	65	6.1	3	7.1	0	0.0	4	4.4
Meningitis, Other Bacterial*	0	0.0	1	0.8	0	0.0	6	0.6	0	0.0	0	0.0	0	0.0
Meningococcal Disease	1	1.3	0	0.0	2	7.0	3	0.3	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	11	13.8	19	15.5	2	7.0	136	12.7	2	4.8	4	12.9	12	13.2
Shigellosis	1	1.3	33	26.9	2	7.0	668	62.5	3	7.1	0	0.0	1	1.1
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	6	7.5	1	0.8	0	0.0	37	3.5	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group B, in Newborn*	0	*	1	*	0	*	6	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	13	16.3	4	3.3	3	10.6	148	13.8	3	7.1	1	3.2	10	11.0
Ages < 5 Years*	2	*	0	*	0	*	18	*	0	*	0	*	1	*
Drug Resistant, Ages 5+ Years*	4	*	0	*	0	*	38	*	0	*	0	*	2	*
Drug Susceptible, Ages 5+ Years*	7	*	4	*	3	*	92	*	3	*	1	*	7	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	1	3.5	1	0.1	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	1	3.5	1	0.1	0	0.0	0	0.0	0	0.0
Yersiniosis	0	0.0	1	0.8	0	0.0	4	0.4	0	0.0	0	0.0	1	1.1
SUB-TOTAL	47	59.1	134	109.2	15	52.8	1,761	164.7	22	52.3	8	25.7	54	59.4

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Erie		Fairfield		Fayette		Franklin		Fulton		Gallia		Geauga	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	1	0.8	0	0.0	10	0.9	0	0.0	0	0.0	1	1.1
Hepatitis B*	5	6.3	20	16.3	1	3.5	409	38.3	3	7.1	2	6.4	2	2.2
Acute*	1	1.3	2	1.6	0	0.0	13	1.2	0	0.0	0	0.0	0	0.0
Chronic*	4	5.0	18	14.7	1	3.5	396	37.0	3	7.1	2	6.4	2	2.2
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	41	51.5	73	59.5	17	59.8	735	68.8	7	16.6	33	106.2	16	17.6
Acute*	4	5.0	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Past or Present*	37	46.5	72	58.7	17	59.8	735	68.8	7	16.6	33	106.2	16	17.6
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	46	57.8	94	76.6	18	63.3	1,154	108.0	10	23.8	35	112.7	19	20.9

OUTBREAKS*														
Foodborne*	0	n/a	0	n/a	0	n/a	7	n/a	0	n/a	0	n/a	1	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Unspecified*	0	n/a	1	n/a	0	n/a	37	n/a	0	n/a	0	n/a	0	n/a
Conjunctivitis*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Nosocomial*	0	n/a	0	n/a	0	n/a	2	n/a	0	n/a	0	n/a	0	n/a
Pediculosis*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Scabies*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Staphylococcal Skin Infections*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	2	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	0	n/a	0	n/a	11	n/a	0	n/a	1	n/a	1	n/a
SUB-TOTAL	0	n/a	1	n/a	0	n/a	60	n/a	0	n/a	3	n/a	2	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	8	10.1	9	7.3	0	0.0	156	14.6	0	0.0	1	3.2	2	2.2
Varicella*	12	15.1	49	39.9	2	7.0	125	11.7	76	180.6	21	67.6	36	39.6
SUB-TOTAL	20	25.1	59	48.1	2	7.0	281	26.3	76	180.6	22	70.8	38	41.8

ZOOSES														
Dengue	1	1.3	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	1	3.2	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	1	3.2	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	0	0.0	0	0.0	1	0.1	1	2.4	0	0.0	1	1.1
Malaria	0	0.0	0	0.0	0	0.0	15	1.4	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	0	n/a	0	n/a	2	n/a	4	n/a	0	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	1	3.2	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	2	2.5	1	0.8	2	0.0	22	1.7	1	2.4	2	6.4	1	1.1

GRAND TOTAL	115	144.6	289	234.6	37	123.1	3,278	300.7	109	259.0	70	215.6	114	123.2
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POPULATION	79,551	122,759	28,433	1,068,978	42,084	31,069	90,895
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Greene		Guernsey		Hamilton		Hancock		Hardin		Harrison		Henry	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	11	7.4	5	12.3	66	7.8	4	5.6	1	3.1	4	25.2	3	10.3
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	2	1.4	4	9.8	12	1.4	8	11.2	1	3.1	0	0.0	0	0.0
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	4	2.7	0	0.0	14	1.7	1	1.4	0	0.0	0	0.0	0	0.0
O157:H7	3	2.0	0	0.0	8	0.9	1	1.4	0	0.0	0	0.0	0	0.0
Not O157:H7	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Unknown Serotype	1	0.7	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	6	4.1	8	19.6	60	7.1	1	1.4	1	3.1	0	0.0	1	3.4
<i>Haemophilus influenzae</i> , Invasive Disease	1	0.7	0	0.0	13	1.5	0	0.0	0	0.0	0	0.0	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	0	0.0	0	0.0	9	1.1	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	2	1.4	1	2.5	2	0.2	0	0.0	0	0.0	1	6.3	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	1	2.5	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	16	10.8	3	7.4	66	7.8	2	2.8	2	6.3	2	12.6	1	3.4
Meningitis, Other Bacterial*	2	1.4	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	1	3.4
Meningococcal Disease	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	14	9.5	6	14.7	91	10.8	5	7.0	4	12.5	0	0.0	4	13.7
Shigellosis	59	39.9	0	0.0	82	9.7	0	0.0	0	0.0	0	0.0	2	6.8
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	4	2.7	0	0.0	26	3.1	1	1.4	0	0.0	0	0.0	1	3.4
Streptococcal Disease, Group B, in Newborn*	2	*	1	*	7	*	0	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	15	10.1	4	9.8	100	11.8	7	9.8	3	9.4	4	25.2	1	3.4
Ages < 5 Years*	0	*	0	*	10	*	3	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	3	*	0	*	24	*	1	*	1	*	0	*	0	*
Drug Susceptible, Ages 5+ Years*	12	*	4	*	66	*	3	*	2	*	4	*	1	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	139	94.0	33	80.9	559	66.1	30	42.1	12	37.6	11	69.4	14	47.9

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Greene		Guernsey		Hamilton		Hancock		Hardin		Harrison		Henry	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	1	0.7	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B*	20	13.5	2	4.9	170	20.1	5	7.0	0	0.0	0	0.0	2	6.8
Acute*	0	0.0	0	0.0	13	1.5	0	0.0	0	0.0	0	0.0	0	0.0
Chronic*	20	13.5	2	4.9	157	18.6	5	7.0	0	0.0	0	0.0	2	6.8
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	85	57.5	18	44.1	965	114.2	26	36.5	10	31.3	6	37.8	2	6.8
Acute*	1	0.7	0	0.0	0	0.0	1	1.4	0	0.0	0	0.0	0	0.0
Past or Present*	84	56.8	18	44.1	965	114.2	25	35.1	10	31.3	6	37.8	2	6.8
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	106	71.7	20	49.0	1,138	134.6	31	43.5	10	31.3	6	37.8	4	13.7

OUTBREAKS*														
Foodborne*	1	n/a	0	n/a	3	n/a	3	n/a	0	n/a	1	n/a	0	n/a
Waterborne*	0	n/a												
Unspecified*	4	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Conjunctivitis*	0	n/a												
Nosocomial*	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Pediculosis*	1	n/a	0	n/a										
Scabies*	0	n/a												
Staphylococcal Skin Infections*	0	n/a												
Unusual Incidence of Non-Class A, Class B or Class C Disease*	1	n/a	0	n/a	2	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	7	n/a	0	n/a	6	n/a	4	n/a	0	n/a	1	n/a	0	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	1	0.7	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	1	0.7	0	0.0	57	6.7	4	5.6	0	0.0	0	0.0	1	3.4
Varicella*	73	49.4	5	12.3	89	10.5	32	44.9	1	3.1	2	12.6	10	34.2
SUB-TOTAL	75	50.7	5	12.3	148	17.5	36	50.5	1	3.1	2	12.6	11	37.7

ZOOSES														
Dengue	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	1	0.7	0	0.0	6	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Malaria	0	0.0	0	0.0	4	0.5	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	1	n/a	0	n/a	8	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	1	0.1	1	1.4	0	0.0	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	2	0.7	0	0.0	25	2.0	2	1.4	0	0.0	0	0.0	0	0.0

GRAND TOTAL	329	217.1	58	142.2	1,876	220.3	103	137.5	23	72.0	20	119.8	29	99.3
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POPULATION	147,886	40,792	845,303	71,295	31,945	15,856	29,210
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Highland		Hocking		Holmes		Huron		Jackson		Jefferson		Knox	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	0	0.0	1	1.8
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.8
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	1	*
Campylobacteriosis	3	7.3	4	14.2	5	12.8	9	15.1	1	3.1	9	12.2	8	14.7
Coccidioidomycosis*	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	2	4.9	1	3.5	2	5.1	1	1.7	0	0.0	0	0.0	17	31.2
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	1	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown Serotype	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	1	2.4	2	7.1	4	10.3	9	15.1	1	3.1	3	4.1	3	5.5
<i>Haemophilus influenzae</i> , Invasive Disease	2	4.9	0	0.0	0	0.0	0	0.0	0	0.0	2	2.7	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	0	0.0	0	0.0	1	1.7	1	3.1	1	1.4	1	1.8
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0
Meningitis, Aseptic	4	9.8	2	7.1	2	5.1	0	0.0	6	18.4	2	2.7	5	9.2
Meningitis, Other Bacterial*	0	0.0	0	0.0	1	2.6	0	0.0	0	0.0	0	0.0	0	0.0
Meningococcal Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	6	14.7	3	10.6	6	15.4	53	89.1	3	9.2	5	6.8	7	12.8
Shigellosis	0	0.0	0	0.0	0	0.0	5	8.4	0	0.0	1	1.4	1	1.8
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	5.4	1	1.8
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	7	17.1	3	10.6	2	5.1	0	0.0	5	15.3	19	25.7	7	12.8
Ages < 5 Years*	1	*	0	*	0	*	0	*	2	*	0	*	2	*
Drug Resistant, Ages 5+ Years*	2	*	0	*	0	*	0	*	0	*	9	*	1	*
Drug Susceptible, Ages 5+ Years*	4	*	3	*	2	*	0	*	3	*	10	*	4	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	2	2.7	0	0.0
SUB-TOTAL	25	61.2	19	67.3	22	56.5	78	131.1	18	55.1	49	66.3	52	95.4

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Highland		Hocking		Holmes		Huron		Jackson		Jefferson		Knox	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	0	0.0	1	2.6	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B*	1	2.4	2	7.1	1	2.6	2	3.4	2	6.1	5	6.8	6	11.0
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0
Chronic*	1	2.4	2	7.1	1	2.6	2	3.4	2	6.1	4	5.4	6	11.0
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	12	29.4	13	46.0	7	18.0	32	53.8	31	95.0	43	58.2	12	22.0
Acute*	0	0.0	0	0.0	0	0.0	1	1.7	1	3.1	0	0.0	0	0.0
Past or Present*	12	29.4	13	46.0	7	18.0	31	52.1	30	91.9	43	58.2	12	22.0
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	13	31.8	15	53.1	9	23.1	34	57.2	33	101.1	48	65.0	18	33.0

OUTBREAKS*														
Foodborne*	0	n/a	0	n/a	0	n/a	3	n/a	1	n/a	0	n/a	0	n/a
Waterborne*	0	n/a												
Unspecified*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Conjunctivitis*	0	n/a												
Nosocomial*	0	n/a	1	n/a	0	n/a								
Pediculosis*	0	n/a												
Scabies*	0	n/a												
Staphylococcal Skin Infections*	0	n/a												
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	1	n/a	1	n/a	0	n/a	0	n/a	1	n/a	0	n/a
SUB-TOTAL	0	n/a	1	n/a	1	n/a	4	n/a	1	n/a	2	n/a	0	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	14	34.3	0	0.0	1	2.6	1	1.7	2	6.1	0	0.0	0	0.0
Varicella*	7	17.1	10	35.4	23	59.1	12	20.2	25	76.6	10	13.5	8	14.7
SUB-TOTAL	21	51.4	10	35.4	24	61.6	13	21.9	27	82.7	10	13.5	8	14.7

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	0	0.0	0	0.0	7	21.4	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	1	2.4	0	0.0	1	0.0	0	0.0	8	21.4	1	1.4	0	0.0

GRAND TOTAL	60	146.8	45	155.8	57	141.2	129	210.1	87	260.4	110	146.2	78	143.1
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POPULATION	40,875	28,241	38,943	59,487	32,641	73,894	54,500
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Lake		Lawrence		Licking		Logan		Lorain		Lucas		Madison	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	23	10.1	2	3.2	29	19.9	2	4.3	35	12.3	53	11.6	7	17.4
Coccidioidomycosis*	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	4	1.8	1	1.6	22	15.1	0	0.0	12	4.2	16	3.5	5	12.4
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	1	*	2	*	0	*
Encephalitis	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	3	1.3	0	0.0	1	0.7	1	2.2	3	1.1	15	3.3	0	0.0
O157:H7	3	1.3	0	0.0	0	0.0	1	2.2	3	1.1	11	2.4	0	0.0
Not O157:H7	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.2	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.7	0	0.0
Giardiasis	10	4.4	0	0.0	9	6.2	3	6.5	15	5.3	24	5.3	1	2.5
<i>Haemophilus influenzae</i> , Invasive Disease	2	0.9	1	1.6	2	1.4	0	0.0	0	0.0	11	2.4	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	3	1.3	0	0.0	6	4.1	0	0.0	6	2.1	8	1.8	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	5	2.2	2	3.2	8	5.5	0	0.0	15	5.3	58	12.7	1	2.5
Meningitis, Other Bacterial*	0	0.0	1	1.6	0	0.0	0	0.0	0	0.0	4	0.9	0	0.0
Meningococcal Disease	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	31	13.6	4	6.4	25	17.2	2	4.3	38	13.3	48	10.5	4	9.9
Shigellosis	3	1.3	0	0.0	11	7.6	0	0.0	2	0.7	24	5.3	9	22.4
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0
Streptococcal Disease, Group A, Invasive	3	1.3	0	0.0	0	0.0	1	2.2	6	2.1	5	1.1	1	2.5
Streptococcal Disease, Group B, in Newborn*	0	*	1	*	1	*	0	*	2	*	4	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	20	8.8	10	16.0	22	15.1	6	13.0	9	3.2	62	13.6	7	17.4
Ages < 5 Years*	0	*	1	*	0	*	1	*	0	*	4	*	1	*
Drug Resistant, Ages 5+ Years*	6	*	1	*	4	*	1	*	3	*	15	*	0	*
Drug Susceptible, Ages 5+ Years*	14	*	8	*	18	*	4	*	6	*	43	*	6	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	0	0.0	0	0.0	2	1.4	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	109	47.9	22	35.3	139	95.5	16	34.8	144	50.6	337	74.1	35	87.0

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Lake		Lawrence		Licking		Logan		Lorain		Lucas		Madison	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	5	2.2	0	0.0	1	0.7	0	0.0	2	0.7	3	0.7	0	0.0
Hepatitis B*	15	6.6	8	12.8	15	10.3	1	2.2	30	10.5	49	10.8	10	24.9
Acute*	0	0.0	0	0.0	2	1.4	0	0.0	2	0.7	2	0.4	0	0.0
Chronic*	15	6.6	8	12.8	13	8.9	1	2.2	28	9.8	46	10.1	10	24.9
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	1	*	0	*
Hepatitis C*	117	51.4	84	134.8	61	41.9	13	28.3	519	182.3	182	40.0	46	114.4
Acute*	0	0.0	2	3.2	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0
Past or Present*	117	51.4	82	131.6	61	41.9	13	28.3	518	182.0	182	40.0	46	114.4
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4	0	0.0
SUB-TOTAL	137	60.2	92	147.6	77	52.9	14	30.4	551	193.6	236	51.9	56	139.3

OUTBREAKS*														
Foodborne*	6	n/a	0	n/a	2	n/a	0	n/a	3	n/a	6	n/a	1	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Unspecified*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Conjunctivitis*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Nosocomial*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a
Pediculosis*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Scabies*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	2	n/a	0	n/a
Staphylococcal Skin Infections*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	4	n/a	1	n/a	0	n/a	0	n/a	1	n/a	4	n/a	0	n/a
SUB-TOTAL	10	n/a	1	n/a	2	n/a	0	n/a	4	n/a	13	n/a	1	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	4	0.9	0	0.0
Pertussis	2	0.9	0	0.0	19	13.1	2	4.3	5	1.8	5	1.1	3	7.5
Varicella*	21	9.2	13	20.9	24	16.5	14	30.4	53	18.6	35	7.7	4	9.9
SUB-TOTAL	23	10.1	13	20.9	43	29.6	16	34.8	59	20.7	44	9.7	7	17.4

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	2	3.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	2	3.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	0	0.0	1	0.7	0	0.0	2	0.7	3	0.7	0	0.0
Malaria	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	7	n/a	1	n/a	2	n/a	0	n/a	1	n/a	2	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	1	1.6	2	1.4	0	0.0	0	0.0	1	0.2	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	2	0.4	0	0.0
SUB-TOTAL	7	0.0	4	4.8	7	3.4	0	0.0	5	1.4	8	1.3	0	0.0

