

OHIO DEPARTMENT OF HEALTH

ANNUAL SUMMARY OF INFECTIOUS DISEASES OHIO 2013

REPORTED INCIDENCE OF SELECTED
NOTIFIABLE DISEASES



PREPARED AND DISTRIBUTED BY:

BUREAU OF INFECTIOUS DISEASES

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INTRODUCTION

The *Annual Summary of Infectious Diseases, Ohio, 2013* 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 and county of residence. Also included are tables of Shiga toxin-producing *Escherichia coli* serogroups, meningococcal disease serogroups and *Salmonella* serotypes. In addition, there are graphs of selected disease incidence, profiles of selected diseases, outbreak summaries and profiles of 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, healthcare 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 acquired by Ohio residents while traveling out of state or overseas and diseases diagnosed in non-United States citizens while visiting Ohio.

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

- 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://wwwn.cdc.gov/NNDSS/script/ConditionList.aspx?Type=0&Yr=2013>.

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/idstats>.

Thanks to all Ohio infection preventionists, healthcare 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 ODH Bureau of Infectious Diseases at (614) 995-5599.

OHIO NOTIFIABLE DISEASES

Ohio Administrative Code (OAC) 3701-3, effective Jan. 1, 2009

The following infectious diseases were reportable to the Ohio Department of Health Jan. 1, 2013 through Dec. 31, 2013:

CLASS A

Diseases of major public health concern because of the severity of disease or the potential for epidemic spread. Report by telephone immediately upon recognition that a case, a suspected case or a positive laboratory result exists.

- Anthrax
- Botulism, foodborne
- Cholera
- Diphtheria
- Influenza A, novel virus
- 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 B(1)

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 is known.

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

OHIO NOTIFIABLE DISEASES

Ohio Administrative Code (OAC) 3701-3, effective Jan. 1, 2009

CLASS B(2)

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 is known.

- Amebiasis
- Botulism, infant
- Botulism, wound
- Brucellosis
- Campylobacteriosis
- Chlamydia infections
- Creutzfeldt-Jakob disease
- Cryptosporidiosis
- Cytomegalovirus, congenital
- Ehrlichiosis/Anaplasmosis
- Giardiasis
- Gonococcal infections
- Hepatitis B, non-perinatal
- Hepatitis C
- Hepatitis D
- Hepatitis E
- Herpes, congenital
- Influenza-associated hospitalization
- Leprosy
- Leptospirosis
- Lyme disease
- Mycobacterial disease, other than tuberculosis
- 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
- Trichinosis
- Typhus fever
- Varicella
- Vibriosis
- Yersiniosis

CLASS C

Report an outbreak, unusual incidence or epidemic (e.g., histoplasmosis, pediculosis, scabies or staphylococcal infections) by the end of the next business day.

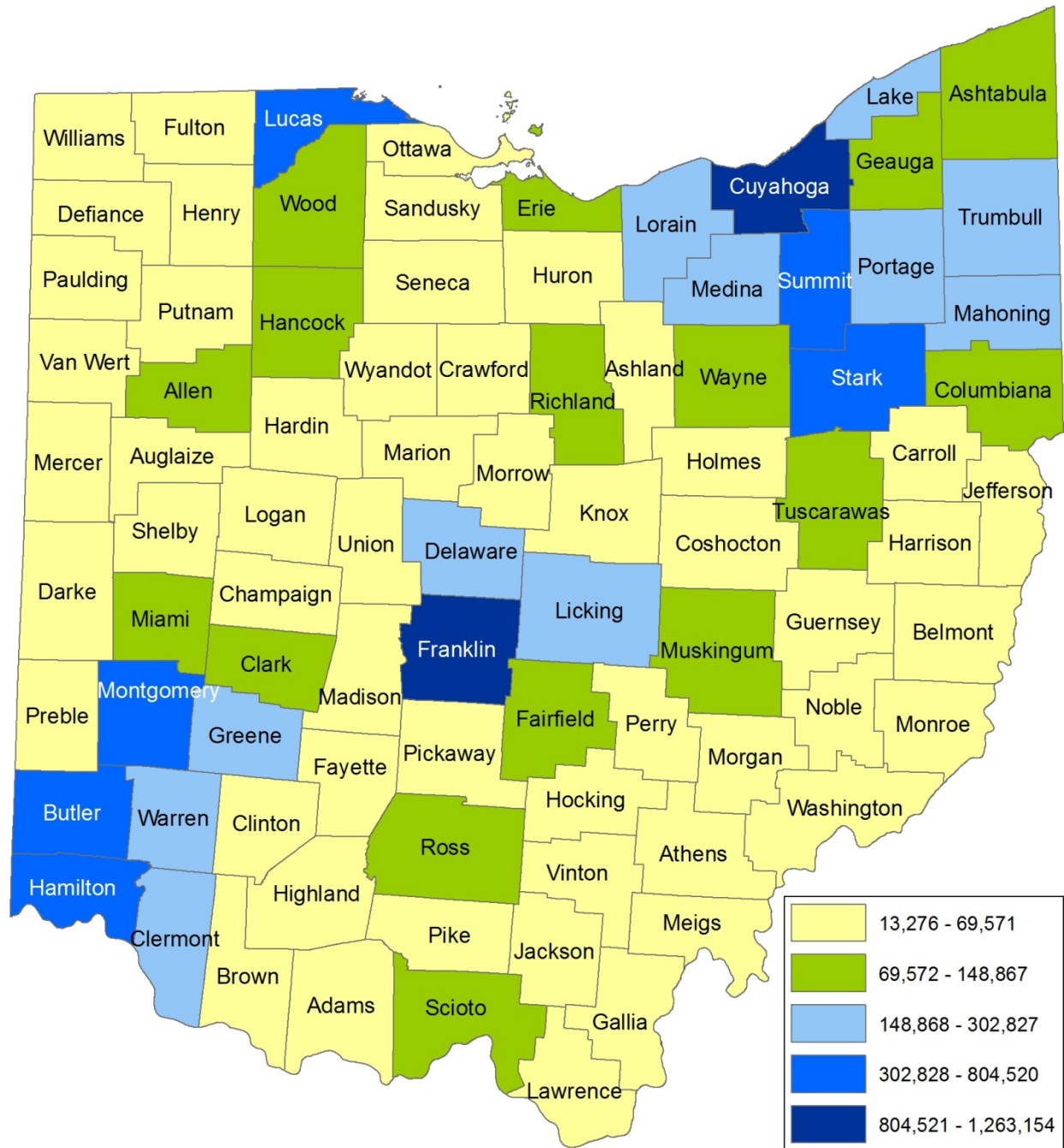
- Community
- Foodborne
- Healthcare-associated
- Institutional
- Waterborne
- Zoonotic

AIDS AND HIV REPORTING

Cases of AIDS (acquired immune deficiency syndrome), AIDS-related conditions, HIV (human immunodeficiency virus) 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 of reportable diseases in Ohio, please see <http://www.odh.ohio.gov/reportablediseases> or OAC [3701-3-02](#) and [3701-3-12](#).

OHIO COUNTY POPULATION MAP



Source of population data: 2013 U.S. Census estimates.

TABLES OF SELECTED NOTIFIABLE DISEASES

BY YEAR OF ONSET TABLE

Pages 6-7

This table displays case counts and rates for five years of data in addition to the median and mean counts and rates during 2009-2013. Medians and means were calculated only when five years of data were available. Population data come from the U.S. Census estimates for each year except 2010, which uses the actual count. Data are by year of onset with the exception of hepatitis B and C conditions and outbreaks, which are shown by date of report for all years. Please refer to the technical notes for limitations on hepatitis B and C data. Data in 1992-2003 annual summaries were by date of report.

BY AGE TABLE

Pages 8-11

This table provides case counts and rates by age group (in years) for 2013. Age refers to the patient's age at the earliest known date associated with the case. Population data come from the 2013 U.S. Census estimates. Outbreak data are not included in this table.

BY SEX TABLE

Pages 12-13

This table contains case counts and rates by sex for 2013. Population data come from the 2013 U.S. Census estimates. Outbreak data are not included in this table.

BY MONTH OF ONSET TABLE

Pages 14-17

Case counts and percentages by month of onset for 2013 are presented in this table. 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 18-43

This table displays case counts and rates by county for 2013. County refers to the patient's county of residence. If the county of residence is unknown, then the county in which the physician, hospital or local health department is located is used. Population data come from the 2013 U.S. Census estimates.

ESCHERICHIA COLI, SHIGA TOXIN-PRODUCING SEROGROUPS TABLE

Page 44

This table shows Shiga toxin-producing *Escherichia coli* case counts by serogroup during 2009-2013. The bacteriology laboratory at ODH performs serogrouping of Shiga toxin-producing *E. coli* isolates.

MENINGOCOCCAL SEROGROUPS TABLE

Page 45

This table shows meningococcal disease case counts by serogroup during 2009-2013. The bacteriology laboratory at ODH performs serogrouping of *Neisseria meningitidis* isolates.

SALMONELLA SEROTYPES TABLE

Pages 46-49

Salmonella case counts by serotype during 2009-2013 are contained in this table. Serotypes, untyped serogroups and untyped/ungrouped isolates are provided. The bacteriology laboratory at ODH performs serotyping of *Salmonella* isolates.

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY YEAR OF ONSET, OHIO, 2009-2013

GENERAL INFECTIOUS DISEASES	2009		2010		2011		2012		2013		MEDIAN		MEAN	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	22	0.2	29	0.3	10	0.1	11	0.1	7	0.1	11	0.1	16	0.2
Botulism	6	0.1	3	0.0	2	0.0	6	0.1	5	0.0	5	0.0	4	0.0
Foodborne	1	0.0	0	0.0	1	0.0	2	0.0	0	0.0	1	0.0	1	0.0
Infant*	5	*	2	*	1	*	4	*	5	*	4	*	3	*
Wound	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Campylobacteriosis	1,262	10.9	1,124	9.7	1,191	10.3	1,129	9.8	1,023	8.8	1,129	9.8	1,146	9.9
Cholera	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
Coccidioidomycosis	18	0.2	17	0.1	20	0.2	17	0.1	10	0.1	17	0.1	16	0.1
Creutzfeldt-Jakob Disease (CJD)	12	0.1	12	0.1	12	0.1	13	0.1	8	0.1	12	0.1	11	0.1
Cryptosporidiosis	386	3.3	477	4.1	1,113	9.6	550	4.8	367	3.2	477	4.1	579	5.0
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1	0	0.0	1	0.0
Cytomegalovirus (CMV), Congenital*	19	*	28	*	10	*	31	*	29	*	28	*	23	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	128	1.1	138	1.2	182	1.6	240	2.1	223	1.9	182	1.6	182	1.6
O157:H7	87	0.8	75	0.7	95	0.8	122	1.1	76	0.7	87	0.8	91	0.8
Not O157:H7	26	0.2	43	0.4	72	0.6	105	0.9	138	1.2	72	0.6	77	0.7
Unknown Serotype	15	0.1	20	0.2	15	0.1	13	0.1	9	0.1	15	0.1	14	0.1
Giardiasis	816	7.1	863	7.5	781	6.8	571	4.9	505	4.4	781	6.8	707	6.1
<i>Haemophilus influenzae</i> , Invasive Disease	98	0.8	125	1.1	178	1.5	152	1.3	153	1.3	152	1.3	141	1.2
Hemolytic Uremic Syndrome (HUS)	14	0.1	1	0.0	5	0.0	10	0.1	10	0.1	10	0.1	8	0.1
Legionellosis	274	2.4	230	2.0	390	3.4	288	2.5	496	4.3	288	2.5	336	2.9
Leprosy (Hansen Disease)	2	0.0	1	0.0	1	0.0	0	0.0	1	0.0	1	0.0	1	0.0
Listeriosis	29	0.3	29	0.3	29	0.3	28	0.2	28	0.2	29	0.3	29	0.3
Meningitis, Aseptic	828	7.2	810	7.0	1,329	11.5	701	6.1	857	7.4	828	7.2	905	7.8
Meningitis, Other Bacterial*	68	0.6	82	0.7	84	0.7	95	0.8	83	0.7	83	0.7	82	0.7
Meningococcal Disease	42	0.4	35	0.3	24	0.2	24	0.2	10	0.1	24	0.2	27	0.2
Salmonellosis	1,377	11.9	1,309	11.3	1,183	10.2	1,270	11.0	1,190	10.3	1,270	11.0	1,266	10.9
Shigellosis	1,050	9.1	304	2.6	338	2.9	1,812	15.7	645	5.6	645	5.6	830	7.2
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	3	0.0	10	0.1	3	0.0	9	0.1	13	0.1	9	0.1	8	0.1
Streptococcal Disease, Group A, Invasive	208	1.8	248	2.1	322	2.8	286	2.5	305	2.6	286	2.5	274	2.4
Streptococcal Disease, Group B, in Newborn*	63	*	41	*	71	*	79	*	65	*	65	*	64	*
Streptococcal Toxic Shock Syndrome (STSS)	11	0.1	12	0.1	18	0.2	11	0.1	9	0.1	11	0.1	12	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	1,358	11.8	1,220	10.6	1,261	10.9	1,188	10.3	1,112	9.6	1,220	10.6	1,228	10.6
Ages < 5 Years*	139	*	97	*	84	*	81	*	41	*	84	*	88	*
Drug Resistant, Ages 5+ Years*	343	*	320	*	304	*	321	*	277	*	320	*	313	*
Drug Susceptible, Ages 5+ Years*	876	*	803	*	873	*	786	*	794	*	803	*	826	*
Toxic Shock Syndrome (TSS)	2	0.0	4	0.0	0	0.0	2	0.0	2	0.0	2	0.0	2	0.0
Typhoid Fever	11	0.1	9	0.1	5	0.0	13	0.1	5	0.0	9	0.1	9	0.1
Vibriosis	6	0.1	11	0.1	7	0.1	11	0.1	11	0.1	11	0.1	9	0.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	5	0.0	3	0.0	6	0.1	7	0.1	5	0.0	4	0.0
<i>Vibrio vulnificus</i> Infection	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0
Other (Not Cholera)	6	0.1	6	0.1	4	0.0	4	0.0	3	0.0	4	0.0	5	0.0
Yersiniosis	44	0.4	42	0.4	31	0.3	43	0.4	34	0.3	42	0.4	39	0.4
SUB-TOTAL	8,157	70.7	7,217	62.6	8,600	74.5	8,590	74.4	7,213	62.3	8,157	70.7	7,955	68.9

HEPATITIS														
Hepatitis A	34	0.3	49	0.4	34	0.3	45	0.4	55	0.5	45	0.4	43	0.4
Hepatitis B, Acute*	213	1.8	123	1.1	106	0.9	170	1.5	232	2.0	170	1.5	169	1.5
Hepatitis B, Perinatal Infection*	0	*	3	*	4	*	1	*	5	*	3	*	3	*
Hepatitis C, Acute*	64	0.6	12	0.1	6	0.1	7	0.1	113	1.0	12	0.1	40	0.3
Hepatitis E	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	311	2.7	188	1.6	150	1.3	223	1.9	405	3.5	223	1.9	255	2.2

N = number of cases reported.

Rates use U.S. Census estimates, except 2010, and are per 100,000 population.

n/a = not applicable.

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

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY YEAR OF ONSET, OHIO, 2009-2013

OUTBREAKS*	2009		2010		2011		2012		2013		MEDIAN		MEAN	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	26	n/a	47	n/a	32	n/a	55	n/a	40	n/a	40	n/a	40	n/a
Foodborne*	56	n/a	69	n/a	61	n/a	85	n/a	76	n/a	69	n/a	69	n/a
Healthcare-Associated*	55	n/a	68	n/a	37	n/a	94	n/a	84	n/a	68	n/a	68	n/a
Institutional*	64	n/a	82	n/a	104	n/a	170	n/a	153	n/a	104	n/a	115	n/a
Waterborne*	2	n/a	10	n/a	17	n/a	5	n/a	14	n/a	10	n/a	10	n/a
Zoonotic*	9	n/a	2	n/a	4	n/a	18	n/a	4	n/a	4	n/a	7	n/a
SUB-TOTAL	212	n/a	278	n/a	255	n/a	427	n/a	371	n/a	278	n/a	309	n/a

VACCINE-PREVENTABLE														
Influenza-Associated Hospitalization*	3,818	33.1	259	2.2	2,410	20.9	2,961	25.6	4,197	36.3	2,961	25.6	2,729	23.6
Influenza-Associated Pediatric Mortality*	15	*	0	*	1	*	2	*	6	*	2	*	5	*
Influenza A Virus, Novel Human Infection*	240	2.1	0	0.0	0	0.0	107	0.9	1	0.0	1	0.0	70	0.6
Measles	1	0.0	2	0.0	0	0.0	1	0.0	0	0.0	1	0.0	1	0.0
Imported	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0
Indigenous	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	6	0.1	27	0.2	13	0.1	8	0.1	12	0.1	12	0.1	13	0.1
Pertussis	1,100	9.5	1,858	16.1	690	6.0	905	7.8	1,667	14.4	1,100	9.5	1,244	10.8
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
Tetanus	2	0.0	1	0.0	1	0.0	2	0.0	0	0.0	1	0.0	1	0.0
Varicella	1,829	15.8	1,337	11.6	1,040	9.0	811	7.0	648	5.6	1,040	9.0	1,133	9.8
SUB-TOTAL	7,011	60.7	3,484	30.2	4,155	36.0	4,797	41.6	6,532	56.5	4,797	41.6	5,196	45.0

ZOO NOSES														
Brucellosis	4	0.0	1	0.0	0	0.0	0	0.0	2	0.0	1	0.0	1	0.0
Dengue	3	0.0	16	0.1	2	0.0	6	0.1	9	0.1	6	0.1	7	0.1
Ehrlichiosis/Anaplasmosis	13	0.1	10	0.1	14	0.1	6	0.1	15	0.1	13	0.1	12	0.1
<i>Anaplasma phagocytophilum</i> *	1	0.0	2	0.0	8	0.1	1	0.0	4	0.0	2	0.0	3	0.0
<i>Ehrlichia chaffeensis</i> *	11	0.1	8	0.1	5	0.0	4	0.0	9	0.1	8	0.1	7	0.1
<i>Ehrlichia ewingii</i> *	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	0	0.0	0	0.0	1	0.0	1	0.0	2	0.0	1	0.0	1	0.0
LaCrosse Virus Disease*	5	0.0	24	0.2	50	0.4	14	0.1	16	0.1	16	0.1	22	0.2
Leptospirosis	1	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	56	0.5	37	0.3	52	0.5	63	0.5	83	0.7	56	0.5	58	0.5
Malaria	36	0.3	44	0.4	41	0.4	40	0.3	33	0.3	40	0.3	39	0.3
Psittacosis	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Q Fever	0	0.0	1	0.0	1	0.0	3	0.0	5	0.0	1	0.0	2	0.0
Acute	0	0.0	0	0.0	1	0.0	3	0.0	2	0.0	1	0.0	1	0.0
Chronic	0	0.0	1	0.0	0	0.0	0	0.0	3	0.0	0	0.0	1	0.0
Rabies, Animal*	47	n/a	47	n/a	51	n/a	41	n/a	64	n/a	47	n/a	50	n/a
Rocky Mountain Spotted Fever (RMSF)	17	0.1	16	0.1	21	0.2	23	0.2	23	0.2	21	0.2	20	0.2
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0
Tularemia	1	0.0	0	0.0	1	0.0	0	0.0	2	0.0	1	0.0	1	0.0
Typhus Fever, Murine	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	2	0.0	5	0.0	21	0.2	122	1.1	24	0.2	21	0.2	35	0.3
SUB-TOTAL	186	1.2	202	1.3	255	1.8	318	2.4	277	1.8	255	1.8	248	1.7

GRAND TOTAL	15,877	135.3	11,369	95.7	13,415	113.6	14,355	120.3	14,798	124.1	14,355	120.3	13,963	117.8
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POPULATION	11,542,645	11,536,504	11,541,007	11,544,225	11,570,808	11,542,645	11,547,038
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N = number of cases reported.

Rates use U.S. Census estimates, except 2010, and are per 100,000 population.

n/a = not applicable.

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

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2013

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	0	0.0	0	0.0	0	0.0	2	0.1	1	0.1
Botulism	5	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	5	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	113	16.4	48	6.5	39	5.1	56	7.2	142	9.3	116	8.3
Coccidioidomycosis	0	0.0	0	0.0	1	0.1	1	0.1	1	0.1	1	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	50	7.2	26	3.5	25	3.3	26	3.3	58	3.8	39	2.8
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	1	0.1
Cytomegalovirus (CMV), Congenital*	29	*	0	*	0	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	57	8.3	20	2.7	17	2.2	22	2.8	37	2.4	25	1.8
O157:H7	19	2.8	11	1.5	7	0.9	7	0.9	12	0.8	8	0.6
Not O157:H7	36	5.2	9	1.2	9	1.2	14	1.8	25	1.6	16	1.1
Unknown Serotype	2	0.3	0	0.0	1	0.1	1	0.1	0	0.0	1	0.1
Giardiasis	74	10.7	43	5.9	21	2.8	26	3.3	65	4.3	66	4.7
<i>Haemophilus influenzae</i> , Invasive Disease	29	4.2	1	0.1	2	0.3	0	0.0	2	0.1	7	0.5
Hemolytic Uremic Syndrome (HUS)	4	0.6	3	0.4	2	0.3	0	0.0	0	0.0	0	0.0
Legionellosis	1	0.1	0	0.0	2	0.3	1	0.1	11	0.7	22	1.6
Leprosy (Hansen Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Listeriosis	2	0.3	1	0.1	0	0.0	0	0.0	0	0.0	2	0.1
Meningitis, Aseptic	259	37.5	54	7.4	54	7.1	55	7.0	132	8.7	76	5.5
Meningitis, Other Bacterial*	11	1.6	0	0.0	2	0.3	1	0.1	6	0.4	11	0.8
Meningococcal Disease	3	0.4	0	0.0	0	0.0	2	0.3	0	0.0	0	0.0
Salmonellosis	185	26.8	75	10.2	56	7.4	61	7.8	143	9.4	118	8.5
Shigellosis	283	41.0	125	17.0	28	3.7	16	2.1	74	4.9	46	3.3
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1
Streptococcal Disease, Group A, Invasive	15	2.2	7	1.0	3	0.4	2	0.3	23	1.5	29	2.1
Streptococcal Disease, Group B, in Newborn*	65	*	0	*	0	*	0	*	0	*	0	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	1	0.1	1	0.1	0	0.0	2	0.1	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	41	5.9	20	2.7	8	1.1	6	0.8	36	2.4	64	4.6
Ages < 5 Years*	41	5.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Drug Resistant, Ages 5+ Years*	0	0.0	5	0.7	1	0.1	0	0.0	12	0.8	8	0.6
Drug Susceptible, Ages 5+ Years*	0	0.0	15	2.0	7	0.9	6	0.8	24	1.6	56	4.0
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	1	0.1	1	0.1	0	0.0	0	0.0
Typhoid Fever	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0
Vibriosis	0	0.0	0	0.0	1	0.1	0	0.0	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	2	0.1
<i>Vibrio vulnificus</i> Infection	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
Yersiniosis	13	1.9	2	0.3	1	0.1	4	0.5	1	0.1	3	0.2
SUB-TOTAL	1,239	179.4	426	58.0	264	34.7	280	35.9	740	48.5	632	45.4

HEPATITIS												
Hepatitis A	1	0.1	2	0.3	1	0.1	2	0.3	9	0.6	9	0.6
Hepatitis B, Acute*	0	0.0	0	0.0	0	0.0	0	0.0	33	2.2	92	6.6
Hepatitis B, Perinatal Infection*	5	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	0	0.0	0	0.0	0	0.0	8	1.0	52	3.4	27	1.9
SUB-TOTAL	6	0.9	2	0.3	1	0.1	10	1.3	94	6.2	128	9.2

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2013

VACCINE-PREVENTABLE	0-4		5-9		10-14		15-19		20-29		30-39	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Influenza-Associated Hospitalization*	468	67.7	162	22.1	70	9.2	65	8.3	177	11.6	218	15.7
Influenza-Associated Pediatric Mortality*	4	0.6	0	0.0	1	0.1	1	0.1	0	0.0	0	0.0
Influenza A Virus, Novel Human Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Mumps	3	0.4	2	0.3	0	0.0	0	0.0	0	0.0	1	0.1
Pertussis	391	56.6	320	43.6	484	63.6	232	29.7	47	3.1	46	3.3
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Varicella	169	24.5	240	32.7	131	17.2	51	6.5	30	2.0	5	0.4
SUB-TOTAL	1,035	149.8	724	98.6	686	90.2	349	44.7	254	16.7	271	19.5

ZONOTIC DISEASES												
Brucellosis	0	0.0	0	0.0	0	0.0	1	0.1	1	0.1	0	0.0
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	2	0.1	2	0.1
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	1	0.1
<i>Anaplasma phagocytophilum</i> *	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	1	0.1
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0
LaCrosse Virus Disease*	2	0.3	6	0.8	7	0.9	0	0.0	0	0.0	0	0.0
Lyme Disease	2	0.3	7	1.0	6	0.8	5	0.6	7	0.5	7	0.5
Malaria	1	0.1	1	0.1	0	0.0	2	0.3	7	0.5	7	0.5
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	0	n/a	0	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	0	0.0	2	0.3	1	0.1	3	0.2
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
SUB-TOTAL	5	0.7	15	2.0	13	1.7	10	1.3	19	1.2	21	1.5

GRAND TOTAL	2,285	330.8	1,167	159.0	964	126.7	649	83.2	1,107	72.6	1,052	75.6
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POPULATION	690,821	733,917	760,597	780,249	1,525,053	1,391,362
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2013

GENERAL INFECTIOUS DISEASES	40-49		50-59		60 +		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	2	0.1	1	0.1	1	0.0	0	n/a	7	0.1
Botulism	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Infant*	0	*	0	*	0	*	0	n/a	5	*
Campylobacteriosis	125	8.2	150	8.8	232	9.4	2	n/a	1,023	8.8
Coccidioidomycosis	0	0.0	2	0.1	4	0.2	0	n/a	10	0.1
Creutzfeldt-Jakob Disease (CJD)	1	0.1	3	0.2	4	0.2	0	n/a	8	0.1
Cryptosporidiosis	40	2.6	36	2.1	67	2.7	0	n/a	367	3.2
Cyclosporiasis	0	0.0	0	0.0	4	0.2	0	n/a	7	0.1
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	n/a	29	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	15	1.0	13	0.8	17	0.7	0	n/a	223	1.9
O157:H7	3	0.2	4	0.2	5	0.2	0	n/a	76	0.7
Not O157:H7	9	0.6	8	0.5	12	0.5	0	n/a	138	1.2
Unknown Serotype	3	0.2	1	0.1	0	0.0	0	n/a	9	0.1
Giardiasis	67	4.4	62	3.6	79	3.2	2	n/a	505	4.4
<i>Haemophilus influenzae</i> , Invasive Disease	8	0.5	9	0.5	95	3.9	0	n/a	153	1.3
Hemolytic Uremic Syndrome (HUS)	1	0.1	0	0.0	0	0.0	0	n/a	10	0.1
Legionellosis	61	4.0	119	7.0	279	11.3	0	n/a	496	4.3
Leprosy (Hansen Disease)	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Listeriosis	2	0.1	6	0.4	15	0.6	0	n/a	28	0.2
Meningitis, Aseptic	76	5.0	64	3.8	85	3.4	2	n/a	857	7.4
Meningitis, Other Bacterial*	17	1.1	10	0.6	25	1.0	0	n/a	83	0.7
Meningococcal Disease	2	0.1	0	0.0	3	0.1	0	n/a	10	0.1
Salmonellosis	142	9.3	154	9.1	255	10.3	1	n/a	1,190	10.3
Shigellosis	27	1.8	23	1.4	23	0.9	0	n/a	645	5.6
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	5	0.3	6	0.2	0	n/a	13	0.1
Streptococcal Disease, Group A, Invasive	31	2.0	54	3.2	141	5.7	0	n/a	305	2.6
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	0	n/a	65	*
Streptococcal Toxic Shock Syndrome (STSS)	1	0.1	1	0.1	3	0.1	0	n/a	9	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	105	6.9	227	13.3	605	24.5	0	n/a	1,112	9.6
Ages < 5 Years*	0	0.0	0	0.0	0	0.0	0	n/a	41	5.9
Drug Resistant, Ages 5+ Years*	17	1.1	55	3.2	179	7.3	0	n/a	277	2.5
Drug Susceptible, Ages 5+ Years*	88	5.8	172	10.1	426	17.3	0	n/a	794	7.3
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Typhoid Fever	0	0.0	1	0.1	1	0.0	0	n/a	5	0.0
Vibriosis	0	0.0	1	0.1	7	0.3	0	n/a	11	0.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	1	0.1	4	0.2	0	n/a	7	0.1
<i>Vibrio vulnificus</i> Infection	0	0.0	0	0.0	1	0.0	0	n/a	1	0.0
Other (Not Cholera)	0	0.0	0	0.0	2	0.1	0	n/a	3	0.0
Yersiniosis	0	0.0	7	0.4	3	0.1	0	n/a	34	0.3
SUB-TOTAL	723	47.5	948	55.7	1,954	79.2	7	n/a	7,213	62.3

HEPATITIS										
Hepatitis A	7	0.5	7	0.4	17	0.7	0	n/a	55	0.5
Hepatitis B, Acute*	67	4.4	24	1.4	16	0.6	0	n/a	232	2.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	n/a	5	*
Hepatitis C, Acute*	13	0.9	9	0.5	4	0.2	0	n/a	113	1.0
SUB-TOTAL	87	5.7	40	2.4	37	1.5	0	n/a	405	3.5

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY AGE IN YEARS, OHIO, 2013

VACCINE-PREVENTABLE	40-49		50-59		60 +		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Influenza-Associated Hospitalization*	298	19.6	648	38.1	2,085	84.5	6	n/a	4,197	36.3
Influenza-Associated Pediatric Mortality*	0	0.0	0	0.0	0	0.0	0	n/a	6	0.1
Influenza A Virus, Novel Human Infection*	0	0.0	0	0.0	1	0.0	0	n/a	1	0.0
Mumps	4	0.3	0	0.0	2	0.1	0	n/a	12	0.1
Pertussis	62	4.1	43	2.5	41	1.7	1	n/a	1,667	14.4
Rubella	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Varicella	10	0.7	7	0.4	5	0.2	0	n/a	648	5.6
SUB-TOTAL	374	24.6	698	41.0	2,134	86.5	7	n/a	6,532	56.5

ZOO NOSES										
Brucellosis	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Dengue	1	0.1	4	0.2	0	0.0	0	n/a	9	0.1
Ehrlichiosis/Anaplasmosis	4	0.3	2	0.1	7	0.3	0	n/a	15	0.1
<i>Anaplasma phagocytophilum</i> *	1	0.1	1	0.1	2	0.1	0	n/a	4	0.0
<i>Ehrlichia chaffeensis</i> *	2	0.1	1	0.1	5	0.2	0	n/a	9	0.1
Unknown	1	0.1	0	0.0	0	0.0	0	n/a	2	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	1	0.0	0	n/a	16	0.1
Lyme Disease	11	0.7	18	1.1	20	0.8	0	n/a	83	0.7
Malaria	5	0.3	6	0.4	4	0.2	0	n/a	33	0.3
Q Fever	1	0.1	1	0.1	3	0.1	0	n/a	5	0.0
Acute	1	0.1	1	0.1	0	0.0	0	n/a	2	0.0
Chronic	0	0.0	0	0.0	3	0.1	0	n/a	3	0.0
Rabies, Animal*	0	n/a	0	n/a	0	n/a	64	n/a	64	n/a
Rocky Mountain Spotted Fever (RMSF)	3	0.2	7	0.4	7	0.3	0	n/a	23	0.2
Trichinosis	0	0.0	0	0.0	1	0.0	0	n/a	1	0.0
Tularemia	1	0.1	0	0.0	0	0.0	0	n/a	2	0.0
West Nile Virus Infection	1	0.1	3	0.2	19	0.8	0	n/a	24	0.2
SUB-TOTAL	27	1.8	41	2.4	62	2.5	64	n/a	277	1.8

GRAND TOTAL	1,211	79.6	1,727	101.5	4,187	169.7	78	n/a	14,427	124.1
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POPULATION	1,520,717	1,700,872	2,467,220	0	11,570,808
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY SEX, OHIO, 2013