GRAND TOTAL	286	118.2	132	208.6	268	181.5	46	100.0	763	266.3	638	136.9	99	243.7
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POPULATION	227,511	62,319	145,491	46,005	284,664	455,054	40,213
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N = number of cases reported.
 Rates use 2000 U.S. Census counts and are per 100,000 population.
 n/a = not applicable.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Mahoning		Marion		Medina		Meigs		Mercer		Miami		Monroe	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	8	3.1	8	12.1	23	15.2	1	4.3	30	73.3	14	14.2	1	6.6
Coccidioidomycosis*	1	0.4	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	6	2.3	11	16.6	5	3.3	0	0.0	17	41.5	4	4.0	0	0.0
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Encephalitis	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	0.8	1	1.5	4	2.6	1	4.3	4	9.8	0	0.0	0	0.0
O157:H7	2	0.8	1	1.5	3	2.0	0	0.0	4	9.8	0	0.0	0	0.0
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown Serotype	0	0.0	0	0.0	1	0.7	1	4.3	0	0.0	0	0.0	0	0.0
Giardiasis	4	1.6	4	6.0	8	5.3	2	8.7	9	22.0	10	10.1	0	0.0
<i>Haemophilus influenzae</i> , Invasive Disease	2	0.8	0	0.0	1	0.7	0	0.0	2	4.9	1	1.0	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	13	5.0	0	0.0	7	4.6	0	0.0	2	4.9	1	1.0	1	6.6
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	2	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	6	2.3	3	4.5	11	7.3	0	0.0	0	0.0	3	3.0	1	6.6
Meningitis, Other Bacterial*	0	0.0	0	0.0	2	1.3	0	0.0	0	0.0	0	0.0	0	0.0
Meningococcal Disease	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	18	7.0	7	10.6	31	20.5	2	8.7	8	19.5	13	13.1	0	0.0
Shigellosis	7	2.7	0	0.0	5	3.3	0	0.0	2	4.9	7	7.1	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	7	2.7	3	4.5	8	5.3	0	0.0	0	0.0	4	4.0	0	0.0
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	2	*	0	*	0	*	2	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	39	15.1	0	0.0	21	13.9	0	0.0	6	14.7	15	15.2	1	6.6
Ages < 5 Years*	2	*	0	*	0	*	0	*	1	*	3	*	0	*
Drug Resistant, Ages 5+ Years*	20	*	0	*	3	*	0	*	2	*	1	*	1	*
Drug Susceptible, Ages 5+ Years*	17	*	0	*	18	*	0	*	3	*	11	*	0	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	118	45.8	39	58.9	129	85.4	6	26.0	80	195.5	74	74.8	4	26.4

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Mahoning		Marion		Medina		Meigs		Mercer		Miami		Monroe	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B*	28	10.9	8	12.1	9	6.0	1	4.3	0	0.0	1	1.0	0	0.0
Acute*	3	1.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic*	25	9.7	8	12.1	9	6.0	1	4.3	0	0.0	1	1.0	0	0.0
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	183	71.1	46	69.5	42	27.8	22	95.4	4	9.8	33	33.4	6	39.5
Acute*	1	0.4	0	0.0	1	0.7	0	0.0	0	0.0	1	1.0	0	0.0
Past or Present*	182	70.7	46	69.5	41	27.1	22	95.4	4	9.8	32	32.4	6	39.5
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	211	81.9	54	81.6	51	33.8	23	99.7	4	9.8	34	34.4	6	39.5

OUTBREAKS*														
Foodborne*	2	n/a	2	n/a	2	n/a	0	n/a	1	n/a	0	n/a	1	n/a
Waterborne*	0	n/a												
Unspecified*	0	n/a												
Conjunctivitis*	0	n/a												
Nosocomial*	1	n/a	0	n/a										
Pediculosis*	0	n/a												
Scabies*	0	n/a												
Staphylococcal Skin Infections*	0	n/a	0	n/a	0	n/a	0	n/a	2	n/a	0	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	1	n/a	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a	0	n/a
SUB-TOTAL	4	n/a	2	n/a	3	n/a	0	n/a	4	n/a	0	n/a	1	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	2	0.8	0	0.0	5	3.3	1	4.3	5	12.2	0	0.0	0	0.0
Varicella*	35	13.6	11	16.6	19	12.6	11	47.7	13	31.8	30	30.3	0	0.0
SUB-TOTAL	38	14.8	11	16.6	24	15.9	12	52.0	18	44.0	30	30.3	0	0.0

ZOOZOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a	1	n/a
Rocky Mountain Spotted Fever (RMSF)	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	2	0.8	0	0.0	1	0.0	0	0.0	1	0.0	1	1.0	1	0.0

GRAND TOTAL	373	143.3	106	157.1	208	135.0	41	177.7	107	249.2	139	140.6	12	65.9
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POPULATION	257,555	66,217	151,095	23,072	40,924	98,868	15,180
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Montgomery		Morgan		Morrow		Muskingum		Noble		Ottawa		Paulding	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	46	8.2	2	13.4	7	22.1	17	20.1	1	7.1	6	14.6	3	14.8
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	16	2.9	0	0.0	2	6.3	4	4.7	0	0.0	1	2.4	0	0.0
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	2	*	0	*	0	*	0	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	11	2.0	0	0.0	3	9.5	3	3.5	0	0.0	1	2.4	1	4.9
O157:H7	9	1.6	0	0.0	1	3.2	3	3.5	0	0.0	0	0.0	1	4.9
Not O157:H7	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	2.4	0	0.0
Unknown Serotype	1	0.2	0	0.0	2	6.3	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	33	5.9	1	6.7	2	6.3	22	26.0	1	7.1	2	4.9	0	0.0
<i>Haemophilus influenzae</i> , Invasive Disease	10	1.8	0	0.0	0	0.0	2	2.4	0	0.0	0	0.0	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	5	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	8	1.4	1	6.7	1	3.2	4	4.7	0	0.0	0	0.0	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	60	10.7	1	6.7	1	3.2	7	8.3	1	7.1	1	2.4	1	4.9
Meningitis, Other Bacterial*	9	1.6	0	0.0	0	0.0	0	0.0	1	7.1	0	0.0	0	0.0
Meningococcal Disease	0	0.0	0	0.0	0	0.0	2	2.4	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	54	9.7	4	26.9	4	12.6	15	17.7	0	0.0	6	14.6	2	9.9
Shigellosis	330	59.0	1	6.7	0	0.0	2	2.4	0	0.0	1	2.4	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	8	1.4	1	6.7	2	6.3	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group B, in Newborn*	4	*	0	*	0	*	1	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	73	13.1	1	6.7	5	15.8	10	11.8	0	0.0	2	4.9	3	14.8
Ages < 5 Years*	8	*	1	*	1	*	0	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	19	*	0	*	1	*	2	*	0	*	0	*	2	*
Drug Susceptible, Ages 5+ Years*	46	*	0	*	3	*	8	*	0	*	2	*	1	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	3	0.5	0	0.0	0	0.0	0	0.0	1	7.1	1	2.4	0	0.0
SUB-TOTAL	674	120.6	12	80.6	27	85.4	89	105.2	5	35.6	21	51.2	10	49.3

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Montgomery		Morgan		Morrow		Muskingum		Noble		Ottawa		Paulding	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	8	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B*	92	16.5	0	0.0	2	6.3	0	0.0	2	14.2	1	2.4	1	4.9
Acute*	5	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic*	87	15.6	0	0.0	2	6.3	0	0.0	2	14.2	1	2.4	1	4.9
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	430	76.9	5	33.6	13	41.1	41	48.5	18	128.0	14	34.2	3	14.8
Acute*	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	3	7.3	0	0.0
Past or Present*	429	76.7	5	33.6	13	41.1	41	48.5	18	128.0	11	26.8	3	14.8
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	530	94.8	5	33.6	15	47.4	41	48.5	20	142.3	15	36.6	4	19.7

OUTBREAKS*														
Foodborne*	6	n/a	0	n/a										
Waterborne*	0	n/a	1	n/a	0	n/a								
Unspecified*	0	n/a												
Conjunctivitis*	0	n/a												
Nosocomial*	1	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Pediculosis*	0	n/a												
Scabies*	0	n/a												
Staphylococcal Skin Infections*	0	n/a												
Unusual Incidence of Non-Class A, Class B or Class C Disease*	2	n/a	0	n/a										
SUB-TOTAL	9	n/a	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	15	2.7	1	6.7	2	6.3	1	1.2	0	0.0	0	0.0	3	14.8
Varicella*	112	20.0	1	6.7	23	72.7	7	8.3	4	28.5	30	73.2	1	4.9
SUB-TOTAL	128	22.9	2	13.4	25	79.0	8	9.5	4	28.5	30	73.2	4	19.7

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	1	0.2	0	0.0	1	3.2	0	0.0	0	0.0	0	0.0	0	0.0
Malaria	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	2	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	2	13.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus*	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	1	2.4	0	0.0
SUB-TOTAL	6	0.7	2	13.4	2	6.3	0	0.0	0	0.0	1	2.4	0	0.0

GRAND TOTAL	1,347	239.0	21	141.0	69	218.2	139	163.1	29	206.3	68	163.5	18	88.7
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POPULATION	559,062	14,897	31,628	84,585	14,058	40,985	20,293
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Perry		Pickaway		Pike		Portage		Preble		Putnam		Richland	
	N	Rate												
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	4	11.7	9	17.1	0	0.0	18	11.8	2	4.7	7	20.2	12	9.3
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	0	0.0	5	9.5	3	10.8	5	3.3	0	0.0	0	0.0	2	1.6
Cyclosporiasis	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	1	*	0	*	0	*	0	*	0	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	1	2.9	1	1.9	0	0.0	5	3.3	3	7.1	0	0.0	1	0.8
O157:H7	1	2.9	1	1.9	0	0.0	5	3.3	1	2.4	0	0.0	0	0.0
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	2	4.7	0	0.0	1	0.8
Giardiasis	1	2.9	3	5.7	4	14.4	4	2.6	1	2.4	1	2.9	8	6.2
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	2	3.8	0	0.0	2	1.3	0	0.0	1	2.9	2	1.6
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	2	3.8	0	0.0	1	0.7	0	0.0	0	0.0	3	2.3
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	2	3.8	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	5	14.7	3	5.7	1	3.6	2	1.3	2	4.7	9	25.9	4	3.1
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.9	0	0.0
Meningococcal Disease	0	0.0	1	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	3	8.8	6	11.4	2	7.2	23	15.1	4	9.4	4	11.5	9	7.0
Shigellosis	0	0.0	0	0.0	0	0.0	9	5.9	1	2.4	0	0.0	23	17.8
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	0	0.0	1	1.9	3	10.8	4	2.6	1	2.4	0	0.0	2	1.6
Streptococcal Disease, Group B, in Newborn*	1	*	0	*	1	*	0	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	0	0.0	9	17.1	2	7.2	9	5.9	3	7.1	5	14.4	9	7.0
Ages < 5 Years*	0	*	1	*	0	*	1	*	1	*	4	*	0	*
Drug Resistant, Ages 5+ Years*	0	*	1	*	1	*	1	*	0	*	0	*	1	*
Drug Susceptible, Ages 5+ Years*	0	*	7	*	1	*	7	*	2	*	1	*	8	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	0	0.0	0	0.0	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0
SUB-TOTAL	15	44.0	44	83.4	17	61.4	84	55.2	19	44.9	28	80.6	76	59.0

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Perry		Pickaway		Pike		Portage		Preble		Putnam		Richland	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B*	1	2.9	31	58.8	7	25.3	20	13.2	2	4.7	1	2.9	9	7.0
Acute*	0	0.0	0	0.0	1	3.6	0	0.0	0	0.0	0	0.0	1	0.8
Chronic*	1	2.9	31	58.8	6	21.7	20	13.2	2	4.7	1	2.9	8	6.2
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	8	23.5	790	1,498.3	32	115.5	46	30.3	14	33.1	4	11.5	74	57.4
Acute*	0	0.0	0	0.0	1	3.6	1	0.7	0	0.0	0	0.0	1	0.8
Past or Present*	8	23.5	790	1,498.3	31	111.9	45	29.6	14	33.1	4	11.5	73	56.7
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	9	26.4	821	1,557.1	39	140.8	66	43.4	16	37.8	5	14.4	83	64.4

OUTBREAKS*														
Foodborne*	0	n/a	0	n/a	0	n/a	2	n/a	0	n/a	0	n/a	0	n/a
Waterborne*	0	n/a												
Unspecified*	0	n/a	2	n/a										
Conjunctivitis*	0	n/a												
Nosocomial*	0	n/a												
Pediculosis*	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Scabies*	0	n/a												
Staphylococcal Skin Infections*	0	n/a	1	n/a	0	n/a								
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	1	n/a	0	n/a								
SUB-TOTAL	0	n/a	0	n/a	1	n/a	2	n/a	0	n/a	2	n/a	2	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	0	0.0	1	1.9	5	18.1	4	2.6	5	11.8	3	8.6	36	27.9
Varicella*	8	23.5	34	64.5	26	93.9	40	26.3	12	28.3	3	8.6	84	65.2
SUB-TOTAL	8	23.5	35	66.4	31	111.9	44	28.9	17	40.2	6	17.3	120	93.1

ZOOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	1	2.9	0	0.0	1	3.6	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	1	n/a	0	n/a	0	n/a	2	n/a	0	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	2	7.2	0	0.0	1	2.4	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	2	2.9	0	0.0	3	10.8	4	1.3	1	2.4	0	0.0	0	0.0

GRAND TOTAL	34	96.8	900	1,706.9	91	325.0	200	128.9	53	125.2	41	112.3	281	216.5
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POPULATION	34,078	52,727	27,695	152,061	42,337	34,726	128,852
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N = number of cases reported.
 Rates use 2000 U.S. Census counts and are per 100,000 population.
 n/a = not applicable.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Ross		Sandusky		Scioto		Seneca		Shelby		Stark		Summit	
	N	Rate	N	Rate	N	Rate								
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	9	12.3	8	12.9	8	10.1	8	13.6	15	31.3	56	14.8	64	11.8
Coccidioidomycosis*	0	0.0	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0
Cryptosporidiosis	11	15.0	6	9.7	3	3.8	1	1.7	4	8.3	26	6.9	9	1.7
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	*	1	*	1	*
Encephalitis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.8	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
Primary Viral	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	0	0.0	1	1.3	3	5.1	1	2.1	2	0.5	2	0.4
O157:H7	0	0.0	0	0.0	1	1.3	3	5.1	0	0.0	1	0.3	1	0.2
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0	1	0.2
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
Giardiasis	2	2.7	5	8.1	4	5.1	1	1.7	0	0.0	41	10.8	74	13.6
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	1	1.6	0	0.0	0	0.0	0	0.0	8	2.1	7	1.3
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
Legionellosis	0	0.0	1	1.6	1	1.3	1	1.7	3	6.3	14	3.7	13	2.4
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4
Listeriosis	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	2	0.5	1	0.2
Meningitis, Aseptic	6	8.2	4	6.5	6	7.6	2	3.4	5	10.4	28	7.4	52	9.6
Meningitis, Other Bacterial*	1	1.4	0	0.0	0	0.0	0	0.0	1	2.1	3	0.8	3	0.6
Meningococcal Disease	1	1.4	0	0.0	1	1.3	0	0.0	0	0.0	1	0.3	4	0.7
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.4
Salmonellosis	11	15.0	12	19.4	14	17.7	2	3.4	7	14.6	45	11.9	62	11.4
Shigellosis	0	0.0	0	0.0	0	0.0	1	1.7	1	2.1	206	54.5	100	18.4
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	3	4.1	1	1.6	1	1.3	0	0.0	1	2.1	11	2.9	26	4.8
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	0	*	0	*	2	*	3	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	12	16.4	6	9.7	4	5.1	7	11.9	9	18.8	56	14.8	43	7.9
Ages < 5 Years*	3	*	0	*	1	*	2	*	1	*	3	*	3	*
Drug Resistant, Ages 5+ Years*	1	*	3	*	2	*	1	*	1	*	26	*	12	*
Drug Susceptible, Ages 5+ Years*	8	*	3	*	1	*	4	*	7	*	27	*	28	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.8	2	0.4
SUB-TOTAL	56	76.4	44	71.2	44	55.6	27	46.0	47	98.1	515	136.2	473	87.1

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Ross		Sandusky		Scioto		Seneca		Shelby		Stark		Summit	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	1	0.2
Hepatitis B*	7	9.5	6	9.7	14	17.7	0	0.0	0	0.0	21	5.6	76	14.0
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.8	13	2.4
Chronic*	7	9.5	6	9.7	14	17.7	0	0.0	0	0.0	18	4.8	63	11.6
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	99	135.0	36	58.3	152	191.9	7	11.9	23	48.0	199	52.6	345	63.5
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	5	1.3	1	0.2
Past or Present*	99	135.0	36	58.3	152	191.9	7	11.9	22	45.9	194	51.3	344	63.4
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	106	144.5	42	68.0	166	209.6	7	11.9	23	48.0	222	58.7	422	77.7

OUTBREAKS*														
Foodborne*	0	n/a	1	n/a	1	n/a	1	n/a	0	n/a	2	n/a	3	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a
Unspecified*	0	n/a	6	n/a	3	n/a								
Conjunctivitis*	0	n/a	0	n/a	0	n/a								
Nosocomial*	0	n/a	0	n/a	1	n/a								
Pediculosis*	0	n/a	0	n/a	0	n/a								
Scabies*	1	n/a	0	n/a	0	n/a								
Staphylococcal Skin Infections*	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	2	n/a	0	n/a	1	n/a	0	n/a	1	n/a	4	n/a
SUB-TOTAL	1	n/a	3	n/a	2	n/a	3	n/a	0	n/a	10	n/a	11	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	1	0.2
Pertussis	3	4.1	6	9.7	2	2.5	2	3.4	1	2.1	1	0.3	4	0.7
Varicella*	12	16.4	40	64.7	39	49.2	15	25.6	16	33.4	50	13.2	94	17.3
SUB-TOTAL	15	20.5	46	74.4	41	51.8	17	29.0	17	35.5	53	14.0	99	18.2