GENERAL INFECTIOUS DISEASES	Female		Male		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate
Amebiasis	3	0.1	4	0.1	0	n/a	7	0.1
Botulism	2	0.0	3	0.1	0	n/a	5	0.0
Infant*	2	*	3	*	0	n/a	5	*
Campylobacteriosis	476	8.1	545	9.6	2	n/a	1,023	8.8
Coccidioidomycosis	4	0.1	6	0.1	0	n/a	10	0.1
Creutzfeldt-Jakob Disease (CJD)	3	0.1	5	0.1	0	n/a	8	0.1
Cryptosporidiosis	191	3.2	175	3.1	1	n/a	367	3.2
Cyclosporiasis	5	0.1	2	0.0	0	n/a	7	0.1
Cytomegalovirus (CMV), Congenital*	14	*	15	*	0	n/a	29	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	135	2.3	88	1.6	0	n/a	223	1.9
O157:H7	43	0.7	33	0.6	0	n/a	76	0.7
Not O157:H7	88	1.5	50	0.9	0	n/a	138	1.2
Unknown Serotype	4	0.1	5	0.1	0	n/a	9	0.1
Giardiasis	198	3.3	296	5.2	11	n/a	505	4.4
<i>Haemophilus influenzae</i> , Invasive Disease	80	1.4	73	1.3	0	n/a	153	1.3
Hemolytic Uremic Syndrome (HUS)	5	0.1	5	0.1	0	n/a	10	0.1
Legionellosis	201	3.4	294	5.2	1	n/a	496	4.3
Leprosy (Hansen Disease)	0	0.0	1	0.0	0	n/a	1	0.0
Listeriosis	10	0.2	18	0.3	0	n/a	28	0.2
Meningitis, Aseptic	390	6.6	462	8.2	5	n/a	857	7.4
Meningitis, Other Bacterial*	36	0.6	47	0.8	0	n/a	83	0.7
Meningococcal Disease	6	0.1	4	0.1	0	n/a	10	0.1
Salmonellosis	637	10.8	552	9.8	1	n/a	1,190	10.3
Shigellosis	352	6.0	293	5.2	0	n/a	645	5.6
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	4	0.1	9	0.2	0	n/a	13	0.1
Streptococcal Disease, Group A, Invasive	158	2.7	146	2.6	1	n/a	305	2.6
Streptococcal Disease, Group B, in Newborn*	31	*	33	*	1	n/a	65	*
Streptococcal Toxic Shock Syndrome (STSS)	6	0.1	3	0.1	0	n/a	9	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	536	9.1	569	10.1	7	n/a	1,112	9.6
Ages < 5 Years*	13	*	28	*	0	n/a	41	*
Drug Resistant, Ages 5+ Years*	140	*	135	*	2	n/a	277	*
Drug Susceptible, Ages 5+ Years*	383	*	406	*	5	n/a	794	*
Toxic Shock Syndrome (TSS)	1	0.0	1	0.0	0	n/a	2	0.0
Typhoid Fever	3	0.1	2	0.0	0	n/a	5	0.0
Vibriosis	2	0.0	9	0.2	0	n/a	11	0.1
<i>Vibrio parahaemolyticus</i> Infection	1	0.0	6	0.1	0	n/a	7	0.1
<i>Vibrio vulnificus</i> Infection	0	0.0	1	0.0	0	n/a	1	0.0
Other (Not Cholera)	1	0.0	2	0.0	0	n/a	3	0.0
Yersiniosis	15	0.3	19	0.3	0	n/a	34	0.3
SUB-TOTAL	3,504	59.3	3,679	65.0	30	n/a	7,213	62.3

HEPATITIS

Hepatitis A	22	0.4	32	0.6	1	n/a	55	0.5
Hepatitis B, Acute*	86	1.5	146	2.6	0	n/a	232	2.0
Hepatitis B, Perinatal Infection*	3	*	2	*	0	n/a	5	*
Hepatitis C, Acute*	63	1.1	50	0.9	0	n/a	113	1.0
SUB-TOTAL	174	2.9	230	4.1	1	n/a	405	3.5

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	2,283	38.6	1,890	33.4	24	n/a	4,197	36.3
Influenza-Associated Pediatric Mortality*	2	*	4	*	0	n/a	6	*
Influenza A Virus, Novel Human Infection*	0	0.0	1	0.0	0	n/a	1	0.0
Mumps	7	0.1	5	0.1	0	n/a	12	0.1
Pertussis	877	14.8	788	13.9	2	n/a	1,667	14.4
Rubella	0	0.0	1	0.0	0	n/a	1	0.0
Not Congenital	0	0.0	1	0.0	0	n/a	1	0.0
Varicella	305	5.2	342	6.0	1	n/a	648	5.6
SUB-TOTAL	3,474	58.8	3,031	53.6	27	n/a	6,532	56.5

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY SEX, OHIO, 2013

ZONNOSES	Female		Male		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate
Brucellosis	1	0.0	1	0.0	0	n/a	2	0.0
Dengue	7	0.1	2	0.0	0	n/a	9	0.1
Ehrlichiosis/Anaplasmosis	5	0.1	10	0.2	0	n/a	15	0.1
<i>Anaplasma phagocytophilum</i> *	3	0.1	1	0.0	0	n/a	4	0.0
<i>Ehrlichia chaffeensis</i> *	2	0.0	7	0.1	0	n/a	9	0.1
Unknown	0	0.0	2	0.0	0	n/a	2	0.0
LaCrosse Virus Disease*	6	0.1	10	0.2	0	n/a	16	0.1
Lyme Disease	40	0.7	43	0.8	0	n/a	83	0.7
Malaria	9	0.2	24	0.4	0	n/a	33	0.3
Q Fever	2	0.0	3	0.1	0	n/a	5	0.0
Acute	0	0.0	2	0.0	0	n/a	2	0.0
Chronic	2	0.0	1	0.0	0	n/a	3	0.0
Rabies, Animal*	0	n/a	0	n/a	64	n/a	64	n/a
Rocky Mountain Spotted Fever (RMSF)	7	0.1	16	0.3	0	n/a	23	0.2
Trichinosis	0	0.0	1	0.0	0	n/a	1	0.0
Tularemia	0	0.0	2	0.0	0	n/a	2	0.0
West Nile Virus Infection	9	0.2	15	0.3	0	n/a	24	0.2
SUB-TOTAL	86	1.5	127	2.2	64	n/a	277	1.8
GRAND TOTAL	7,238	122.4	7,067	124.9	122	n/a	14,427	124.1
POPULATION	5,911,149		5,659,659		0		11,570,808	

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2013

GENERAL INFECTIOUS DISEASES	January		February		March		April		May		June		July	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Amebiasis	1	14%	0	0%	1	14%	1	14%	0	0%	1	14%	1	14%
Botulism	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	46	4%	59	6%	54	5%	68	7%	72	7%	115	11%	163	16%
Coccidioidomycosis	1	10%	2	20%	0	0%	2	20%	0	0%	1	10%	0	0%
Creutzfeldt-Jakob Disease (CJD)	0	0%	1	13%	1	13%	1	13%	0	0%	0	0%	0	0%
Cryptosporidiosis	27	7%	25	7%	31	8%	19	5%	14	4%	31	8%	49	13%
Cyclosporiasis	0	0%	1	14%	0	0%	0	0%	0	0%	1	14%	4	57%
Cytomegalovirus (CMV), Congenital*	0	0%	3	10%	7	24%	3	10%	4	14%	1	3%	3	10%
<i>Escherichia coli</i> , Shiga Toxin-Producing	9	4%	14	6%	15	7%	17	8%	11	5%	24	11%	39	17%
O157:H7	0	0%	0	0%	1	1%	4	5%	5	7%	10	13%	14	18%
Not O157:H7	9	7%	13	9%	14	10%	11	8%	6	4%	13	9%	22	16%
Unknown Serotype	0	0%	1	11%	0	0%	2	22%	0	0%	1	11%	3	33%
Giardiasis	39	8%	41	8%	42	8%	43	9%	35	7%	33	7%	59	12%
<i>Haemophilus influenzae</i> , Invasive Disease	16	10%	13	8%	10	7%	15	10%	18	12%	8	5%	8	5%
Hemolytic Uremic Syndrome (HUS)	0	0%	1	10%	1	10%	0	0%	0	0%	1	10%	2	20%
Legionellosis	20	4%	8	2%	11	2%	18	4%	26	5%	88	18%	173	35%
Leprosy (Hansen Disease)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Listeriosis	1	4%	0	0%	3	11%	0	0%	2	7%	3	11%	2	7%
Meningitis, Aseptic	38	4%	32	4%	36	4%	34	4%	43	5%	50	6%	111	13%
Meningitis, Other Bacterial*	9	11%	4	5%	6	7%	3	4%	14	17%	6	7%	7	8%
Meningococcal Disease	0	0%	1	10%	3	30%	0	0%	2	20%	0	0%	0	0%
Salmonellosis	47	4%	58	5%	72	6%	103	9%	119	10%	158	13%	150	13%
Shigellosis	105	16%	109	17%	67	10%	61	9%	18	3%	28	4%	46	7%
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0%	1	8%	1	8%	2	15%	2	15%	0	0%	2	15%
Streptococcal Disease, Group A, Invasive	30	10%	25	8%	44	14%	31	10%	30	10%	23	8%	20	7%
Streptococcal Disease, Group B, in Newborn*	4	6%	6	9%	5	8%	5	8%	6	9%	6	9%	5	8%
Streptococcal Toxic Shock Syndrome (STSS)	0	0%	1	11%	1	11%	0	0%	1	11%	0	0%	1	11%
<i>Streptococcus pneumoniae</i> , Invasive Disease	153	14%	126	11%	144	13%	125	11%	101	9%	46	4%	29	3%
Ages < 5 Years*	4	10%	3	7%	6	15%	3	7%	8	20%	1	2%	0	0%
Drug Resistant, Ages 5+ Years*	37	13%	22	8%	42	15%	39	14%	28	10%	9	3%	9	3%
Drug Susceptible, Ages 5+ Years*	112	14%	101	13%	96	12%	83	10%	65	8%	36	5%	20	3%
Toxic Shock Syndrome (TSS)	0	0%	0	0%	0	0%	0	0%	1	50%	1	50%	0	0%
Typhoid Fever	1	20%	0	0%	1	20%	1	20%	1	20%	0	0%	1	20%
Vibriosis	0	0%	1	9%	0	0%	2	18%	0	0%	4	36%	3	27%
<i>Vibrio parahaemolyticus</i> Infection	0	0%	0	0%	0	0%	1	14%	0	0%	2	29%	3	43%
<i>Vibrio vulnificus</i> Infection	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%
Other (Not Cholera)	0	0%	1	33%	0	0%	1	33%	0	0%	1	33%	0	0%
Yersiniosis	6	18%	4	12%	3	9%	3	9%	1	3%	4	12%	3	9%
SUB-TOTAL	553	8%	536	7%	559	8%	557	8%	521	7%	633	9%	881	12%

HEPATITIS

Hepatitis A	5	9%	4	7%	5	9%	5	9%	9	16%	3	5%	3	5%
Hepatitis B, Acute*	17	7%	9	4%	21	9%	20	9%	24	10%	17	7%	19	8%
Hepatitis B, Perinatal Infection*	0	0%	0	0%	0	0%	1	20%	1	20%	2	40%	0	0%
Hepatitis C, Acute*	2	2%	5	4%	4	4%	1	1%	2	2%	2	2%	1	1%
SUB-TOTAL	24	6%	18	4%	30	7%	27	7%	36	9%	24	6%	23	6%

N = number of cases reported.

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

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2013

OUTBREAKS*	January		February		March		April		May		June		July	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Community*	3	8%	6	15%	4	10%	3	8%	5	13%	2	5%	2	5%
Foodborne*	5	7%	10	13%	7	9%	2	3%	7	9%	3	4%	8	11%
Healthcare-Associated*	30	36%	17	20%	15	18%	7	8%	3	4%	2	2%	2	2%
Institutional*	14	9%	15	10%	15	10%	11	7%	5	3%	4	3%	8	5%
Waterborne*	0	0%	0	0%	2	14%	2	14%	0	0%	2	14%	5	36%
Zoonotic*	0	0%	1	25%	0	0%	1	25%	0	0%	1	25%	0	0%
SUB-TOTAL	52	14%	49	13%	43	12%	26	7%	20	5%	14	4%	25	7%

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	1,808	43%	676	16%	445	11%	183	4%	21	1%	4	0%	5	0%
Influenza-Associated Pediatric Mortality*	3	50%	1	17%	1	17%	0	0%	0	0%	0	0%	1	17%
Influenza A Virus, Novel Human Infection*	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Mumps	1	8%	1	8%	2	17%	1	8%	0	0%	2	17%	1	8%
Pertussis	86	5%	71	4%	57	3%	52	3%	77	5%	94	6%	124	7%
Rubella	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Not Congenital	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Varicella	73	11%	51	8%	65	10%	68	10%	44	7%	29	4%	20	3%
SUB-TOTAL	1,971	30%	800	12%	570	9%	304	5%	142	2%	129	2%	153	2%

ZOO NOSES

Brucellosis	0	0%	0	0%	0	0%	0	0%	1	50%	0	0%	1	50%
Dengue	1	11%	2	22%	0	0%	0	0%	0	0%	1	11%	2	22%
Ehrlichiosis/Anaplasmosis	0	0%	0	0%	0	0%	2	13%	1	7%	2	13%	6	40%
<i>Anaplasma phagocytophilum</i> *	0	0%	0	0%	0	0%	2	50%	0	0%	0	0%	2	50%
<i>Ehrlichia chaffeensis</i> *	0	0%	0	0%	0	0%	0	0%	1	11%	2	22%	3	33%
Unknown	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	50%
LaCrosse Virus Disease*	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	13%
Lyme Disease	4	5%	3	4%	1	1%	2	2%	8	10%	16	19%	24	29%
Malaria	1	3%	3	9%	2	6%	1	3%	3	9%	0	0%	6	18%
Q Fever	0	0%	1	20%	1	20%	0	0%	1	20%	0	0%	0	0%
Acute	0	0%	1	50%	0	0%	0	0%	1	50%	0	0%	0	0%
Chronic	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%
Rabies, Animal*	0	0%	1	2%	1	2%	3	5%	13	20%	10	16%	9	14%
Rocky Mountain Spotted Fever (RMSF)	0	0%	0	0%	0	0%	2	9%	8	35%	1	4%	7	30%
Trichinosis	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Tularemia	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
West Nile Virus Infection	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	8%
SUB-TOTAL	6	2%	10	4%	5	2%	10	4%	35	13%	30	11%	59	21%

N = number of cases reported.

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

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2013

GENERAL INFECTIOUS DISEASES	August		September		October		November		December		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
Amebiasis	0	0%	0	0%	0	0%	0	0%	2	29%	7	100%
Botulism	2	40%	1	20%	1	20%	1	20%	0	0%	5	100%
Infant*	2	40%	1	20%	1	20%	1	20%	0	0%	5	100%
Campylobacteriosis	112	11%	100	10%	76	7%	100	10%	58	6%	1,023	100%
Coccidioidomycosis	0	0%	1	10%	1	10%	1	10%	1	10%	10	100%
Creutzfeldt-Jakob Disease (CJD)	0	0%	1	13%	2	25%	1	13%	1	13%	8	100%
Cryptosporidiosis	48	13%	44	12%	48	13%	20	5%	11	3%	367	100%
Cyclosporiasis	0	0%	1	14%	0	0%	0	0%	0	0%	7	100%
Cytomegalovirus (CMV), Congenital*	1	3%	0	0%	2	7%	1	3%	4	14%	29	100%
<i>Escherichia coli</i> , Shiga Toxin-Producing	42	19%	21	9%	13	6%	14	6%	4	2%	223	100%
O157:H7	18	24%	7	9%	5	7%	11	14%	1	1%	76	100%
Not O157:H7	24	17%	12	9%	8	6%	3	2%	3	2%	138	100%
Unknown Serotype	0	0%	2	22%	0	0%	0	0%	0	0%	9	100%
Giardiasis	62	12%	39	8%	46	9%	34	7%	32	6%	505	100%
<i>Haemophilus influenzae</i> , Invasive Disease	11	7%	9	6%	14	9%	10	7%	21	14%	153	100%
Hemolytic Uremic Syndrome (HUS)	2	20%	2	20%	0	0%	1	10%	0	0%	10	100%
Legionellosis	58	12%	30	6%	28	6%	13	3%	23	5%	496	100%
Leprosy (Hansen Disease)	0	0%	0	0%	0	0%	1	100%	0	0%	1	100%
Listeriosis	2	7%	6	21%	4	14%	1	4%	4	14%	28	100%
Meningitis, Aseptic	142	17%	143	17%	127	15%	56	7%	45	5%	857	100%
Meningitis, Other Bacterial*	7	8%	8	10%	10	12%	2	2%	7	8%	83	100%
Meningococcal Disease	3	30%	0	0%	0	0%	0	0%	1	10%	10	100%
Salmonellosis	122	10%	127	11%	102	9%	62	5%	70	6%	1,190	100%
Shigellosis	31	5%	25	4%	42	7%	39	6%	74	11%	645	100%
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0%	3	23%	1	8%	0	0%	1	8%	13	100%
Streptococcal Disease, Group A, Invasive	22	7%	12	4%	27	9%	16	5%	25	8%	305	100%
Streptococcal Disease, Group B, in Newborn*	7	11%	6	9%	6	9%	3	5%	6	9%	65	100%
Streptococcal Toxic Shock Syndrome (STSS)	2	22%	1	11%	0	0%	0	0%	2	22%	9	100%
<i>Streptococcus pneumoniae</i> , Invasive Disease	39	4%	63	6%	71	6%	101	9%	114	10%	1,112	100%
Ages < 5 Years*	3	7%	0	0%	6	15%	4	10%	3	7%	41	100%
Drug Resistant, Ages 5+ Years*	5	2%	22	8%	14	5%	18	6%	32	12%	277	100%
Drug Susceptible, Ages 5+ Years*	31	4%	41	5%	51	6%	79	10%	79	10%	794	100%
Toxic Shock Syndrome (TSS)	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%
Typhoid Fever	0	0%	0	0%	0	0%	0	0%	0	0%	5	100%
Vibriosis	1	9%	0	0%	0	0%	0	0%	0	0%	11	100%
<i>Vibrio parahaemolyticus</i> Infection	1	14%	0	0%	0	0%	0	0%	0	0%	7	100%
<i>Vibrio vulnificus</i> Infection	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Other (Not Cholera)	0	0%	0	0%	0	0%	0	0%	0	0%	3	100%
Yersiniosis	3	9%	1	3%	2	6%	1	3%	3	9%	34	100%
SUB-TOTAL	719	10%	644	9%	623	9%	478	7%	509	7%	7,213	100%

HEPATITIS

Hepatitis A	5	9%	5	9%	3	5%	3	5%	5	9%	55	100%
Hepatitis B, Acute*	24	10%	19	8%	21	9%	18	8%	23	10%	232	100%
Hepatitis B, Perinatal Infection*	0	0%	1	20%	0	0%	0	0%	0	0%	5	100%
Hepatitis C, Acute*	4	4%	34	30%	8	7%	20	18%	30	27%	113	100%
SUB-TOTAL	33	8%	59	15%	32	8%	41	10%	58	14%	405	100%

N = number of cases reported.

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

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY MONTH OF ONSET, OHIO, 2013

OUTBREAKS*	August		September		October		November		December		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%
Community*	4	10%	1	3%	4	10%	3	8%	3	8%	40	100%
Foodborne*	10	13%	8	11%	3	4%	4	5%	9	12%	76	100%
Healthcare-Associated*	1	1%	0	0%	1	1%	4	5%	2	2%	84	100%
Institutional*	3	2%	9	6%	22	14%	27	18%	20	13%	153	100%
Waterborne*	1	7%	2	14%	0	0%	0	0%	0	0%	14	100%
Zoonotic*	0	0%	0	0%	1	25%	0	0%	0	0%	4	100%
SUB-TOTAL	19	5%	20	5%	31	8%	38	10%	34	9%	371	100%

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	3	0%	11	0%	36	1%	95	2%	910	22%	4,197	100%
Influenza-Associated Pediatric Mortality*	0	0%	0	0%	0	0%	0	0%	0	0%	6	100%
Influenza A Virus, Novel Human Infection*	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Mumps	3	25%	0	0%	0	0%	0	0%	1	8%	12	100%
Pertussis	118	7%	148	9%	290	17%	321	19%	229	14%	1,667	100%
Rubella	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Not Congenital	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
Varicella	41	6%	71	11%	62	10%	75	12%	49	8%	648	100%
SUB-TOTAL	165	3%	230	4%	388	6%	491	8%	1,189	18%	6,532	100%

ZOO NOSES

Brucellosis	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%
Dengue	0	0%	0	0%	3	33%	0	0%	0	0%	9	100%
Ehrlichiosis/Anaplasmosis	1	7%	2	13%	1	7%	0	0%	0	0%	15	100%
<i>Anaplasma phagocytophilum</i> *	0	0%	0	0%	0	0%	0	0%	0	0%	4	100%
<i>Ehrlichia chaffeensis</i> *	1	11%	1	11%	1	11%	0	0%	0	0%	9	100%
Unknown	0	0%	1	50%	0	0%	0	0%	0	0%	2	100%
LaCrosse Virus Disease*	8	50%	6	38%	0	0%	0	0%	0	0%	16	100%
Lyme Disease	13	16%	5	6%	6	7%	1	1%	0	0%	83	100%
Malaria	4	12%	1	3%	5	15%	3	9%	4	12%	33	100%
Q Fever	0	0%	1	20%	0	0%	0	0%	1	20%	5	100%
Acute	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%
Chronic	0	0%	1	33%	0	0%	0	0%	1	33%	3	100%
Rabies, Animal*	14	22%	3	5%	4	6%	6	9%	0	0%	64	100%
Rocky Mountain Spotted Fever (RMSF)	1	4%	1	4%	1	4%	1	4%	1	4%	23	100%
Trichinosis	1	100%	0	0%	0	0%	0	0%	0	0%	1	100%
Tularemia	1	50%	1	50%	0	0%	0	0%	0	0%	2	100%
West Nile Virus Infection	9	38%	11	46%	2	8%	0	0%	0	0%	24	100%
SUB-TOTAL	52	19%	31	11%	22	8%	11	4%	6	2%	277	100%

GRAND TOTAL	988	7%	984	7%	1,096	7%	1,059	7%	1,796	12%	14,798	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. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	1	1.9	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	1	*	0	*	0	*	0	*	0	*
Campylobacteriosis	9	32.0	14	13.3	16	30.2	19	19.0	1	1.5	11	24.0	4	5.7
Coccidioidomycosis	0	0.0	2	1.9	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	0	0.0	2	1.9	4	7.5	1	1.0	0	0.0	9	19.6	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	*	1	*	1	*	0	*	1	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	7.1	5	4.7	0	0.0	2	2.0	0	0.0	1	2.2	0	0.0
O157:H7	2	7.1	2	1.9	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0
Not O157:H7	0	0.0	2	1.9	0	0.0	1	1.0	0	0.0	1	2.2	0	0.0
Unknown Serotype	0	0.0	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	1	3.6	8	7.6	1	1.9	4	4.0	0	0.0	1	2.2	2	2.9
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	1	0.9	0	0.0	0	0.0	1	1.5	1	2.2	4	5.7
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
Legionellosis	0	0.0	4	3.8	0	0.0	2	2.0	0	0.0	2	4.4	2	2.9
Leprosy (Hansen 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	3	10.7	28	26.6	0	0.0	3	3.0	1	1.5	6	13.1	13	18.7
Meningitis, Other Bacterial*	0	0.0	2	1.9	2	3.8	1	1.0	0	0.0	0	0.0	2	2.9
Meningococcal Disease	1	3.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	2	7.1	11	10.4	2	3.8	13	13.0	8	12.4	3	6.5	5	7.2
Shigellosis	0	0.0	2	1.9	0	0.0	0	0.0	0	0.0	0	0.0	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	1	0.9	0	0.0	4	4.0	1	1.5	2	4.4	4	5.7
Streptococcal Disease, Group B, in Newborn*	0	*	1	*	1	*	1	*	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	2	7.1	13	12.3	8	15.1	13	13.0	0	0.0	4	8.7	12	17.2
Ages < 5 Years*	0	*	0	*	0	*	1	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	1	*	4	*	1	*	5	*	0	*	2	*	4	*
Drug Susceptible, Ages 5+ Years*	1	*	9	*	7	*	7	*	0	*	2	*	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
<i>Vibrio vulnificus</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	0	0.0	0	0.0
SUB-TOTAL	20	71.2	94	89.3	36	67.9	64	64.1	12	18.6	41	89.3	48	69.0

HEPATITIS

Hepatitis A	0	0.0	0	0.0	1	1.9	0	0.0	0	0.0	1	2.2	0	0.0
Hepatitis B, Acute*	0	0.0	0	0.0	0	0.0	1	1.0	5	7.7	0	0.0	0	0.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	0	0.0	0	0.0	0	0.0	2	2.0	1	1.5	1	2.2	0	0.0
SUB-TOTAL	0	0.0	0	0.0	1	1.9	3	3.0	6	9.3	2	4.4	0	0.0

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Adams		Allen		Ashland		Ashtabula		Athens		Auglaize		Belmont	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	1	n/a	1	n/a	0	n/a	1	n/a	0	n/a
Foodborne*	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a
Healthcare-Associated*	1	n/a	3	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Institutional*	0	n/a	3	n/a	3	n/a	1	n/a	1	n/a	0	n/a	0	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	1	n/a	6	n/a	5	n/a	2	n/a	2	n/a	2	n/a	1	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	7	24.9	28	26.6	12	22.6	37	37.1	6	9.3	30	65.3	15	21.6
Influenza-Associated Pediatric Mortality*	0	*	0	*	1	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	1	3.6	2	1.9	26	49.0	7	7.0	6	9.3	4	8.7	0	0.0
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	0	0.0	6	5.7	3	5.7	4	4.0	8	12.4	18	39.2	5	7.2
SUB-TOTAL	8	28.5	36	34.2	42	79.2	48	48.1	20	30.9	52	113.2	20	28.7

ZOOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	0	0.0	0	0.0
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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	1	1.9	0	0.0	1	1.5	0	0.0	0	0.0
Lyme Disease	0	0.0	1	0.9	0	0.0	1	1.0	1	1.5	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	0	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	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	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	1	0.9	1	1.9	1	1.0	4	4.6	0	0.0	0	0.0

GRAND TOTAL	29	99.6	137	124.4	85	150.8	118	116.2	44	63.4	97	206.9	69	97.7
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POPULATION	28,105	105,298	53,043	99,811	64,681	45,920	69,571
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	1	0.3	0	0.0	0	0.0	0	0.0	1	0.5	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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	2	4.5	18	4.8	6	21.2	4	10.1	19	14.0	21	10.5	1	2.4
Coccidioidomycosis	0	0.0	0	0.0	0	0.0	0	0.0	1	0.7	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	0	0.0	6	1.6	1	3.5	5	12.7	4	2.9	2	1.0	3	7.2
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	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	6	1.6	0	0.0	4	10.1	4	2.9	1	0.5	0	0.0
O157:H7	0	0.0	2	0.5	0	0.0	3	7.6	3	2.2	1	0.5	0	0.0
Not O157:H7	0	0.0	4	1.1	0	0.0	1	2.5	1	0.7	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	2	4.5	19	5.1	4	14.1	1	2.5	12	8.8	7	3.5	1	2.4
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	4	1.1	0	0.0	1	2.5	3	2.2	6	3.0	2	4.8
Hemolytic Uremic Syndrome (HUS)	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	6	1.6	1	3.5	1	2.5	5	3.7	2	1.0	2	4.8
Leprosy (Hansen 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	0.3	1	3.5	0	0.0	1	0.7	0	0.0	0	0.0
Meningitis, Aseptic	0	0.0	24	6.5	3	10.6	4	10.1	6	4.4	13	6.5	2	4.8
Meningitis, Other Bacterial*	0	0.0	4	1.1	0	0.0	0	0.0	2	1.5	2	1.0	0	0.0
Meningococcal Disease	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	2	4.5	28	7.5	6	21.2	6	15.2	13	9.5	19	9.5	4	9.5
Shigellosis	0	0.0	2	0.5	0	0.0	0	0.0	22	16.2	3	1.5	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	0	0.0	0	0.0	2	1.5	0	0.0	1	2.4
Streptococcal Disease, Group A, Invasive	0	0.0	9	2.4	1	3.5	1	2.5	6	4.4	3	1.5	3	7.2
Streptococcal Disease, Group B, in Newborn*	0	*	2	*	0	*	0	*	1	*	0	*	1	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	2	4.5	39	10.5	2	7.1	8	20.3	15	11.0	41	20.5	5	11.9
Ages < 5 Years*	0	*	0	*	0	*	0	*	0	*	1	*	0	*
Drug Resistant, Ages 5+ Years*	0	*	9	*	0	*	2	*	4	*	12	*	2	*
Drug Susceptible, Ages 5+ Years*	2	*	30	*	2	*	6	*	11	*	28	*	3	*
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
<i>Vibrio vulnificus</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	0.7	0	0.0	0	0.0
SUB-TOTAL	8	18.1	171	46.1	25	88.4	36	91.2	117	85.9	121	60.4	25	59.6

HEPATITIS

Hepatitis A	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B, Acute*	1	2.3	12	3.2	0	0.0	2	5.1	0	0.0	7	3.5	2	4.8
Hepatitis B, Perinatal Infection*	0	*	1	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	0	0.0	4	1.1	0	0.0	2	5.1	0	0.0	3	1.5	2	4.8
SUB-TOTAL	1	2.3	18	4.8	0	0.0	4	10.1	0	0.0	10	5.0	4	9.5

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Brown		Butler		Carroll		Champaign		Clark		Clermont		Clinton	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	1	n/a	0	n/a	3	n/a	0	n/a	0	n/a
Foodborne*	0	n/a	0	n/a	0	n/a	1	n/a	1	n/a	1	n/a	0	n/a
Healthcare-Associated*	0	n/a	6	n/a	0	n/a	0	n/a	2	n/a	0	n/a	0	n/a
Institutional*	0	n/a	4	n/a	1	n/a	0	n/a	4	n/a	11	n/a	1	n/a
Waterborne*	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	0	n/a	11	n/a	2	n/a	1	n/a	10	n/a	12	n/a	1	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	1	2.3	93	25.0	20	70.7	9	22.8	37	27.2	48	24.0	4	9.5
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	0	0.0	33	8.9	0	0.0	17	43.1	104	76.4	105	52.4	20	47.7
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	0	0.0	12	3.2	1	3.5	0	0.0	5	3.7	4	2.0	0	0.0
SUB-TOTAL	1	2.3	139	37.4	21	74.3	26	65.9	146	107.2	157	78.4	24	57.2

ZOOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Dengue	0	0.0	1	0.3	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	2.5	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	2.5	0	0.0	0	0.0	0	0.0
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	1	0.3	0	0.0	0	0.0	1	0.7	4	2.0	0	0.0
Malaria	0	0.0	1	0.3	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	1	n/a	0	n/a	1	n/a	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	5	2.5	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	1	2.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	3	2.3	6	1.3	0	0.0	2	2.5	4	0.7	10	4.5	0	0.0

GRAND TOTAL	13	24.9	345	89.7	48	162.7	69	169.8	277	193.9	310	148.3	54	126.4
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POPULATION	44,264	371,272	28,275	39,455	136,167	200,218	41,945
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	5	4.7	10	27.2	1	2.3	64	5.1	5	9.5	2	5.2	14	7.6
Coccidioidomycosis	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	1	0.9	2	5.4	5	11.7	24	1.9	14	26.7	0	0.0	8	4.3
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	*	5	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	2	5.4	0	0.0	23	1.8	6	11.5	1	2.6	7	3.8
O157:H7	0	0.0	0	0.0	0	0.0	10	0.8	1	1.9	1	2.6	0	0.0
Not O157:H7	0	0.0	1	2.7	0	0.0	13	1.0	5	9.5	0	0.0	6	3.2
Unknown Serotype	0	0.0	1	2.7	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5
Giardiasis	6	5.7	1	2.7	2	4.7	51	4.0	1	1.9	2	5.2	8	4.3
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	0	0.0	0	0.0	17	1.3	1	1.9	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
Legionellosis	2	1.9	0	0.0	3	7.0	70	5.5	0	0.0	0	0.0	6	3.2
Leprosy (Hansen 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	2.7	0	0.0	5	0.4	0	0.0	0	0.0	1	0.5
Meningitis, Aseptic	5	4.7	4	10.9	2	4.7	64	5.1	2	3.8	2	5.2	11	5.9
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	0	0.0	1	0.5
Meningococcal Disease	0	0.0	0	0.0	0	0.0	0	0.0	1	1.9	0	0.0	0	0.0
Salmonellosis	12	11.3	1	2.7	2	4.7	109	8.6	9	17.2	5	13.0	13	7.0
Shigellosis	0	0.0	0	0.0	0	0.0	44	3.5	0	0.0	1	2.6	25	13.5
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	1	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	2	1.9	0	0.0	0	0.0	24	1.9	1	1.9	2	5.2	1	0.5
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	13	*	0	*	1	*	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	15	14.2	3	8.2	1	2.3	101	8.0	4	7.6	4	10.4	11	5.9
Ages < 5 Years*	1	*	1	*	0	*	5	*	0	*	0	*	1	*
Drug Resistant, Ages 5+ Years*	3	*	0	*	1	*	25	*	1	*	0	*	1	*
Drug Susceptible, Ages 5+ Years*	11	*	2	*	0	*	71	*	3	*	4	*	9	*
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	0.2	0	0.0	0	0.0	0	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	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	1	0.1	0	0.0	0	0.0	0	0.0
<i>Vibrio vulnificus</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	4	0.3	0	0.0	0	0.0	0	0.0
SUB-TOTAL	48	45.3	25	68.0	16	37.4	629	49.8	44	84.0	20	51.9	106	57.3

HEPATITIS

Hepatitis A	0	0.0	0	0.0	0	0.0	6	0.5	0	0.0	0	0.0	1	0.5
Hepatitis B, Acute*	0	0.0	0	0.0	0	0.0	10	0.8	2	3.8	0	0.0	1	0.5
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	1	0.9	2	5.4	2	4.7	0	0.0	0	0.0	2	5.2	0	0.0
SUB-TOTAL	1	0.9	2	5.4	2	4.7	16	1.3	2	3.8	2	5.2	2	1.1

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Columbiana		Coshocton		Crawford		Cuyahoga		Darke		Defiance		Delaware	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Foodborne*	0	n/a	0	n/a	1	n/a	5	n/a	1	n/a	0	n/a	5	n/a
Healthcare-Associated*	0	n/a	0	n/a	2	n/a	14	n/a	0	n/a	1	n/a	1	n/a
Institutional*	0	n/a	0	n/a	1	n/a	16	n/a	1	n/a	0	n/a	2	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	0	n/a	0	n/a	4	n/a	37	n/a	2	n/a	1	n/a	8	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	25	23.6	3	8.2	10	23.4	998	79.0	16	30.5	3	7.8	25	13.5
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	2.7	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Pertussis	3	2.8	1	2.7	3	7.0	24	1.9	2	3.8	0	0.0	96	51.9
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	0	0.0	6	16.3	3	7.0	49	3.9	8	15.3	1	2.6	18	9.7
SUB-TOTAL	28	26.4	11	29.9	16	37.4	1,073	84.9	26	49.6	4	10.4	139	75.1

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Dengue	0	0.0	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	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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	2	1.1
Lyme Disease	1	0.9	0	0.0	0	0.0	6	0.5	0	0.0	0	0.0	3	1.6
Malaria	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	0	0.0	2	1.1
Q Fever	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Acute	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Chronic	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	2	n/a	0	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	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0
SUB-TOTAL	1	0.9	0	0.0	1	0.0	19	1.3	0	0.0	0	0.0	7	3.8

GRAND TOTAL	78	73.7	38	103.4	39	79.4	1,774	137.4	74	137.5	27	67.5	262	137.3
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POPULATION	105,893	36,760	42,808	1,263,154	52,376	38,532	184,979
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	0	0.0	0	0.0	3	0.2	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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	4	5.3	16	10.7	0	0.0	125	10.3	1	2.4	0	0.0	8	8.5
Coccidioidomycosis	0	0.0	1	0.7	1	3.5	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	0	0.0	3	2.0	1	3.5	23	1.9	3	7.1	0	0.0	2	2.1
Cyclosporiasis	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	5	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	1	1.3	6	4.0	2	6.9	44	3.6	3	7.1	2	6.5	0	0.0
O157:H7	1	1.3	2	1.3	2	6.9	6	0.5	1	2.4	1	3.3	0	0.0
Not O157:H7	0	0.0	4	2.7	0	0.0	36	3.0	2	4.7	1	3.3	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
Giardiasis	3	3.9	5	3.4	0	0.0	58	4.8	0	0.0	0	0.0	7	7.4
<i>Haemophilus influenzae</i> , Invasive Disease	3	3.9	1	0.7	0	0.0	9	0.7	0	0.0	0	0.0	0	0.0
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	40	26.9	2	6.9	114	9.4	1	2.4	1	3.3	1	1.1
Leprosy (Hansen Disease)	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Listeriosis	0	0.0	1	0.7	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	1	1.3	9	6.0	1	3.5	154	12.7	2	4.7	0	0.0	0	0.0
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	5	0.4	2	4.7	0	0.0	0	0.0
Meningococcal Disease	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	1	1.1
Salmonellosis	6	7.9	12	8.1	6	20.8	141	11.6	13	30.6	0	0.0	6	6.4
Shigellosis	0	0.0	7	4.7	0	0.0	254	21.0	0	0.0	0	0.0	3	3.2
<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	2	2.6	8	5.4	1	3.5	51	4.2	2	4.7	0	0.0	1	1.1
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	5	*	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	11	14.5	4	2.7	2	6.9	123	10.1	3	7.1	1	3.3	3	3.2
Ages < 5 Years*	0	*	1	*	2	*	2	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	2	*	1	*	0	*	25	*	0	*	0	*	0	*
Drug Susceptible, Ages 5+ Years*	9	*	2	*	0	*	96	*	3	*	1	*	3	*
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	1	0.1	0	0.0	0	0.0	1	1.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.1
<i>Vibrio vulnificus</i> Infection	0	0.0	0	0.0	0	0.0	1	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	0	0.0
Yersiniosis	1	1.3	1	0.7	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0
SUB-TOTAL	32	42.1	114	76.6	16	55.6	1,130	93.2	31	73.0	4	13.1	33	35.1

HEPATITIS

Hepatitis A	0	0.0	0	0.0	0	0.0	7	0.6	0	0.0	0	0.0	0	0.0
Hepatitis B, Acute*	0	0.0	1	0.7	1	3.5	54	4.5	0	0.0	6	19.6	0	0.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	1	1.3	1	0.7	2	6.9	4	0.3	0	0.0	1	3.3	0	0.0
SUB-TOTAL	1	1.3	2	1.3	3	10.4	65	5.4	0	0.0	7	22.9	0	0.0

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Erie		Fairfield		Fayette		Franklin		Fulton		Gallia		Geauga	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	0	n/a	11	n/a	0	n/a	0	n/a	0	n/a
Foodborne*	1	n/a	0	n/a	0	n/a	12	n/a	1	n/a	0	n/a	1	n/a
Healthcare-Associated*	0	n/a	0	n/a	0	n/a	10	n/a	0	n/a	0	n/a	1	n/a
Institutional*	1	n/a	2	n/a	0	n/a	45	n/a	0	n/a	0	n/a	0	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	7	n/a	0	n/a	0	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	2	n/a	2	n/a	0	n/a	86	n/a	1	n/a	0	n/a	2	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	6	7.9	30	20.2	3	10.4	305	25.2	10	23.5	17	55.5	48	51.1
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	2	0.2	0	0.0	0	0.0	0	0.0
Pertussis	1	1.3	40	26.9	6	20.8	317	26.1	0	0.0	0	0.0	0	0.0
Rubella	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0
Varicella	1	1.3	21	14.1	0	0.0	70	5.8	4	9.4	2	6.5	4	4.3
SUB-TOTAL	8	10.5	91	61.1	9	31.3	695	57.3	14	33.0	19	62.0	52	55.3

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Dengue	0	0.0	1	0.7	0	0.0	2	0.2	1	2.4	0	0.0	0	0.0
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	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	1	3.3	0	0.0
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	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	3	2.0	0	0.0	16	1.3	1	2.4	0	0.0	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	11	0.9	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	0	n/a	5	n/a	0	n/a	0	n/a	1	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	1	0.7	0	0.0	4	0.3	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0
SUB-TOTAL	0	0.0	5	3.4	0	0.0	40	2.9	2	4.7	1	3.3	1	0.0

GRAND TOTAL	43	53.9	214	142.4	28	97.2	2,016	158.8	48	110.6	31	101.2	88	90.5
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POPULATION	76,048	148,867	28,800	1,212,263	42,488	30,621	93,972
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	0	*	0	*	1	*	0	*	0	*	0	*	0	*
Campylobacteriosis	4	2.5	6	15.1	73	9.1	2	2.6	0	0.0	0	0.0	2	7.1
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	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	3	1.8	4	10.1	16	2.0	4	5.3	0	0.0	0	0.0	3	10.7
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	*	1	*	3	*	0	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	1.2	0	0.0	5	0.6	4	5.3	0	0.0	0	0.0	3	10.7
O157:H7	1	0.6	0	0.0	2	0.2	0	0.0	0	0.0	0	0.0	1	3.6
Not O157:H7	1	0.6	0	0.0	3	0.4	4	5.3	0	0.0	0	0.0	2	7.1
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	1	0.6	2	5.0	38	4.7	4	5.3	1	3.2	0	0.0	0	0.0
<i>Haemophilus influenzae</i> , Invasive Disease	1	0.6	0	0.0	14	1.7	0	0.0	0	0.0	1	6.4	1	3.6
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
Legionellosis	7	4.3	0	0.0	20	2.5	2	2.6	0	0.0	0	0.0	0	0.0
Leprosy (Hansen 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	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	6	3.7	5	12.6	79	9.8	5	6.6	4	12.6	0	0.0	2	7.1
Meningitis, Other Bacterial*	0	0.0	0	0.0	4	0.5	1	1.3	0	0.0	0	0.0	1	3.6
Meningococcal Disease	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	15	9.2	3	7.6	68	8.5	10	13.2	3	9.5	2	12.8	7	24.9
Shigellosis	4	2.5	0	0.0	51	6.3	1	1.3	0	0.0	0	0.0	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	3	0.4	0	0.0	0	0.0	1	6.4	0	0.0
Streptococcal Disease, Group A, Invasive	1	0.6	1	2.5	33	4.1	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	10	*	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	11	6.7	5	12.6	107	13.3	0	0.0	2	6.3	1	6.4	1	3.6
Ages < 5 Years*	1	*	0	*	2	*	0	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	2	*	3	*	32	*	0	*	0	*	0	*	0	*
Drug Susceptible, Ages 5+ Years*	8	*	2	*	73	*	0	*	2	*	1	*	1	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	1	0.1	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
<i>Vibrio vulnificus</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	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	1	6.4	0	0.0
SUB-TOTAL	56	34.3	27	68.1	531	66.0	33	43.6	10	31.6	6	38.4	20	71.2

HEPATITIS

Hepatitis A	1	0.6	0	0.0	6	0.7	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B, Acute*	1	0.6	0	0.0	24	3.0	1	1.3	0	0.0	0	0.0	0	0.0
Hepatitis B, Perinatal Infection*	1	*	0	*	1	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	1	0.6	0	0.0	8	1.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	4	2.5	0	0.0	39	4.8	1	1.3	0	0.0	0	0.0	0	0.0

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Greene		Guernsey		Hamilton		Hancock		Hardin		Harrison		Henry	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	1	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Foodborne*	0	n/a	0	n/a	2	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Healthcare-Associated*	2	n/a	0	n/a	6	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Institutional*	0	n/a	1	n/a	20	n/a	0	n/a	0	n/a	0	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
Zoonotic*	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	2	n/a	1	n/a	30	n/a	3	n/a	0	n/a	0	n/a	1	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	44	27.0	9	22.7	288	35.8	4	5.3	7	22.1	2	12.8	11	39.2
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	57	34.9	1	2.5	120	14.9	5	6.6	0	0.0	1	6.4	1	3.6
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	12	7.4	0	0.0	17	2.1	5	6.6	0	0.0	0	0.0	4	14.2
SUB-TOTAL	113	69.2	10	25.2	426	53.0	14	18.5	7	22.1	3	19.2	16	57.0

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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	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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	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	2.5	6	0.7	1	1.3	0	0.0	1	6.4	0	0.0
Malaria	2	1.2	0	0.0	7	0.9	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	6	n/a	0	n/a	0	n/a	1	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	1	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0
SUB-TOTAL	3	1.2	2	5.0	21	1.9	2	2.6	0	0.0	2	6.4	0	0.0

GRAND TOTAL	178	107.2	40	98.4	1,047	125.7	53	66.0	17	53.7	11	64.0	37	128.2
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POPULATION	163,204	39,636	804,520	75,773	31,641	15,622	28,092
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	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	1	1.5	0	0.0
Infant*	0	*	0	*	0	*	0	*	0	*	1	*	0	*
Campylobacteriosis	2	4.6	2	7.0	9	20.6	1	1.7	1	3.1	5	7.4	8	13.2
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	2	4.6	0	0.0	1	2.3	1	1.7	0	0.0	2	2.9	12	19.7
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	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	0	0.0	0	0.0	1	1.7	1	3.1	1	1.5	0	0.0
O157:H7	0	0.0	0	0.0	0	0.0	1	1.7	1	3.1	0	0.0	0	0.0
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.5	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	4	9.2	1	3.5	4	9.2	1	1.7	2	6.1	2	2.9	4	6.6
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	0	0.0	0	0.0	2	3.4	0	0.0	1	1.5	2	3.3
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	1	2.3	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	3	6.9	0	0.0	2	4.6	3	5.1	0	0.0	1	1.5	3	4.9
Leprosy (Hansen 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	0	0.0	4	14.0	7	16.1	0	0.0	0	0.0	6	8.8	3	4.9
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6
Meningococcal Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	3	6.9	0	0.0	1	2.3	5	8.5	2	6.1	10	14.7	8	13.2
Shigellosis	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	1	1.5	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	0	0.0	1	2.3	2	3.4	1	3.1	0	0.0	1	1.6
Streptococcal Disease, Group B, in Newborn*	1	*	0	*	0	*	0	*	1	*	1	*	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	4	9.2	2	7.0	1	2.3	6	10.2	0	0.0	14	20.6	4	6.6
Ages < 5 Years*	0	*	0	*	1	*	0	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	1	*	0	*	0	*	2	*	0	*	5	*	1	*
Drug Susceptible, Ages 5+ Years*	3	*	2	*	0	*	4	*	0	*	9	*	3	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	1	2.3	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
<i>Vibrio vulnificus</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	1	1.7	0	0.0	0	0.0	0	0.0
SUB-TOTAL	19	43.9	9	31.4	28	64.2	24	40.8	8	24.4	45	66.2	46	75.6

HEPATITIS

Hepatitis A	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	0	0.0	0	0.0
Hepatitis B, Acute*	1	2.3	0	0.0	0	0.0	1	1.7	3	9.2	0	0.0	0	0.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	0	0.0	2	7.0	0	0.0	1	1.7	4	12.2	0	0.0	1	1.6
SUB-TOTAL	1	2.3	2	7.0	0	0.0	3	5.1	7	21.4	0	0.0	1	1.6

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Highland		Hocking		Holmes		Huron		Jackson		Jefferson		Knox	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Foodborne*	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Healthcare-Associated*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Institutional*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Waterborne*	0	n/a	0	n/a	1	n/a	2	n/a	0	n/a	0	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	0	n/a	1	n/a	1	n/a	2	n/a	0	n/a	0	n/a	0	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	22	50.8	3	10.5	8	18.4	17	28.9	15	45.8	25	36.8	9	14.8
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	1	2.3	6	20.9	5	11.5	1	1.7	3	9.2	2	2.9	2	3.3
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	8	18.5	1	3.5	5	11.5	14	23.8	0	0.0	4	5.9	2	3.3
SUB-TOTAL	31	71.6	10	34.9	18	41.3	32	54.3	18	54.9	31	45.6	13	21.4

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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	1.6
<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	1.6
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	1	2.3	0	0.0	0	0.0	0	0.0	1	1.6
Lyme Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	4.4	0	0.0
Malaria	0	0.0	0	0.0	1	2.3	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	0	n/a	0	n/a	0	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	2	6.1	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	2	4.6	0	0.0	0	0.0	0	0.0	1	1.6
SUB-TOTAL	0	0.0	0	0.0	4	9.2	0	0.0	2	6.1	3	4.4	3	4.9

GRAND TOTAL	51	117.8	22	73.3	51	114.7	61	100.2	35	106.8	79	116.2	63	103.6
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POPULATION	43,299	28,665	43,593	58,889	32,783	67,964	60,810
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	0	0.0	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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	23	10.0	7	11.3	17	10.1	1	2.2	20	6.6	49	11.2	4	9.2
Coccidioidomycosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	1	0.6	0	0.0	1	0.3	0	0.0	0	0.0
Cryptosporidiosis	2	0.9	4	6.5	2	1.2	3	6.6	7	2.3	12	2.7	0	0.0
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.7	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	1	*	0	*	1	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	0.9	1	1.6	8	4.8	2	4.4	7	2.3	4	0.9	0	0.0
O157:H7	1	0.4	0	0.0	0	0.0	0	0.0	2	0.7	1	0.2	0	0.0
Not O157:H7	1	0.4	1	1.6	8	4.8	2	4.4	3	1.0	3	0.7	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	2	0.7	0	0.0	0	0.0
Giardiasis	11	4.8	0	0.0	5	3.0	2	4.4	3	1.0	13	3.0	1	2.3
<i>Haemophilus influenzae</i> , Invasive Disease	2	0.9	0	0.0	4	2.4	1	2.2	2	0.7	9	2.1	1	2.3
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
Legionellosis	10	4.4	0	0.0	8	4.8	0	0.0	8	2.6	19	4.4	2	4.6
Leprosy (Hansen 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	0.2	0	0.0
Meningitis, Aseptic	9	3.9	1	1.6	24	14.3	1	2.2	2	0.7	42	9.6	2	4.6
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	1	2.2	0	0.0	6	1.4	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
Salmonellosis	40	17.4	4	6.5	16	9.5	3	6.6	37	12.2	52	11.9	7	16.2
Shigellosis	4	1.7	0	0.0	7	4.2	0	0.0	2	0.7	7	1.6	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	5	2.2	1	1.6	4	2.4	1	2.2	3	1.0	13	3.0	2	4.6
Streptococcal Disease, Group B, in Newborn*	1	*	0	*	0	*	0	*	1	*	4	*	1	*
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	13	5.7	11	17.8	10	5.9	5	11.0	15	5.0	41	9.4	5	11.6
Ages < 5 Years*	1	*	0	*	1	*	0	*	0	*	2	*	0	*
Drug Resistant, Ages 5+ Years*	3	*	4	*	1	*	2	*	5	*	10	*	2	*
Drug Susceptible, Ages 5+ Years*	9	*	7	*	8	*	3	*	10	*	29	*	3	*
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	0.3	2	0.5	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5	0	0.0
<i>Vibrio vulnificus</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	0.3	0	0.0	0	0.0
Yersiniosis	1	0.4	0	0.0	1	0.6	0	0.0	0	0.0	1	0.2	0	0.0
SUB-TOTAL	123	53.5	29	46.8	108	64.1	20	44.0	110	36.3	280	64.2	25	57.8

HEPATITIS

Hepatitis A	8	3.5	0	0.0	1	0.6	0	0.0	1	0.3	1	0.2	0	0.0
Hepatitis B, Acute*	0	0.0	7	11.3	1	0.6	1	2.2	0	0.0	0	0.0	1	2.3
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	2	0.9	2	3.2	2	1.2	0	0.0	2	0.7	0	0.0	2	4.6
SUB-TOTAL	10	4.4	9	14.5	4	2.4	1	2.2	3	1.0	1	0.2	3	6.9

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Lake		Lawrence		Licking		Logan		Lorain		Lucas		Madison	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	3	n/a	2	n/a
Foodborne*	2	n/a	1	n/a	1	n/a	0	n/a	1	n/a	6	n/a	1	n/a
Healthcare-Associated*	1	n/a	0	n/a	2	n/a	0	n/a	0	n/a	4	n/a	1	n/a
Institutional*	0	n/a	0	n/a	4	n/a	0	n/a	0	n/a	4	n/a	2	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	4	n/a	1	n/a	7	n/a	0	n/a	1	n/a	17	n/a	6	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	74	32.2	2	3.2	29	17.2	7	15.4	61	20.1	153	35.1	9	20.8
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	0	0.0	0	0.0	0	0.0	1	2.2	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	7	3.0	1	1.6	83	49.3	13	28.6	4	1.3	36	8.2	52	120.2
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	8	3.5	1	1.6	19	11.3	1	2.2	8	2.6	13	3.0	12	27.7
SUB-TOTAL	90	39.2	4	6.5	131	77.8	22	48.4	73	24.1	202	46.3	73	168.7

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	1	0.4	0	0.0	3	1.8	0	0.0	0	0.0	2	0.5	0	0.0
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	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	1	1.6	0	0.0	0	0.0	0	0.0	1	0.2	2	4.6
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	1	0.4	0	0.0	0	0.0	0	0.0	1	0.3	5	1.1	0	0.0
SUB-TOTAL	5	0.9	1	1.6	5	2.4	0	0.0	2	0.3	9	2.1	2	4.6

GRAND TOTAL	232	97.9	44	69.4	255	146.7	43	94.5	189	61.8	509	112.7	109	238.0
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POPULATION	229,857	61,917	168,375	45,481	302,827	436,393	43,277
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	9	3.8	2	3.0	29	16.6	0	0.0	5	12.3	8	7.7	3	20.6
Coccidioidomycosis	0	0.0	0	0.0	0	0.0	1	4.3	0	0.0	0	0.0	0	0.0
Creutzfeldt-Jakob Disease (CJD)	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	4	1.7	6	9.1	5	2.9	0	0.0	22	53.9	1	1.0	1	6.9
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*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	1	0.4	1	1.5	3	1.7	0	0.0	7	17.2	1	1.0	0	0.0
O157:H7	0	0.0	0	0.0	1	0.6	0	0.0	5	12.3	0	0.0	0	0.0
Not O157:H7	1	0.4	1	1.5	1	0.6	0	0.0	2	4.9	1	1.0	0	0.0
Unknown Serotype	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	2	0.9	0	0.0	9	5.1	1	4.3	2	4.9	8	7.7	0	0.0
<i>Haemophilus influenzae</i> , Invasive Disease	3	1.3	0	0.0	0	0.0	0	0.0	0	0.0	3	2.9	1	6.9
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
Legionellosis	14	6.0	4	6.1	3	1.7	2	8.5	1	2.5	1	1.0	0	0.0
Leprosy (Hansen 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	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Meningitis, Aseptic	11	4.7	6	9.1	14	8.0	1	4.3	8	19.6	14	13.5	0	0.0
Meningitis, Other Bacterial*	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	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
Salmonellosis	13	5.6	7	10.6	21	12.0	3	12.8	16	39.2	18	17.4	0	0.0
Shigellosis	8	3.4	1	1.5	2	1.1	0	0.0	1	2.5	2	1.9	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	6	2.6	1	1.5	3	1.7	0	0.0	0	0.0	2	1.9	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	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	26	11.1	9	13.7	6	3.4	1	4.3	7	17.2	8	7.7	3	20.6
Ages < 5 Years*	1	*	0	*	1	*	0	*	1	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	15	*	1	*	0	*	0	*	1	*	3	*	0	*
Drug Susceptible, Ages 5+ Years*	10	*	8	*	5	*	1	*	5	*	5	*	3	*
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	1	0.6	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
<i>Vibrio vulnificus</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	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Yersiniosis	1	0.4	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	1	6.9
SUB-TOTAL	101	43.2	37	56.1	100	57.2	9	38.3	69	169.2	67	64.8	9	61.7

HEPATITIS

Hepatitis A	2	0.9	1	1.5	1	0.6	0	0.0	0	0.0	2	1.9	0	0.0
Hepatitis B, Acute*	8	3.4	0	0.0	0	0.0	2	8.5	0	0.0	2	1.9	0	0.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	1	0.4	1	1.5	0	0.0	2	8.5	0	0.0	2	1.9	1	6.9
SUB-TOTAL	11	4.7	2	3.0	1	0.6	4	17.0	0	0.0	6	5.8	1	6.9

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Mahoning		Marion		Medina		Meigs		Mercer		Miami		Monroe	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	1	n/a	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a
Foodborne*	1	n/a	0	n/a	2	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Healthcare-Associated*	0	n/a	1	n/a	0	n/a	0	n/a	1	n/a	3	n/a	0	n/a
Institutional*	0	n/a	2	n/a	2	n/a	0	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
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	2	n/a	3	n/a	4	n/a	0	n/a	2	n/a	4	n/a	0	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	78	33.4	15	22.8	53	30.3	6	25.5	21	51.5	28	27.1	0	0.0
Influenza-Associated Pediatric Mortality*	1	*	0	*	1	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	2	1.1	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	7	3.0	1	1.5	6	3.4	4	17.0	0	0.0	15	14.5	0	0.0
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	4	1.7	5	7.6	14	8.0	0	0.0	11	27.0	6	5.8	0	0.0
SUB-TOTAL	90	38.5	21	31.9	76	43.4	10	42.6	32	78.5	49	47.4	0	0.0

ZOOLOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	1	1.5	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0
Lyme Disease	1	0.4	0	0.0	1	0.6	1	4.3	1	2.5	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	5	n/a	0	n/a	7	n/a	0	n/a	0	n/a	0	n/a	0	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
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	7	0.9	1	1.5	8	0.6	1	4.3	1	2.5	1	1.0	0	0.0

GRAND TOTAL	211	87.2	64	92.6	189	101.8	24	102.1	104	250.1	127	118.9	10	68.6
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POPULATION	233,869	65,905	174,915	23,496	40,784	103,439	14,585
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	30	5.6	0	0.0	4	11.4	18	21.1	3	20.5	2	4.9	2	10.4
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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Cryptosporidiosis	4	0.7	0	0.0	3	8.6	9	10.6	1	6.8	1	2.4	1	5.2
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*	5	*	0	*	0	*	0	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	6	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
O157:H7	4	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not O157:H7	2	0.4	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	19	3.5	0	0.0	2	5.7	7	8.2	1	6.8	2	4.9	2	10.4
<i>Haemophilus influenzae</i> , Invasive Disease	10	1.9	0	0.0	0	0.0	2	2.3	0	0.0	0	0.0	1	5.2
Hemolytic Uremic Syndrome (HUS)	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	31	5.8	1	6.7	1	2.9	5	5.9	0	0.0	1	2.4	0	0.0
Leprosy (Hansen Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Listeriosis	1	0.2	0	0.0	1	2.9	1	1.2	1	6.8	0	0.0	0	0.0
Meningitis, Aseptic	42	7.8	3	20.1	1	2.9	4	4.7	3	20.5	2	4.9	0	0.0
Meningitis, Other Bacterial*	11	2.1	0	0.0	0	0.0	1	1.2	0	0.0	1	2.4	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
Salmonellosis	35	6.5	3	20.1	4	11.4	12	14.1	0	0.0	6	14.6	4	20.8
Shigellosis	32	6.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Streptococcal Disease, Group A, Invasive	12	2.2	0	0.0	0	0.0	1	1.2	0	0.0	0	0.0	1	5.2
Streptococcal Disease, Group B, in Newborn*	2	*	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	1	2.4	0	0.0
<i>Streptococcus pneumoniae</i> , Invasive Disease	57	10.6	5	33.5	6	17.1	36	42.2	0	0.0	3	7.3	1	5.2
Ages < 5 Years*	1	*	0	*	0	*	2	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	7	*	3	*	1	*	3	*	0	*	2	*	0	*
Drug Susceptible, Ages 5+ Years*	49	*	2	*	5	*	31	*	0	*	1	*	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	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
<i>Vibrio vulnificus</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	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	300	56.0	12	80.5	22	62.8	96	112.6	9	61.5	19	46.2	12	62.3

HEPATITIS

Hepatitis A	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B, Acute*	26	4.9	0	0.0	0	0.0	3	3.5	0	0.0	0	0.0	0	0.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	1	0.2	0	0.0	0	0.0	4	4.7	0	0.0	0	0.0	0	0.0
SUB-TOTAL	28	5.2	0	0.0	0	0.0	7	8.2	0	0.0	0	0.0	0	0.0

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Montgomery		Morgan		Morrow		Muskingum		Noble		Ottawa		Paulding	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Foodborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a
Healthcare-Associated*	3	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Institutional*	1	n/a	0	n/a	0	n/a	0	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	1	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	4	n/a	0	n/a	0	n/a	0	n/a	0	n/a	3	n/a	0	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	186	34.7	5	33.5	6	17.1	49	57.5	3	20.5	10	24.3	7	36.4
Influenza-Associated Pediatric Mortality*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	1	2.9	0	0.0	0	0.0	0	0.0	0	0.0
Pertussis	193	36.0	1	6.7	1	2.9	11	12.9	0	0.0	1	2.4	1	5.2
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	23	4.3	2	13.4	3	8.6	7	8.2	1	6.8	0	0.0	4	20.8
SUB-TOTAL	404	75.4	8	53.7	11	31.4	67	78.6	4	27.3	11	26.7	12	62.3

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	4	0.7	0	0.0	0	0.0	2	2.3	0	0.0	0	0.0	0	0.0
Malaria	3	0.6	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
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	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	0	n/a	0	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	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	10	1.3	0	0.0	0	0.0	3	2.3	0	0.0	0	0.0	0	0.0

GRAND TOTAL	746	137.9	20	134.2	33	94.2	173	201.8	13	88.9	33	72.9	24	124.6
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POPULATION	535,846		14,904		35,033		85,231		14,628		41,153		19,254	
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

GENERAL INFECTIOUS DISEASES	Perry		Pickaway		Pike		Portage		Preble		Putnam		Richland	
	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	1	2.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Infant*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	8	22.2	8	14.2	2	7.1	13	7.9	2	4.8	3	8.8	5	4.1
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	2	5.6	0	0.0	0	0.0	14	8.5	0	0.0	0	0.0	4	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	*	1	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	0	0.0	1	1.8	1	3.5	4	2.4	0	0.0	0	0.0	3	2.5
O157:H7	0	0.0	1	1.8	0	0.0	2	1.2	0	0.0	0	0.0	1	0.8
Not O157:H7	0	0.0	0	0.0	1	3.5	2	1.2	0	0.0	0	0.0	2	1.6
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	5	13.9	1	1.8	2	7.1	4	2.4	0	0.0	1	2.9	4	3.3
<i>Haemophilus influenzae</i> , Invasive Disease	0	0.0	0	0.0	1	3.5	2	1.2	0	0.0	0	0.0	1	0.8
Hemolytic Uremic Syndrome (HUS)	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	1	1.8	0	0.0	3	1.8	1	2.4	0	0.0	1	0.8
Leprosy (Hansen 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	1	2.8	3	5.3	2	7.1	5	3.1	2	4.8	4	11.7	10	8.2
Meningitis, Other Bacterial*	0	0.0	0	0.0	0	0.0	2	1.2	3	7.2	1	2.9	3	2.5
Meningococcal Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	10	27.8	7	12.4	3	10.6	11	6.7	6	14.4	3	8.8	6	4.9
Shigellosis	1	2.8	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	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	8.9	1	3.5	2	1.2	1	2.4	0	0.0	5	4.1
Streptococcal Disease, Group B, in Newborn*	0	*	0	*	0	*	3	*	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	2	5.6	4	7.1	4	14.1	11	6.7	4	9.6	2	5.9	19	15.6
Ages < 5 Years*	0	*	1	*	0	*	0	*	0	*	0	*	2	*
Drug Resistant, Ages 5+ Years*	0	*	2	*	2	*	2	*	1	*	1	*	5	*
Drug Susceptible, Ages 5+ Years*	2	*	1	*	2	*	9	*	3	*	1	*	12	*
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
<i>Vibrio vulnificus</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	0	0.0	0	0.0
SUB-TOTAL	30	83.3	30	53.3	16	56.4	77	47.0	19	45.5	14	41.1	62	50.9

HEPATITIS

Hepatitis A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8
Hepatitis B, Acute*	1	2.8	2	3.6	0	0.0	1	0.6	3	7.2	0	0.0	7	5.7
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	0	0.0	1	1.8	0	0.0	0	0.0	0	0.0	0	0.0	10	8.2
SUB-TOTAL	1	2.8	3	5.3	0	0.0	1	0.6	3	7.2	0	0.0	18	14.8

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Perry		Pickaway		Pike		Portage		Preble		Putnam		Richland	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	1	n/a	0	n/a	0	n/a	1	n/a	0	n/a	1	n/a
Foodborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	1	n/a	1	n/a
Healthcare-Associated*	0	n/a	0	n/a	0	n/a	2	n/a	0	n/a	2	n/a	1	n/a
Institutional*	0	n/a	2	n/a	0	n/a	3	n/a	0	n/a	0	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
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	0	n/a	3	n/a	0	n/a	5	n/a	1	n/a	3	n/a	4	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	11	30.6	13	23.1	2	7.1	64	39.1	7	16.8	11	32.3	47	38.6
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	6	16.7	25	44.4	1	3.5	9	5.5	7	16.8	2	5.9	58	47.6
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	4	11.1	8	14.2	1	3.5	3	1.8	6	14.4	0	0.0	4	3.3
SUB-TOTAL	21	58.3	46	81.7	4	14.1	76	46.4	20	47.9	13	38.1	109	89.5

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
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	1	3.5	1	0.6	0	0.0	0	0.0	1	0.8
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	1	3.5	1	0.6	0	0.0	0	0.0	1	0.8
<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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	1	3.5	0	0.0	0	0.0	0	0.0	0	0.0
Lyme Disease	0	0.0	0	0.0	0	0.0	1	0.6	1	2.4	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	1	0.8
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8
Rabies, Animal*	0	n/a	1	n/a	0	n/a	3	n/a	0	n/a	0	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	2	7.1	0	0.0	0	0.0	1	2.9	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	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	1	0.0	4	14.1	5	1.2	1	2.4	1	2.9	2	1.6

GRAND TOTAL	52	144.5	83	140.3	24	84.6	164	95.2	44	103.0	31	82.1	195	156.8
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POPULATION	35,997	56,304	28,367	163,862	41,732	34,088	121,773
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