ZOOZOSES														
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	3	3.8	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	3	3.8	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	1	0.3	1	0.2
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	2	n/a	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	3	n/a
Rocky Mountain Spotted Fever (RMSF)	1	1.4	0	0.0	2	2.5	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	3	1.4	0	0.0	5	6.3	1	1.7	1	0.0	1	0.3	6	0.6

GRAND TOTAL	181	242.7	135	213.6	258	323.3	55	88.6	88	181.6	801	209.2	1,011	183.6
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POPULATION	73,345	61,792	79,195	58,683	47,910	378,098	542,899
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N = number of cases reported.
 Rates use 2000 U.S. Census counts and are per 100,000 population.
 n/a = not applicable.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Trumbull		Tuscarawas		Union		Van Wert		Vinton		Warren		Washington	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	15	6.7	14	15.4	0	0.0	2	6.7	1	7.8	16	10.1	4	6.3
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	8	3.6	0	0.0	5	12.2	1	3.4	0	0.0	2	1.3	1	1.6
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	1	*	0	*	0	*	0	*	0	*	0	*
Encephalitis	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
Primary Viral	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	0.9	0	0.0	1	2.4	0	0.0	0	0.0	6	3.8	1	1.6
O157:H7	2	0.9	0	0.0	1	2.4	0	0.0	0	0.0	6	3.8	1	1.6
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	9	4.0	9	9.9	6	14.7	1	3.4	2	15.6	11	6.9	1	1.6
<i>Haemophilus influenzae</i> , Invasive Disease	3	1.3	2	2.2	0	0.0	0	0.0	0	0.0	2	1.3	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.9	0	0.0
Legionellosis	3	1.3	1	1.1	1	2.4	2	6.7	0	0.0	2	1.3	0	0.0
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	1	0.4	0	0.0	2	4.9	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	6	2.7	9	9.9	0	0.0	2	6.7	0	0.0	17	10.7	3	4.7
Meningitis, Other Bacterial*	0	0.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Meningococcal Disease	1	0.4	2	2.2	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	19	8.4	15	16.5	6	14.7	3	10.1	0	0.0	13	8.2	10	15.8
Shigellosis	13	5.8	3	3.3	5	12.2	0	0.0	0	0.0	3	1.9	1	1.6
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0	0	0.0	1	1.6
Streptococcal Disease, Group A, Invasive	6	2.7	4	4.4	1	2.4	0	0.0	0	0.0	2	1.3	1	1.6
Streptococcal Disease, Group B, in Newborn*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	38	16.9	9	9.9	3	7.3	1	3.4	2	15.6	19	12.0	2	3.2
Ages < 5 Years*	4	*	1	*	0	*	1	*	1	*	3	*	0	*
Drug Resistant, Ages 5+ Years*	15	*	0	*	1	*	0	*	1	*	5	*	0	*
Drug Susceptible, Ages 5+ Years*	19	*	8	*	2	*	0	*	0	*	11	*	2	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	2	0.9	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	128	56.9	71	78.1	31	75.8	12	40.5	5	39.0	98	61.9	27	42.7

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Trumbull		Tuscarawas		Union		Van Wert		Vinton		Warren		Washington	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	1	0.4	1	1.1	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
Hepatitis B*	28	12.4	4	4.4	5	12.2	0	0.0	1	7.8	19	12.0	4	6.3
Acute*	3	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic*	25	11.1	4	4.4	5	12.2	0	0.0	1	7.8	19	12.0	4	6.3
Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C*	123	54.6	28	30.8	303	740.7	12	40.5	5	39.0	95	60.0	43	68.0
Acute*	1	0.4	0	0.0	1	2.4	1	3.4	0	0.0	0	0.0	0	0.0
Past or Present*	122	54.2	28	30.8	302	738.2	11	37.1	5	39.0	95	60.0	43	68.0
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	152	67.5	33	36.3	308	752.9	12	40.5	6	46.9	115	72.6	47	74.3

OUTBREAKS*														
Foodborne*	0	n/a	3	n/a	0	n/a								
Waterborne*	0	n/a												
Unspecified*	0	n/a	1	n/a	0	n/a								
Conjunctivitis*	0	n/a												
Nosocomial*	0	n/a												
Pediculosis*	0	n/a												
Scabies*	0	n/a	1	n/a	0	n/a								
Staphylococcal Skin Infections*	0	n/a	1	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	0	n/a	2	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	0	n/a	1	n/a	2	n/a	1	n/a	0	n/a	5	n/a	0	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	0	0.0	0	0.0	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	12	5.3	0	0.0	4	9.8	1	3.4	3	23.4	30	18.9	0	0.0
Varicella*	58	25.8	51	56.1	29	70.9	22	74.2	0	0.0	40	25.3	11	17.4
SUB-TOTAL	70	31.1	51	56.1	34	83.1	23	77.5	3	23.4	70	44.2	11	17.4

ZOOSES														
Dengue	0	0.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Anaplasma phagocytophilum</i> *	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Encephalitis*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	2	0.9	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	3	n/a	1	n/a	0	n/a								
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
West Nile Virus*	0	0.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	6	1.3	4	3.3	0	0.0	0	0.0	0	0.0	1	0.6	1	1.6

GRAND TOTAL	356	156.8	160	173.8	375	911.8	48	158.5	14	109.3	289	179.3	86	136.0
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POPULATION	225,116	90,914	40,909	29,659	12,806	158,383	63,251
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N = number of cases reported.
 Rates use 2000 U.S. Census counts and are per 100,000 population.
 n/a = not applicable.
 * Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

GENERAL INFECTIOUS DISEASES	Wayne		Williams		Wood		Wyandot		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	34	0.3
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	4	0.0
Foodborne	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	3	0.0
Infant*	0	*	0	*	0	*	0	*	0	n/a	1	*
Campylobacteriosis	21	18.8	7	17.9	17	14.0	1	4.4	0	n/a	1,215	10.7
Coccidioidomycosis*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	14	0.1
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Cryptosporidiosis	0	0.0	1	2.6	7	5.8	0	0.0	0	n/a	704	6.2
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	n/a	15	*
Encephalitis	0	0.0	0	0.0	1	0.8	0	0.0	0	n/a	15	0.1
Post Other Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	3	0.0
Primary Viral	0	0.0	0	0.0	1	0.8	0	0.0	0	n/a	12	0.1
<i>Escherichia coli</i> , Shiga Toxin-Producing	6	5.4	0	0.0	4	3.3	2	8.7	0	n/a	209	1.8
O157:H7	6	5.4	0	0.0	0	0.0	0	0.0	0	n/a	161	1.4
Not O157:H7	0	0.0	0	0.0	2	1.7	0	0.0	0	n/a	20	0.2
Unknown Serotype	0	0.0	0	0.0	2	1.7	2	8.7	0	n/a	28	0.2
Giardiasis	5	4.5	5	12.8	10	8.3	2	8.7	0	n/a	891	7.8
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	0	0.0	2	1.7	0	0.0	0	n/a	128	1.1
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	8	0.1
Kawasaki Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	27	0.2
Legionellosis	2	1.8	0	0.0	0	0.0	0	0.0	0	n/a	248	2.2
Leprosy (Hansen's Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Listeriosis	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	29	0.3
Meningitis, Aseptic	7	6.3	1	2.6	18	14.9	0	0.0	0	n/a	770	6.8
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	59	0.5
Meningococcal Disease	0	0.0	1	2.6	0	0.0	0	0.0	0	n/a	42	0.4
Rheumatic Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Salmonellosis	22	19.7	5	12.8	15	12.4	2	8.7	0	n/a	1,378	12.1
Shigellosis	13	11.7	0	0.0	1	0.8	0	0.0	0	n/a	1,954	17.2
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	4	0.0
Streptococcal Disease, Group A, Invasive	1	0.9	0	0.0	1	0.8	0	0.0	0	n/a	265	2.3
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	0	*	0	n/a	51	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	1	0.8	0	0.0	0	n/a	12	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	4	3.6	1	2.6	10	8.3	1	4.4	0	n/a	1,240	10.9
Ages < 5 Years*	1	*	0	*	2	*	0	*	0	n/a	123	*
Drug Resistant, Ages 5+ Years*	0	*	0	*	4	*	0	*	0	n/a	338	*
Drug Susceptible, Ages 5+ Years*	3	*	1	*	4	*	1	*	0	n/a	779	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	4	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	10	0.1
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	9	0.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	4	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Yersiniosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	48	0.4
SUB-TOTAL	82	73.5	21	53.6	87	71.9	8	34.9	0	n/a	9,397	82.8

N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2008

HEPATITIS	Wayne		Williams		Wood		Wyandot		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Hepatitis A	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	54	0.5
Hepatitis B*	10	9.0	0	0.0	9	7.4	0	0.0	58	n/a	1,681	14.8
Acute*	0	0.0	0	0.0	2	1.7	0	0.0	0	n/a	131	1.2
Chronic*	10	9.0	0	0.0	7	5.8	0	0.0	58	n/a	1,549	13.6
Perinatal Infection*	0	*	0	*	0	*	0	*	0	n/a	1	*
Hepatitis C*	47	42.1	10	25.5	23	19.0	5	21.8	344	n/a	9,112	80.3
Acute*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	41	0.4
Past or Present*	47	42.1	10	25.5	23	19.0	5	21.8	344	n/a	9,071	79.9
Hepatitis E	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
SUB-TOTAL	57	51.1	10	25.5	32	26.4	5	21.8	402	n/a	10,849	95.6

OUTBREAKS*

Foodborne*	0	n/a	88	n/a								
Waterborne*	0	n/a	4	n/a								
Unspecified*	0	n/a	67	n/a								
Conjunctivitis*	0	n/a	1	n/a								
Nosocomial*	0	n/a	12	n/a								
Pediculosis*	0	n/a	4	n/a								
Scabies*	0	n/a	14	n/a								
Staphylococcal Skin Infections*	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	21	n/a
Unusual Incidence of Non-Class A, Class B or Class C Disease*	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	73	n/a
SUB-TOTAL	1	n/a	0	n/a	1	n/a	0	n/a	0	n/a	284	n/a

VACCINE-PREVENTABLE

Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Mumps	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	17	0.1
Pertussis	1	0.9	0	0.0	1	0.0	0	0.0	0	n/a	628	5.5
Varicella*	70	62.7	3	7.7	16	13.2	4	17.5	0	n/a	2,392	21.1
SUB-TOTAL	72	64.5	3	7.7	17	14.0	4	17.5	0	n/a	3,038	26.8

ZOOSES

Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	7	0.1
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	1	4.4	0	n/a	12	0.1
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	1	4.4	0	n/a	11	0.1
LaCrosse Encephalitis*	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	6	0.1
Leptospirosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Lyme Disease	1	0.9	0	0.0	2	1.7	0	0.0	0	n/a	45	0.4
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	31	0.3
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Rabies, Animal*	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	64	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	2	1.7	0	0.0	0	n/a	31	0.3
West Nile Virus*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	15	0.1
SUB-TOTAL	3	1.8	0	0.0	4	3.3	1	4.4	0	n/a	213	1.3

GRAND TOTAL	215	190.9	34	86.8	141	115.6	18	78.6	402	n/a	23,781	206.4
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POPULATION	111,564	39,188	121,065	22,908	0	11,353,140
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N = number of cases reported.

Rates use 2000 U.S. Census counts and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 75-78).

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2004-2008**

SEROTYPE	2004	2005	2006	2007	2008
Aberdeen	0	0	2	0	0
Adelaide	0	0	2	1	0
Agbeni	1	5	8	3	3
Ago	0	0	1	0	0
Agona	7	14	17	22	19
Ajiobo	1	0	0	0	0
Alachua	2	0	0	0	0
Albany	0	0	2	1	1
Altona	0	0	0	0	1
Amager	0	0	0	0	1
Anatum	6	7	8	5	5
Apapa	0	0	0	1	1
Apeyeme	1	1	0	0	0
Aqua	0	1	0	0	0
Augustenborg	0	1	0	0	0
Babelsberg	1	0	0	0	0
Baildon	0	16	2	0	2
Bareilly	10	3	3	3	2
Barranquilla	0	0	0	1	0
Berta	5	1	15	10	9
Blockley	2	3	2	0	1
Bonariensis	0	0	1	0	0
Bovis-morbificans	2	11	4	2	7
Braenderup	38	57	20	12	18
Brandenburg	1	1	0	3	1
Brazil	0	1	0	0	0
Brazzaville	0	0	0	0	1
Bredeney	1	0	2	0	1
Bsilla	1	0	0	0	0
California	1	0	0	0	0
Carmel	0	0	1	0	1
Cerro	0	0	1	0	0
Chester	0	0	1	3	1
Choleraesuis	1	1	0	0	1
Choleraesuis, var Kunzendorf	1	0	0	0	0
Coeln	1	0	0	0	0
Colindale	0	1	0	0	0
Corvallis	0	0	0	0	1
Cubana	1	0	1	1	0
Derby	4	3	5	5	6
Dublin	0	0	0	5	6
Durban	0	1	0	2	0
Ealing	0	1	0	1	0
Eastbourne	0	0	0	1	1
Edinburg	0	1	1	0	0
Elomrane	1	0	0	0	0
Enteritidis	228	284	280	268	293
Farsta	1	0	0	0	0
Fluntern	0	0	0	0	1
Gaminara	1	1	1	0	1
Georgia	0	0	0	0	1
Give	7	4	2	1	2
Give, var 15 +	0	0	0	1	0
Glostrup	0	0	0	0	1
Gombe	1	0	0	0	0
Grumpensis	0	1	1	0	0
Guinea	0	0	1	1	0
Hadar	4	5	9	6	9
Haifa	1	0	0	1	0
Hartford	11	21	27	25	12
Havana	1	2	0	0	3
Heidelberg	56	66	46	47	57
Hindmarsh	0	1	2	0	0
Holcomb	0	1	1	1	0
Hull	0	0	0	0	1
Hvittingfoss	2	1	1	1	0

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2004-2008**

SEROTYPE	2004	2005	2006	2007	2008
Indiana	1	0	1	0	0
Infantis	5	18	8	12	7
Inverness	0	0	0	0	1
Irumu	0	0	0	1	0
Isangi	0	0	1	0	1
Jangwani	0	0	0	0	1
Javiana	38	26	44	15	11
Johannesburg	1	2	1	2	1
Kaduna	0	0	1	0	0
Kapemba	1	0	0	0	0
Kedougou	0	1	0	0	1
Kentucky	0	1	3	0	2
Kiambu	0	2	1	0	1
Kingabwa	0	1	0	2	0
Kingston	0	1	0	0	0
Kintambo	2	0	0	0	0
Kotu	0	1	0	0	0
Labadi	0	0	0	2	0
Lexington	2	0	0	0	1
Lindenburg	0	1	0	0	0
Litchfield	5	1	6	10	6
Liverpool	0	1	0	1	0
Livingstone	0	0	1	0	0
Loma Linda	0	1	0	1	0
London	1	1	1	1	1
Madelia	0	0	1	0	0
Manhattan	1	0	4	3	0
Matadi	1	0	0	1	0
Mbandaka	3	11	8	6	1
Meleagridis	0	0	5	4	1
Mendoza	6	1	0	0	0
Miami	2	6	1	0	2
Michigan	0	0	1	0	1
Minnesota	2	3	2	1	1
Mississippi	0	3	9	3	2
Monschau	0	2	0	0	0
Montevideo	19	24	25	19	15
Morotai	1	0	0	0	0
Muenchen	15	11	17	17	56
Muenster	0	2	3	1	0
Muenster, var 15 +	0	1	0	0	0
Newport	80	80	71	58	52
Nima	0	2	0	0	0
Oakland	0	0	0	0	1
Ohio	2	1	1	5	1
Oranienburg	16	23	30	51	34
Oslo	1	1	0	0	2
Othmarschen	0	1	0	0	0
Overschie	0	0	1	0	0
Panama	3	2	1	12	4
Paratyphi A	6	2	6	7	4
Paratyphi B	11	1	1	1	2
Paratyphi B, var L - Tartrate +	20	38	15	11	41
Paratyphi B, var Tartrate +	7	0	28	40	3
Poano	2	0	0	0	0
Pomona	5	4	1	1	0
Poona	2	6	5	10	21
Potsdam	0	0	0	1	1
Reading	3	2	0	2	2
Roodepoort	0	1	0	0	0
Rubislaw	1	0	0	0	0
Saint Paul	15	23	16	9	22
Sal. (I) 1,9,12:i,z28:-	0	1	0	0	1
Sal. (I) 4,5,12:i:-	1	0	30	88	91
Sal. (I) 6,7:-:5	0	0	0	4	0
Sal. (I) 6,7:b:-	0	0	0	1	0