GENERAL INFECTIOUS DISEASES	Ross		Sandusky		Scioto		Seneca		Shelby		Stark		Summit	
	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	1	0.2
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	1	*
Campylobacteriosis	7	9.0	6	10.0	6	7.7	4	7.2	6	12.2	68	18.1	50	9.2
Coccidioidomycosis	1	1.3	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	3	3.9	7	11.6	2	2.6	1	1.8	1	2.0	24	6.4	18	3.3
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
Cytomegalovirus (CMV), Congenital*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	2.6	1	1.7	0	0.0	3	5.4	2	4.1	1	0.3	4	0.7
O157:H7	2	2.6	1	1.7	0	0.0	3	5.4	1	2.0	0	0.0	3	0.6
Not O157:H7	0	0.0	0	0.0	0	0.0	0	0.0	1	2.0	1	0.3	0	0.0
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Giardiasis	5	6.4	2	3.3	0	0.0	3	5.4	8	16.3	30	8.0	46	8.5
<i>Haemophilus influenzae</i> , Invasive Disease	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0	7	1.9	10	1.8
Hemolytic Uremic Syndrome (HUS)	1	1.3	0	0.0	1	1.3	1	1.8	0	0.0	0	0.0	0	0.0
Legionellosis	0	0.0	2	3.3	1	1.3	0	0.0	1	2.0	20	5.3	26	4.8
Leprosy (Hansen 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	2	0.5	1	0.2
Meningitis, Aseptic	5	6.4	4	6.7	13	16.6	1	1.8	4	8.1	24	6.4	46	8.5
Meningitis, Other Bacterial*	0	0.0	1	1.7	2	2.6	1	1.8	0	0.0	5	1.3	5	0.9
Meningococcal Disease	0	0.0	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	2	2.6	9	15.0	6	7.7	11	19.7	4	8.1	48	12.8	55	10.2
Shigellosis	2	2.6	1	1.7	2	2.6	0	0.0	0	0.0	93	24.8	45	8.3
<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	1	0.2
Streptococcal Disease, Group A, Invasive	7	9.0	1	1.7	5	6.4	0	0.0	1	2.0	12	3.2	22	4.1
Streptococcal Disease, Group B, in Newborn*	1	*	0	*	0	*	0	*	1	*	2	*	5	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.6
<i>Streptococcus pneumoniae</i> , Invasive Disease	8	10.3	1	1.7	2	2.6	3	5.4	5	10.2	51	13.6	39	7.2
Ages < 5 Years*	1	*	0	*	1	*	0	*	0	*	3	*	3	*
Drug Resistant, Ages 5+ Years*	2	*	0	*	0	*	0	*	2	*	22	*	6	*
Drug Susceptible, Ages 5+ Years*	5	*	1	*	1	*	3	*	3	*	26	*	30	*
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	1	1.3	0	0.0	0	0.0	2	0.5	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	1	1.3	0	0.0	0	0.0	1	0.3	0	0.0
<i>Vibrio vulnificus</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	1	0.3	0	0.0
Yersiniosis	0	0.0	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	5	0.9
SUB-TOTAL	46	59.0	35	58.2	43	55.0	28	50.1	33	67.1	390	103.9	382	70.5

HEPATITIS

Hepatitis A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	3	0.6
Hepatitis B, Acute*	0	0.0	0	0.0	9	11.5	0	0.0	0	0.0	2	0.5	5	0.9
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Hepatitis C, Acute*	4	5.1	1	1.7	6	7.7	0	0.0	0	0.0	5	1.3	3	0.6
SUB-TOTAL	4	5.1	1	1.7	15	19.2	0	0.0	0	0.0	8	2.1	11	2.0

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Ross		Sandusky		Scioto		Seneca		Shelby		Stark		Summit	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	2	n/a	4	n/a
Foodborne*	0	n/a	2	n/a	0	n/a	1	n/a	1	n/a	2	n/a	7	n/a
Healthcare-Associated*	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a	3	n/a	6	n/a
Institutional*	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	2	n/a	3	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	1	n/a	3	n/a	0	n/a	1	n/a	1	n/a	9	n/a	20	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	12	15.4	31	51.6	13	16.6	4	7.2	9	18.3	304	81.0	307	56.7
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	1	*	0	*
Influenza A Virus, Novel Human Infection*	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	3	3.9	0	0.0	2	2.6	0	0.0	1	2.0	8	2.1	16	3.0
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	10	12.8	5	8.3	6	7.7	12	21.5	7	14.2	16	4.3	18	3.3
SUB-TOTAL	25	32.1	36	59.9	21	26.9	16	28.6	17	34.6	329	87.6	341	62.9

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
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	7	9.0	0	0.0	0	0.0	1	0.3	0	0.0
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	5	6.4	0	0.0	0	0.0	0	0.0	0	0.0
Unknown	0	0.0	0	0.0	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Lyme Disease	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	4	1.1	0	0.0
Malaria	0	0.0	1	1.7	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Rabies, Animal*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	3	n/a	0	n/a
Rocky Mountain Spotted Fever (RMSF)	0	0.0	0	0.0	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	2	2.6	1	1.7	9	11.5	0	0.0	0	0.0	9	1.6	4	0.7

GRAND TOTAL	78	98.8	76	121.5	88	112.6	45	78.7	51	101.6	745	195.2	758	136.2
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POPULATION	77,910	60,098	78,153	55,914	49,192	375,432	541,824
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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
Infant*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Campylobacteriosis	11	5.3	13	14.0	1	1.9	2	7.0	1	7.5	15	6.8	1	1.6
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	1	0.5	0	0.0
Cryptosporidiosis	17	8.2	4	4.3	6	11.3	0	0.0	0	0.0	0	0.0	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*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	2	1.0	0	0.0	2	3.8	1	3.5	0	0.0	2	0.9	2	3.3
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	2	1.0	0	0.0	2	3.8	1	3.5	0	0.0	2	0.9	2	3.3
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Giardiasis	6	2.9	3	3.2	4	7.5	3	10.5	1	7.5	10	4.6	0	0.0
<i>Haemophilus influenzae</i> , Invasive Disease	4	1.9	2	2.2	0	0.0	0	0.0	0	0.0	2	0.9	0	0.0
Hemolytic Uremic Syndrome (HUS)	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Legionellosis	8	3.9	3	3.2	1	1.9	0	0.0	2	15.1	3	1.4	0	0.0
Leprosy (Hansen 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	1.1	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0
Meningitis, Aseptic	6	2.9	4	4.3	7	13.1	2	7.0	0	0.0	14	6.4	4	6.5
Meningitis, Other Bacterial*	1	0.5	1	1.1	0	0.0	0	0.0	0	0.0	1	0.5	1	1.6
Meningococcal Disease	1	0.5	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Salmonellosis	12	5.8	16	17.3	9	16.9	3	10.5	0	0.0	21	9.6	9	14.7
Shigellosis	4	1.9	2	2.2	1	1.9	0	0.0	0	0.0	3	1.4	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	1	1.1	3	5.6	0	0.0	0	0.0	6	2.7	0	0.0
Streptococcal Disease, Group B, in Newborn*	2	*	1	*	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	19	9.2	11	11.9	2	3.8	2	7.0	1	7.5	16	7.3	4	6.5
Ages < 5 Years*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
Drug Resistant, Ages 5+ Years*	6	*	2	*	0	*	0	*	0	*	5	*	0	*
Drug Susceptible, Ages 5+ Years*	12	*	9	*	2	*	2	*	1	*	11	*	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	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<i>Vibrio vulnificus</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	1	0.5	3	3.2	2	3.8	0	0.0	0	0.0	1	0.5	0	0.0
SUB-TOTAL	96	46.5	67	72.3	38	71.3	13	45.7	5	37.7	96	43.8	22	35.9

HEPATITIS

Hepatitis A	3	1.5	0	0.0	3	5.6	0	0.0	0	0.0	0	0.0	0	0.0
Hepatitis B, Acute*	5	2.4	2	2.2	1	1.9	0	0.0	1	7.5	5	2.3	0	0.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	*	2	*	0	*
Hepatitis C, Acute*	2	1.0	0	0.0	1	1.9	0	0.0	1	7.5	2	0.9	1	1.6
SUB-TOTAL	10	4.8	2	2.2	5	9.4	0	0.0	2	15.1	9	4.1	1	1.6

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Trumbull		Tuscarawas		Union		Van Wert		Vinton		Warren		Washington	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	1	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Foodborne*	1	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
Healthcare-Associated*	0	n/a	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	0	n/a
Institutional*	0	n/a	0	n/a	5	n/a	0	n/a	0	n/a	0	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
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
SUB-TOTAL	1	n/a	0	n/a	6	n/a	2	n/a	0	n/a	0	n/a	0	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	67	32.5	41	44.2	11	20.6	2	7.0	5	37.7	47	21.4	24	39.1
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
Influenza A Virus, Novel Human Infection*	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	1.0	1	1.1	6	11.3	0	0.0	8	60.3	39	17.8	0	0.0
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Varicella	20	9.7	12	12.9	0	0.0	3	10.5	1	7.5	18	8.2	0	0.0
SUB-TOTAL	89	43.1	54	58.3	17	31.9	5	17.6	14	105.5	104	47.5	24	39.1

ZOONOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Dengue	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	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
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LaCrosse Virus Disease*	0	0.0	1	1.1	0	0.0	0	0.0	1	7.5	0	0.0	0	0.0
Lyme Disease	2	1.0	3	3.2	0	0.0	0	0.0	0	0.0	3	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	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic	0	0.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rabies, Animal*	8	n/a	1	n/a	1	n/a	0	n/a	0	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	0	0.0	0	0.0	0	0.0
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tularemia	0	0.0	0	0.0	1	1.9	0	0.0	0	0.0	0	0.0	0	0.0
West Nile Virus Infection	1	0.5	0	0.0	1	1.9	0	0.0	0	0.0	0	0.0	0	0.0
SUB-TOTAL	11	1.5	6	5.4	3	3.8	0	0.0	1	7.5	4	1.8	0	0.0

GRAND TOTAL	207	95.9	129	138.1	69	116.3	20	63.2	22	165.7	213	97.2	47	76.7
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POPULATION	206,442	92,672	53,306	28,459	13,276	219,169	61,310
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

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	7	0.1
Botulism	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Infant*	0	*	0	*	0	*	0	*	0	n/a	5	*
Campylobacteriosis	18	15.6	1	2.7	17	13.2	4	17.8	0	n/a	1,023	8.8
Coccidioidomycosis	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	10	0.1
Creutzfeldt-Jakob Disease (CJD)	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	8	0.1
Cryptosporidiosis	1	0.9	1	2.7	1	0.8	1	4.5	0	n/a	367	3.2
Cyclosporiasis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	7	0.1
Cytomegalovirus (CMV), Congenital*	1	*	0	*	0	*	0	*	0	n/a	29	*
<i>Escherichia coli</i> , Shiga Toxin-Producing	3	2.6	0	0.0	6	4.6	1	4.5	0	n/a	223	1.9
O157:H7	2	1.7	0	0.0	1	0.8	0	0.0	0	n/a	76	0.7
Not O157:H7	1	0.9	0	0.0	5	3.9	1	4.5	0	n/a	138	1.2
Unknown Serotype	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	9	0.1
Giardiasis	3	2.6	0	0.0	1	0.8	2	8.9	0	n/a	505	4.4
<i>Haemophilus influenzae</i> , Invasive Disease	3	2.6	2	5.3	2	1.5	0	0.0	0	n/a	153	1.3
Hemolytic Uremic Syndrome (HUS)	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	10	0.1
Legionellosis	2	1.7	1	2.7	1	0.8	0	0.0	0	n/a	496	4.3
Leprosy (Hansen Disease)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Listeriosis	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	28	0.2
Meningitis, Aseptic	9	7.8	0	0.0	12	9.3	1	4.5	0	n/a	857	7.4
Meningitis, Other Bacterial*	0	0.0	0	0.0	1	0.8	0	0.0	0	n/a	83	0.7
Meningococcal Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	10	0.1
Salmonellosis	15	13.0	3	8.0	24	18.6	2	8.9	0	n/a	1,190	10.3
Shigellosis	1	0.9	2	5.3	0	0.0	0	0.0	0	n/a	645	5.6
<i>Staphylococcus aureus</i> , Intermediate Resistance to Vancomycin (VISA)	0	0.0	0	0.0	2	1.5	0	0.0	0	n/a	13	0.1
Streptococcal Disease, Group A, Invasive	4	3.5	1	2.7	3	2.3	0	0.0	0	n/a	305	2.6
Streptococcal Disease, Group B, in Newborn*	1	*	0	*	0	*	0	*	0	n/a	65	*
Streptococcal Toxic Shock Syndrome (STSS)	0	0.0	0	0.0	1	0.8	0	0.0	0	n/a	9	0.1
<i>Streptococcus pneumoniae</i> , Invasive Disease	15	13.0	1	2.7	4	3.1	6	26.7	0	n/a	1,112	9.6
Ages < 5 Years*	0	*	0	*	0	*	0	*	0	n/a	41	*
Drug Resistant, Ages 5+ Years*	3	*	0	*	1	*	1	*	0	n/a	277	*
Drug Susceptible, Ages 5+ Years*	12	*	1	*	3	*	5	*	0	n/a	794	*
Toxic Shock Syndrome (TSS)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Typhoid Fever	2	1.7	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Vibriosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	11	0.1
<i>Vibrio parahaemolyticus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	7	0.1
<i>Vibrio vulnificus</i> Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Other (Not Cholera)	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	3	0.0
Yersiniosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	34	0.3
SUB-TOTAL	82	71.3	12	32.0	75	58.0	17	75.7	0	n/a	7,213	62.3

HEPATITIS

Hepatitis A	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	55	0.5
Hepatitis B, Acute*	0	0.0	0	0.0	1	0.8	0	0.0	0	n/a	232	2.0
Hepatitis B, Perinatal Infection*	0	*	0	*	0	*	0	*	0	n/a	5	*
Hepatitis C, Acute*	2	1.7	0	0.0	4	3.1	0	0.0	0	n/a	113	1.0
SUB-TOTAL	3	2.6	0	0.0	5	3.9	0	0.0	0	n/a	405	3.5

N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

REPORTED CASES OF SELECTED NOTIFIABLE DISEASES BY COUNTY OF RESIDENCE, OHIO, 2013

OUTBREAKS*	Wayne		Williams		Wood		Wyandot		Unknown		TOTAL	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
Community*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	40	n/a
Foodborne*	1	n/a	1	n/a	0	n/a	0	n/a	0	n/a	70	n/a
Healthcare-Associated*	0	n/a	0	n/a	1	n/a	0	n/a	0	n/a	84	n/a
Institutional*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	153	n/a
Waterborne*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	14	n/a
Zoonotic*	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a	2	n/a
SUB-TOTAL	1	n/a	1	n/a	1	n/a	0	n/a	0	n/a	363	n/a

VACCINE-PREVENTABLE

Influenza-Associated Hospitalization*	22	19.1	3	8.0	23	17.8	5	22.3	0	n/a	4,197	36.3
Influenza-Associated Pediatric Mortality*	0	*	0	*	0	*	1	*	0	n/a	6	*
Influenza A Virus, Novel Human Infection*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Mumps	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	12	0.1
Pertussis	13	11.3	0	0.0	0	0.0	0	0.0	0	n/a	1,667	14.4
Rubella	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Not Congenital	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Varicella	18	15.6	0	0.0	5	3.9	4	17.8	0	n/a	648	5.6
SUB-TOTAL	53	46.1	3	8.0	28	21.7	10	44.5	0	n/a	6,532	56.5

ZOO NOSES

Brucellosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Dengue	0	0.0	0	0.0	0	0.0	1	4.5	0	n/a	9	0.1
Ehrlichiosis/Anaplasmosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	15	0.1
<i>Anaplasma phagocytophilum</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	4	0.0
<i>Ehrlichia chaffeensis</i> *	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	9	0.1
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
LaCrosse Virus Disease*	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	16	0.1
Lyme Disease	1	0.9	0	0.0	0	0.0	0	0.0	0	n/a	83	0.7
Malaria	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	33	0.3
Q Fever	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	5	0.0
Acute	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
Chronic	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	3	0.0
Rabies, Animal*	0	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	0	0.0	0	0.0	0	n/a	23	0.2
Trichinosis	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	1	0.0
Tularemia	0	0.0	0	0.0	0	0.0	0	0.0	0	n/a	2	0.0
West Nile Virus Infection	2	1.7	0	0.0	1	0.8	1	4.5	0	n/a	24	0.2
SUB-TOTAL	3	2.6	0	0.0	1	0.8	2	8.9	0	n/a	277	1.8

GRAND TOTAL	142	122.5	16	40.0	110	84.3	29	129.2	0	n/a	14,790	124.1
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POPULATION	115,071	37,500	129,264	22,447	0	11,570,808
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N = number of cases reported.

Rates use 2013 U.S. Census estimates and are per 100,000 population.

n/a = not applicable.

* Please see Technical Notes (pp. 100-103).

**ESCHERICHIA COLI, SHIGA TOXIN-PRODUCING
SEROGROUPS BY YEAR OF ONSET, OHIO, 2009-2013**

SEROGROUP	2009	2010	2011*	2012*	2013*
O1	0	0	1	0	0
O5	1	0	0	1	4
O8	1	0	1	0	0
O22	0	1	0	0	0
O26*	6	5	14	26	27
O28	0	0	0	0	1
O36	0	0	0	0	1
O43	0	0	1	0	0
O45*	4	9	9	14	15
O55	0	0	0	1	0
O69	0	0	0	1	2
O71	0	0	0	2	4
O76	0	0	0	2	2
O78	0	0	0	1	0
O80	0	0	1	0	0
O84	0	0	0	1	0
O88	0	1	0	0	0
O91	0	0	1	1	0
O103*	7	14	14	18	25
O105	0	0	1	0	0
O111*	2	2	12	10	21
O118	0	0	2	1	1
O121*	2	1	5	1	10
O123	0	0	0	1	0
O124	0	0	0	1	0
O128	0	0	0	0	1
O130	1	0	0	0	0
O145*	1	8	0	4	2
O146	0	0	1	1	0
O152	0	0	0	1	0
O157	84	72	92	117	75
O158	0	0	1	0	0
O159	0	0	0	0	1
O163	0	0	0	1	0
O165	0	0	0	1	2
O168	0	0	1	0	0
O178	0	0	0	0	1
O186	0	0	1	2	0
O Rough	0	0	2	4	2
O Undetermined	1	2	3	2	3
Unknown	18	23	19	25	23
TOTAL	128	138	182	240	223

* ODH Lab began testing the top 6 non-O157 STEC isolates in 2011; prior to 2011, all non-O157 isolates were sent to CDC for typing.

**MENINGOCOCCAL DISEASE SEROGROUPS BY
YEAR OF ONSET, OHIO, 2009-2013**

SEROGROUP	2009	2010	2011	2012	2013
Group A	0	0	0	0	0
Group B	13	12	7	4	3
Group C	4	7	8	6	0
Group W	1	0	0	0	2
Group Y	10	6	5	8	4
Not Groupable	0	0	2	1	0
Unknown	14	10	2	5	1
TOTAL	42	35	24	24	10

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2009-2013**

SEROTYPE	2009	2010	2011	2012	2013
Abaetetuba	1	0	0	0	0
Abony	0	1	0	1	0
Adelaide	1	2	2	1	0
Agama	1	0	0	0	0
Agbeni	3	6	9	8	9
Ago	1	0	1	0	0
Agona	8	7	13	11	8
Agoueve	0	0	1	0	2
Ajiobo	1	0	0	0	0
Alachua	0	1	0	0	1
Albany	1	3	0	1	0
Altona	0	1	12	1	2
Anatum	6	4	6	6	6
Anatum, var 15 +	2	0	1	0	0
Baildon	0	8	1	3	0
Bardo	0	0	1	0	0
Bareilly	3	9	3	4	3
Barranquilla	0	0	1	0	0
Benin	1	0	0	0	0
Bere	0	0	0	0	1
Berta	15	11	16	9	10
Blijdorp	0	0	0	0	1
Blockley	2	2	0	0	0
Bodjonegoro	0	0	0	0	1
Bovis-morbificans	7	7	3	13	2
Braenderup	11	16	17	22	20
Brandenburg	0	0	3	1	0
Bredeney	0	0	0	1	2
Carrau	0	1	0	0	0
Cerro	0	1	1	0	0
Chailey	0	0	0	0	1
Chester	1	1	1	2	1
Choleraesuis	1	2	1	0	0
Choleraesuis, var Kunzendorf	0	0	0	1	0
Colindale	0	0	1	1	0
Corvallis	1	0	0	0	0
Cotham	0	1	0	2	0
Cubana	2	1	0	0	0
Dahra	0	0	1	0	0
Derby	6	3	0	1	1
Dublin	3	5	5	2	3
Durban	0	0	1	2	0
Duval	1	0	0	0	0
Ealing	2	2	2	0	2
Eastbourne	1	0	1	0	0
Enteritidis	379	431	277	264	289
Fluntern	0	1	0	1	1
Gallinarum	1	0	0	0	0
Gaminara	1	4	2	0	4
Gera	0	0	0	0	2
Give	4	2	3	0	1
Hadar	4	2	5	7	2
Hannover	1	0	0	0	0
Hartford	22	36	17	32	11
Havana	2	2	1	0	2
Heidelberg	50	35	27	25	27
Hermannswerder	1	0	0	0	0
Herston	1	0	0	0	0
Holcomb	0	1	0	1	1
Hvittingfoss	2	0	5	3	2
Infantis	15	17	26	38	42
Javiana	36	36	33	22	26
Johannesburg	0	0	4	3	1
Kedougou	0	0	0	1	0
Kentucky	1	3	0	2	1
Kiambu	4	3	4	0	1
Kingabwa	1	0	0	1	0
Kintambo	1	0	1	0	0

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2009-2013**

SEROTYPE	2009	2010	2011	2012	2013
Kottbus	1	0	1	0	0
Labadi	1	0	0	0	0
Lille	0	0	0	3	2
Litchfield	2	6	12	9	3
Liverpool	0	1	0	0	0
Livingstone	2	3	3	0	0
Loma Linda	0	0	0	0	2
London	0	0	1	0	1
Madelaia	0	1	0	0	0
Manhattan	1	1	1	2	2
Mbandaka	5	6	2	5	13
Miami	1	2	4	1	6
Michigan	0	0	1	0	0
Minnesota	0	0	0	0	1
Mississippi	1	3	3	3	2
Molade	0	1	0	0	0
Monschau	2	1	1	1	2
Montevideo	25	20	12	24	20
Muenchen	11	15	17	20	25
Muenster	1	1	2	5	1
Muenster, var 15 +	1	0	0	1	0
Narashino	0	0	1	0	0
Newport	72	72	87	117	61
Nima	0	0	0	1	0
Norwich	0	1	5	2	1
Nottingham	0	0	1	0	0
Obogu	0	1	0	0	0
Ohio	1	0	2	0	1
Oranienburg	56	26	33	37	21
Orion	0	0	1	0	0
Orion, var 15 +	1	0	0	0	0
Oslo	1	0	0	0	0
Ouakam	1	0	0	0	0
Panama	2	4	5	6	3
Paratyphi A	3	3	5	1	2
Paratyphi B	2	1	0	1	0
Paratyphi B, var D - Tartrate +	0	1	0	0	0
Paratyphi B, var L - Tartrate +	54	42	44	59	51
Paratyphi B, var Tartrate +	1	0	0	0	1
Paratyphi C	1	0	0	0	0
Pomona	0	2	2	3	1
Poona	7	10	9	1	5
Potsdam	2	0	2	2	1
Putten	1	1	0	1	0
Reading	0	1	0	1	2
Richmond	0	0	0	1	0
Rissen	0	1	2	1	1
Romanby	0	1	0	0	0
Roodepoort	0	0	0	0	1
Rubislaw	0	0	2	1	1
Saarbruecken	0	1	0	0	0
Saint Paul	26	33	14	24	19
San Diego	6	4	1	4	4
Saphra	0	1	0	0	0
Schwartzengrund	6	4	2	1	2
Senftenberg	3	1	3	1	1
Shubra	1	0	0	0	0
Singapore	0	3	1	0	1
Soerenga	0	0	0	1	0
Stanley	5	7	4	4	10
Stellingen	0	0	0	1	0
Stoneferry	1	0	0	0	0
Suelldorf	2	0	0	0	1
Teitelkebir	1	2	0	1	0
Tennessee	3	1	0	0	0
Thompson	17	13	19	33	13
Typhimurium	212	123	150	208	196
Typhimurium, var Copenhagen	51	61	40	0	1

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2009-2013**

SEROTYPE	2009	2010	2011	2012	2013
Uganda	0	0	0	0	2
Uganda, var 15 +	0	0	0	0	1
Urbana	1	1	2	4	3
Uzaramo	0	1	0	0	0
Virchow	7	4	0	8	3
Wandsworth	0	0	0	0	1
Weltevreden	2	2	0	4	1
Worthington	1	3	0	0	0
(I) 1,9,12:-:5	2	0	1	0	0
(I) 1,9,12:Non-motile	1	2	2	1	0
(I) 3,10:-:1,5	0	0	0	0	1
(I) 3,10:-:l,w	0	0	0	0	1
(I) 3,10:Non-motile	1	0	0	0	0
(I) 4,5,12:b:-	0	0	1	0	0
(I) 4,5,12:i:-	46	38	44	75	118
(I) 4,5,12:r:-	0	0	1	0	0
(I) 4,5,12:2:-	1	0	0	0	0
(I) 4,5,12:Non-motile	1	1	0	0	1
(I) 4,5:b:-	0	0	0	0	1
(I) 6,7:-:1,5	0	1	0	0	0
(I) 6,7:-:5	3	0	0	0	0
(I) 6,7:-:l,w	0	0	0	0	1
(I) 6,7:k:-	0	0	0	0	1
(I) 6,7:Non-motile	1	1	1	3	0
(I) 9,12:Non-motile	0	0	0	0	2
(I) 13,23:Non-motile	0	1	0	0	0
(I) 18:Non-motile	0	0	0	1	0
(I) 47:m,t:-	0	0	0	0	1
(I) Mucoid:b:e,n,x	0	1	0	0	0
(I) Rough Os:b:-	0	1	0	0	0
(I) Rough Os:e,h:e,n,z15	0	0	0	0	1
(I) Rough Os:g,m:-	0	0	0	0	1
(I) Rough Os:z10:e,n,z15	0	0	1	0	0
(I) Rough Os:z38:-	0	0	1	0	0
(II) 21:z10:z6	0	0	1	0	0
(II) 50:b:z6	1	0	0	0	0
(III) Arizona	1	0	0	1	0
(IIIa) 13,23:z4:-	1	0	0	0	0
(IIIa) 44:z4,z23:-	0	0	1	0	0
(IIIa) 44:z4,z24:-	1	0	0	0	0
(IIIb) 16:Non-motile	0	0	0	0	1
(IIIb) 48:i:z	2	0	0	1	1
(IIIb) 48:Non-motile	0	0	0	0	1
(IIIb) 50:k:-	0	0	0	1	0
(IIIb) 50:k:z	1	1	0	0	1
(IIIb) 50:z:z52	1	0	0	0	0
(IIIb) 50:Non-motile	0	0	0	0	1
(IIIb) 57:c:e,n,x,z15	0	1	0	0	0
(IIIb) 60:r:z	0	0	0	0	2
(IIIb) 61:-:1,5	0	1	2	0	0
(IIIb) 61:i:z53	1	1	0	0	0
(IIIb) 61:l,v:1,5	0	0	0	1	0
(IIIb) 61:l,v,z13:z35	1	0	0	0	0
(IIIb) 61:l,v,z13:1,5	0	0	1	0	0
(IIIb) 61:l,z13:1,5	0	0	0	0	2
(IIIb) 61:r:z	1	0	0	0	0
(IIIb) 61:z52:z53	1	0	0	0	0
(IIIb) 65:(k):z	1	0	0	0	0
(IIIb) Rough Os:c:z35	0	0	0	1	0
(IV) 1,40:z4,z32:-	0	0	0	0	1
(IV) 40:z4,z24:-	0	0	1	0	0
(IV) 44:z4,z23:-	2	2	1	0	0
(IV) 44:z4,z32:-	0	0	0	0	1
(IV) 45:g,z51:-	1	0	0	0	0
(IV) 48:g,z51:- (Marina)	0	1	0	1	0
(IV) 50:z4,z23:- (Flint)	1	0	3	1	0
(VI) 41:b:1,7	0	0	1	0	0
Rough Os:d:1,2	1	0	0	0	0

**SALMONELLA SEROTYPES BY YEAR OF ONSET,
OHIO, 2009-2013**

SEROTYPE	2009	2010	2011	2012	2013
Rough Os:d:1,7	0	0	0	1	0
Rough Os:e,h:z15	1	1	0	0	0
Rough Os:e,h:1,2	0	0	0	1	0
Rough Os:e,h:1,6	0	0	0	0	1
Rough Os:f,g:-	0	0	0	1	0
Rough Os:g,m:-	0	1	1	0	0
Rough Os:g,m,s:-	0	1	0	0	1
Rough Os:i:2	0	0	1	0	0
Rough Os:l,z28:5	0	1	0	0	0
Rough Os:z:1,6	0	0	0	0	1
Rough Os:Non-motile	2	2	2	1	0
SUB-TOTAL	1,289	1,220	1,073	1,186	1,124

SEROGROUP	2009	2010	2011	2012	2013
Group A	0	0	0	1	0
Group B	13	11	7	4	7
Group C	3	7	8	1	3
Group C1	1	1	1	1	0
Group C2	0	2	0	0	0
Group D	11	9	5	8	1
SUB-TOTAL	28	30	21	15	11

UNGROUPED, UNTYPED	60	59	89	68	55
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GRAND TOTAL	1,377	1,309	1,183	1,270	1,190
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GRAPHS OF SELECTED NOTIFIABLE DISEASE INCIDENCE

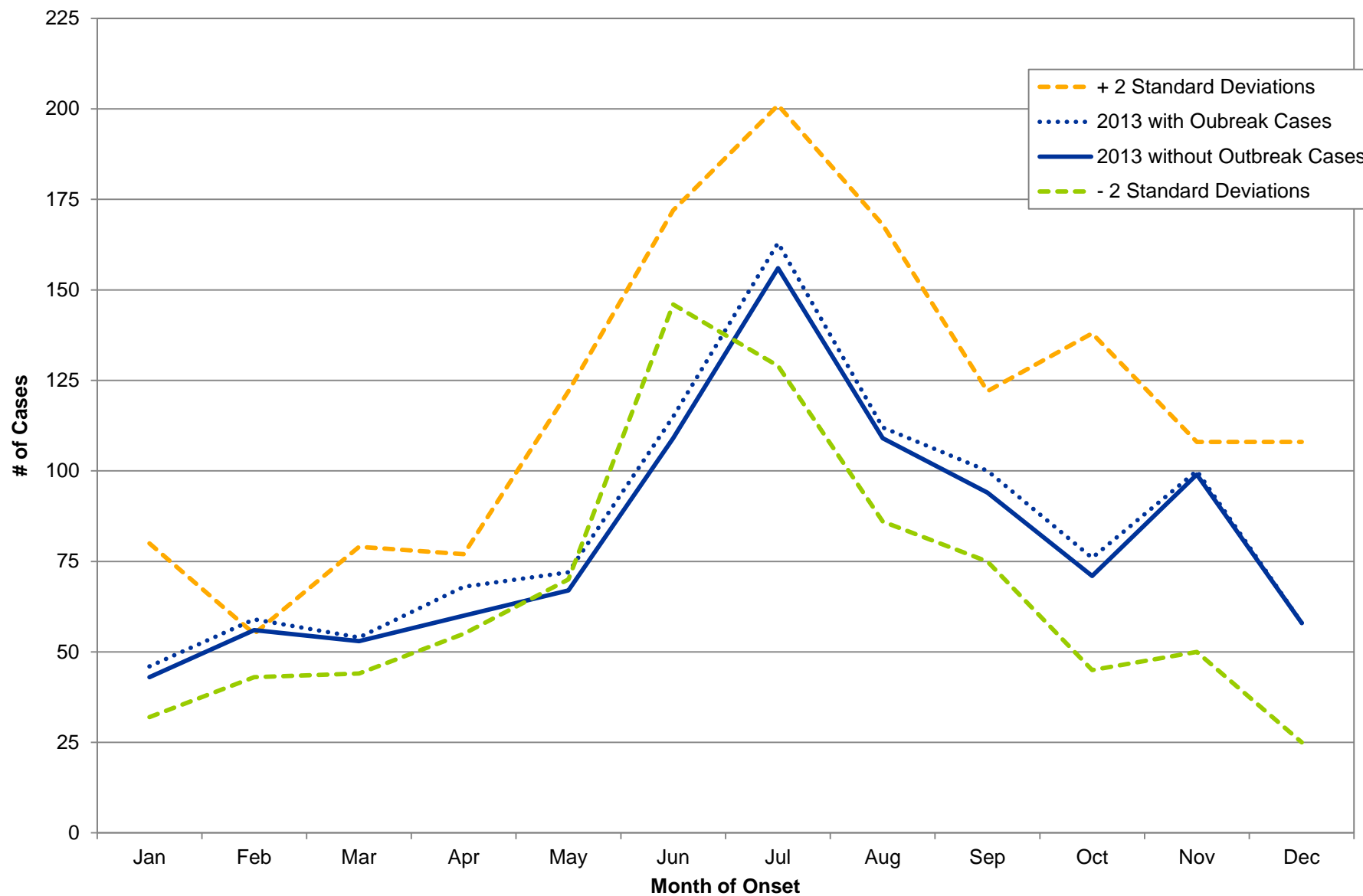
Disease incidence from 2013 is graphically presented to demonstrate general trends in surveillance data for selected Ohio reportable infectious diseases, including any statistically significant changes in the incidence observed. The trend graphs compare disease incidence from 2013 (i.e., observed cases) to baseline disease incidence (i.e., expected cases) by month. Baseline disease incidence was determined by calculating the average disease incidence over the previous three years, 2010-2012. Statistically significant changes in incidence are demonstrated by graphing 2 standard deviations above and below the average baseline disease incidence. A statistically significant difference in 2013 disease incidence compared to baseline disease incidence suggests the difference is unlikely to have occurred by chance.