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2004-2008**

SEROTYPE	2004	2005	2006	2007	2008
Sal. (I) 6,8:d:-	0	0	0	1	0
Sal. (I) 6,14,25:b:-	1	0	0	0	0
Sal. (I) 9,12:Non-motile	1	1	0	0	0
Sal. (I) 43:k:-	0	0	1	0	0
Sal. (I) 44:z4	0	1	0	0	0
Sal. (I) Rough:d:1,2	0	1	0	0	0
Sal. (I) Rough:r:e,n,x	0	0	1	0	0
Sal. (II) 9,46:m,tx	1	0	0	0	0
Sal. (II) 21:z10:-	0	0	0	1	0
Sal. (II) 47:a:1,5 (Bilthoven)	0	1	0	0	0
Sal. (II) 58:l,z13,z28:z6	1	0	0	0	0
Sal. (III) Arizona	3	0	4	0	5
Sal. (IIIa) 13,23:z4, ...:-	0	0	0	1	0
Sal. (IIIa) 21:g,z51:-	0	1	0	0	0
Sal. (IIIa) 35:z4,z23:-	0	1	0	0	0
Sal. (IIIa) 41:z4,z23:-	1	2	0	1	2
Sal. (IIIa) 42:z4,z23:-	0	0	2	0	0
Sal. (IIIa) 42:z4,z24:-	0	0	1	0	0
Sal. (IIIa) 51:z4,z23:-	1	0	0	0	0
Sal. (IIIa) 53:z4	0	0	2	0	0
Sal. (IIIa) 53:z4,z23:-	0	1	0	0	0
Sal. (IIIb) 48:i:z	0	0	2	0	0
Sal. (IIIb) 50:l,v:z35	1	0	0	0	0
Sal. (IIIb) 50:z:z52	0	0	0	0	1
Sal. (IIIb) 53:z10:z	0	0	1	0	0
Sal. (IIIb) 60:r:z	1	0	0	0	0
Sal. (IIIb) 61:c:z35	0	2	2	0	0
Sal. (IIIb) 61:k:1,5	0	1	0	0	0
Sal. (IIIb) 61:l,v,z13:1,5	1	0	0	0	0
Sal. (IIIb) 61:l,v:z35	1	0	0	0	0
Sal. (IIIb) 61:-:1,5	0	1	0	1	0
Sal. (IIIb) 65:(k):z53	0	0	1	0	0
Sal. (IV)	0	0	1	0	0
Sal. (IV) 6,7:z4,z24:- (Kralendyk)	1	0	0	0	0
Sal. (IV) 16:z4,z32:- (Chameleon)	0	2	0	1	0
Sal. (IV) 40:z4,z32:-	0	1	0	0	0
Sal. (IV) 41:z4,z23:-	0	1	0	0	0
Sal. (IV) 44:z4:-	0	0	1	0	0
Sal. (IV) 44:z4,z23:-	1	1	2	1	2
Sal. (IV) 44:z4,z32:-	0	1	0	1	0
Sal. (IV) 45:g,z51:-	2	2	3	1	2
Sal. (IV) 48:g,z51:- (Marina)	2	1	2	4	3
Sal. (IV) 50:g,z51:- (Wassenaar)	0	1	0	2	0
Sal. (IV) 50:z4,z23:- (Flint)	1	0	2	0	2
Sal. Rough Os:d,x	0	0	0	0	2
Sal. Rough Os:e,h:l,w	0	0	0	0	1
Sal. Rough Os:f,g:-	0	0	0	1	0
Sal. Rough Os:g,m,s:-	0	0	0	1	1
Sal. Rough Os:g,m:-	0	0	0	0	1
Sal. Rough Os:m,t,-	0	0	0	0	3
Sal. Rough Os:z:6	0	0	0	0	1
Sal. Rough Os:z4,z23:-	0	0	0	1	0
Sal. Rough Os:Non-motile	0	0	0	0	4
San Diego	6	6	9	3	5
Saphra	0	0	0	0	1
Schwartzengrund	2	0	7	13	4
Senftenberg	1	1	2	6	6
Senftenberg, var Rz27	0	1	0	0	0
Shubra	0	1	1	0	2
Singapore	0	2	0	0	1
Sinstorf	1	0	0	1	1
Stanley	6	4	5	12	10
Stanleyville	0	0	1	0	0
Sundsvall	0	0	0	0	1
Takoradi	0	0	0	0	1
Telelkebir	1	7	1	0	1

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2004-2008**

SEROTYPE	2004	2005	2006	2007	2008
Tennessee	5	10	13	20	4
Thompson, var 14 +	1	0	0	0	0
Tucson	0	2	0	0	0
Typhimurium	196	207	177	182	229
Typhimurium, var Copenhagen	35	42	45	37	55
Uganda	0	0	1	0	0
Thompson	19	17	18	28	18
Urbana	5	1	2	1	2
Uzaramo	1	0	0	1	0
Virchow	4	2	2	2	5
Wandsworth	1	0	0	0	0
Waycross	0	1	0	0	0
Weltevreden	1	1	0	1	2
Westhampton	1	0	0	0	0
Worthington	0	0	1	1	4
SUB-TOTAL	989	1,155	1,133	1,163	1,248

SEROGROUP	2004	2005	2006	2007	2008
Group A	0	0	1	2	0
Group B	77	83	53	11	20
Group C	11	4	7	8	4
Group C1	4	5	1	4	1
Group C2	3	2	3	2	2
Group D	21	19	13	11	16
Group E	2	0	1	0	0
Group G	0	0	0	1	0
SUB-TOTAL	118	113	79	39	43

UNGROUPED, UNTYPED	88	75	87	121	87
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GRAND TOTAL	1,195	1,343	1,299	1,323	1,378
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**MENINGOCOCCAL DISEASE SEROGROUPS BY
YEAR OF ONSET, OHIO, 2004-2008**

SEROGROUP	2004	2005	2006	2007	2008
Group A	0	0	0	0	0
Group B	18	19	16	6	11
Group C	13	9	10	7	6
Group W-135	0	1	2	2	0
Group X	1	0	0	0	0
Group Y	21	9	8	10	17
Group Z	0	1	0	0	0
Not Groupable	0	0	0	0	1
Unknown	10	6	14	7	7
TOTAL	63	45	50	32	42

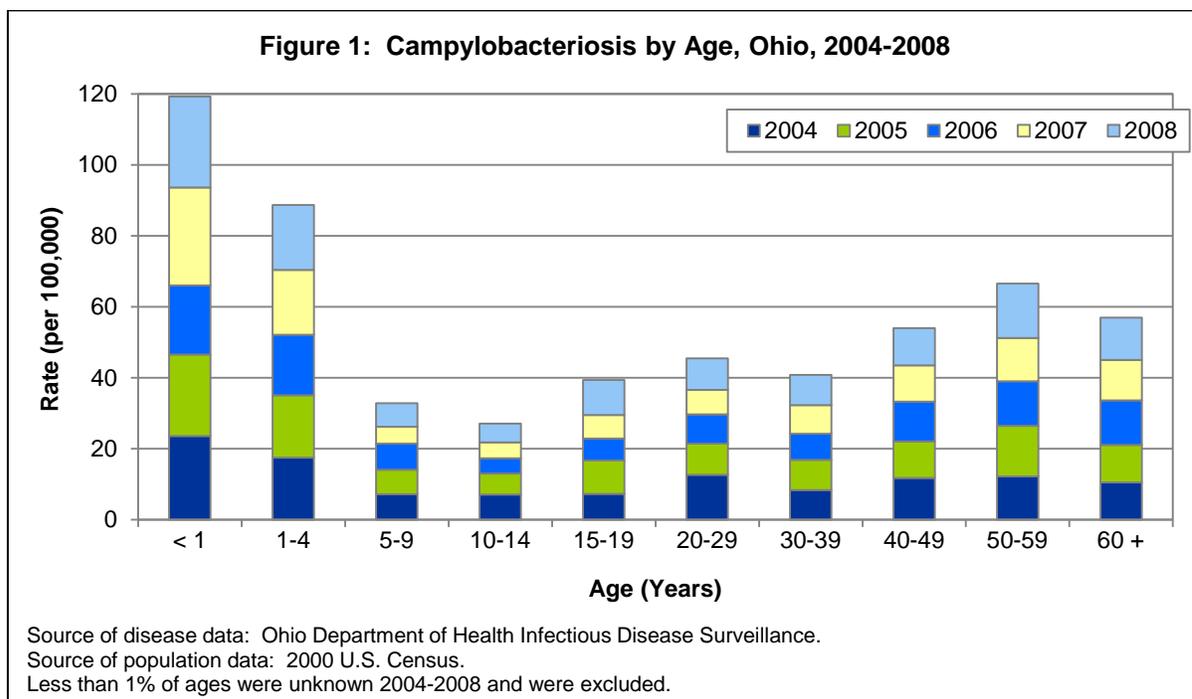
PROFILES OF SELECTED NOTIFIABLE DISEASES

CAMPYLOBACTERIOSIS

Number of cases in 2008:	1,215	Rate in 2008:	10.6
Number of cases in 2007:	1,083	Rate in 2007:	9.4

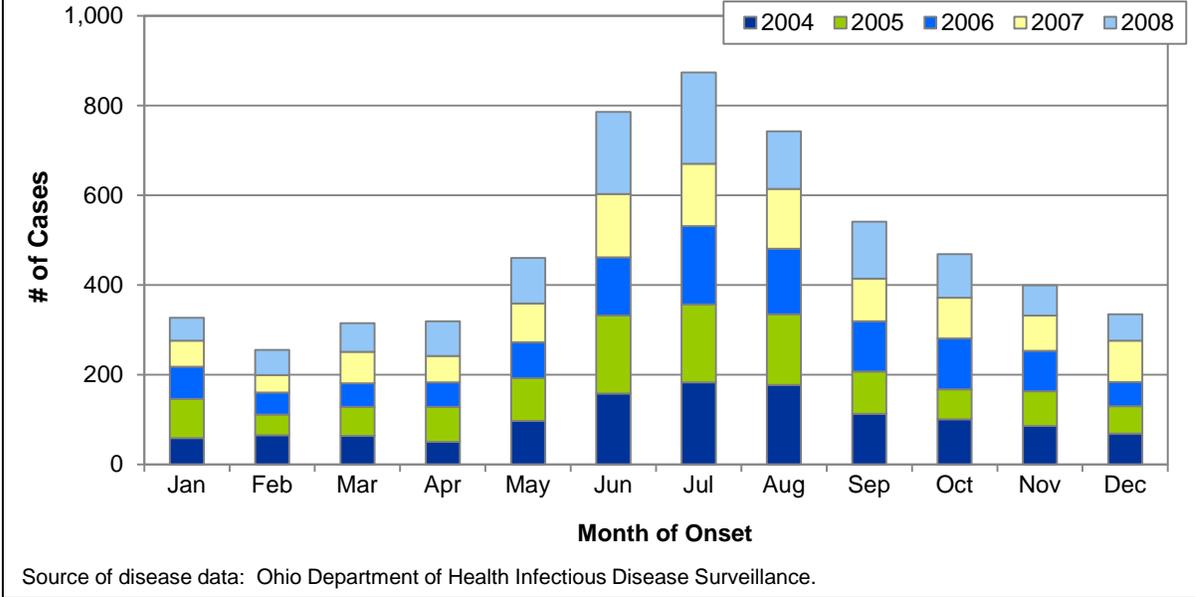
* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

Figure 1 demonstrates the burden of campylobacteriosis in Ohio over the past five years by age group. Although a higher incidence of *Campylobacter* infection was observed among individuals less than 5 years of age ($n = 715$) for each of the five reporting years analyzed, persons of all ages are at risk. Ohio trends also demonstrated a decline during adolescent years followed by a gradual increase throughout adulthood. This follows national trends of *Campylobacter* infections where the organism is isolated from infants and young adults more frequently than from persons in other age groups.¹



Ohio's *Campylobacter* trends followed a seasonal pattern throughout 2004-2008 (Figure 2). An increase in cases began in May ($n = 460$; 4.1 per 100,000 population), peaked in July ($n = 874$; 7.7 per 100,000 population) and gradually declined thereafter. The incidence in the fall and early winter months was usually higher than in the spring months.

Figure 2: Campylobacteriosis by Month and Year of Onset, Ohio, 2004-2008



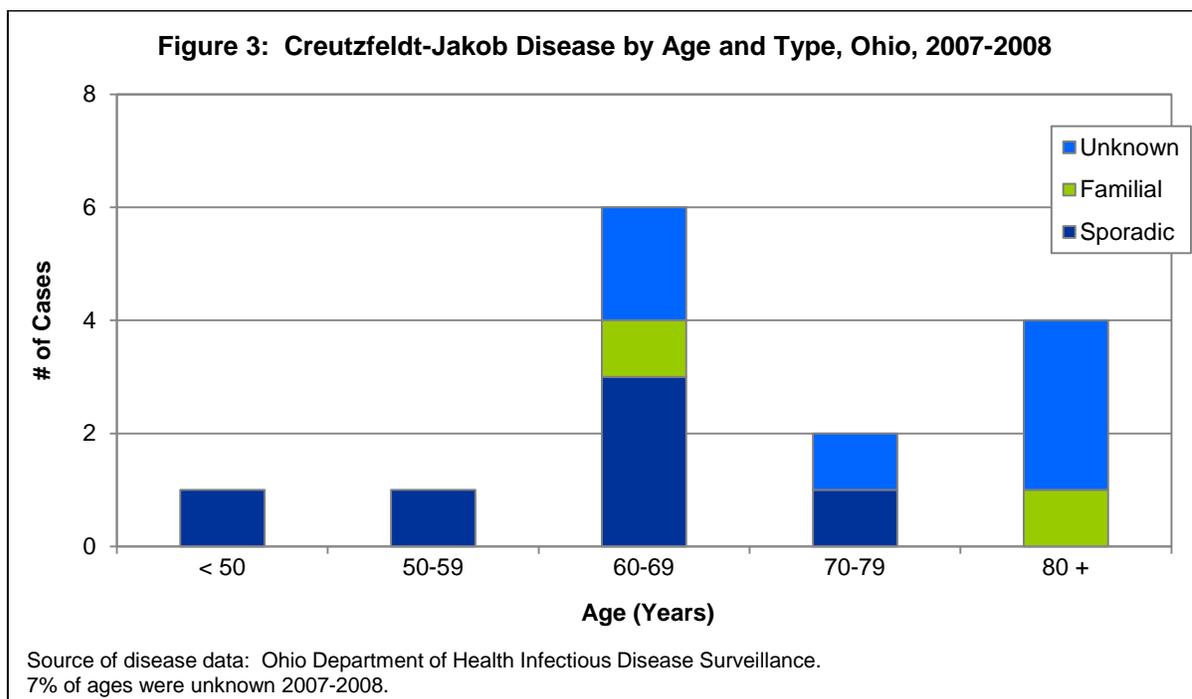
CREUTZFELDT-JAKOB DISEASE

<i>Number of cases in 2008:</i>	<i>5</i>	<i>Rate in 2008:</i>	<i>0.0</i>
<i>Number of cases in 2007:</i>	<i>10</i>	<i>Rate in 2007:</i>	<i>0.1</i>

* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

Classic Creutzfeldt-Jakob disease (CJD) manifests as one of two types: sporadic or familial cases.² Sporadic cases are more common and are due to a spontaneous transformation of normal prion proteins into abnormal prion proteins, whereas familial cases are rarer and are caused by inherited mutations in the gene coding for the prion protein.² Classic CJD is different from variant CJD (vCJD), which is an emerging prion disease related to bovine spongiform encephalitis (BSE), or “mad cow” disease.² No cases of vCJD have been reported in Ohio, and only three cases have been reported in the United States since 2001.³

In Ohio, half of classic CJD cases over the past two years were reported as an unknown type (Figure 3). Among the half of cases whose type was known, most (75 percent) were sporadic. Classic CJD mainly affects those over 50 years of age,² and the majority of cases occurred among Ohioans aged 60 years or greater in 2007-2008.

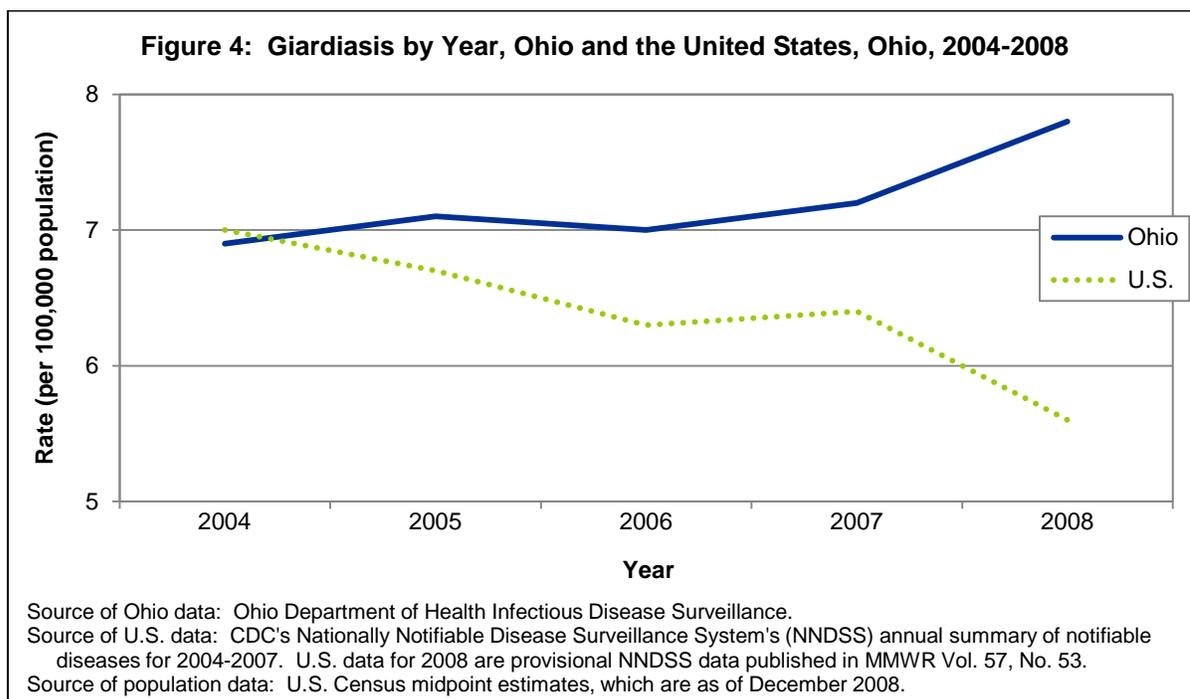


GIARDIASIS

<i>Number of cases in 2008:</i>	<i>891</i>	<i>Rate in 2008:</i>	<i>7.8</i>
<i>Number of cases in 2007:</i>	<i>833</i>	<i>Rate in 2007:</i>	<i>7.3</i>

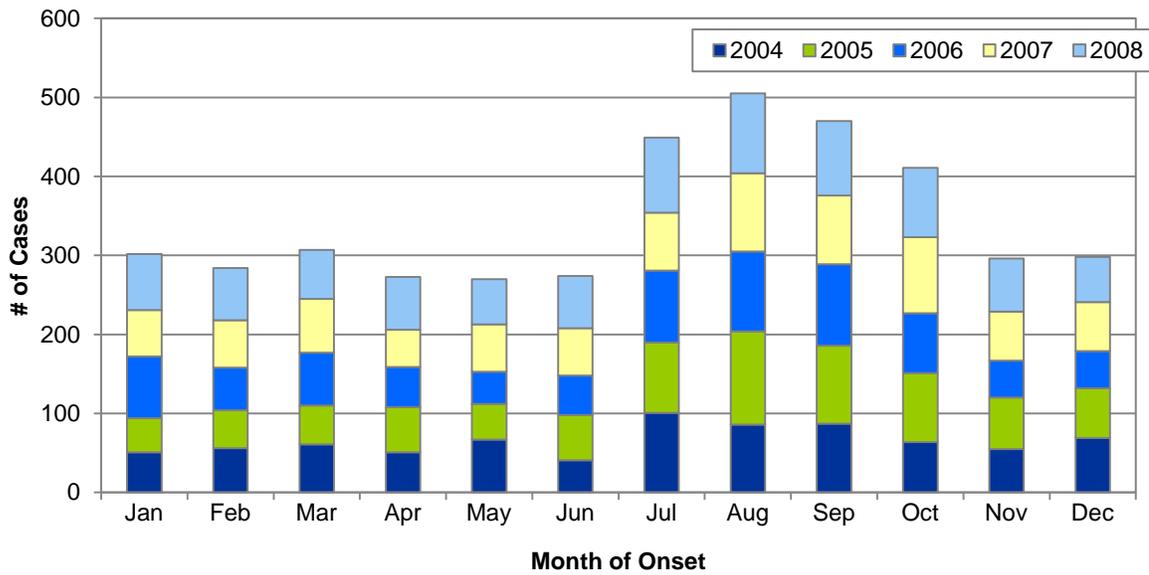
* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

Figure 4 demonstrates an increase in infections with *Giardia* has been observed in Ohio over the past five years, 2004-2008. This differs from general United States trends where a decrease in incidence has been observed over this same period of time. Ohio's rate was above the national average for giardiasis infection in four of the five years compared. In addition, the difference in giardiasis observed between Ohio and the United States continued to widen in each year between 2005 and 2008.



Cases of disease due to *Giardia* followed a seasonal pattern in Ohio from 2004-2008 (Figure 5). Nearly half of Ohio's giardiasis cases occurred each year between July and October. This seasonal peak in incidence coincides with the summer recreational water season and may reflect increased outdoor activity and exposures to swimming venues (e.g., swimming pools, water parks, rivers and lakes).⁴ Giardiasis cases remained relatively stable in the seasons before and after this four-month window over the five-year period analyzed.

Figure 5: Giardiasis by Month and Year of Onset, Ohio, 2004-2008



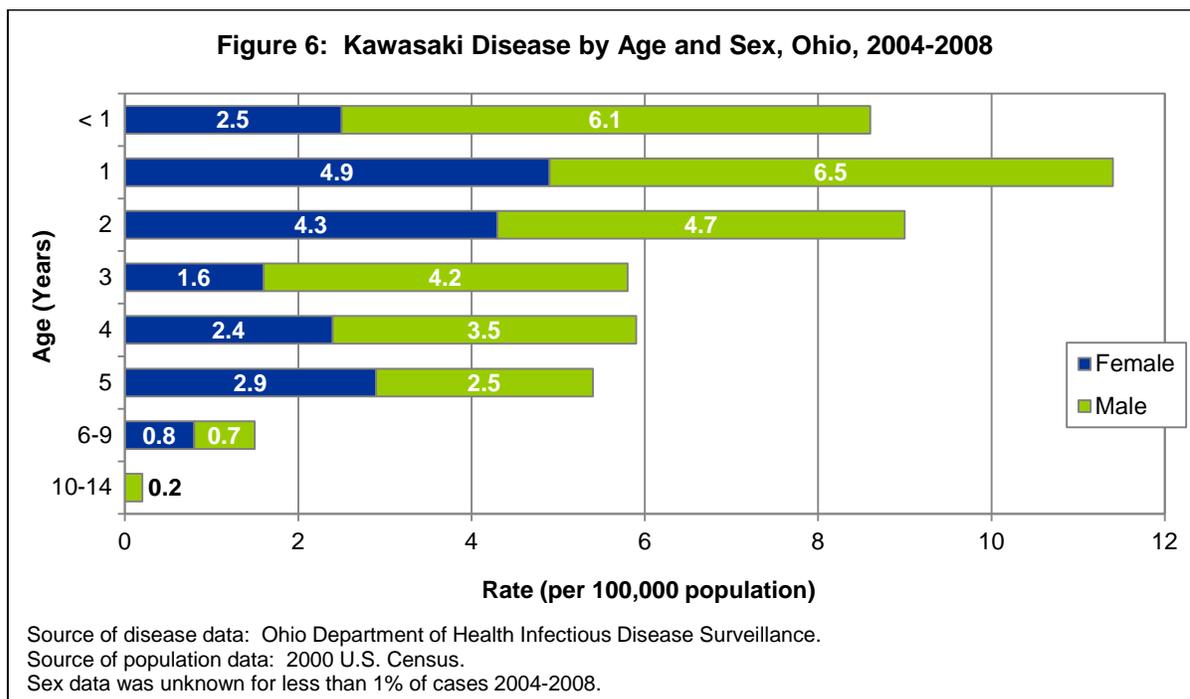
Source of disease data: Ohio Department of Health Infectious Disease Surveillance.

KAWASAKI DISEASE

<i>Number of cases in 2008:</i>	<i>27</i>	<i>Rate in 2008:</i>	<i>0.2</i>
<i>Number of cases in 2007:</i>	<i>38</i>	<i>Rate in 2007:</i>	<i>0.3</i>

* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

Individual cases of Kawasaki disease (mucocutaneous lymph node syndrome) are no longer reportable in Ohio as of Jan. 1, 2009. An analysis of cases reported in Ohio from 2004-2008 showed Kawasaki disease primarily affecting children under 5 years of age, which is consistent with national trends.⁵ The highest incidence occurred among Ohio's 1-year-old population with an increased incidence among infants and 2-year-olds as well (Figure 6). The incidence of disease was lower among children 3-5 years and lowest among children 6-14 years. No cases were reported in children older than 14 years of age 2004-2008. Kawasaki disease is more common in males than females.⁵ The incidence in Ohio among males was 1.6 times higher than the incidence among females from 2004-2008. The disparity between the sexes was greater among younger children, especially infants where the incidence rate among males was nearly two and a half times greater than the incidence rate among females. Females aged 5-9 years had a slightly greater rate than males of the same age.



Kawasaki disease is a primary cause of acquired heart disease among children in the United States because it can cause serious cardiac complications such as coronary artery disease and aneurysms.^{5,6} From 2004-2008, 13 percent of Ohio's Kawasaki cases reported cardiac complications, 6 percent reported non-cardiac complications and 46 percent reported no complications (Table 1). Each year, one-fourth to nearly one-half of Kawasaki cases did not report complication information.

**Table 1: Reported Complications Associated with Kawasaki Disease,
Ohio, 2004-2008**

Complication	2004	2005	2006	2007	2008	Total
Cardiac	16%	18%	9%	13%	0%	13%
Non-cardiac	8%	2%	6%	8%	7%	6%
None	43%	55%	37%	47%	44%	46%
Unknown	33%	25%	49%	32%	48%	35%

Source of disease data: Ohio Department of Health Infectious Disease Surveillance.

MENINGITIS, OTHER BACTERIAL

<i>Number of cases in 2008:</i>	59	<i>Rate in 2008:</i>	0.5
<i>Number of cases in 2007:</i>	49	<i>Rate in 2007:</i>	0.4

* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

The number of cases of bacterial meningitis reported in Ohio has fluctuated over the past five years. The highest number of reported cases, 90, occurred in 2004; the fewest cases, 45, were reported in 2005 (Figure 7). The incidence rate of bacterial meningitis for each of the five years was less than 1.0 case per 100,000 population (range: 0.39 to 0.79 cases per 100,000 population).

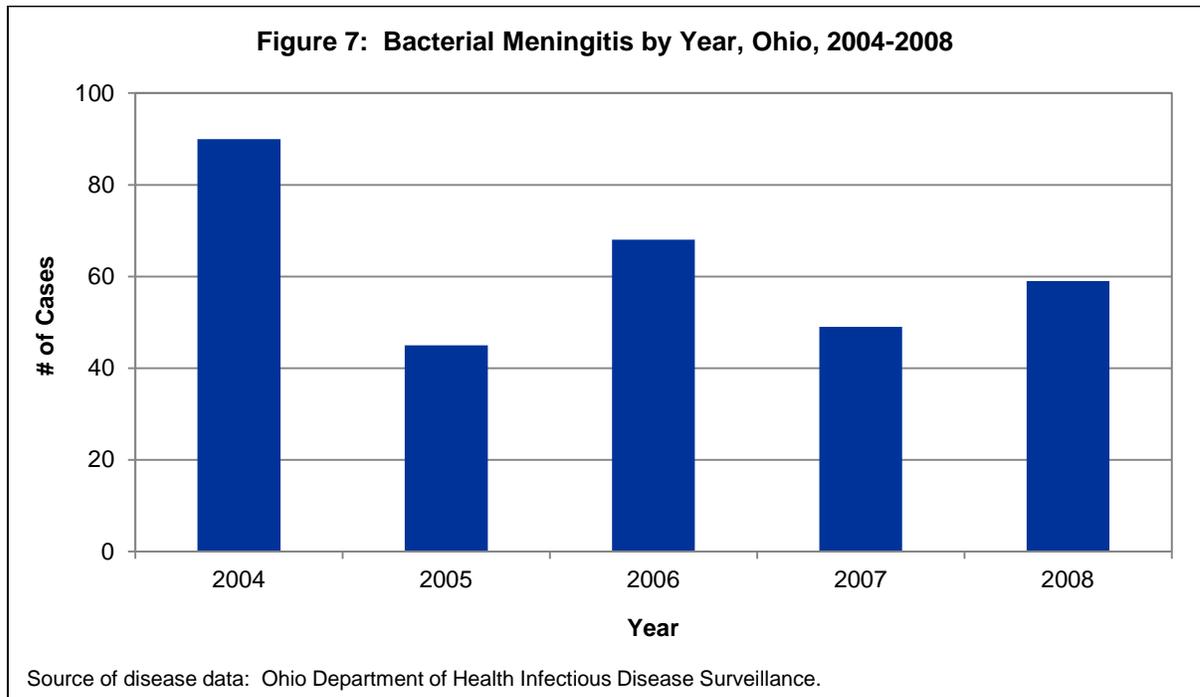
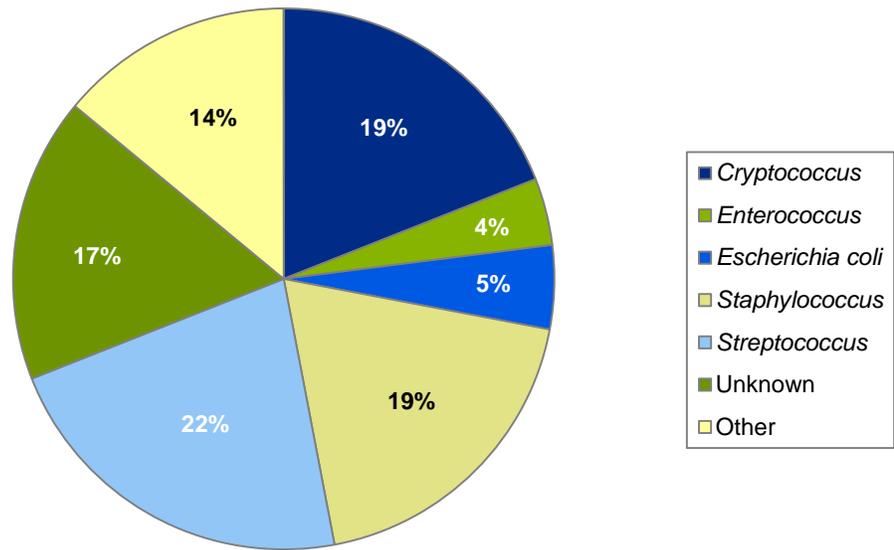


Figure 8 demonstrates the proportion of bacterial meningitis cases by the most commonly reported organisms from 2004-2008. The majority of bacterial meningitis cases (22 percent) were caused by *Streptococcus* spp. other than group A *Streptococcus*, group B *Streptococcus* in newborns and *Streptococcus pneumoniae* followed by *Cryptococcus* and *Staphylococcus* (both at 19 percent). Seventeen percent of bacterial meningitis cases reported over the past five years did not indicate an organism. The majority of these cases (24 cases) occurred in 2004; in 2008, only four cases were reported without an identified organism.

Figure 8: Bacterial Meningitis by Organism, Ohio, 2004-2008



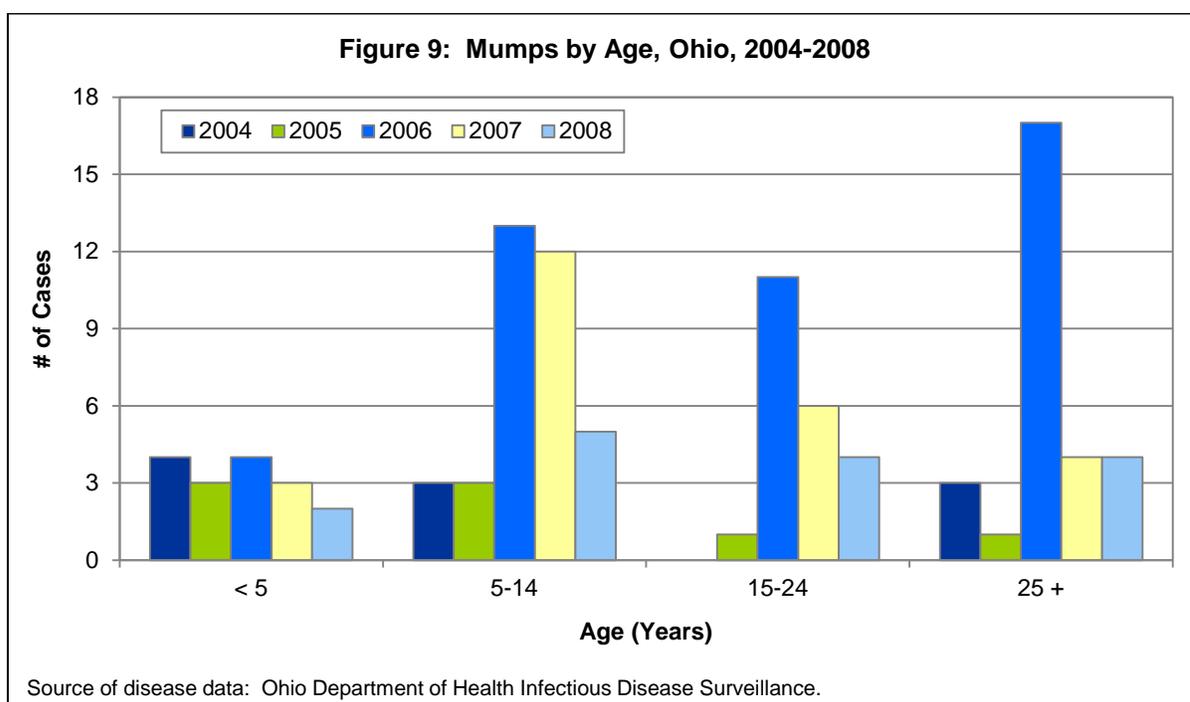
Source of disease data: Ohio Department of Health Infectious Disease Surveillance.