General surveillance trends are graphed statewide. The 2013 data represent confirmed and probable cases of selected reportable diseases. In many instances, two trend lines can be seen graphed for 2013 incidence data: one for all cases, including those linked to a known outbreak or cluster, and one for cases not linked to a known outbreak or cluster. Note that not every graph will include a trend line for cases linked to a known outbreak or cluster as not all cases are outbreak- or cluster-associated. For statistical reliability/stability purposes, only diseases for which 10 or more cases were reported in a given month are included in the statewide trends.

Disease data for 2013 and data used in the calculation of the baseline (2010-2012) average are finalized. All data are by month and year of illness onset. The source of the data is the Ohio Disease Reporting System.

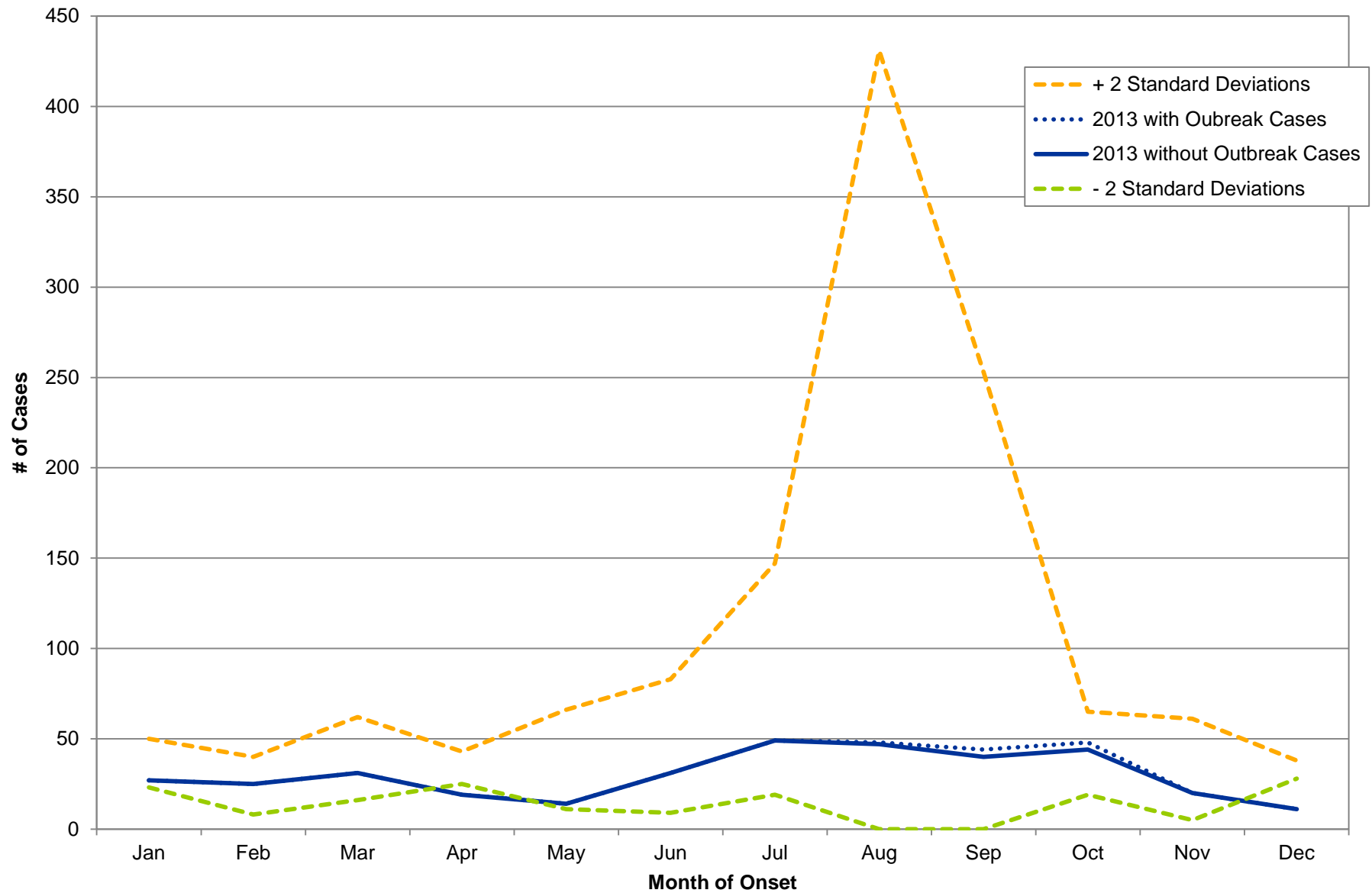
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Campylobacteriosis



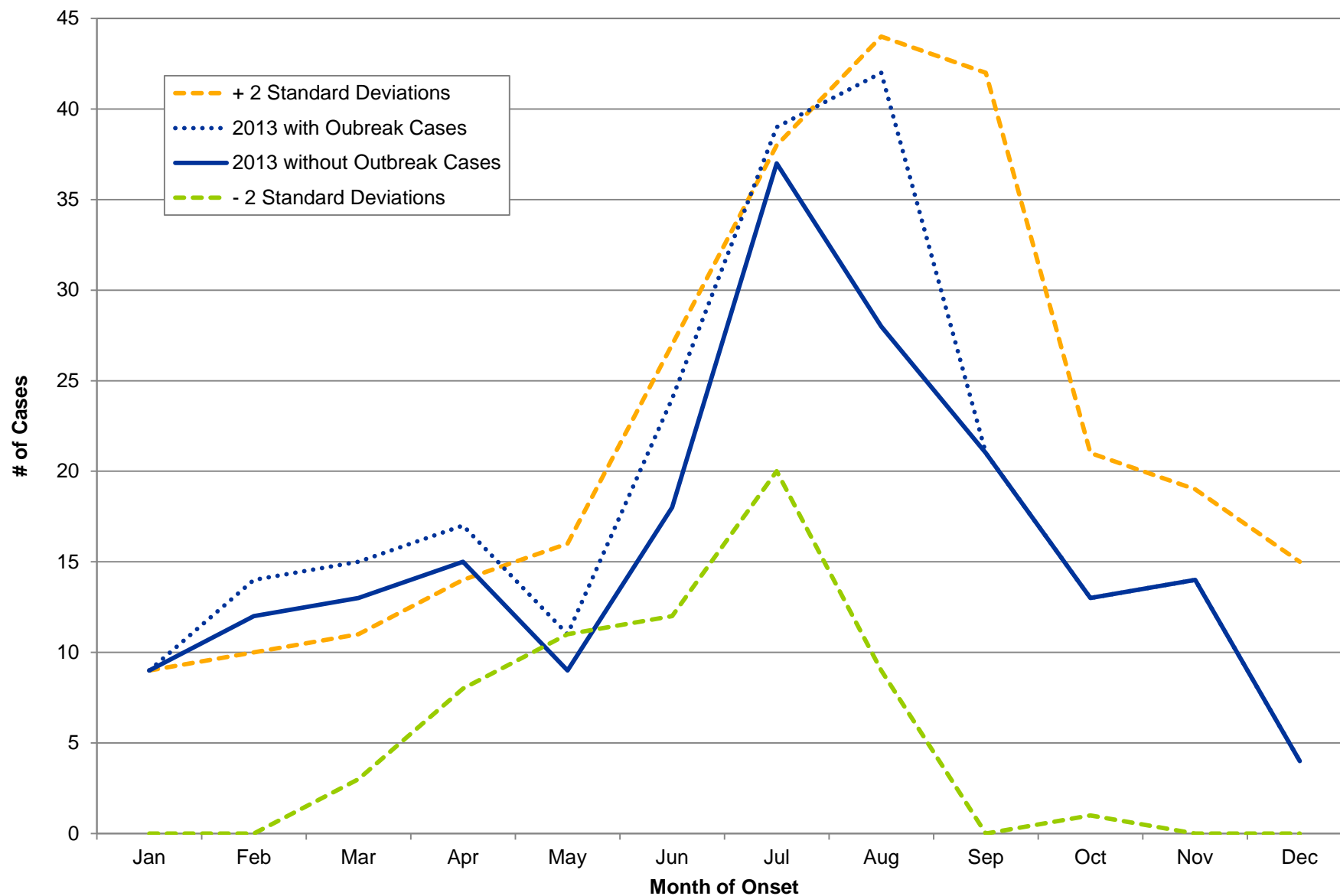
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Cryptosporidiosis



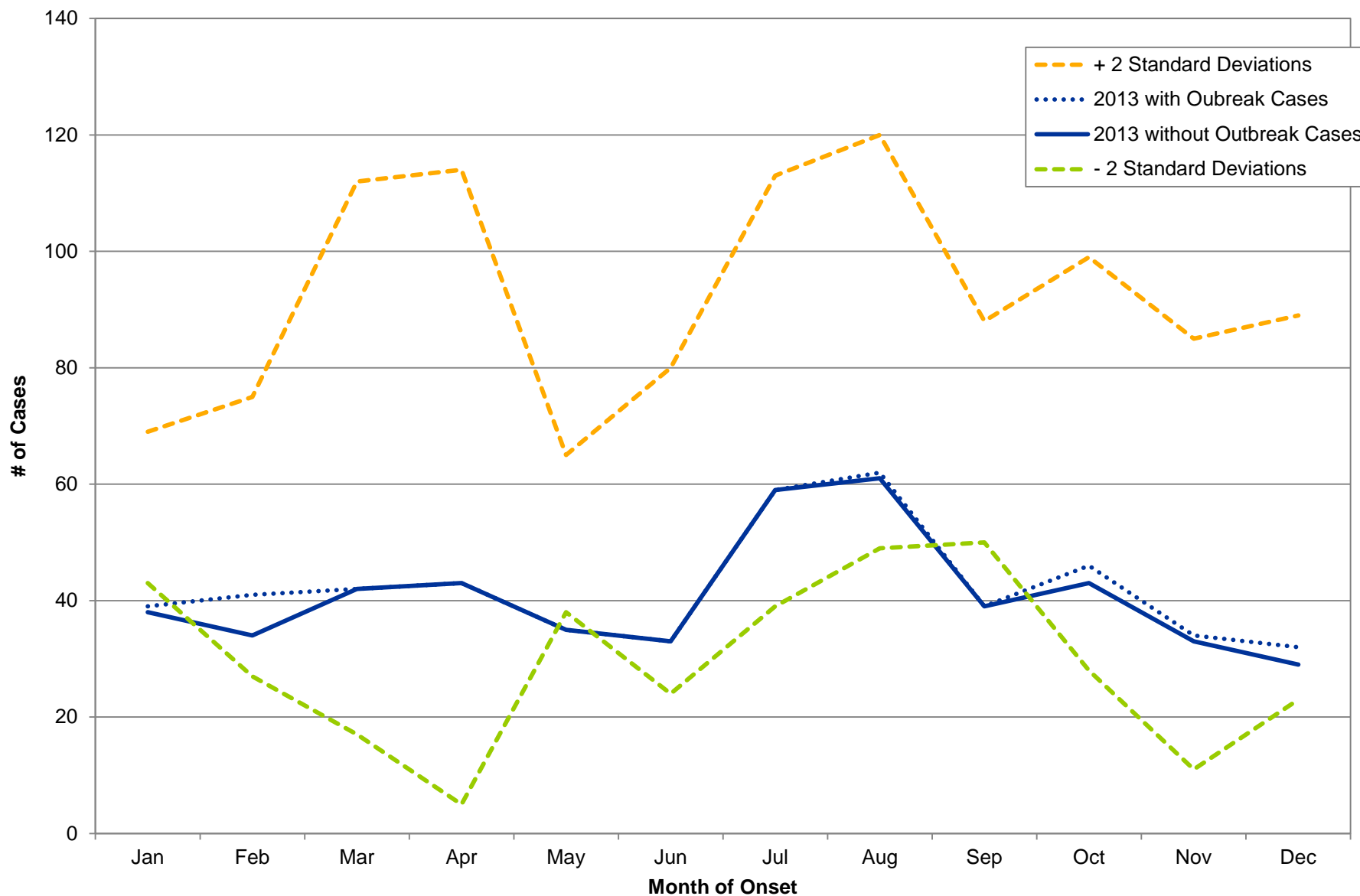
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Escherichia coli, Shiga Toxin-Producing



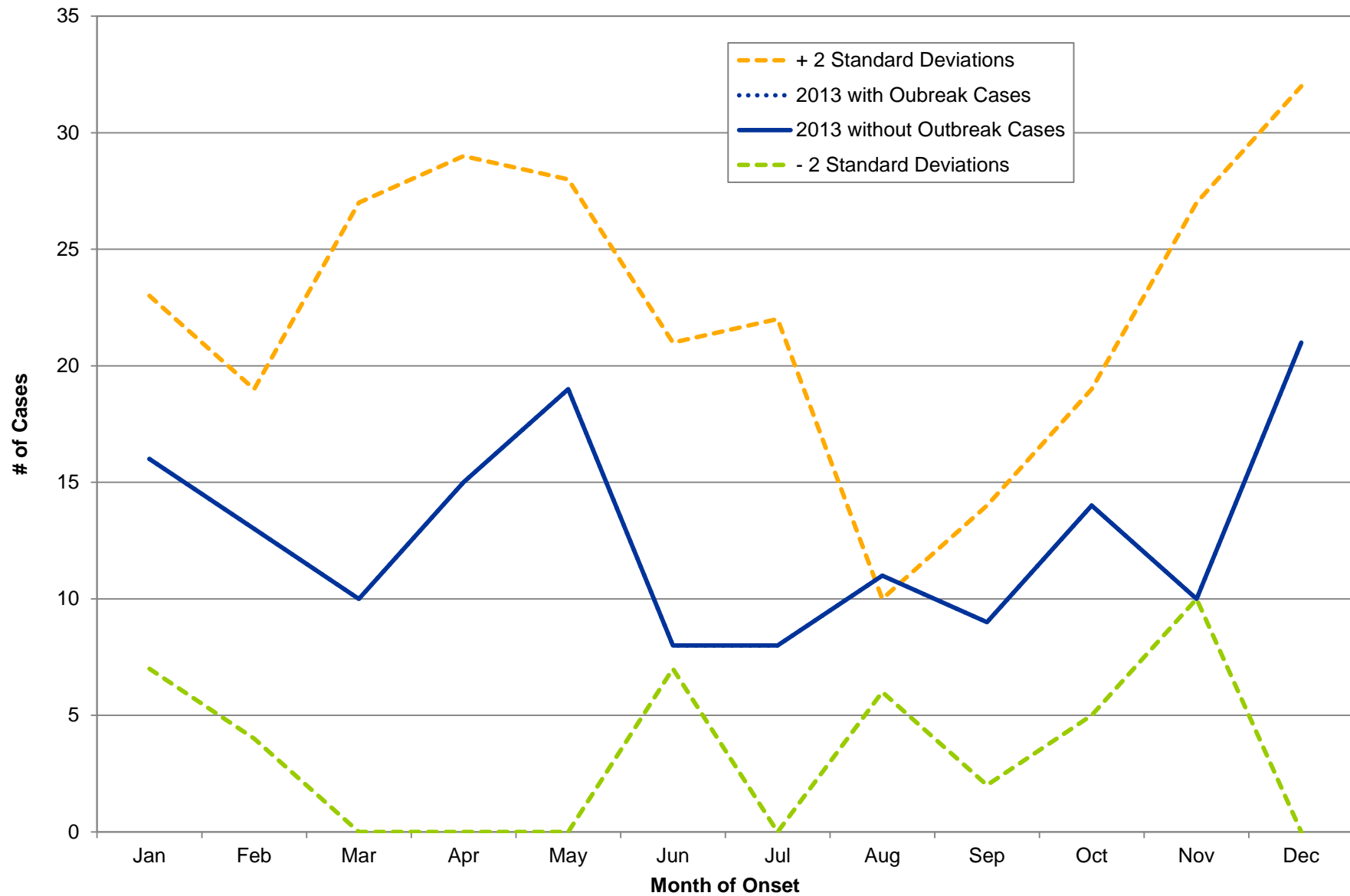
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Giardiasis

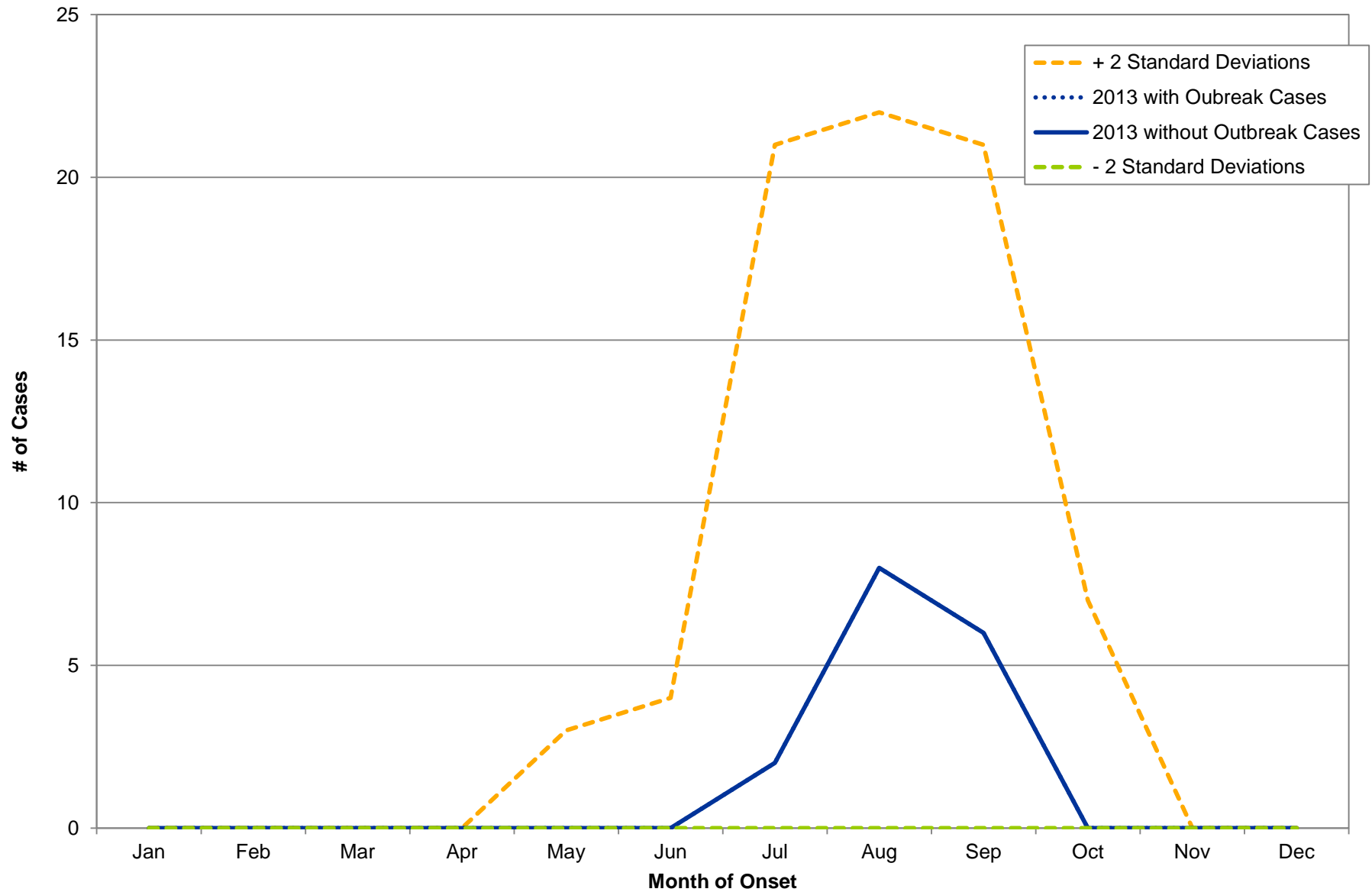


INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Haemophilus influenzae, Invasive Disease

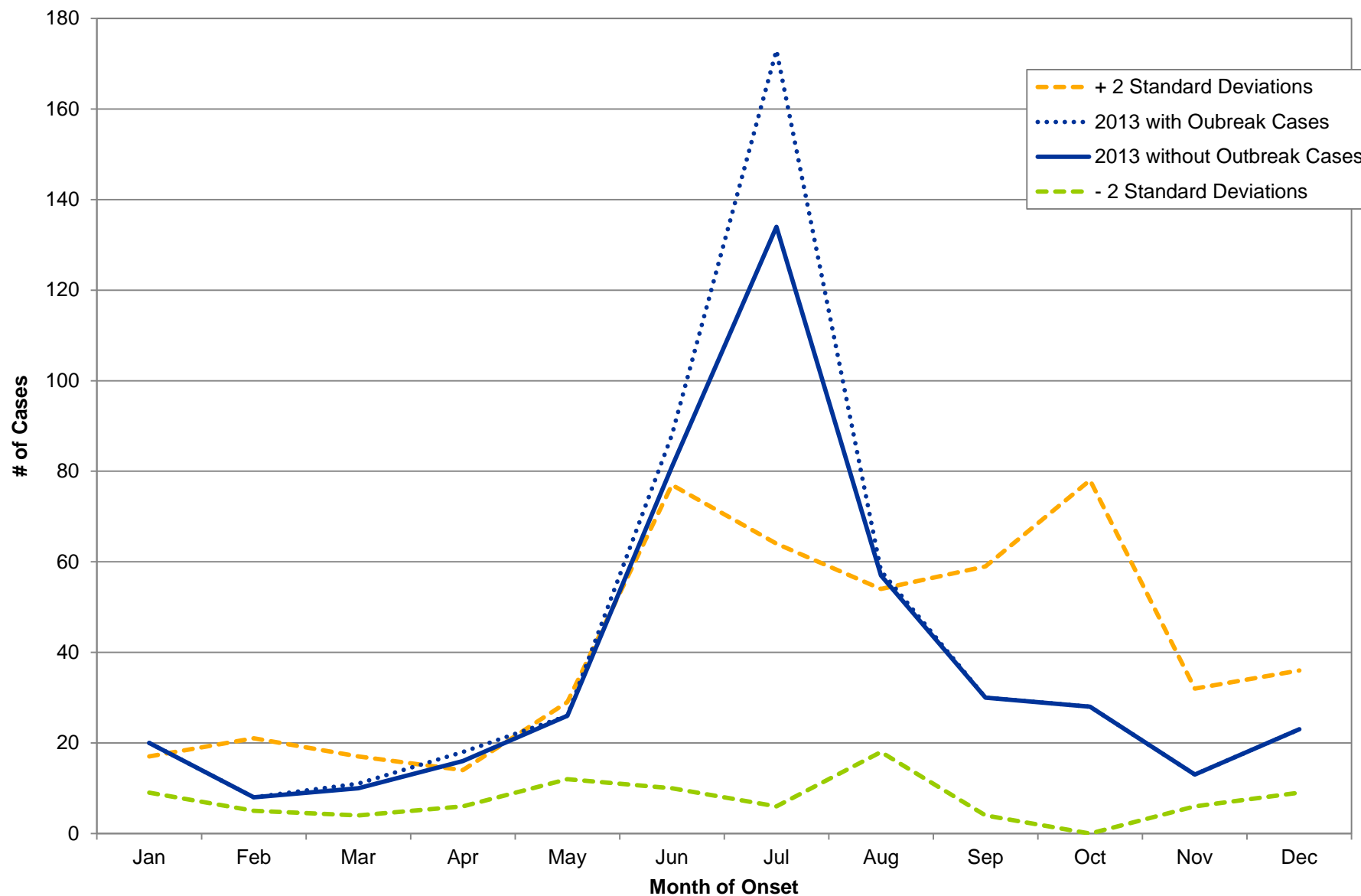


INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013 LaCrosse Virus Disease



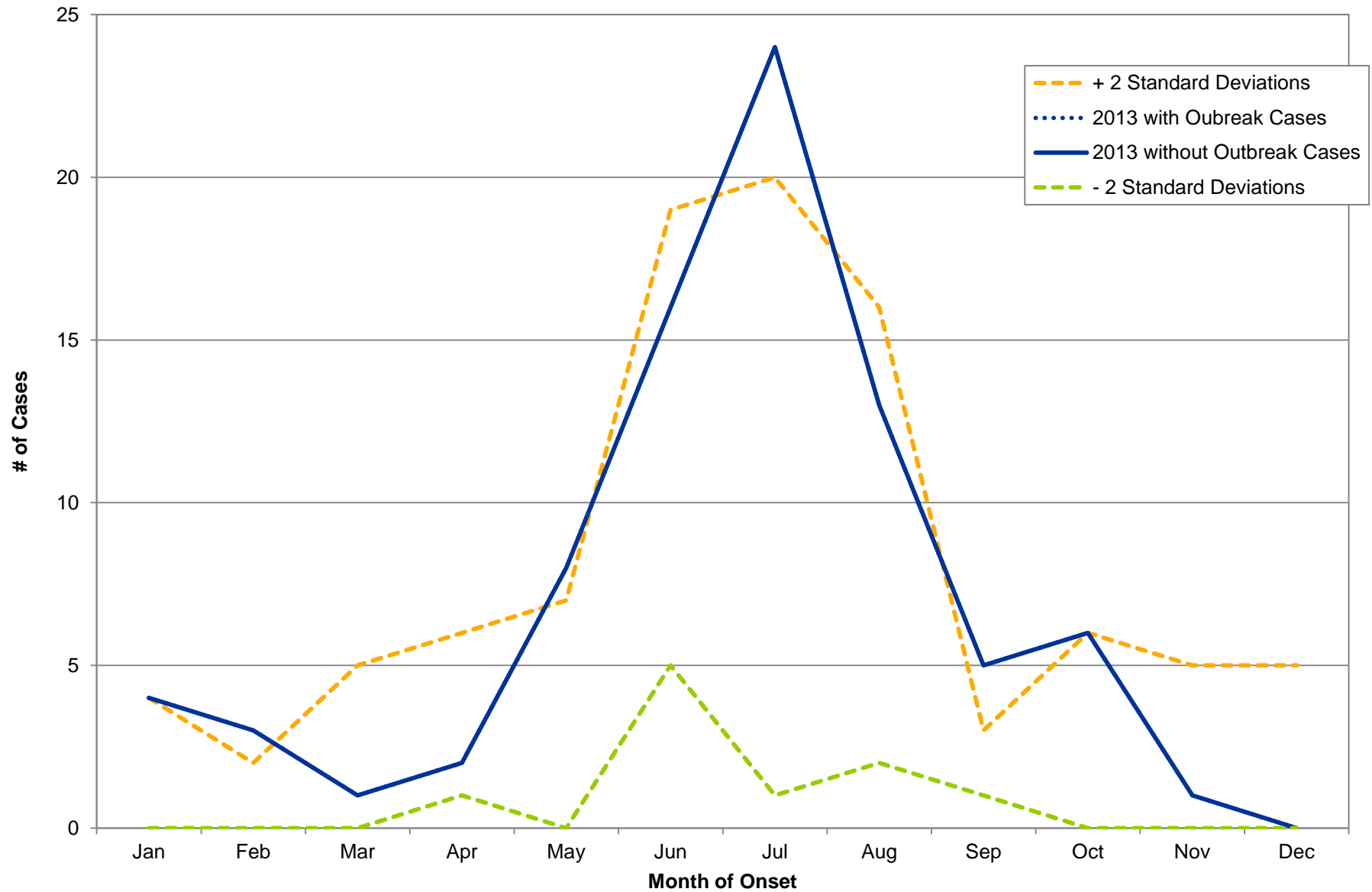
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Legionellosis



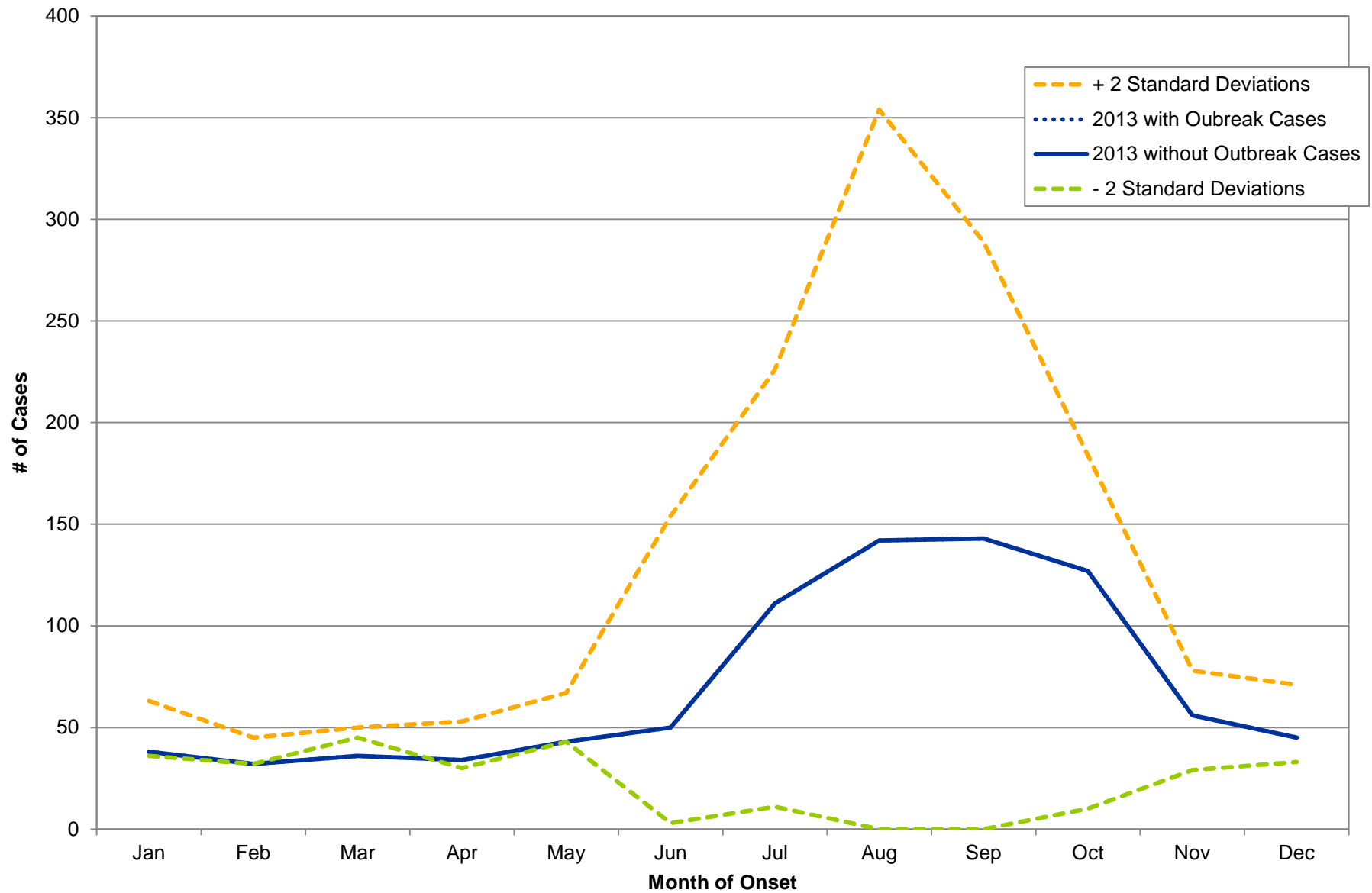
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Lyme Disease