MUMPS

<i>Number of cases in 2008:</i>	<i>17</i>	<i>Rate in 2008:</i>	<i>0.1</i>
<i>Number of cases in 2007:</i>	<i>26</i>	<i>Rate in 2007:</i>	<i>0.2</i>

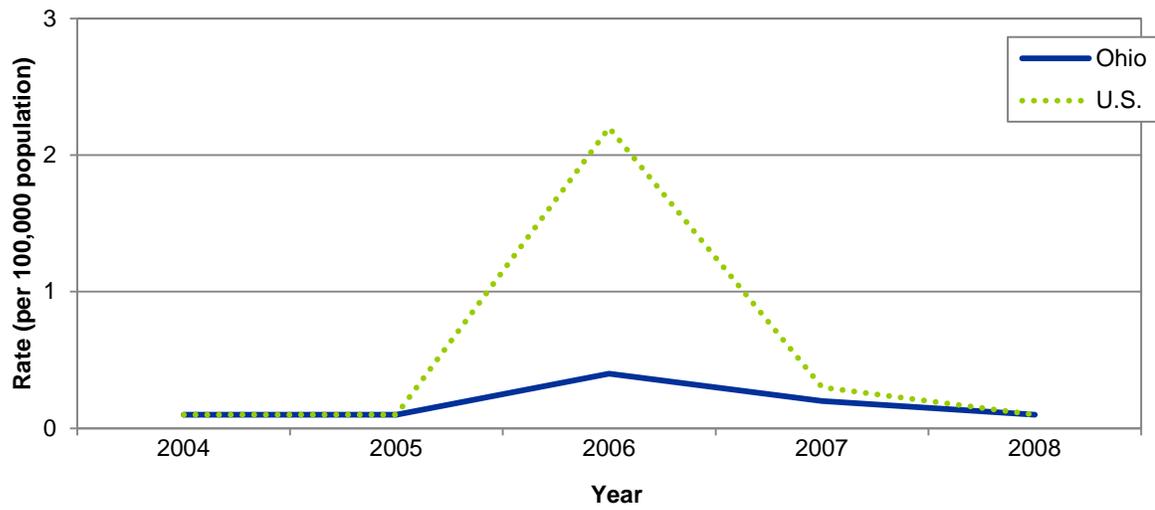
* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

Ohio observed a decline in mumps cases between 2007 and 2008, even though the incidence rate remained unchanged (2007: 0.2 cases per 100,000 population; 2008: 0.1 cases per 100,000 population) between the two years. In 2008, three of Ohio's 17 mumps cases (18 percent) resided in the same household and were epidemiologically linked to one another. As seen in Figure 9, the majority of Ohio's 2008 mumps cases were seen in children 5-14 years of age (five cases, 29 percent). Over the past five years, the greatest burden of mumps disease in Ohio occurred among children 5-14 years of age and adults 25 years of age and older.



As seen in Figure 10, the incidence of mumps in Ohio and the United States remained relatively stable from 2004-2008 except for the large increase observed in the United States in 2006. The 2006 increase was the result of a multistate outbreak of mumps that began in Iowa in late 2005 and continued into 2006. Ohio also saw an increase in its mumps rate during 2006 (0.4 cases per 100,000 population); however, Ohio's 2006 rate was well under the national rate observed in 2006 (2.2 cases per 100,000 population).

Figure 10: Mumps by Year, Ohio and the United States, 2004-2008



Source of Ohio data: Ohio Department of Health Infectious Disease Surveillance.

Source of U.S. data: CDC's Nationally Notifiable Disease Surveillance System's (NNDSS) annual summary of notifiable diseases for 2004-2007. U.S. data for 2008 are provisional NNDSS data published in MMWR Vol. 57, Nos. 51-52.

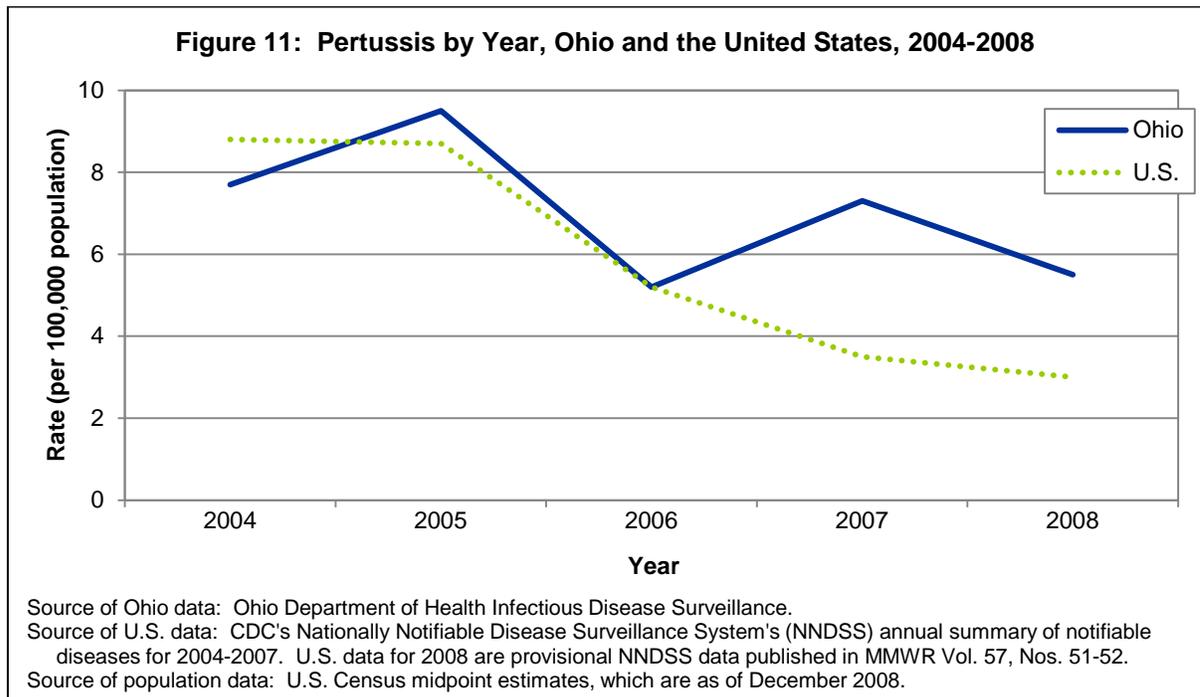
Source of population data: U.S. Census midpoint estimates, which are as of December 2008.

PERTUSSIS

<i>Number of cases in 2008:</i>	<i>628</i>	<i>Rate in 2008:</i>	<i>5.5</i>
<i>Number of cases in 2007:</i>	<i>837</i>	<i>Rate in 2007:</i>	<i>7.3</i>

* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

As seen in Figure 11, while the incidence of pertussis has decreased in the United States over the past five years, it continued to fluctuate in Ohio. Ohio and national pertussis rates followed a similar pattern from 2004-2006. However, from 2007-2008, the difference in Ohio and national pertussis rates continued to widen. Ohio had a higher rate than the national rate of pertussis in three of the five years. The biggest difference in rates was seen in 2007 when Ohio had a rate of 7.3 per 100,000 population, compared to the national rate of 3.5 per 100,000 population.

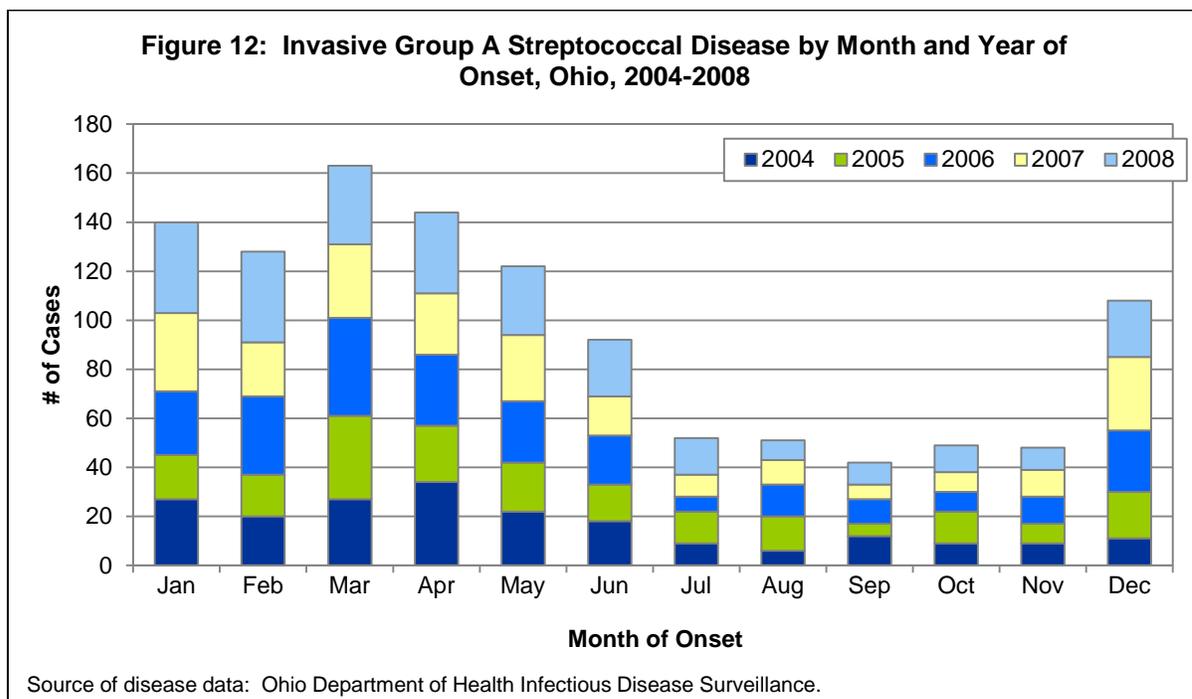


STREPTOCOCCAL DISEASE, GROUP A, INVASIVE

<i>Number of cases in 2008:</i>	265	<i>Rate in 2008:</i>	2.3
<i>Number of cases in 2007:</i>	226	<i>Rate in 2007:</i>	2.0

* Rates are based on U.S. Census midpoint estimates for each year and are per 100,000 population.

In Ohio, invasive group A streptococcal disease experienced a noticeable seasonal trend each year from 2004-2008 (Figure 12). Like trends seen in the rest of the United States, the majority of cases occurred during the winter and spring months.⁷ Incidence peaked in March and was at its lowest July to November. Cases began increasing again in December, especially in more recent years.

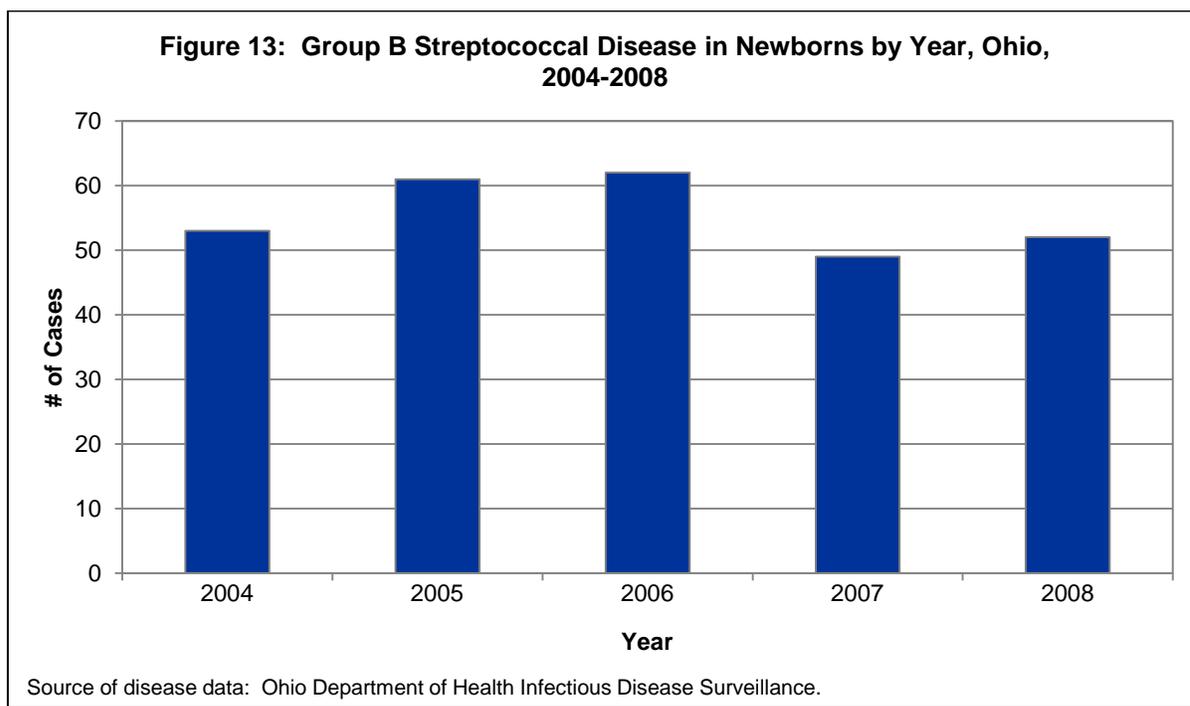


STREPTOCOCCAL DISEASE, GROUP B, IN NEWBORN

<i>Number of cases in 2008:</i>	<i>51</i>	<i>Rate in 2008:</i>	<i>34.9</i>
<i>Number of cases in 2007:</i>	<i>49</i>	<i>Rate in 2007:</i>	<i>32.5</i>

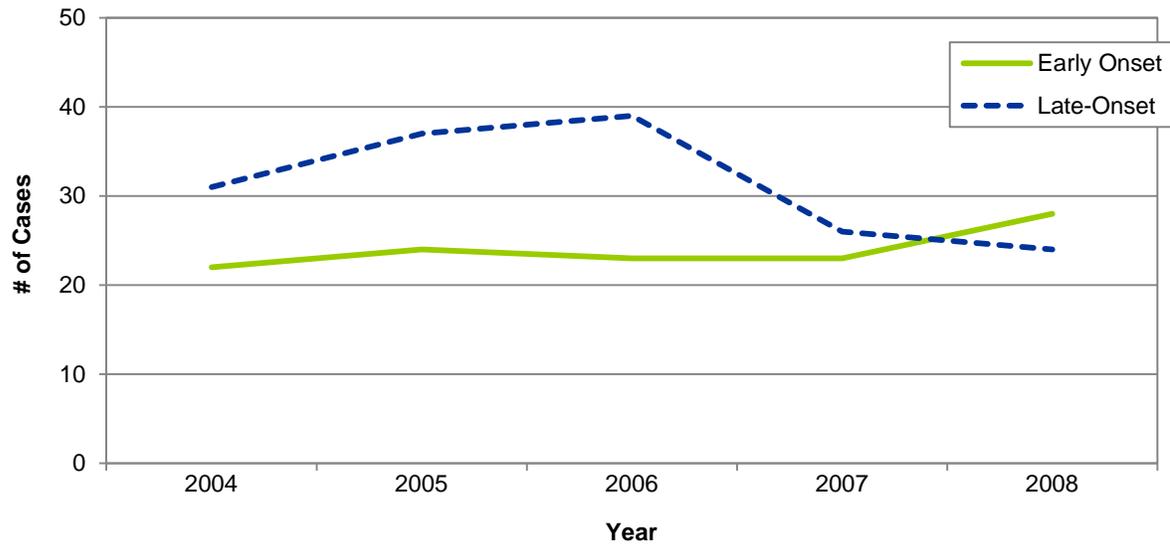
* Rates are based on the CDC's National Vital Statistics System's preliminary birth data for 2007 and are per 100,000 live births.⁸

Group B streptococcal disease in newborns incidence has ranged from 32.5 to 41.2 cases per 100,000 live births over the past five years. The reported number of cases increased between 2004 and 2006 (52, 2004; 60, 2005; 61, 2006), declined in 2007 (49 cases) and increased again in 2008 (52 cases) (Figure 13).



Group B streptococcal infections in newborns can be separated into two categories. Early-onset affects infants less than 7 days old. Late-onset affects infants with onset dates of infection seven days or more from the date of birth. Between the years 2004 and 2007, late-onset infections comprised the majority of Group B *Streptococcus* infections in infants (58.5 percent, 2004; 60.7 percent, 2005; 62.9 percent, 2006 and 53.1 percent, 2007). For the first time in 2008, it appeared the majority of cases, 53.8 percent, occurred in infants less than 7 days. The increase in the percentage of early-onset cases is due to a declining number of reported late-onset cases. The number of early-onset infections has remained fairly constant for the previous five years, demonstrating a slight increase in cases in 2008 (Figure 14).

Figure 14: Group B Streptococcal Disease by Age at Onset, Ohio, 2004-2008



Source of disease data: Ohio Department of Health Infectious Disease Surveillance.

PROFILES OF SELECTED OUTBREAKS

The Outbreak Response and Bioterrorism Investigation Program (ORBIT) assisted local health jurisdictions in Ohio in the investigation of 290 outbreaks. These outbreaks were detected in 57 of 88 counties throughout the state. The number of Ohioans known to be ill from these outbreaks was 4,586. The outbreaks were classified as: foodborne (92), person-to-person (73), outbreaks of individually reportable disease agents (69), staphylococcal skin infections (21), scabies (14), hospital-acquired (12), waterborne (4), pediculosis (4) and conjunctivitis (1). Causative agents identified during the outbreak investigations included: *Acinetobacter baumannii*, *Burkholderia cepacia*, *Clostridium botulinum*, *Clostridium difficile*, *Clostridium perfringens*, Coxsackie virus, *Cryptosporidium* spp., Enterovirus, *Escherichia coli* O157:H7, *Giardia* spp., *Legionella pneumophila*, Norovirus, *Pediculus capitis* (head louse), *Ralstonia pickettii*, *Salmonella* spp., *Sarcoptes scabiei* (scabies mite), *Shigella sonnei*, *Staphylococcus aureus* (including methicillin-resistant) and vancomycin-resistant *Enterococcus*.