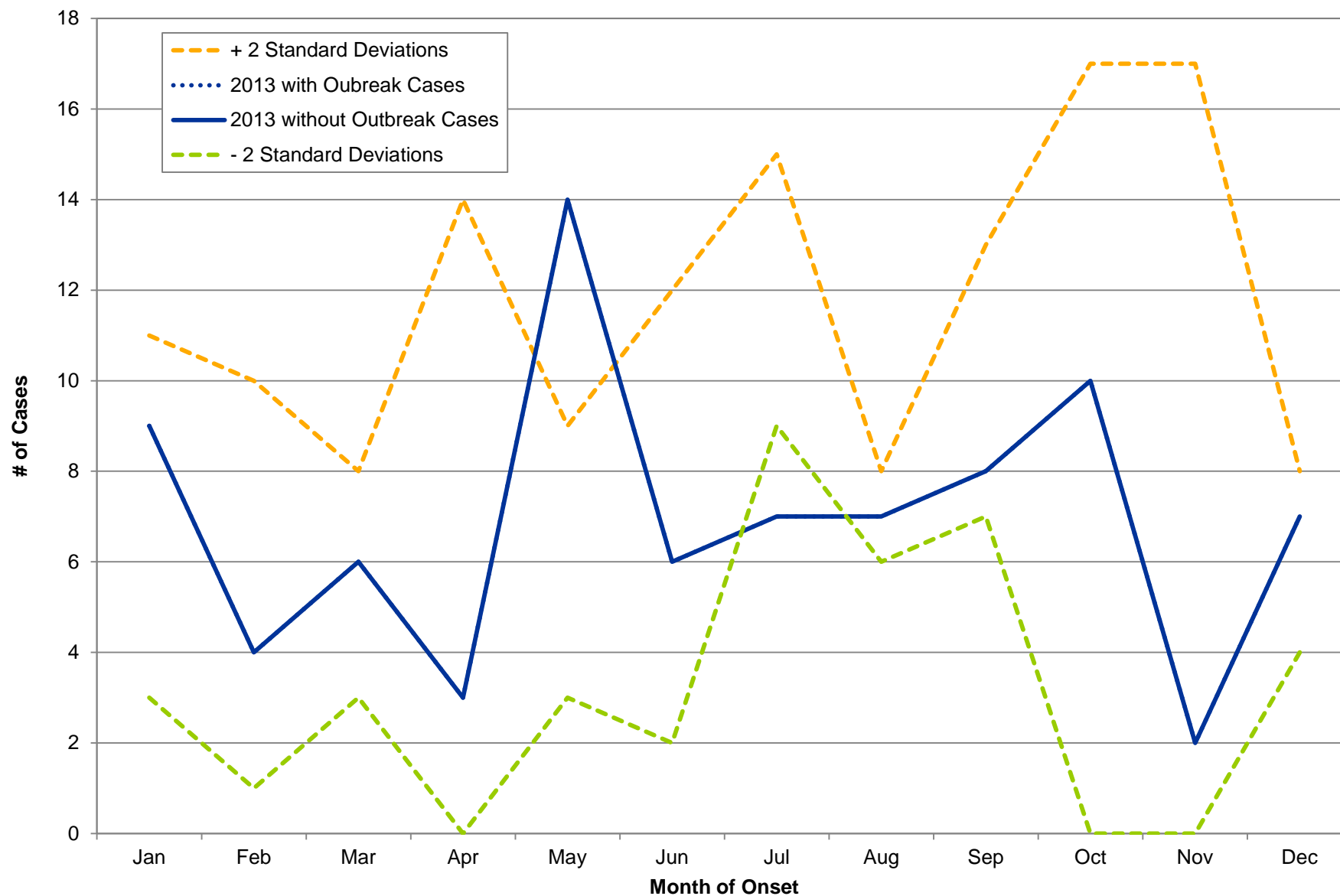
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Meningitis, Aseptic



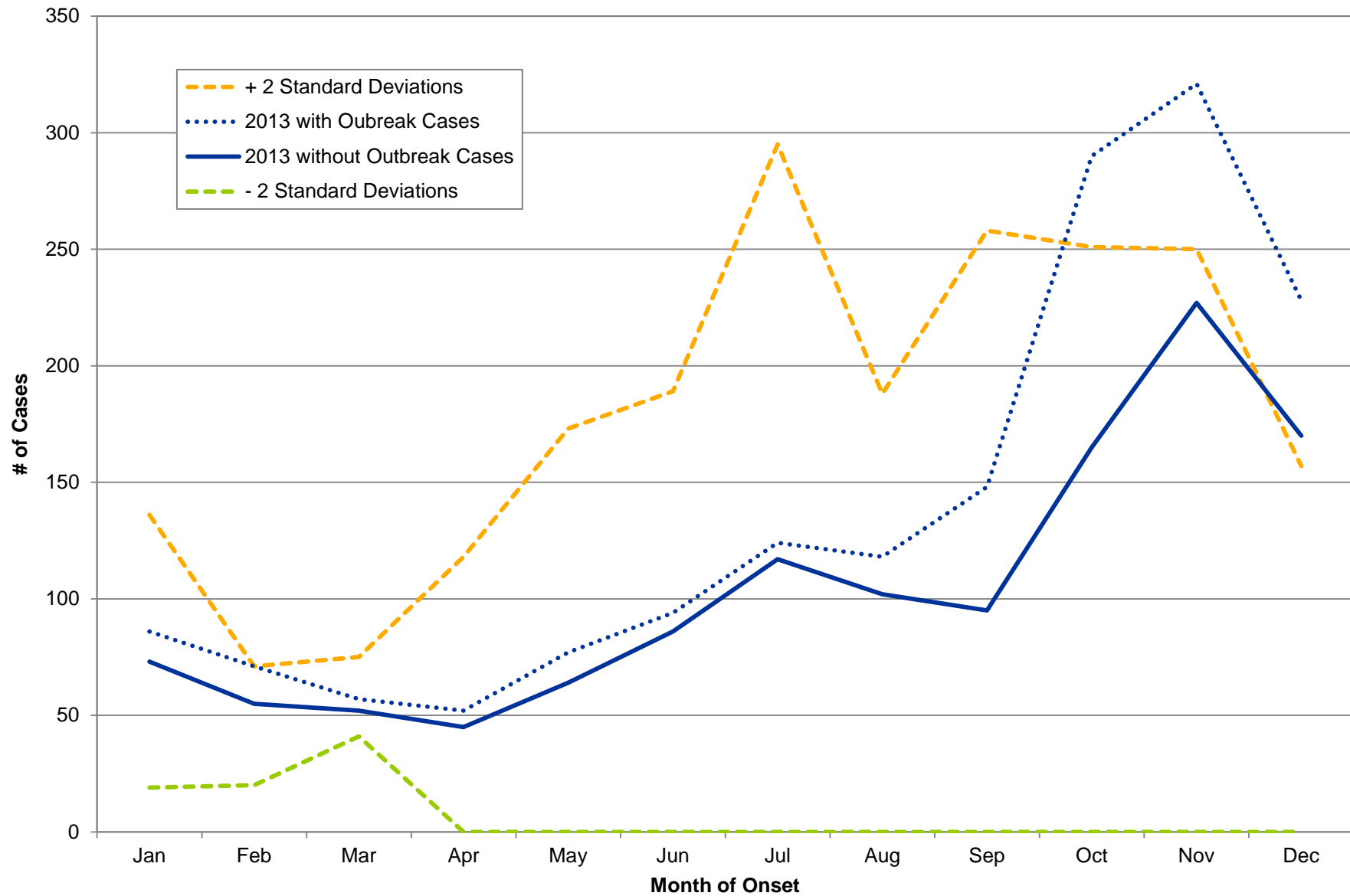
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Meningitis, Other Bacterial



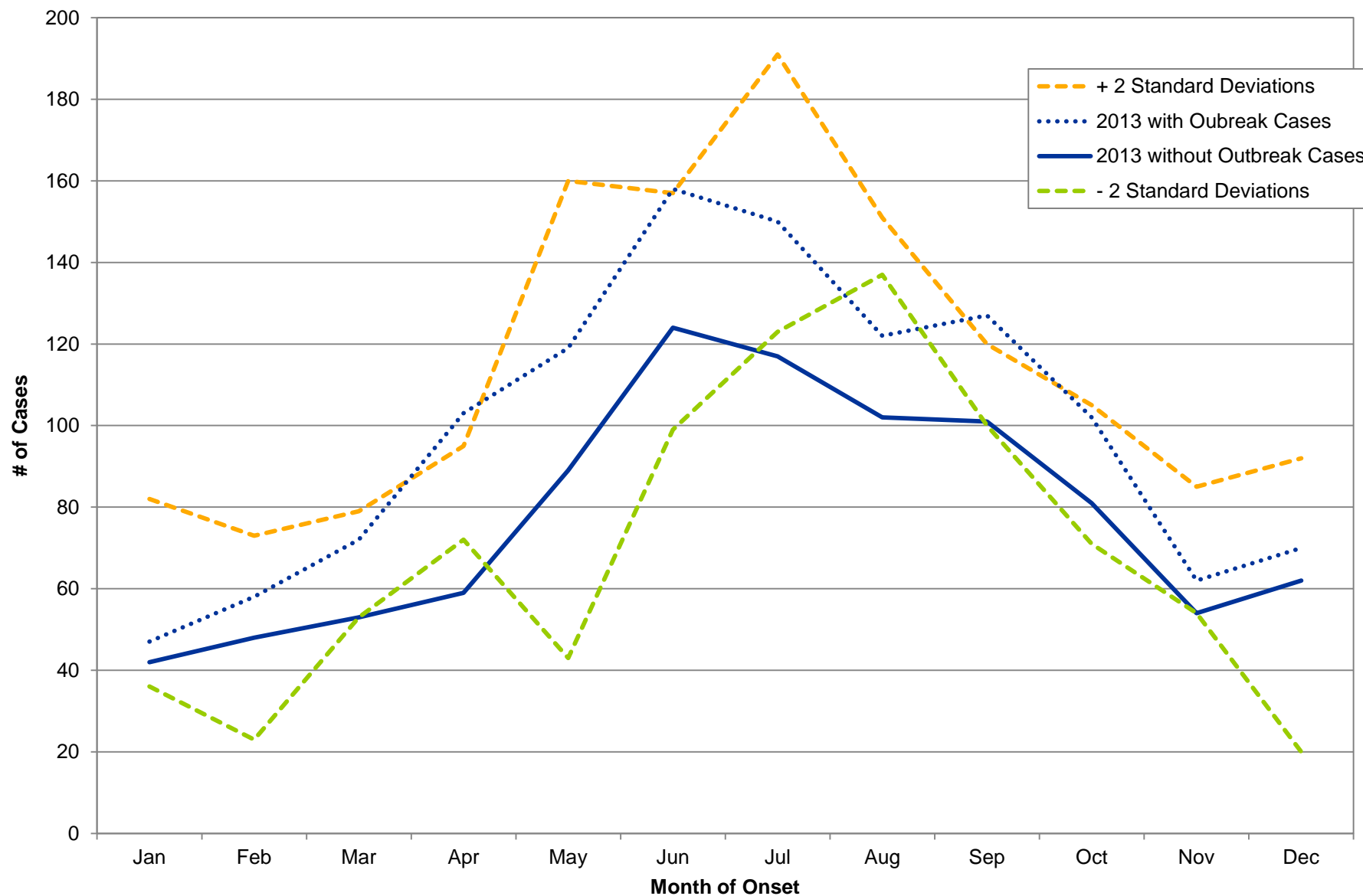
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Pertussis



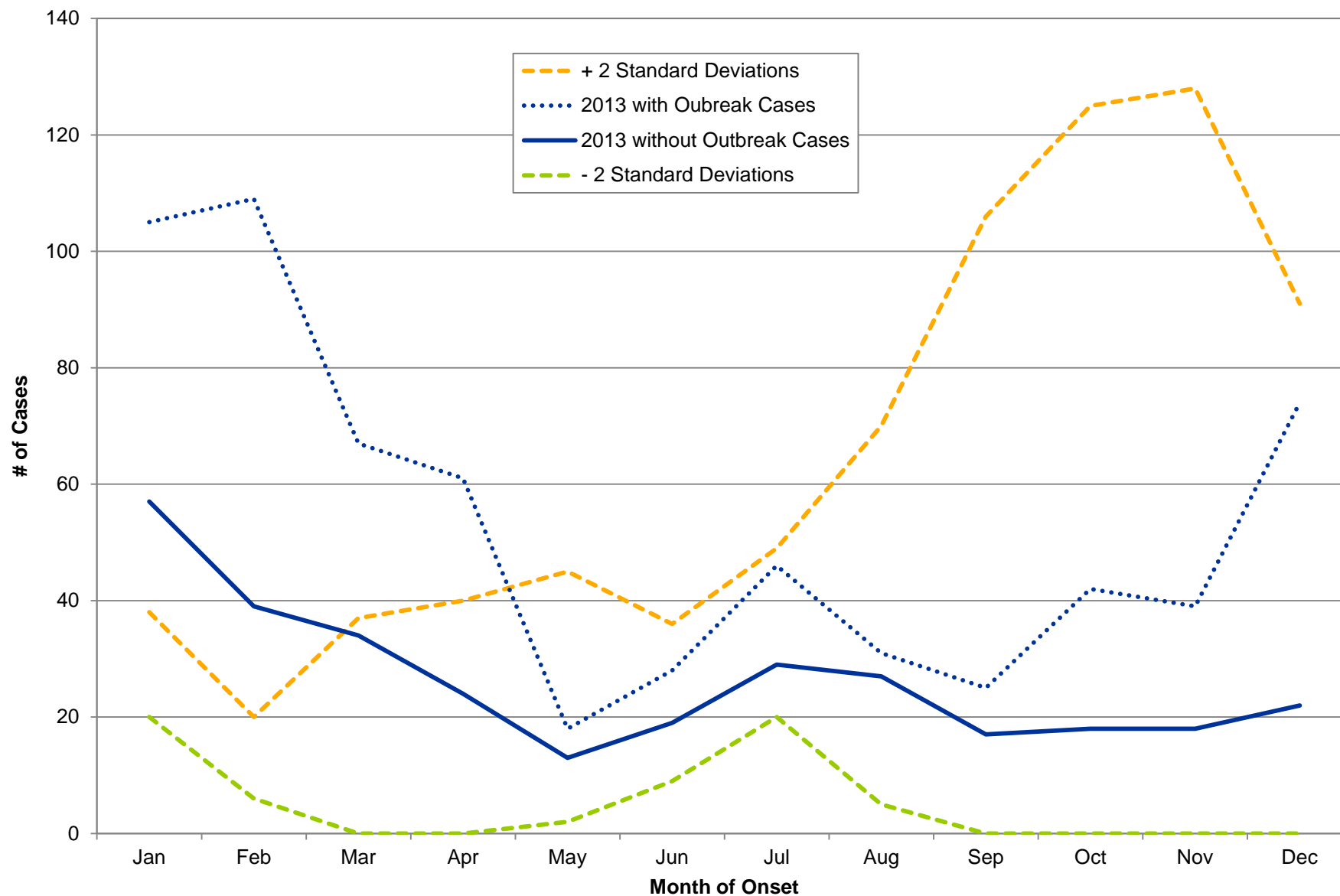
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Salmonellosis



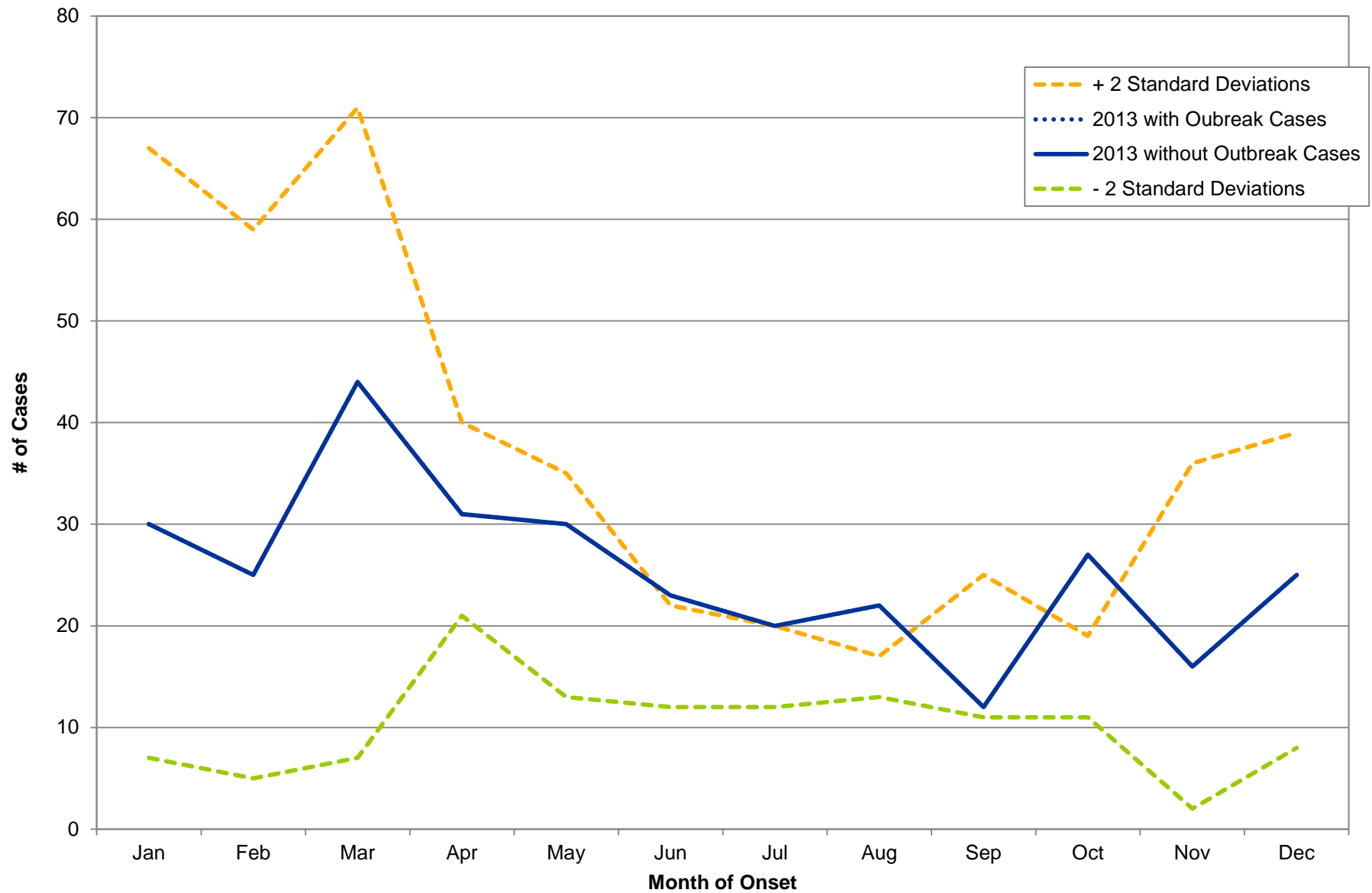
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Shigellosis



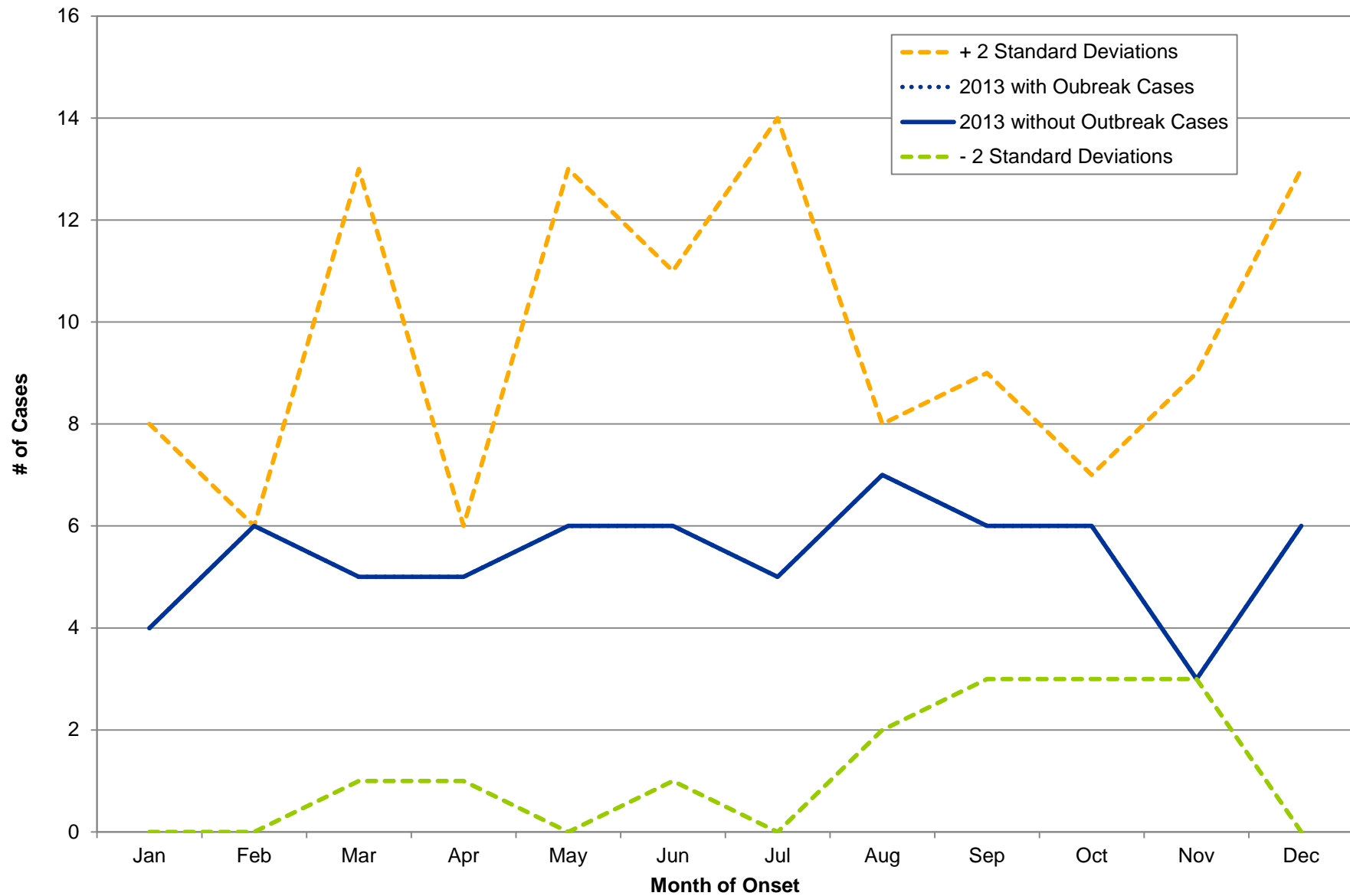
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Streptococcal Disease, Group A, Invasive



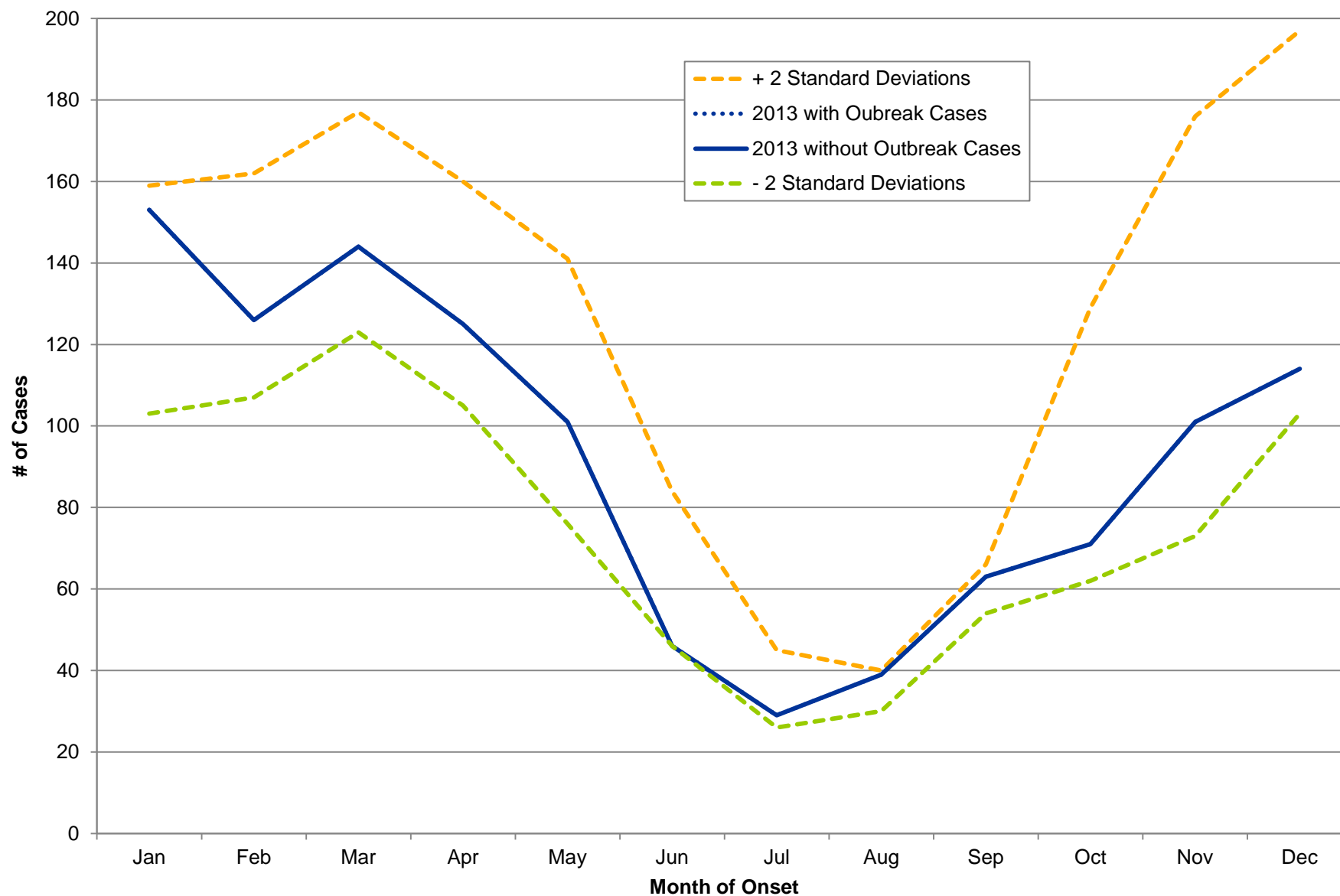
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Streptococcal Disease, Group B, in Newborn



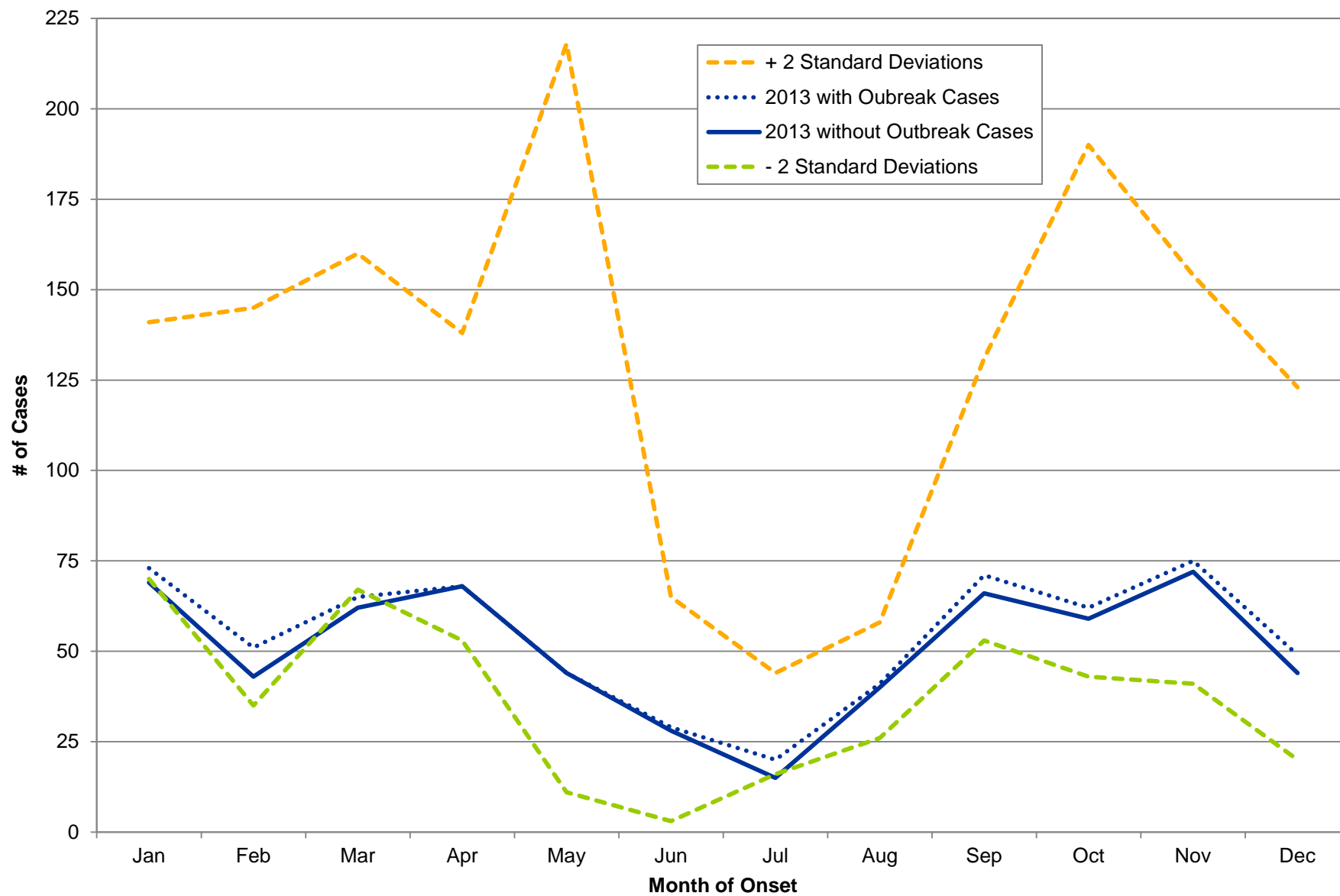
INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Streptococcus pneumoniae, Invasive Disease

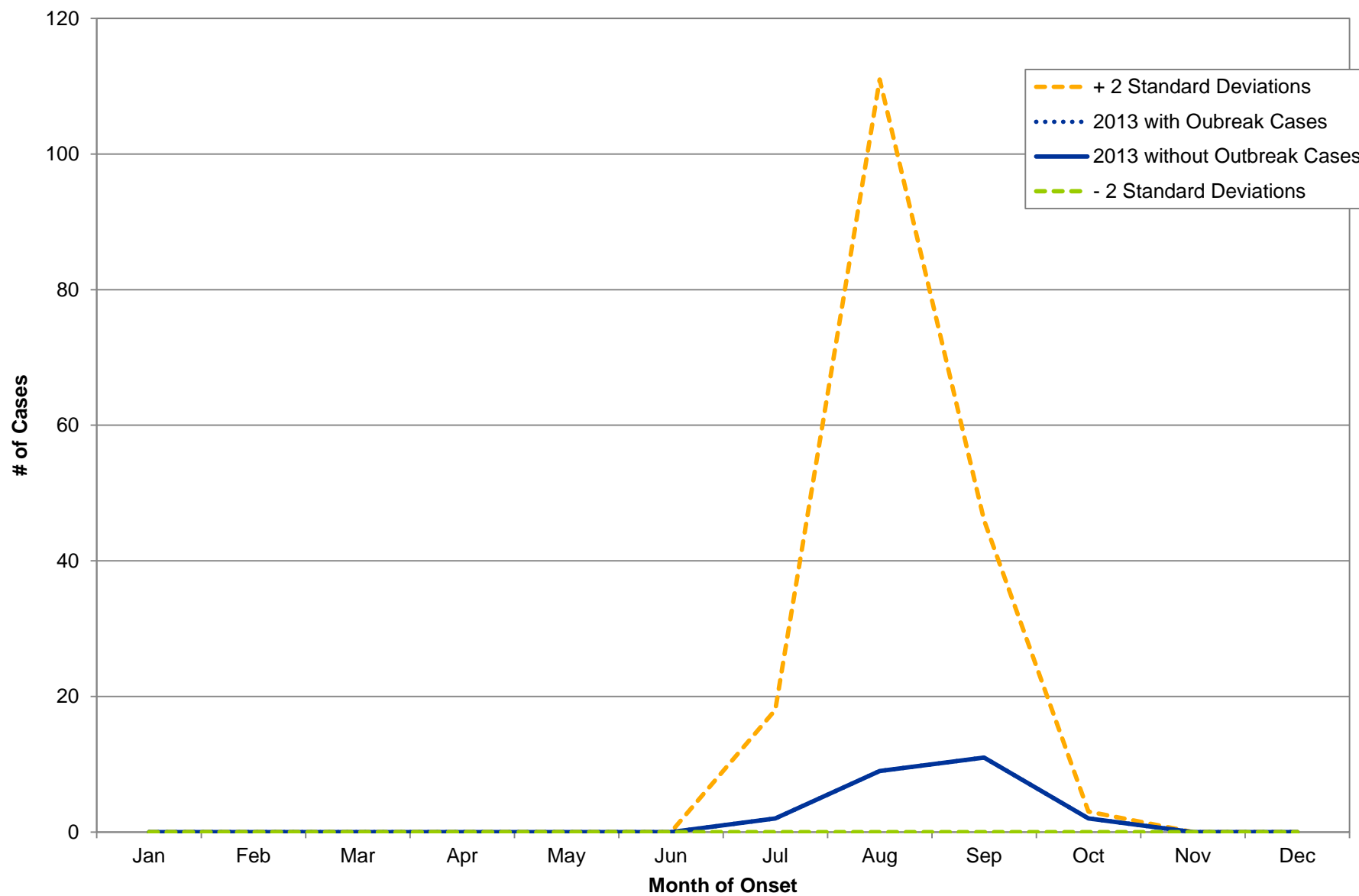


INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013

Varicella



INCIDENCE TRENDS BY MONTH OF ONSET, OHIO, 2013 West Nile Virus Infection



PROFILES OF SELECTED NOTIFIABLE DISEASES

BOTULISM

<i>Number of infant cases in 2013:</i>	<i>5</i>	<i>Rate in 2013*:</i>	<i>0.04</i>
<i>Number of infant cases in 2012:</i>	<i>4</i>	<i>Rate in 2012*:</i>	<i>0.03</i>
<i>Number of foodborne cases in 2013:</i>	<i>0</i>	<i>Rate in 2013[†]:</i>	<i>0.00</i>
<i>Number of foodborne cases in 2012:</i>	<i>2</i>	<i>Rate in 2012[†]:</i>	<i>0.02</i>

* Rates are based on the U.S. Census births reported for Ohio and are per 1,000 population.