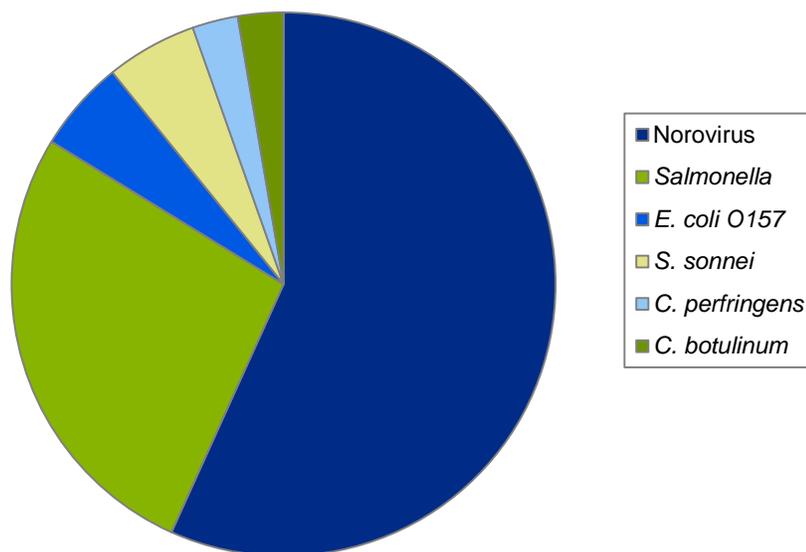
Please note that pursuant to the Ohio Administrative Code (OAC) [Chapter 3701-03](#), the outbreak categories for reporting changed effective Jan. 1, 2009. These are referred to as “[Class C](#): Report an outbreak, unusual incidence or epidemic by the end of the next business day.” The new categories for outbreak reporting are: community outbreak, foodborne outbreak, healthcare-associated outbreak, institutional outbreak, waterborne outbreak and zoonotic outbreak. To report an outbreak or for questions about outbreak reporting, please contact ORBIT at (614) 995-5599 or fax (614) 995-7186 or the Zoonotic Disease Program at (614) 752-1029.

Details on selected types of 2008 outbreaks are discussed below.

FOODBORNE OUTBREAKS

In 2008, 37 of the 92 foodborne outbreaks reported in Ohio were confirmed foodborne disease outbreaks. These outbreaks met the general [definition of a foodborne outbreak](#): “An incident in which two or more persons experience a similar illness after ingestion of a common food, and epidemiologic analysis implicates the food as the source of the illness.” These 37 outbreaks also met the agent-specific [criteria for confirmation](#) of outbreaks. For these 37 foodborne outbreaks, the causative agent was distributed as follows: Norovirus (21), *Salmonella* spp. (10), *E. coli* O157 (2), *S. sonnei* (2), *C. perfringens* (1) and *C. botulinum* (1) (see Figure 1).

Figure 1: Confirmed Foodborne Outbreaks by Etiologic Agent, Ohio, 2008



Source of outbreak data: Ohio Department of Health Outbreak Response and Bioterrorism Investigation Program.

Brief summaries of these confirmed foodborne outbreaks follow:

***Clostridium botulinum*:** There was an outbreak of type A botulism in Crawford County in September 2008, in which four people were affected. Home-canned green beans and carrots were implicated.

***Clostridium perfringens*:** There was an outbreak of *C. perfringens* in Geauga County in October 2008, in which 50 people were affected. Roast beef was the implicated vehicle.

***Escherichia coli* O157:H7:** Both outbreaks described below became multistate outbreak investigations.

In May and June 2008, an outbreak of *E. coli* O157:H7 was recognized in six counties in Ohio. Pulsed-field gel electrophoresis (PFGE) identified additional cases from six other states. There were a total of 49 cases linked to the outbreak reported nationwide; 21 were from Ohio. This outbreak was associated with the consumption of ground beef purchased at retail grocery stores. The ground beef originated from a single meat supplier in Nebraska. The outbreak investigation contributed to the recall of 5.3 million pounds of ground beef. Additional information about this outbreak and recall can be found on the Web as follows:

- <http://www.cdc.gov/ecoli/june2008outbreak/> (CDC Web update)
- http://www.fsis.usda.gov/News_&_Events/R01_2008_Expanded/index.asp (Kroger recall)
- http://www.fsis.usda.gov/News_&_Events/Recall_022_2008_Expanded/index.asp (Nebraska Beef recall)

In July 2008, there was an outbreak of *E. coli* O157:H7 in Montgomery County, in which seven people were affected. The Centers for Disease Control and Prevention (CDC) identified PFGE-matching cases in seven other states. Ground beef purchased at a specialty market in Montgomery County was the implicated vehicle. The ground beef was ground fresh in each store from primal (whole muscle) cuts of meat from a single meat supplier in

Nebraska. This investigation contributed to the recall of 1.36 million pounds of beef. Additional information about this recall can be found on the Web at:

- http://www.fsis.usda.gov/News & Events/Recall_029_2008_Expanded/index.asp (Nebraska Beef recall)

Norovirus: There were 21 confirmed foodborne outbreaks attributed to norovirus in 2008. Sixteen were due to norovirus genotype GII and four were due to norovirus genotype GI; one was not determined. They occurred throughout the year. There was a cluster of eight outbreaks which occurred March to May, and a cluster of five outbreaks in December. The implicated vehicle was identified in six outbreaks: salad (3), fruit or vegetable (1), pizza (1) and boxed lunch (1). The median number of people affected was 22 (range 3-509). Two very large foodborne outbreaks of norovirus genotype GII were reported: one in Portage County in April affected 509 people, and one in Scioto County in October affected 225 people. Norovirus reverse transcriptase polymerase chain reaction (RT-PCR) was utilized by ODH Laboratory to confirm all but one of these outbreaks.

Salmonella: Of the 10 *Salmonella* foodborne outbreaks identified in 2008, an infected carrier was identified for two of them. The contaminated vehicle could not be identified for six outbreaks. Chicken was implicated for one. Table 1 contains the distribution and serotype for the *Salmonella* foodborne outbreaks reported in 2008. From October 2008 to April 2009, Ohio reported 103 cases in a multistate outbreak of *Salmonella* serotype Typhimurium that implicated peanuts, peanut butter and other peanut-containing products. More than 3,900 products were recalled as a result of this multistate investigation. Additional information about this outbreak and recall can be found on the Web as follows:

- <http://www.accessdata.fda.gov/scripts/peanutbutterrecall/index.cfm> (FDA recall list)
- <http://www.cdc.gov/salmonella/typhimurium/update.html> (CDC Web update)

PFGE was used by ODH Laboratory in most of these *Salmonella* outbreaks to identify the isolates with the outbreak strain.

Table 1: Serotypes of Foodborne *Salmonella* Outbreaks, Ohio, 2008

Serotype	# of Outbreaks
<i>Salmonella</i> serotype Typhimurium	4
<i>Salmonella</i> serotype Enteritidis	2
<i>Salmonella</i> serotype (I) 4,[5],12:i:-	2
<i>Salmonella</i> serotype Muenchen	1
<i>Salmonella</i> serotype Poona	1
Total	10

Source of outbreak data: Ohio Department of Health Outbreak Response and Bioterrorism Investigation Program.

Shigella: Two foodborne outbreaks of shigellosis were reported. An outbreak of *S. sonnei* in Auglaize County in June 2008 affected four people; the vehicle was unknown. An outbreak of *S. sonnei* in Cuyahoga County in August 2008 affected 12 people; the vehicle was unknown.

UNUSUAL INCIDENCE OUTBREAKS

In 2008, local health jurisdictions in Ohio investigated 73 outbreaks classified as “Unusual Incidence.” These outbreaks were detected in 29 of Ohio’s 88 counties. The number of Ohioans known to be ill from these outbreaks was 1,625. Fifty-eight (80 percent) of these outbreaks were gastrointestinal (GI) disease. Thirty-three (57 percent) of these GI outbreaks were confirmed as due to norovirus by stool testing at ODH Laboratory (see Table 2). The remaining suspected norovirus outbreaks could not be confirmed either because no stool specimens were submitted or an inadequate number of stool specimens were positive (i.e., less than 2). The norovirus outbreaks occurred in a variety of settings including assisted living/retirement communities, child care centers, correctional facilities, group homes, hospitals, long-term care facilities, private homes and schools.

Table 2: Unusual Incidence Outbreaks Confirmed as Norovirus by County, Ohio, 2008

County	# of Outbreaks	# of Ill Individuals
Butler	1	33
Columbiana	1	45
Cuyahoga	5	117
Delaware	3	107
Franklin	9	165
Greene	1	32
Hamilton	2	173
Holmes	1	17
Lake	1	34
Lorain	1	38
Mercer	1	26
Montgomery	1	11
Putnam	1	38
Sandusky	1	36
Stark	1	17
Summit	1	79
Union	1	50
Wood	1	23
Total	33	1,041

Source of outbreak data: Ohio Department of Health Outbreak Response and Bioterrorism Investigation Program.

WATERBORNE OUTBREAKS

In 2008, four waterborne outbreaks were reported in Ohio from four counties (see Table 3). Counties reporting included Franklin, Ottawa, Seneca and Stark. The outbreaks affected 70 individuals and ranged in size from 2 to 54 (median = 7). These outbreaks met the [CDC case definition](#).

Table 3: Waterborne Disease Outbreaks by Month of Onset, Ohio, 2008

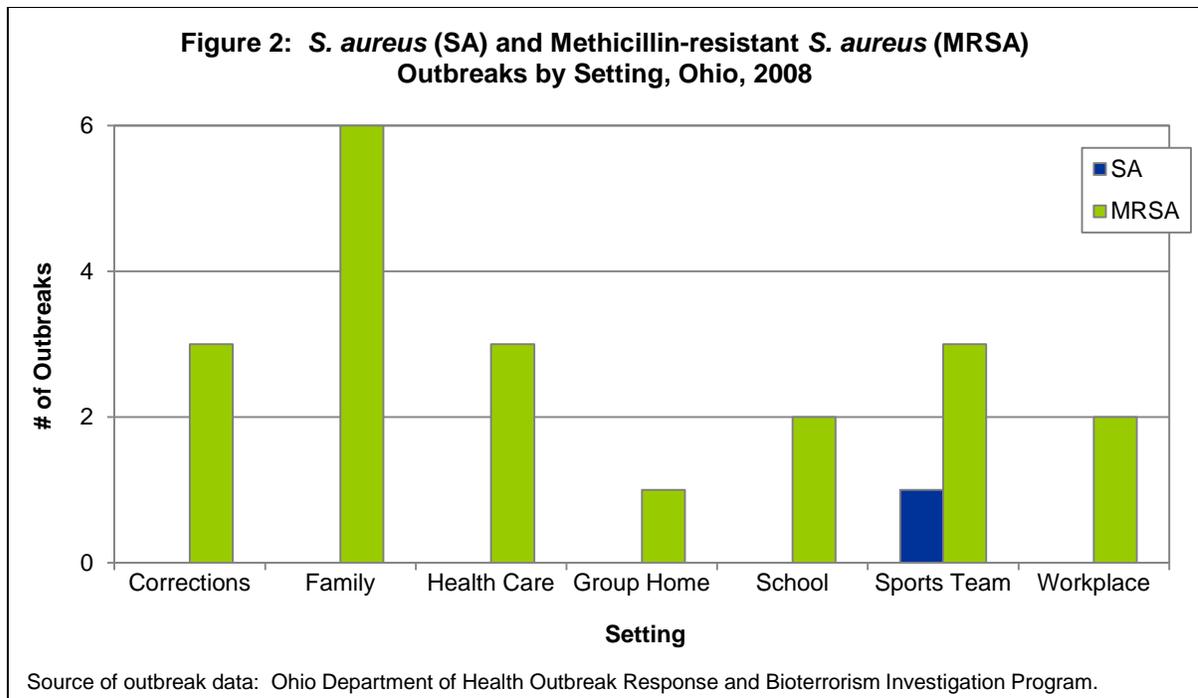
Month	County	Predominant Symptoms	# Cases	Type of Water	Etiology	Setting
June	Seneca	Respiratory	6	Recreational	Chlorine	Pool
July	Stark	Gastrointestinal	54	Recreational	Norovirus and <i>Shigella</i> spp.	Lake
July	Ottawa	Respiratory	2	Recreational	<i>Legionella pneumophila</i>	Hotel hot tub and pool
July	Franklin	Gastrointestinal	8	Recreational	<i>Cryptosporidium</i> spp.	Indoor water park

Source of outbreak data: Ohio Department of Health Outbreak Response and Bioterrorism Investigation Program.

STAPHYLOCOCCAL SKIN INFECTION OUTBREAKS

In accordance with OAC 3701-3-02, suspected or confirmed staphylococcal skin infection outbreaks and health care-associated outbreaks, including those caused by staphylococcal bacteria, are reportable to local public health districts.

In 2008, there were 21 outbreaks due to *Staphylococcus aureus* (SA) bacteria reported to ODH. Methicillin-resistant *S. aureus* (MRSA) was identified in 20 (95 percent) of the outbreaks reported in 2008. Ill persons related to these outbreaks numbered 97. The figure below, Figure 2, depicts the number of outbreaks caused by *S. aureus* (SA) and MRSA reported to ODH in 2008. The majority of outbreaks reported in 2008 involved family clusters.



OUTBREAKS OF INDIVIDUALLY REPORTABLE DISEASE AGENTS

These outbreaks involve reportable diseases such as cryptosporidiosis, salmonellosis or shigellosis that were mostly transmitted person-to-person. In the Ohio Disease Reporting System (ODRS), this category is referred to as Outbreak Type: Unspecified.

There were a total 69 of these outbreaks reported in 2008. Sixty-eight of the 69 outbreaks were confirmed. Of the 68 confirmed outbreaks, the causative agents were *Cryptosporidium* spp. (7), *Salmonella* spp. (3), *Shigella sonnei* (55) and mixed agents (3).

Of the seven confirmed cryptosporidiosis outbreaks, one was in Hancock County in February 2008, in which nine people were affected. Contact with young dairy calves was implicated. A similar outbreak of cryptosporidiosis occurred at the same location in February 2007. The remaining six confirmed cryptosporidiosis outbreaks affected 25 people and occurred in day care centers or other group settings; transmission was person to person.

There were 55 confirmed "Outbreaks Unspecified" that were attributed to *Shigella sonnei*. Four of these 55 outbreaks involved families. The remaining 51 outbreaks involved day care centers. These 51 shigellosis outbreaks involving day care centers affected a total of 422 individuals. The median number affected per day care center outbreak was 7 (range 2-23). Thirty-nine percent of these outbreaks (20 of 51) involved five or fewer individuals.

There were three confirmed "Outbreaks Unspecified" that were attributed to *Salmonella* spp. Two were multistate outbreaks of *Salmonella* serotype Typhimurium that were recognized via PFGE, but the contaminated vehicle could not be identified; nine people were affected. The third was a day care center outbreak of *Salmonella* serotype Enteritidis affecting five individuals.

The three mixed agent outbreaks occurred in day care centers and affected 25 individuals. The agents involved in these three outbreaks included *Cryptosporidium* and *Giardia* (4 people), *Cryptosporidium* and *Shigella* (8 people) and *Shigella* and *Giardia* (13 people).

PROFILES OF SELECTED HEALTH EVENTS DETECTED IN EPICENTER

The Situational Monitoring and Event Detection Unit at the Ohio Department of Health manages the EpiCenter system, Ohio's flagship syndromic surveillance system, which replaced Ohio's Real-time Outbreak and Disease Surveillance (RODS) system. This transition from RODS to EpiCenter began in March 2008. EpiCenter collects emergency department and urgent care center chief complaint data and provides local public health with the analytical and spatial tools needed for the early detection and tracking of important health events (e.g., outbreaks, seasonal illness, bioterrorism, environmental, etc.) and real-time monitoring for situational awareness or "health intelligence."

Local health department epidemiologists and nurses conduct investigations of the anomalies detected by the EpiCenter system when visit levels within a given jurisdiction are statistically, significantly higher than normal for a 24-hour period. Approximately 10 percent (348) of all EpiCenter anomalies detected during 2008 were resolved as health events related to seasonal illness, naturally occurring diseases or due to environmental exposures after an initial assessment by local public health. Anomalies characterized as seasonal illness health events typically follow a seasonal trend that can generally be predicted with each new season, such as the tracking of seasonal influenza (October-May). An example of this classification is when an increase in emergency department visits for fever and/or flu-like symptoms is observed during increased influenza activity in a given jurisdiction. Anomalies characterized as naturally occurring disease outbreaks relate to an increase in emergency department visits that can be directly or indirectly attributed to an existing or ongoing disease outbreak in the community that may have no assumption of seasonality. An example of this classification is when a county has reported a norovirus outbreak in a local jurisdiction, and the data supports the activity with an increase in vomiting and diarrhea symptoms in or around that same jurisdiction. Anomalies characterized as environmental health events relate to an increase in emergency department visits involving an exposure to chemicals or substances causing an adverse health reaction, normally presenting as a cluster of cases. An example of this classification is when a cluster of visits presenting with "carbon monoxide exposure or poisoning after house fire" or "cough and rash reaction after exposure to over-chlorinated pool" is observed at a local hospital facility.

A breakdown of these events by type of health event and by jurisdiction is displayed in Table 1 and Table 2, respectively. Questions or comments may be directed to the Situational Monitoring and Event Detection Unit at (614) 995-5591.

Table 1: Distribution of EpiCenter Health Events by Type, Ohio, 2008

Disposition	# of Health Events	% of Health Events
Environmental health event	9	2.6
Naturally occurring disease outbreak	20	5.7
Seasonal illness health event	319	91.7
Total	348	100.0%

Source of health event data: Ohio Department of Health Situational Monitoring and Event Detection Unit.

Table 2: Distribution of EpiCenter Health Events by Jurisdiction, Ohio, 2008

County	Environmental Health Event		Naturally Occurring Disease Outbreak		Seasonal Illness Health Event		Total	
	N	%	N	%	N	%	N	%
Allen	0	0.0	0	0.0	23	6.6	23	6.6
Ashtabula	0	0.0	0	0.0	4	1.2	4	1.2
Athens	0	0.0	1	0.3	6	1.7	7	2.0
Brown	0	0.0	0	0.0	3	0.9	3	0.9
Butler	0	0.0	0	0.0	6	1.7	6	1.7
Champaign	0	0.0	0	0.0	3	0.9	3	0.9
Columbiana	0	0.0	0	0.0	5	1.4	5	1.4
Cuyahoga	0	0.0	0	0.0	24	6.9	24	6.9
Delaware	0	0.0	0	0.0	2	0.6	2	0.6
Franklin	0	0.0	7	2.0	30	8.6	37	10.6
Gallia	0	0.0	5	1.4	1	0.3	6	1.7
Greene	0	0.0	0	0.0	2	0.6	2	0.6
Hancock	0	0.0	0	0.0	9	2.6	9	2.6
Henry	0	0.0	0	0.0	4	1.2	4	1.2
Hocking	0	0.0	0	0.0	1	0.3	1	0.3
Huron	0	0.0	0	0.0	1	0.3	1	0.3
Jefferson	0	0.0	0	0.0	14	4.0	14	4.0
Knox	0	0.0	0	0.0	5	1.4	5	1.4
Lake	0	0.0	0	0.0	4	1.2	4	1.2
Licking	0	0.0	0	0.0	3	0.9	3	0.9
Lorain	0	0.0	0	0.0	1	0.3	1	0.3
Lucas	2	0.6	0	0.0	4	1.2	6	1.7
Madison	0	0.0	0	0.0	1	0.3	1	0.3
Mahoning	0	0.0	0	0.0	6	1.7	6	1.7
Marion	0	0.0	0	0.0	12	3.5	12	3.5
Medina	0	0.0	0	0.0	5	1.4	5	1.4
Miami	0	0.0	0	0.0	3	0.9	3	0.9
Montgomery	0	0.0	3	0.9	0	0.0	3	0.9
Muskingum	4	1.2	0	0.0	17	4.9	21	6.0
Ottawa	0	0.0	0	0.0	2	0.6	2	0.6
Perry	0	0.0	0	0.0	2	0.6	2	0.6
Pickaway	0	0.0	1	0.3	5	1.4	6	1.7
Portage	0	0.0	1	0.3	4	1.2	5	1.4
Putnam	0	0.0	0	0.0	1	0.3	1	0.3
Richland	0	0.0	0	0.0	1	0.3	1	0.3
Ross	0	0.0	2	0.6	6	1.7	8	2.3
Sandusky	0	0.0	0	0.0	2	0.6	2	0.6
Scioto	0	0.0	0	0.0	17	4.9	17	4.9
Seneca	1	0.3	0	0.0	2	0.6	3	0.9
Shelby	0	0	0	0.0	3	0.9	3	0.9
Stark	2	0.6	0	0.0	7	2.0	9	2.6
Summit	0	0.0	0	0.0	3	0.9	3	0.9
Trumbull	0	0.0	0	0.0	4	1.2	4	1.2
Tuscarawas	0	0.0	0	0.0	10	2.9	10	2.9
Van Wert	0	0.0	0	0.0	11	3.2	11	3.2
Warren	0	0.0	0	0.0	13	3.7	13	3.7
Washington	0	0.0	0	0.0	3	0.9	3	0.9
Wood	0	0.0	0	0.0	6	1.7	6	1.7
State of Ohio	0	0.0	0	0.0	18	5.2	18	5.2
Total	9	2.6	20	5.8	319	91.7	348	100.0

Data based on anomalies generated from the EpiCenter system (03/19/08 – 12/31/08).

An additional 47 (28%) health events were detected in the RODS system between 01/01/08 – 03/18/08 (not shown).

Source of health event data: Ohio Department of Health Situational Monitoring and Event Detection Unit.

TRACKING OF SEASONAL TRENDS

While EpiCenter provides the analytic platform and functional capabilities to detect large-scale health events (e.g., bioterrorism and large-scale outbreaks), its utility on a daily basis is to provide leadership and key public health partners with real-time situational monitoring of trends and patterns observed in the data. Some common examples of seasonal trends that are observed annually include the following: seasonal influenza (typically from October to April), seasonal respiratory illness at the commencement of the school year (late August/early September) and seasonal rash illness over Memorial Day weekend. In each of the three charts below (Figures 1-3), the exponential moving average algorithm was used for threshold calculations, which includes a 17-day training window for predictions as well as a 17-day training window for thresholds for a total of 34 days of historical data.

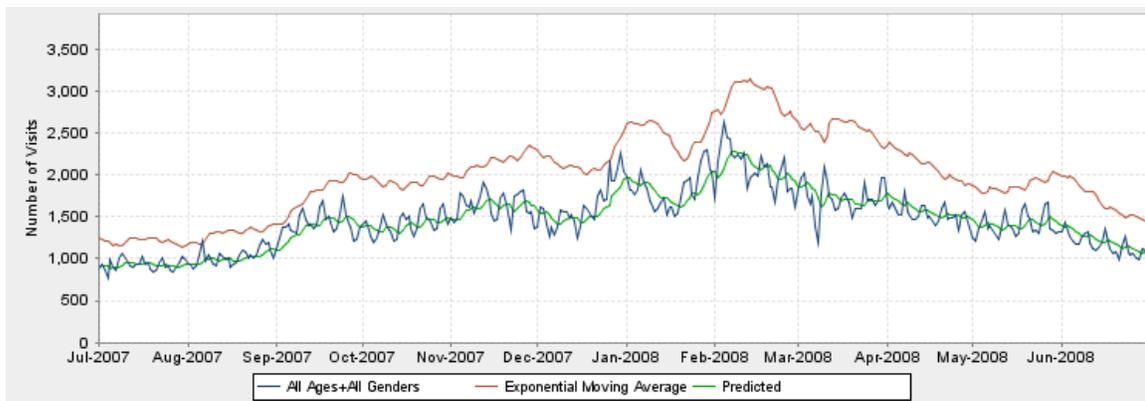
Figure 1: Ohio Seasonal Influenza Illness (Constitutional Syndrome) Trends in EpiCenter, July 2007 – June 2008



Source of data: Ohio Department of Health Situational Monitoring and Event Detection Unit.

As illustrated in Figure 1, constitutional symptoms began to increase toward mid-late December and remained elevated for several months, generally peaking in February and returning to baseline levels in late April.

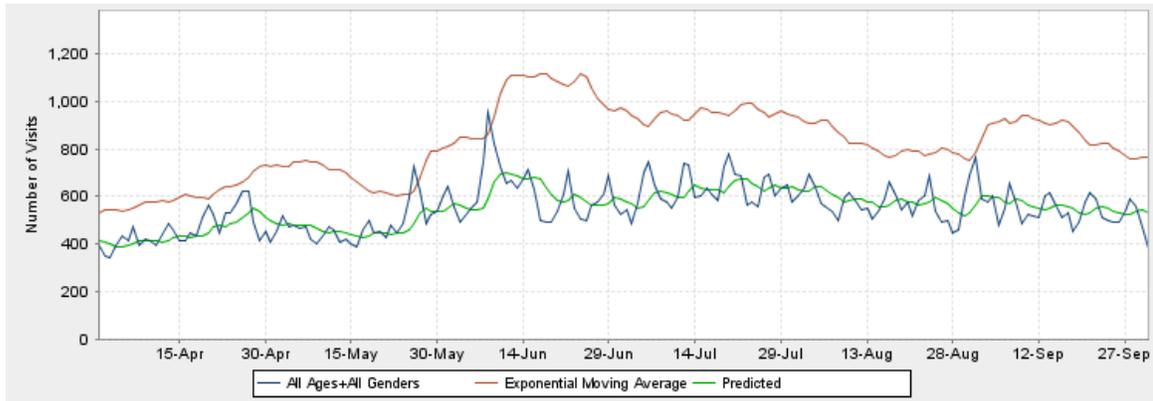
Figure 2: Ohio Seasonal Respiratory Illness Trends in EpiCenter, July 2007 – July 2008



Source of data: Ohio Department of Health Situational Monitoring and Event Detection Unit.

As shown in Figure 2, respiratory illness began to increase at the commencement of the school year (late August into early September) and generally remained elevated throughout the entire cough/cold/flu season, afterward returning to normal baseline levels during the summer months.

Figure 3: Ohio Seasonal Rash Illness Trends over Memorial Day Weekend, April 2008 – October 2008



Source of data: Ohio Department of Health Situational Monitoring and Event Detection Unit.

As illustrated in Figure 3, rash illness peaked over Memorial Day weekend (typically reaching its highest peak on Memorial Day Monday) and remained slightly elevated throughout the summer months. The general trends showed a slight increase early on in the week (Sunday-Tuesday) followed by a decline through the end of the week and into the weekend.

TECHNICAL NOTES

NOTES ON SPECIFIC DISEASES:

Anaplasma phagocytophilum: formerly known as human granulocytic ehrlichiosis (HGE).

Coccidioidomycosis: became a reportable disease in Ohio Jan. 1, 2006.

Ehrlichia chaffeensis: formerly known as human monocytic ehrlichiosis (HME).

Encephalitis, Post Other Infection: includes encephalitis following a non-central nervous system viral illness or after vaccine was administered.

Hepatitis B and C: due to the chronic nature of hepatitis B and C, all conditions associated with hepatitis B and C are shown by date of report to better capture and describe disease incidence. Data in the "Month of Onset" table are by the month the case was reported to the Centers for Disease Control and Prevention (CDC).

Herpes, Congenital: reporting moved to the Sexually Transmitted Disease (STD) Surveillance Program in 2006. Please contact the ODH STD Surveillance Program at (614) 466-1388 for congenital herpes surveillance data for 2006 and beyond.

Influenza-Associated Pediatric Mortality: became a reportable condition in Ohio Jan. 1, 2005, for children less than 18 years of age. Data in the "Month of Onset" table are by the month of death. Please contact the ODH Situational Monitoring and Event Detection Unit at (614) 995-5591 for questions and information regarding influenza surveillance in Ohio.

LaCrosse Encephalitis: case reporting to the CDC is through ArboNet by the ODH Zoonotic Disease Program (ZDP). ArboNet is an electronic-based surveillance system created by the CDC to streamline arboviral disease reporting from state public health departments. Please refer to <http://www.odh.ohio.gov/odhPrograms/dis/zoonoses/vbdp/vbdp1.aspx> for further information on vectorborne diseases.

Meningitis, Other Bacterial: includes cases of bacterial meningitis for which the agent was specified, excluding Group A *Streptococcus*, Group B *Streptococcus* (in newborns), *Haemophilus influenzae*, *Listeria monocytogenes*, *Mycobacterium tuberculosis*, *Neisseria meningitidis* and *Streptococcus pneumoniae*. Cases of meningitis due to these agents are reported as those specific conditions.

Rabies, Animal: refers only to cases among animal species. The last reported case of human rabies in Ohio occurred in 1971.

St. Louis Encephalitis: case reporting to the CDC is through ArboNet by the ODH ZDP. ArboNet is an electronic-based surveillance system created by the CDC to streamline arboviral disease reporting from state public health departments. Please refer to the ODH Web at <http://www.odh.ohio.gov/odhPrograms/dis/zoonoses/vbdp/vbdp1.aspx> for more information on vectorborne diseases.

***Streptococcus pneumoniae*, Invasive Disease, Age < 5 Years**: numbers include cases for all children less than 5 years of age, regardless of drug-resistance pattern.

***Streptococcus pneumoniae*, Invasive Disease, Drug Resistant, Ages 5+ Years:** numbers include cases 5 years of age and older with intermediate resistance or resistance to one or more antimicrobial agents.

***Streptococcus pneumoniae*, Invasive Disease, Drug Susceptible, Ages 5+ Years:** numbers include cases 5 years of age and older with invasive *Streptococcus pneumoniae* that are susceptible or of unknown susceptibility to all antimicrobial agents tested.

Varicella: became a Class A reportable disease Jan. 1, 2006. Prior to 2006, varicella was a Class B reportable disease and was reported in aggregate form on a weekly basis. Date of onset was not reported; therefore, all previous data were compiled by date of report.

West Nile Virus: case reporting to the CDC is through ArboNet by the ODH ZDP. ArboNet is an electronic-based surveillance system created by the CDC to streamline arboviral disease reporting from state public health departments. Please refer to the ODH Web for more information on vectorborne diseases at <http://www.odh.ohio.gov/odhPrograms/dis/zoonoses/vbdp/vbdp1.aspx>.

NOTES ON OUTBREAKS:

Numbers indicate the number of outbreaks reported and do not reflect the number of cases involved in the outbreak. Therefore, outbreak data are not included in the "Age in Years" and "Sex" tables, and rates were not calculated in any table. Outbreak data are by year of report, so "Month" refers to the month of report. The source of outbreak data is the ODH Outbreak Response and Bioterrorism Investigation Program. ***Six multistate outbreaks are not included in the "County" table; thus, county totals do not match totals.*** A multistate outbreak is an outbreak where the exposure occurred in more than one state.

Foodborne: for the definition of a foodborne outbreak, see "Surveillance for Foodborne Disease Outbreaks – United States, 1998-2002" in: CDC Surveillance Summaries, Nov. 10, 2006. MMWR 2006; 55 (No. SS-10). (Available at: <http://www.cdc.gov/mmwr/preview/mmwrhtml/ss5510a1.htm>).

Waterborne: for the definition of a waterborne outbreak, see "Surveillance for Waterborne Disease and Outbreaks Associated with Recreational Water Use and Other Aquatic Facility-Associated Health Events – United States, 2005-2006" and "Surveillance for Waterborne Disease and Outbreaks Associated with Drinking Water and Water Not Intended for Drinking – United States, 2005-2006" in: CDC Surveillance Summaries, Sep. 12, 2008. MMWR 2008; 57 (No. SS-9). (Available at <http://www.cdc.gov/mmwr/PDF/ss/ss5709.pdf>).

Unspecified: includes outbreaks of reportable disease agents that are neither foodborne, waterborne nor nosocomial.

Conjunctivitis: includes outbreaks of conjunctivitis of bacterial, viral or unknown etiology.

Nosocomial: includes hospital-acquired outbreaks of all etiologies.

Pediculosis: includes louse-associated outbreaks of all origins (head, body and pubic or crab lice).

Scabies: includes scabies outbreaks, both confirmed and suspected.

Staphylococcal Skin Infections: includes staphylococcal outbreaks in which isolates were antibiotic-susceptible as well as outbreaks in which isolates were methicillin-resistant *Staphylococcus aureus* (MRSA).

Unusual Incidence of Non-Class A, Class B or Class C Disease: includes outbreaks in which the causative agent was not a Class A, B or C disease. Most of these were outbreaks of norovirus that were point-source or person-to-person spread.

NOTES ON RATE CALCULATIONS:

Population estimates for rates in the “Age in Years”, “Sex” and “County of Residence” tables come from the 2000 U.S. Census. Population estimates for rates in the “Year of Onset” table come from the U.S. Census midpoint estimates for each year. Rates were only calculated in the “Age in Years” table for the following conditions because they pertain to selected age populations and not the entire population (please refer to the “Age in Years” table for rates by age group, when available):

- Botulism, infant
- Cytomegalovirus (CMV), congenital
- Hepatitis B, perinatal infection
- Herpes, congenital
- Streptococcal disease, group B, in newborn
- *Streptococcus pneumoniae*, invasive disease, ages < 5 years
- *Streptococcus pneumoniae*, invasive disease, drug resistant, ages 5+ years
- *Streptococcus pneumoniae*, invasive disease, drug susceptible, ages 5+ years
- Toxoplasmosis, congenital

DISEASES NOT INCLUDED IN TABLES:

There were no known cases in Ohio of the following reportable diseases during at least the past five years; thus, they are not included in the 2004-2008 disease tables (pp. 6-8):

- Anthrax
- Botulism, wound
- Diphtheria
- Eastern equine encephalitis
- *Ehrlichia ewingii*
- Ehrlichiosis/anaplasmosis undetermined
- Encephalitis, post mumps
- Encephalitis, post chickenpox
- Hantavirus
- Plague
- Poliomyelitis
- Powassan encephalitis
- Psittacosis
- Rabies, human
- Reye syndrome
- Rubella, congenital and not congenital
- Severe acute respiratory syndrome
- Smallpox
- *Staphylococcus aureus*, resistant to vancomycin
- Viral hemorrhagic fever
- Western equine encephalitis
- Yellow fever

There were no outbreaks of the following reported 2005-2008:

- Blastomycosis
- Histoplasmosis
- Sporotrichosis
- Toxoplasmosis

Diseases not included in the “Age in Years,” “Sex,” “Month of Onset” and “County of Residence” tables (pp. 9-44) had no known cases reported in 2008.

NOTE ON *SALMONELLA* SEROTYPES AND MENINGOCOCCAL DISEASE SEROGROUPS:

The bacteriology laboratory at ODH performs serotyping of *Salmonella* isolates and serogrouping of *Neisseria meningitidis* isolates. Hospital and other clinical laboratories are encouraged to send *Salmonella* and *Neisseria meningitidis* isolates to the ODH Laboratory for serotyping and serogrouping. The ODH Laboratory also requests *Escherichia coli*, *Listeria*, *Vibrio*, *Haemophilus influenzae* (in children under 5 years of age) and vancomycin-resistant *Staphylococcus aureus* isolates with a minimum inhibitory concentration (MIC) of 8 or greater. For further information on the submission of isolates, please contact the bacteriology laboratory at (614) 644-4656.

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