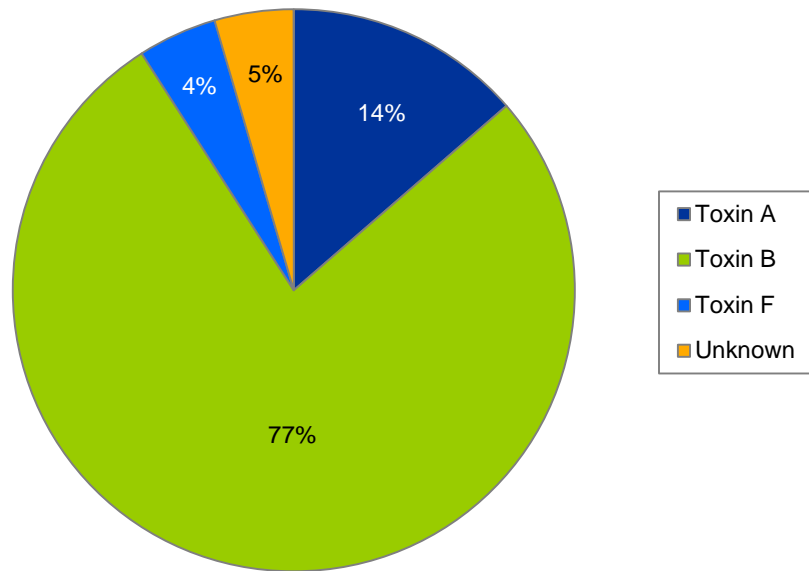
[†] Rates are based on the U.S. Census 2012 and 2013 estimates and are per 100,000 population.

Botulism is a rare but serious paralytic illness caused by a nerve toxin that is produced by the bacterium *Clostridium botulinum* and sometimes by strains of *Clostridium butyricum* and *Clostridium baratii*. There are five main types of botulism. Foodborne botulism is caused by eating foods that contain the botulinum toxin. Wound botulism is caused by toxin produced from a wound infected with *Clostridium botulinum*. Infant botulism is caused by consuming the spores of the botulinum bacteria, which then grow in the intestines and release toxin. Adult intestinal toxemia (adult intestinal colonization) botulism is a very rare kind of botulism that occurs among adults by the same route as infant botulism. Lastly, iatrogenic botulism can occur from accidental overdose of botulinum toxin. All forms of botulism can be fatal and are considered medical emergencies. Foodborne botulism is a public health emergency because many people could be poisoned by eating the same contaminated food.

Four cases of foodborne botulism have been investigated between 2009 and 2013. Two cases were directly linked to a specific food. One case consumed improperly stored potato soup, and the other case consumed home canned green beans.

Figure 1 demonstrates the botulism toxin type in botulism infections in Ohio over the past five years. Infant botulism, botulism in children under the age of 1 year, constitutes 94 percent (16 out of 17 cases) of botulism toxin type B. Foodborne botulism cases were caused by toxin type A (3 cases) and toxin type F (1 case) over the last 5 years.

Figure 1: Botulism by Toxin Type, Ohio, 2009-2013



Source of disease data: Ohio Disease Reporting System.

LYME DISEASE

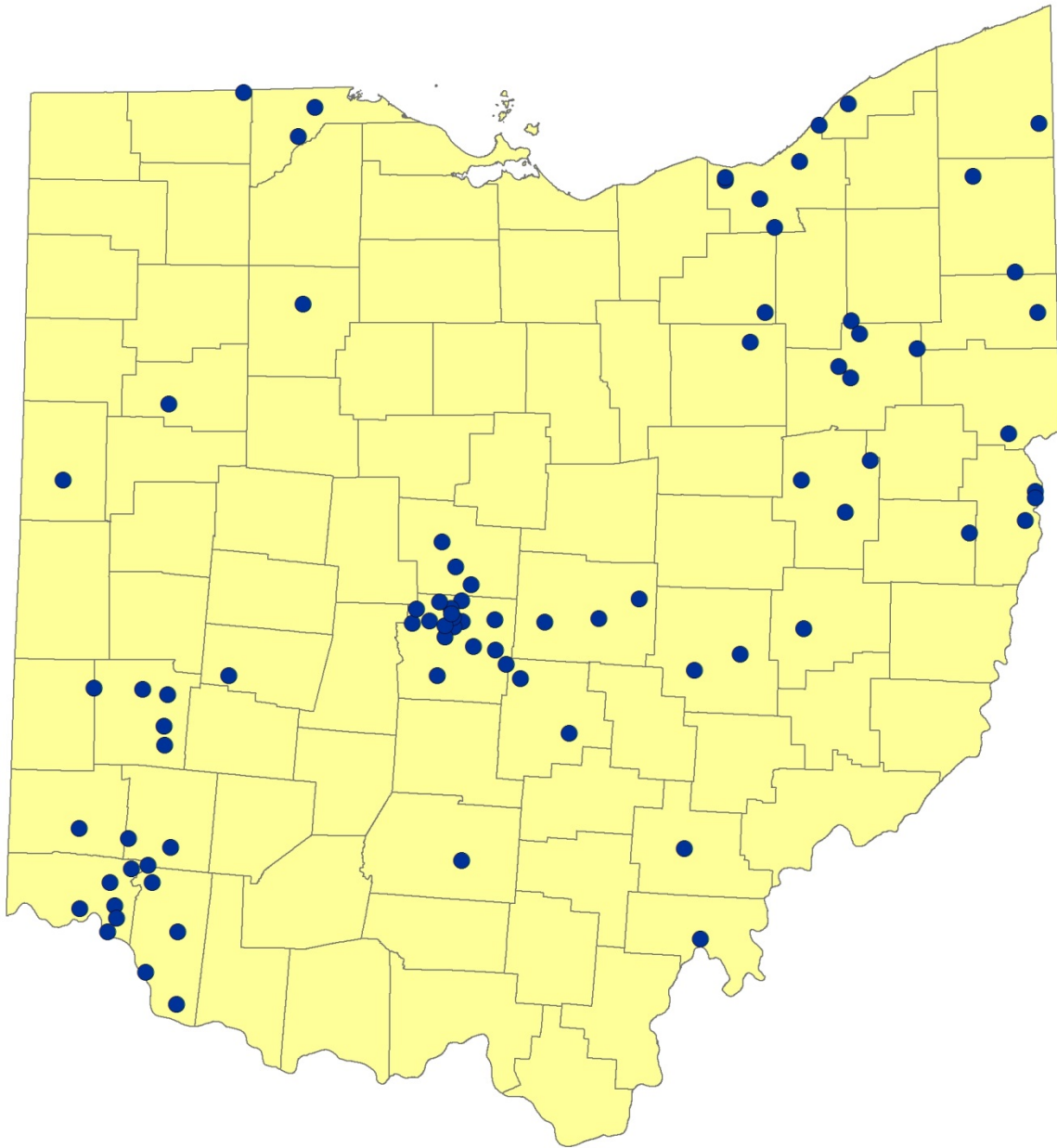
<i>Number of cases in 2013:</i>	<i>83</i>	<i>Rate in 2013:</i>	<i>0.7</i>
<i>Number of cases in 2012:</i>	<i>63</i>	<i>Rate in 2012:</i>	<i>0.5</i>

* Rates are based on the 2012 and 2013 U.S. Census estimates and are per 100,000 population.

Lyme disease is caused by the bacterium *Borrelia burgdorferi* and is transmitted to humans through the bite of infected blacklegged ticks, species *Ixodes scapularis*.¹ Typical symptoms include fever, headache, fatigue and a characteristic skin rash called erythema migrans (the “bull’s-eye” rash). If left untreated, infection can spread to the joints, heart and nervous system. Most cases of Lyme disease can be treated successfully with a few weeks of antibiotics. Steps to prevent Lyme disease include using insect repellent, removing ticks promptly, reducing tick habitat through landscape modification and appropriately using of acaricides.

Figure 2 displays the county of residence for Ohio cases diagnosed with Lyme disease in 2013. Many of Ohio’s cases are still acquired out of state. However, at the end of 2013, the vector was found in at least 58 of Ohio’s 88 counties.

Figure 2: Lyme Disease Incidence, Ohio, 2013



Source of disease data: Ohio Disease Reporting System.

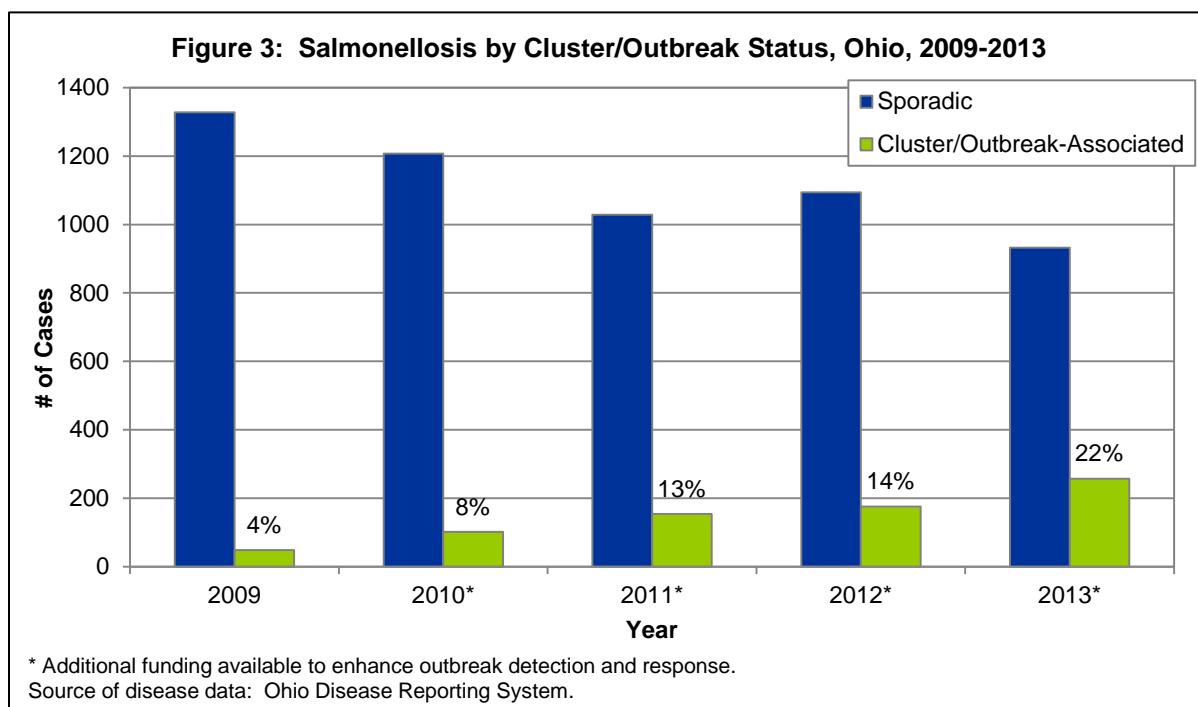
SALMONELLOSIS

<i>Number of cases in 2013:</i>	<i>1,190</i>	<i>Rate in 2013:</i>	<i>10.3</i>
<i>Number of cases in 2012:</i>	<i>1,270</i>	<i>Rate in 2012:</i>	<i>11.0</i>

* Rates are based on the 2012 and 213 U.S. Census estimates and are per 100,000 population.

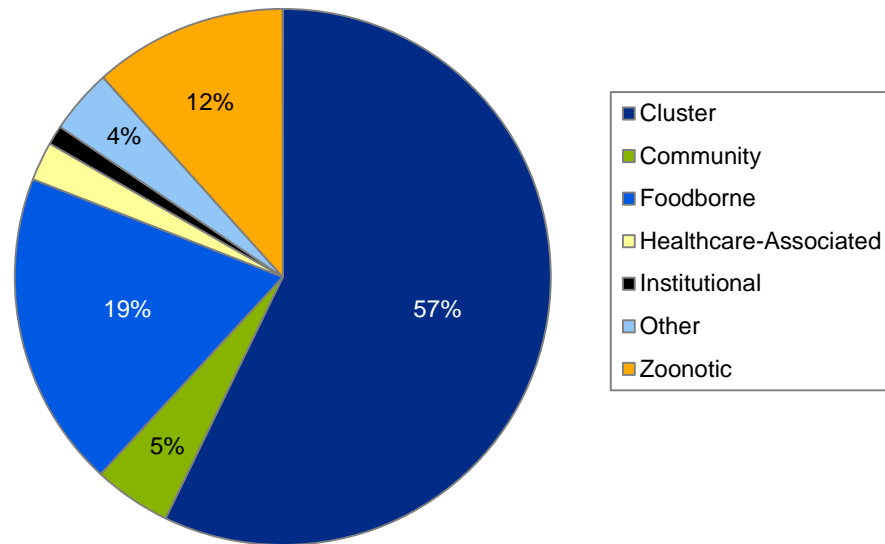
Salmonellosis is an infection with *Salmonella* bacteria often resulting in gastrointestinal illness, but it can also cause sepsis and other localized infections. Approximately 1,300 cases of salmonellosis are reported each year in Ohio. Most cases are not recognized as part of clusters or outbreaks. In 2010, the Ohio Department of Health (ODH) received additional funding from the Centers for Disease Control and Prevention (CDC) to enhance outbreak detection and response to infections of *Salmonella*, Shiga toxin-producing *Escherichia coli* and *Listeria monocytogenes*. This funding has allowed the ODH Laboratory to perform serotyping and pulsed field gel electrophoresis (PFGE) analysis on all *Salmonella* isolates in Ohio. PFGE analysis detects cases with the same genetic fingerprint of *Salmonella* to look for common exposures, which helps identify unrecognized outbreaks. This funding has also enabled the hiring of student interviewers to conduct rapid centralized interviews of cases for local health jurisdictions using a standardized questionnaire. Centralized interviewing by student interviewers began in 2012 with 18 local health jurisdictions covering more than 3.5 million Ohioans (31 percent of Ohio's total population). By the end of 2013, 54 additional jurisdictions opted for centralized interviewing by student interviewers for a total of 72 jurisdictions participating, covering more than 7 million Ohioans (64 percent of Ohio's total population).

The proportion of salmonellosis cases linked to a known cluster or outbreak significantly increased from 4 percent in 2009 to 22 percent in 2013 ($p < 0.0001$) (Figure 3). This steady increase began in 2010 when the additional CDC funding was available to enhance the detection and response to outbreaks. The increase from 14 percent in 2012 to 22 percent in 2013 was also significant ($p < 0.0001$) when the number of jurisdictions participating in central interviewing also substantially increased.



During 2013, 257 cases were linked to 76 clusters and outbreaks. The majority of those cases (57 percent) were linked to clusters where no source was identified followed by foodborne outbreaks, zoonotic outbreaks, community outbreaks, other outbreaks (not in Ohio's jurisdiction), healthcare-associated outbreaks and institutional outbreaks (see Figure 4). Foodborne outbreak vehicles included: chicken, chicken and noodles, cucumbers, ground beef, prime rib with au jus, steak, tahini paste, turkey dressing and unknown food items. Animal sources implicated in the zoonotic outbreaks included: baby poultry (chicks and ducklings), hedgehogs, a puppy, snakes and feeder rodents and small turtles.

Figure 4: Salmonellosis Linked to Clusters/Outbreaks by Type, Ohio, 2013



Source of disease data: Ohio Disease Reporting System.

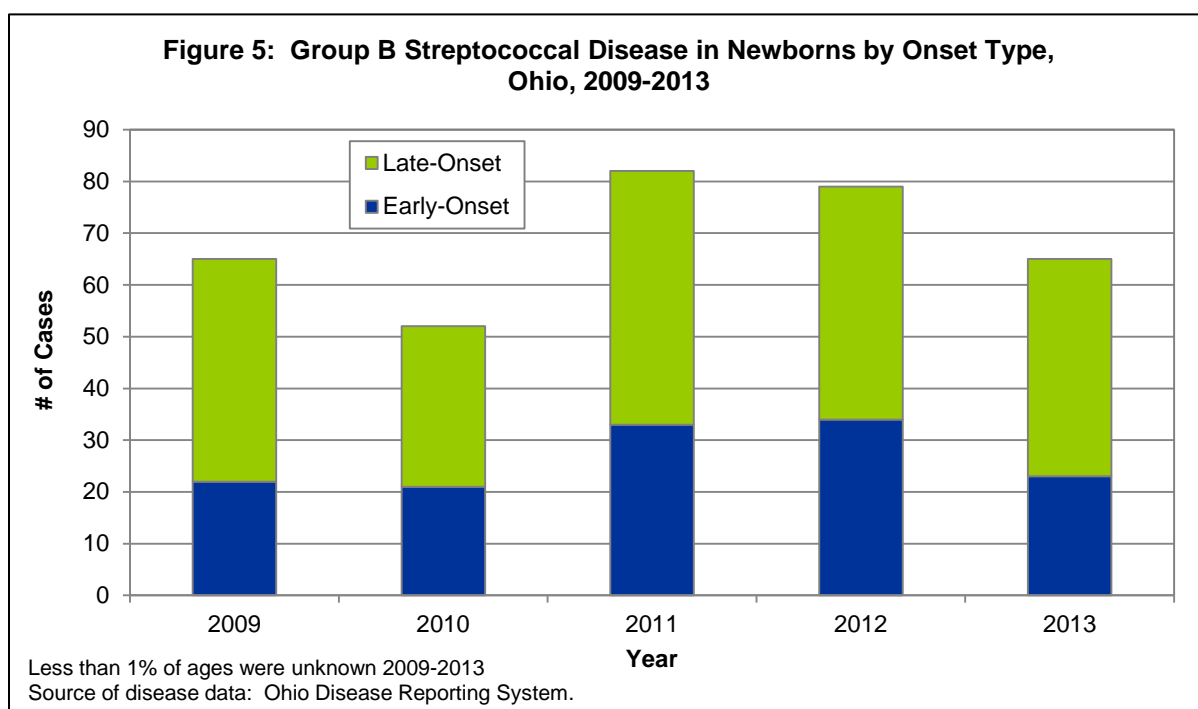
STREPTOCOCCAL DISEASE, GROUP B, IN NEWBORN

<i>Number of cases in 2013:</i>	65	<i>Rate in 2013:</i>	0.5
<i>Number of cases in 2012:</i>	79	<i>Rate in 2012:</i>	0.6

* Rates are based on the U.S. Census births for Ohio and are per 1,000 population.

Group B *Streptococcus* is a type of bacteria commonly found in the digestive tract and birth canal of pregnant women. Group B streptococci can cause systemic and focal infections in infants from birth until three months of age. Disease in young infants is categorized on the basis of chronologic age at onset. Early-onset disease usually occurs within the first 24 hours of life (range: 0-6 days). Late-onset disease occurs between seven days to three months of age.

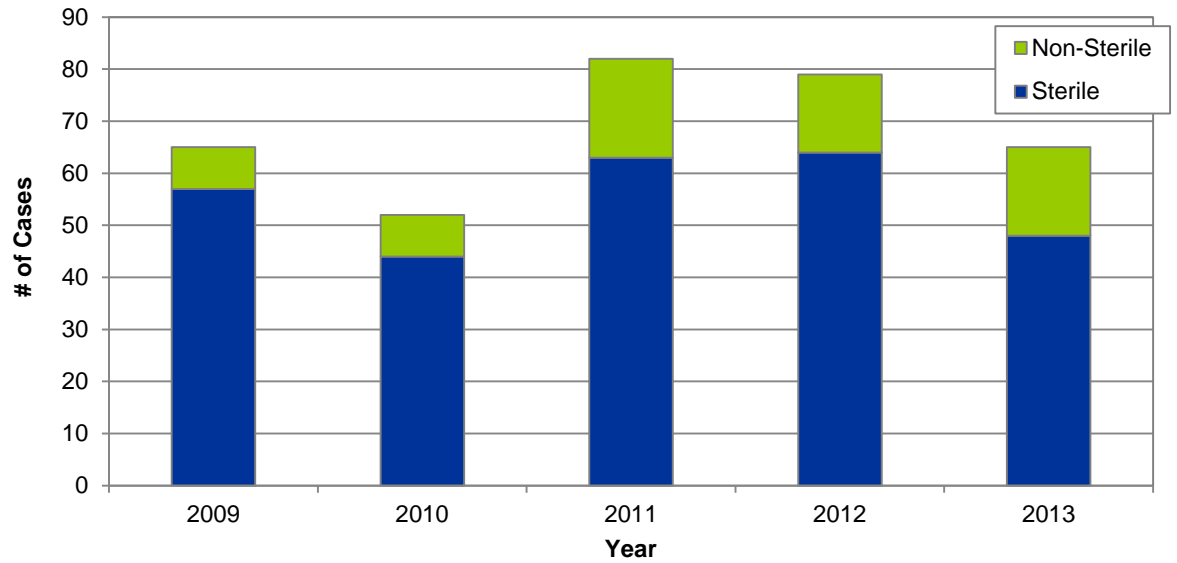
Figure 5 demonstrates the burden of Group B streptococcal infections in Ohio newborns over the past five years by onset type. Over the past five years, higher incidence of infection was observed among infants older than six days of age than infants six days old or less.



Early-onset infections of Group B streptococcal infections may present as signs of systemic infection, respiratory distress, apnea, shock, pneumonia and, less often, meningitis. Late-onset infections commonly manifest as occult bacteremia or meningitis; other focal infections, such as osteomyelitis, septic arthritis, adenitis and cellulitis can occur.

Figure 6 demonstrates the number of cases occurring in sterile sites (blood or cerebrospinal fluid) and non-sterile sites. Over the last five years, 39 percent of cases occurred in infants less than seven days old. Group B *Streptococcus* was isolated from a normally sterile site in 82 percent of early-onset cases. Infections in infants less than seven days old usually occur during the intrapartum period or during delivery. Infection in infants greater than six days of age is through person-to-person contact.

Figure 6: Group B Streptococcal Disease in Newborns by Specimen Type, Ohio, 2009-2013



Source of disease data: Ohio Disease Reporting System.

WATERBORNE DISEASES

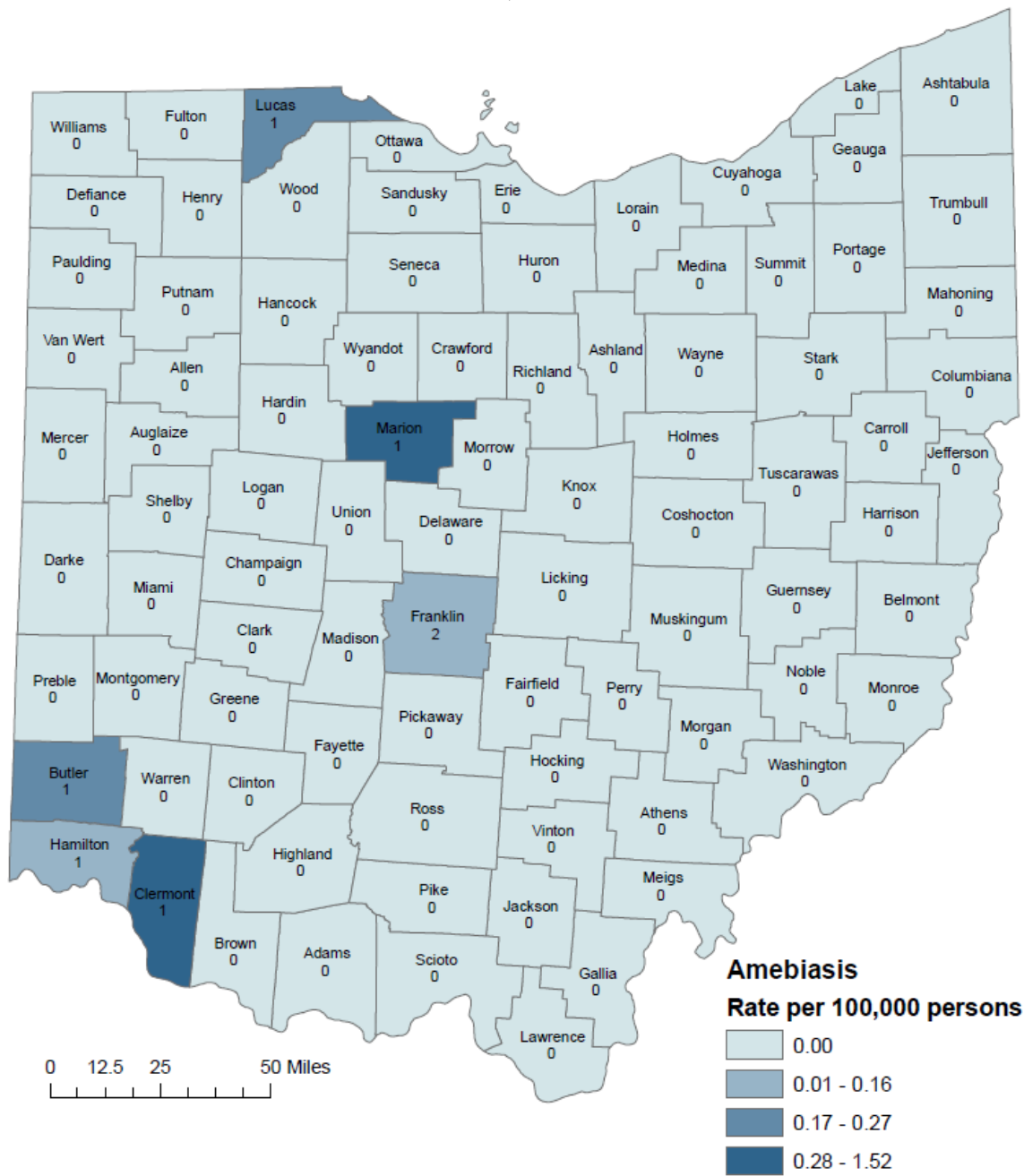
<i>Number of amebiasis cases in 2013:</i>	<i>7</i>	<i>Rate of amebiasis in 2013:</i>	<i>0.1</i>
<i>Number of amebiasis cases in 2012:</i>	<i>11</i>	<i>Rate of amebiasis in 2012:</i>	<i>0.1</i>
<i>Number of cryptosporidiosis cases in 2013:</i>	<i>367</i>	<i>Rate of cryptosporidiosis in 2013:</i>	<i>3.2</i>
<i>Number of cryptosporidiosis cases in 2012:</i>	<i>550</i>	<i>Rate of cryptosporidiosis in 2012:</i>	<i>4.8</i>
<i>Number of cyclosporiasis cases in 2013:</i>	<i>7</i>	<i>Rate of cyclosporiasis in 2013:</i>	<i>0.1</i>
<i>Number of cyclosporiasis cases in 2012:</i>	<i>0</i>	<i>Rate of cyclosporiasis in 2012:</i>	<i>0.0</i>
<i>Number of giardiasis cases in 2013:</i>	<i>505</i>	<i>Rate of giardiasis in 2013:</i>	<i>4.4</i>
<i>Number of giardiasis cases in 2012:</i>	<i>571</i>	<i>Rate of giardiasis in 2012:</i>	<i>4.9</i>
<i>Number of legionellosis cases in 2013:</i>	<i>496</i>	<i>Rate of legionellosis in 2013:</i>	<i>4.3</i>
<i>Number of legionellosis cases in 2012:</i>	<i>288</i>	<i>Rate of legionellosis in 2012:</i>	<i>2.5</i>
<i>Number of vibriosis cases in 2013:</i>	<i>11</i>	<i>Rate of vibriosis in 2013:</i>	<i>0.1</i>
<i>Number of vibriosis cases in 2012:</i>	<i>11</i>	<i>Rate of vibriosis in 2012:</i>	<i>0.1</i>

* Rates are based on the 2010 U.S. Census count and are per 100,000 population.

The following maps present the incidence of selected illnesses that are commonly waterborne (spread via water sources) for Ohio for 2013. The total counts and rates by county are calculated for six illnesses: amebiasis (Figure 7), cryptosporidiosis (Figure 8), cyclosporiasis (Figure 9), giardiasis (Figure 10), legionellosis (Figure 11) and vibriosis (Figure 12).

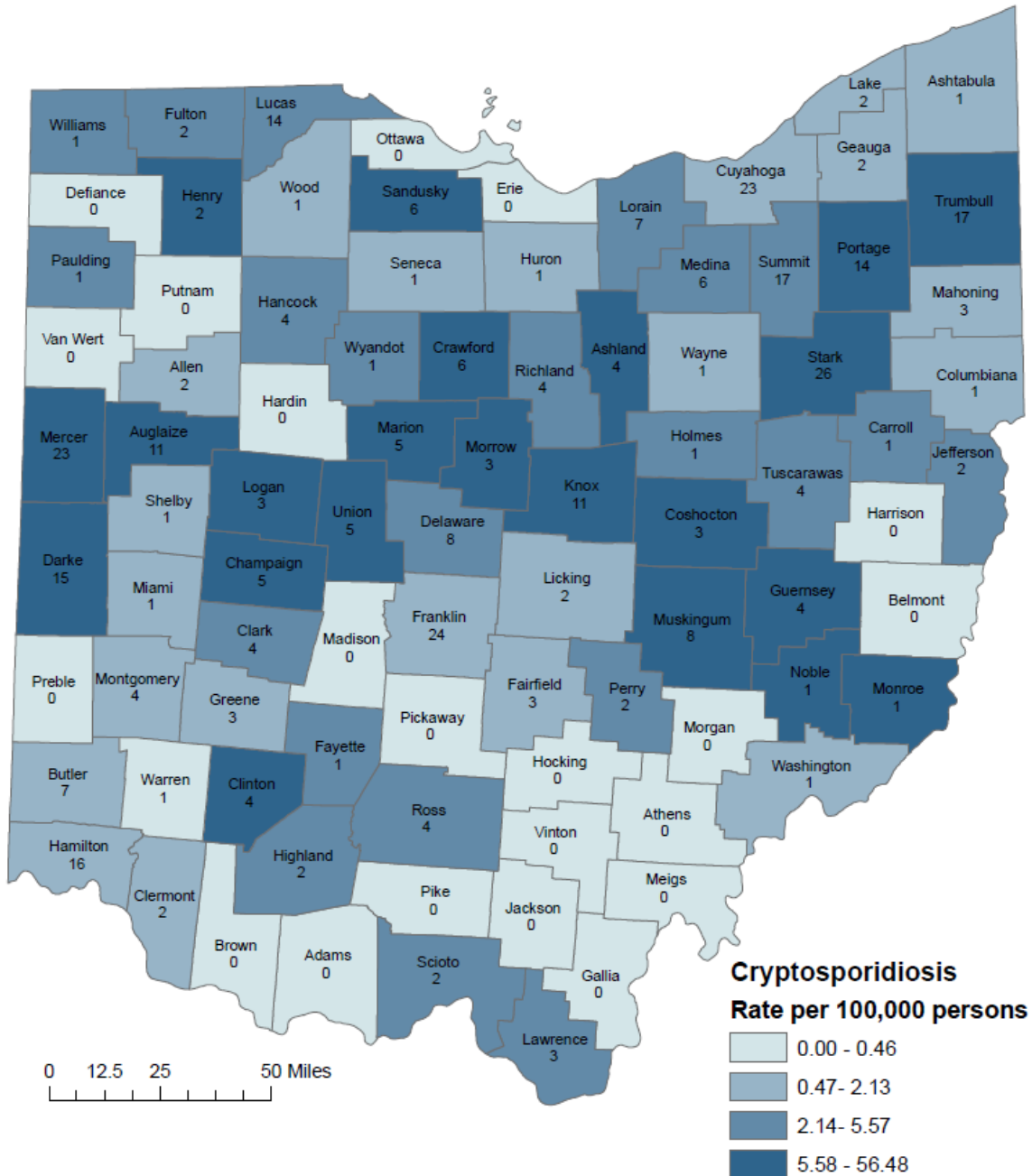
Counts were based on information reported to the Ohio Disease Reporting System (ODRS) for the year 2013. Rates were calculated using census data from the 2010 census of population at the county level. Analysis was conducted using SAS 9.3. Maps were created using ArcMap 10.2.2.

Figure 7: Count and Rate per 100,000 Persons of Amebiasis by County, Ohio, 2013



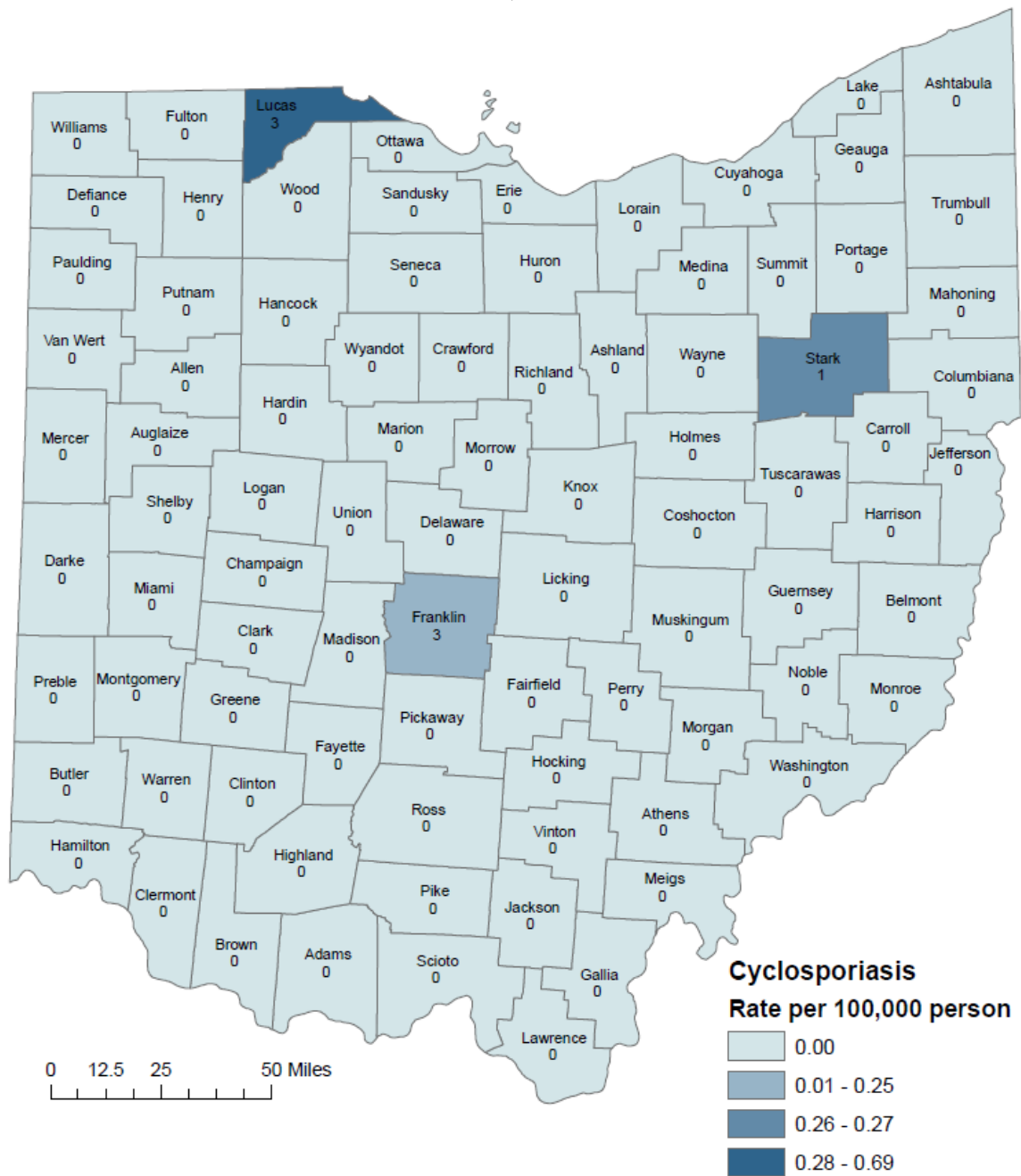
Source of disease data: Ohio Disease Reporting System.

Figure 8: Count and Rate per 100,000 Persons of Cryptosporidiosis by County, Ohio, 2013



Source of disease data: Ohio Disease Reporting System.

Figure 9: Count and Rate per 100,000 Persons of Cyclosporiasis by County, Ohio, 2013



Source of disease data: Ohio Disease Reporting System.

Figure 10: Count and Rate per 100,000 Persons of Giardiasis by County, Ohio, 2013

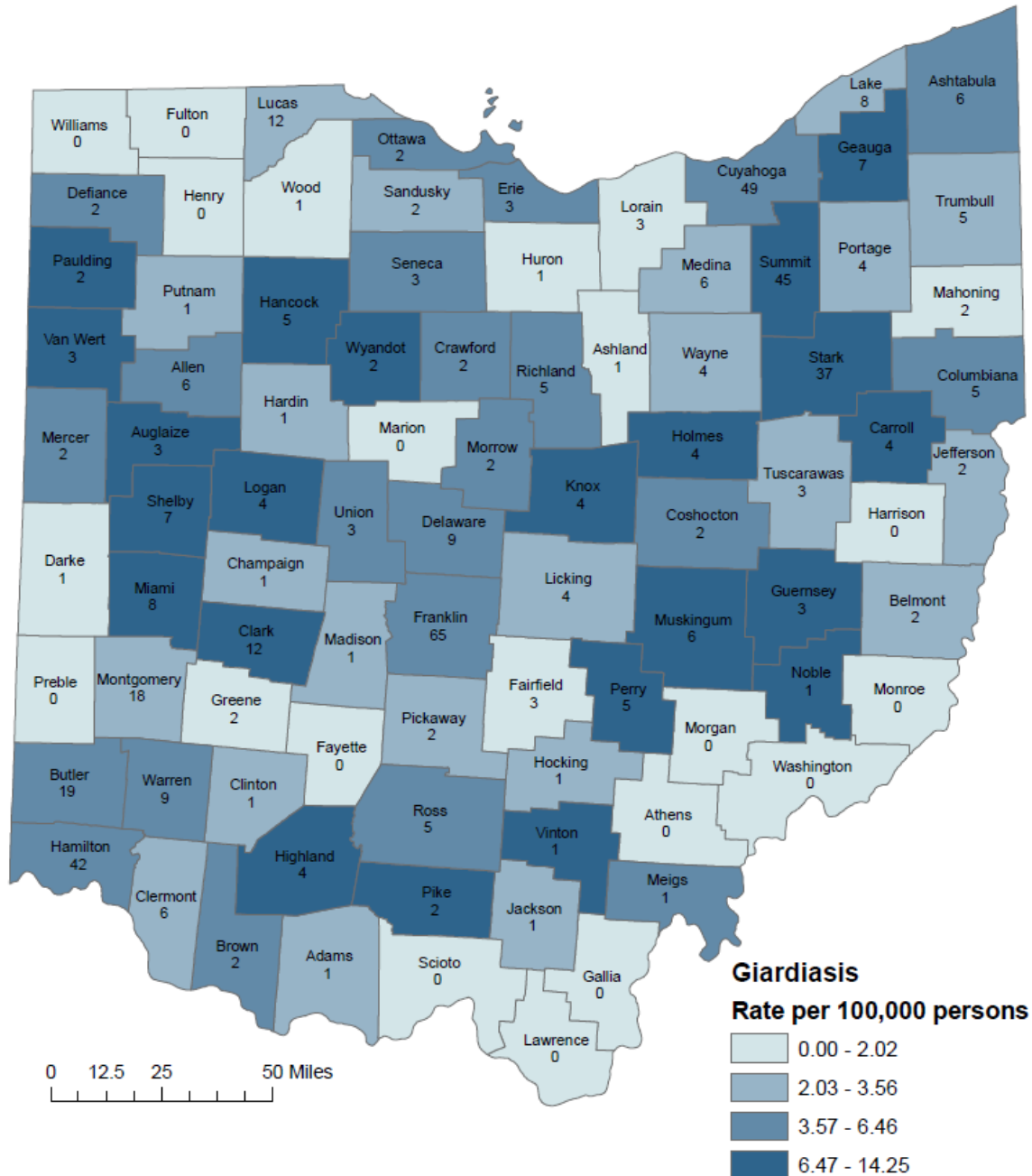
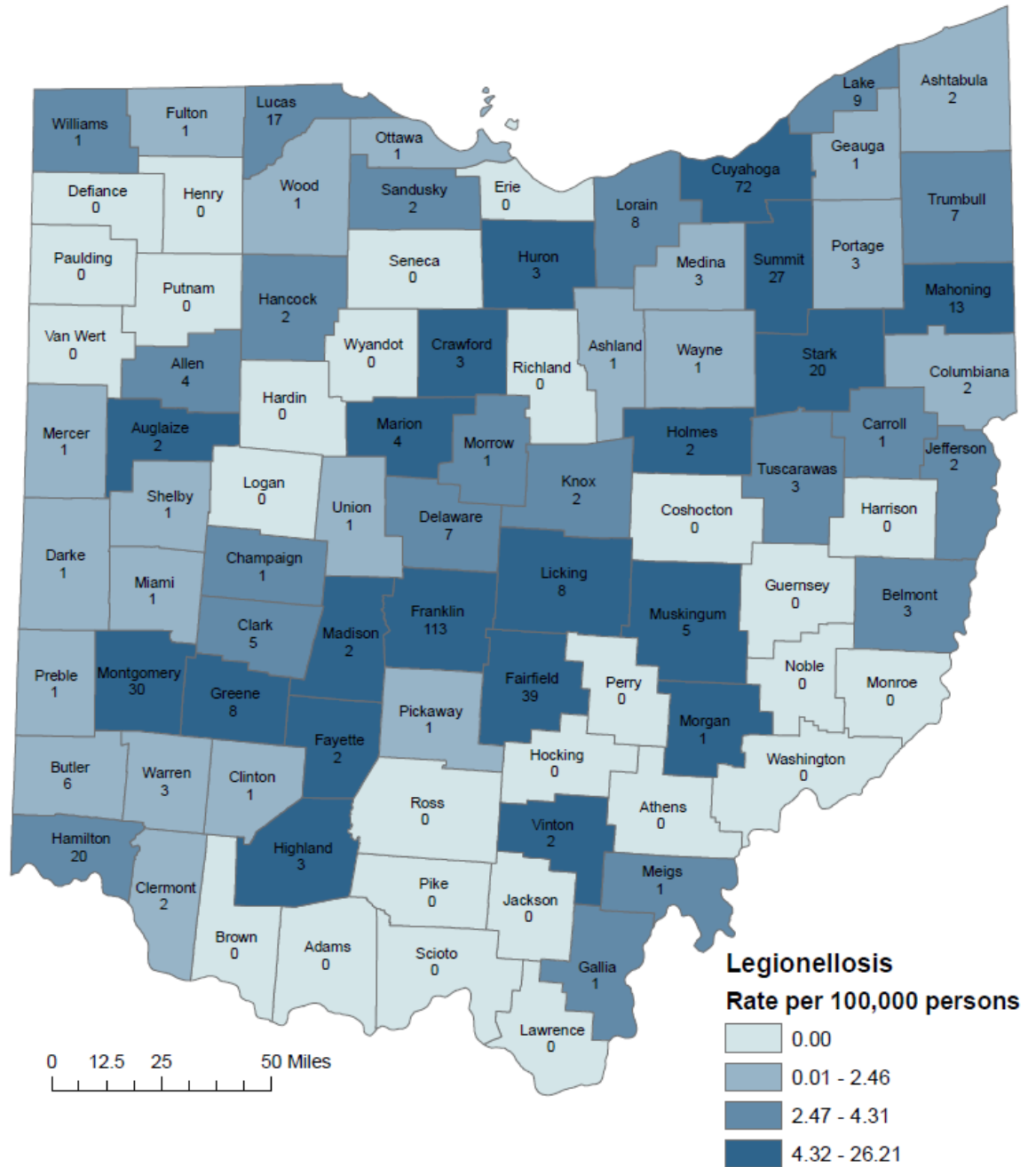
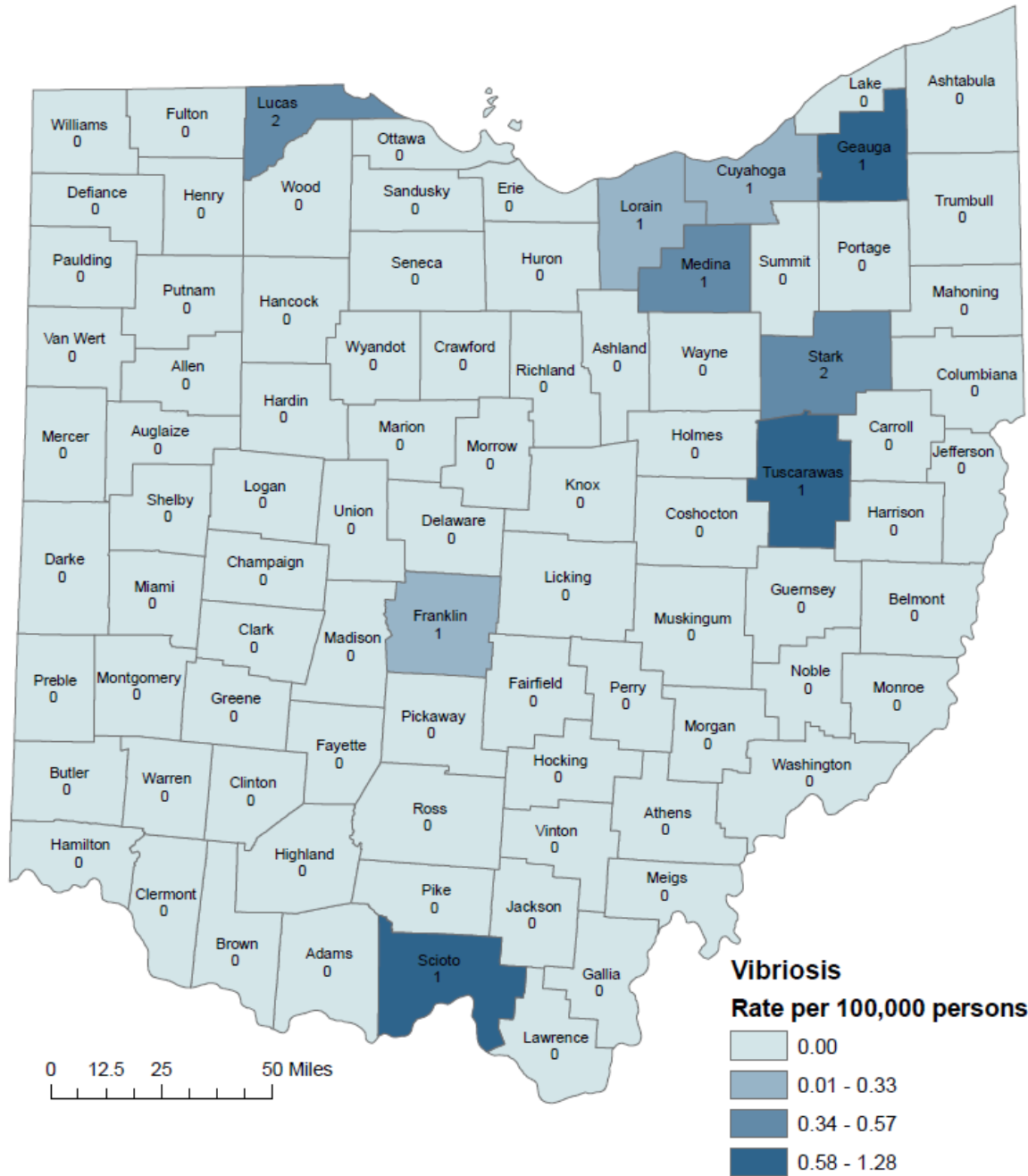


Figure 11: Count and Rate per 100,000 Persons of Legionellosis by County, Ohio, 2013



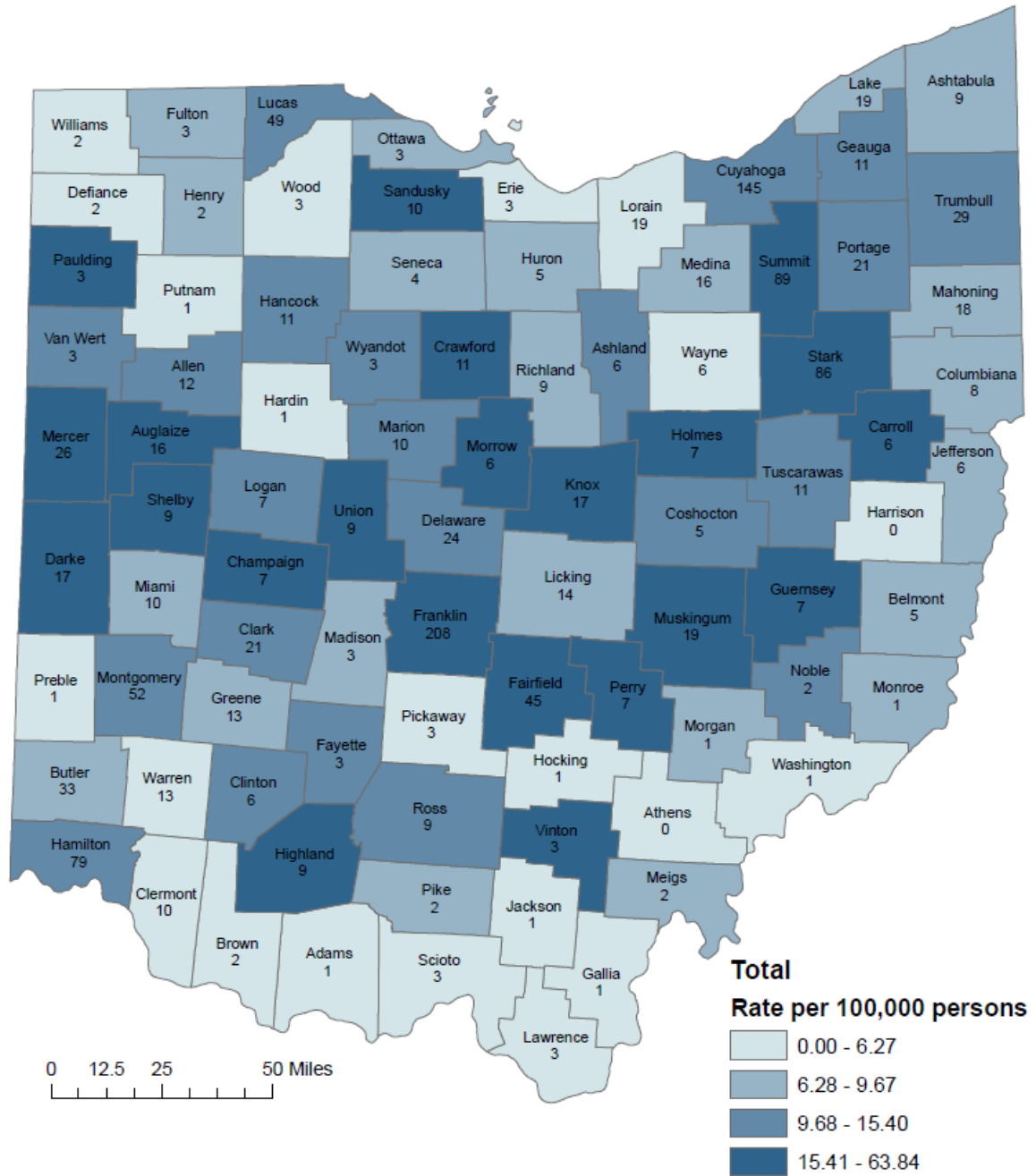
Source of disease data: Ohio Disease Reporting System.

Figure 12: Count and Rate per 100,000 Persons of Vibriosis by County, Ohio, 2013



Source of disease data: Ohio Disease Reporting System.

Figure 13: Count and Rate per 100,000 Persons of Selected Waterborne Diseases* by County, Ohio, 2013



* Selected disease include: amebiasis, cryptosporidiosis, cyclosporiasis, giardiasis, legionellosis and vibriosis.
Source of disease data: Ohio Disease Reporting System.

OUTBREAK SUMMARIES

Starting in 2009, the categories for outbreak reporting changed (see Ohio Administrative Code [Chapter 3701-03](#)). These are referred to as “Class C: Report an outbreak, unusual incidence or epidemic by the end of the next business day.” The categories for outbreak reporting are: community outbreak, foodborne outbreak, healthcare-associated outbreak, institutional outbreak, waterborne outbreak and zoonotic outbreak.

In 2013, the Bureau of Infectious Diseases (BID) assisted local health jurisdictions in Ohio in the investigation of 371 outbreaks. These outbreaks were detected in 61 of 88 counties throughout the state. The number of Ohioans known to be ill from these outbreaks was 6,368 (median 7, range 1-389). The outbreaks were classified as: community (40), foodborne (76), healthcare-associated (84), institutional (153), waterborne (14) and zoonotic (4). Causative agents identified during the outbreak investigations included: *Bacillus cereus*, *Bordetella pertussis*, *Campylobacter jejuni*, *Clostridium difficile*, *Clostridium perfringens*, coxsackievirus, *Cryptosporidium* spp., vancomycin-resistant *Enterococcus*, *Escherichia coli* O26, *Escherichia coli* O111, *Escherichia coli* O121, *Escherichia coli* O157:H7, *Giardia* spp., hepatitis A virus, influenza A virus, influenza B virus, *Legionella pneumophila*, *Listeria monocytogenes*, microcystin, norovirus genotypes GI and GII, *Pediculus capitis* (head louse), *Pseudomonas aeruginosa*, rotavirus, *Salmonella* (various serotypes), sapovirus, *Sarcoptes scabiei* (scabies mite), *Shigella sonnei*, *Staphylococcus aureus*, methicillin-resistant *Staphylococcus aureus* (MRSA), group A *Streptococcus*, *Streptococcus pyogenes* and varicella-zoster virus.

This is the fourth year that norovirus sequencing data has been available in the annual summary. Viral sequencing, as well as most serotyping, was performed at the Ohio Department of Health Laboratory.

Details on the types of 2013 outbreaks are discussed below.

COMMUNITY OUTBREAKS

In 2013, 40 community outbreaks were reported from a variety of settings. Twenty-nine of these outbreaks were confirmed, with the causative agent as follows: *B. pertussis* (9), hepatitis A virus (1), norovirus genotype GI (2), norovirus genotype GII (10), *Salmonella* (2), *S. sonnei* (3), group A *Streptococcus* (1) and varicella-zoster virus (1).

The confirmed community outbreaks of 2013 are listed in Table 1.

Month of Onset	Causative Agent	County	# Ill
December 2012	Norovirus GII.2	Carroll	2
February 2013	Norovirus GII.4 Sydney	Richland	19
February 2013	Norovirus GII.4 Sydney	Lucas	9
February 2013	Norovirus GII.4 Sydney	Franklin	9
February 2013	Norovirus GII.2	Franklin	6
February 2013	<i>Bordetella pertussis</i>	Madison	3
March 2013	Norovirus GII.4 Sydney	Summit	7

Month of Onset	Causative Agent	County	# Ill
March 2013	<i>Salmonella</i> (I) 4,5,12:i:-	Mercer	4
April 2013	Norovirus GII.4 Sydney	Union	5
April 2013	Norovirus GII.4 Sydney	Franklin	4
April 2013	<i>Bordetella pertussis</i>	Franklin	3
April 2013	<i>Bordetella pertussis</i>	Franklin	4
May 2013	<i>Salmonella</i> Enteritidis	Ashtabula	9
June 2013	Norovirus GI.6A	Ashland	5
June 2013	Varicella-Zoster virus	Auglaize	6
July 2013	<i>Shigella sonnei</i>	Summit	10
July 2013	<i>Bordetella pertussis</i>	Clark	5
July 2013	<i>Bordetella pertussis</i>	Franklin	4
August 2013	Norovirus GII.6B	Van Wert	8
August 2013	<i>Bordetella pertussis</i>	Clark	25
September 2013	Group A <i>Streptococcus</i>	Summit	2
September 2013	<i>Shigella sonnei</i>	Stark	60
September 2013	Hepatitis A virus	Lake	7
September 2013	<i>Bordetella pertussis</i>	Pickaway	11
October 2013	Norovirus GII.7	Franklin	4
October 2013	<i>Bordetella pertussis</i>	Franklin	5
October 2013	<i>Bordetella pertussis</i>	Franklin	3
November 2013	Norovirus GI.3B	Franklin	54
November 2013	<i>Shigella sonnei</i>	Stark	9

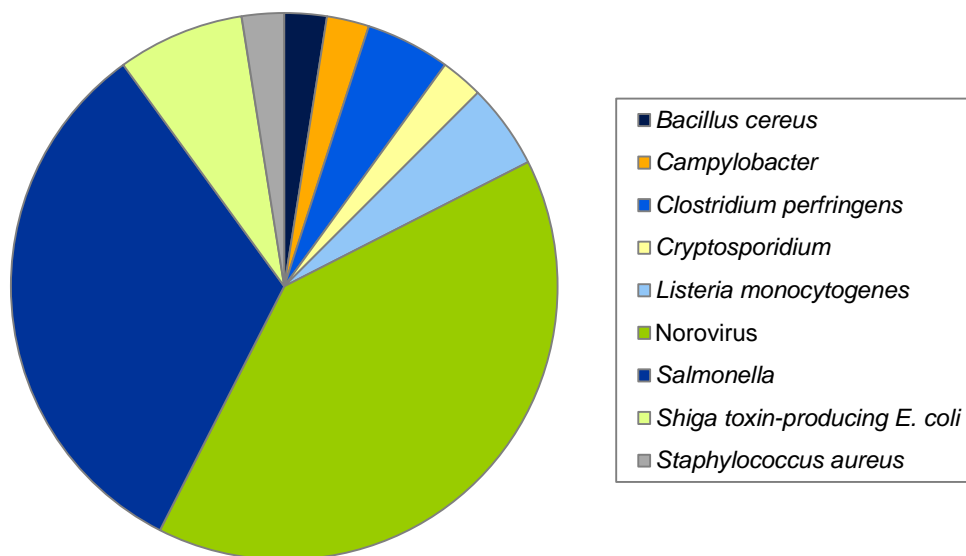
Source of outbreak data: Ohio Disease Reporting System.

FOODBORNE OUTBREAKS

In 2013, 40 of the 76 foodborne outbreaks reported were confirmed. Seventy-six outbreaks in Ohio 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.” (Some outbreaks with one person ill are multi-state outbreaks.) The 40 confirmed outbreaks also met the agent-specific [criteria for confirmation](#) of outbreaks. As shown in Figure 1, for these 40 foodborne outbreaks, the causative agent was distributed as follows: *Bacillus cereus* (1), *Campylobacter* spp. (1), *Clostridium perfringens* (2), *Cryptosporidium* spp. (1), *E. coli* O26 (1), *E. coli* O121 (1), *E. coli* O157:H7 (1), *Listeria monocytogenes* (2), Norovirus GI (3), Norovirus GII (13), *Salmonella* spp. (13) and *Staphylococcus aureus* (1).

Neither individual cases nor outbreaks of foodborne botulism were reported in 2013 in Ohio.

Figure 1: Confirmed Foodborne Outbreaks by Etiologic Agent, Ohio, 2013



Source of outbreak data: Ohio Disease Reporting System.

The 40 confirmed foodborne outbreaks are detailed in Table 2.

Table 2: Confirmed Foodborne Outbreaks, Ohio, 2013

Month of Onset	Causative Agent	County	# Ill	Suspected Food Vehicle	Event / Setting
January 2013	<i>Staphylococcus aureus</i>	Champaign	33	Chicken and barley	Group dinner
January 2013	Norovirus GII.4 Sydney	Franklin	10	Refried beans and rice	Restaurant
February 2013	Norovirus GII.4 Sydney	Cuyahoga	66	Unknown	Dinner at retreat house
February 2013	Norovirus GII.2	Franklin	3	Unknown	Restaurant
February 2013	Norovirus GII.4 Sydney	Sandusky	25	Fried chicken	Restaurant
February 2013	Norovirus GII.4 Sydney	Franklin	12	Unknown	Restaurant
February 2013	<i>Salmonella</i> Saint Paul	Multistate	3	Cucumbers	Commercial product
February 2013	<i>Escherichia coli</i> O121	Multistate	6	Farm Rich frozen foods	Commercial product
March 2013	Norovirus GII.4 Sydney	Clermont	34	Unknown	Restaurant
March 2013	<i>Clostridium perfringens</i>	Stark	17	Roast beef	Catered party
March 2013	Norovirus GII.4 Sydney	Clark	6	Steak, egg, cheese biscuit	Restaurant
May 2013	Norovirus GII.4 Sydney	Summit	6	Salads	Restaurant
May 2013	Norovirus GI.6A	Medina	28	Taco bar	Teacher luncheon

Month of Onset	Causative Agent	County	# Ill	Suspected Food Vehicle	Event / Setting
May 2013	<i>Salmonella</i> Enteritidis	Athens	7	Unknown	Restaurant
May 2013	<i>Escherichia coli</i> O26	Multistate	1	Unknown	Restaurant
May 2013	<i>Salmonella</i> Heidelberg	Franklin	2	Chicken and noodles	Senior meals agency
June 2013	<i>Clostridium perfringens</i>	Summit	7	Sandwiches	Catered event
June 2013	Norovirus GII.4 Sydney	Lucas	2	Unknown	Restaurant
June 2013	<i>Listeria monocytogenes</i>	Cuyahoga	1	Crave Brothers cheese	Commercial product
June 2013	<i>Salmonella</i> Enteritidis	Lorain	2	Unknown	Reception held at home
June 2013	<i>Salmonella</i> Muenchen	Cuyahoga	7	Unknown	Private home
June 2013	<i>Listeria monocytogenes</i>	Multistate	1	Parsley	Commercial product
June 2013	<i>Escherichia coli</i> O157	Multicounty	5	Salad bar	Restaurant
July 2013	<i>Salmonella</i> Enteritidis	Franklin	2	Unknown	Restaurant
July 2013	Norovirus GII.6B	Delaware	4	Salad, guacamole	Restaurant
July 2013	<i>Salmonella</i> Montevideo	Multistate	1	Krinos tahini paste	Commercial product
August 2013	<i>Salmonella</i> Enteritidis	Summit	5	Unknown	Restaurant
August 2013	<i>Salmonella</i> Braenderup	Franklin	5	Unknown	Catered picnic
September 2013	<i>Campylobacter</i> spp.	Delaware	15	Unknown	Private home
September 2013	Norovirus GI.6A	Erie	97	Unknown	Conference at resort
September 2013	<i>Salmonella</i> (I) 4,5,12:i:-	Fulton	32	Prime rib	Restaurant
September 2013	<i>Cryptosporidium</i> spp.	Darke	8	Raw cider	Farm market
October 2013	<i>Salmonella</i> (I) 4,5,12:i:-	Hancock	3	Ground beef, toppings	Restaurant
October 2013	<i>Salmonella</i> Lomalinda	Franklin	2	Undercooked burger	Restaurant
November 2013	Norovirus GII.4 Sydney	Sandusky	7	Hamburger	Restaurant
November 2013	Norovirus GI.3B	Hamilton	6	Unknown	Restaurant
November 2013	Norovirus GII.6A	Lucas	16	Unknown	Restaurant
November 2013	<i>Salmonella</i> Typhimurium	Lucas	2	Turkey, dressing	Private home
December 2013	Norovirus GII.6B	Putnam	43	Salad bar	Restaurant
December 2013	<i>Bacillus cereus</i>	Ottawa	5	Landjaeger sausage	Commercial product

Source of outbreak data: Ohio Disease Reporting System.

Here are links to the outbreak reports for some of the foodborne multistate outbreaks:

[Multistate Outbreak of *Salmonella* Saintpaul Infections Linked to Imported Cucumbers](#)

[Multistate Outbreak of *Salmonella* Montevideo and *Salmonella* Mbandaka Infections Linked to Tahini Sesame Paste](#) (Ohio's case was identified after the CDC's final report was posted.)

[Multistate Outbreak of Shiga Toxin-Producing *Escherichia coli* O121 Infections Linked to Farm Rich Brand Frozen Food Products](#)

[Multistate Outbreak of Listeriosis Linked to Crave Brothers Farmstead Cheeses](#)

HEALTHCARE-ASSOCIATED OUTBREAKS

There were 84 healthcare-associated outbreaks reported in 2013, 44 of which were confirmed as shown in Table 3.

Table 3: Confirmed Healthcare-Associated Outbreaks, Ohio, 2013

Month of Onset	Causative Agent	# Ill	Setting
December 2012	Influenza A H3 virus	5	Extended care facility
December 2012	Influenza A virus (no subtype reported)	8	Long-term care facility
December 2012	Influenza A H3 virus	21	Extended care facility
December 2012	Norovirus GII.4 Sydney	41	Long-term care facility
December 2012	Norovirus GII.4 Sydney	62	Long-term care facility
December 2012	Norovirus GII.4 Sydney	102	Long-term care facility
January 2013	Influenza A virus (no subtype reported)	12	Skilled nursing facility
January 2013	Influenza A virus (no subtype reported)	27	Long-term care facility
January 2013	Influenza virus	33	Long-term care facility
January 2013	Norovirus GII.4 New Orleans	36	Long-term care facility
January 2013	Norovirus GII.4 Sydney	41	Long-term care facility
January 2013	Norovirus GII.4 Sydney	42	Long-term care facility
January 2013	Norovirus GII.4 Sydney	52	Long-term care facility
January 2013	Norovirus GII.4 Sydney	65	Long-term care facility
February 2013	<i>Salmonella</i> Poona	2	Long-term care facility
February 2013	<i>Clostridium difficile</i>	5	MRDD facility
February 2013	Influenza A H3 virus	6	Long-term care facility
February 2013	Norovirus GII.4 Sydney	11	Long-term care facility
February 2013	Norovirus GII.4 Sydney	14	Hospital
February 2013	Norovirus GII.4 Sydney	24	Long-term care facility
February 2013	Norovirus GII.4 Sydney	38	Long-term care facility
February 2013	Norovirus GII.4 Sydney	38	Long-term care facility
February 2013	Norovirus GII.4 Sydney	38	Mental health facility
February 2013	Norovirus GII.4 Sydney	42	Retirement community
February 2013	Norovirus GII.4 Sydney	45	Long-term care facility
February 2013	Norovirus GII.4 Sydney	55	Group home for developmentally disabled
March 2013	Norovirus GII.4 Sydney	12	Behavioral health facility
March 2013	Norovirus GII.2	19	Long-term care facility
March 2013	Norovirus GII	34	Long-term care facility
March 2013	Norovirus GII.4 New Orleans	35	Long-term care facility
March 2013	Norovirus GII.4 Sydney	36	Long-term care facility
March 2013	Norovirus GII.4 Sydney	38	Long-term care facility
March 2013	Norovirus GII.4 Sydney	65	Long-term care facility
March 2013	Norovirus GI.6A	71	Long-term care facility
April 2013	Influenza B virus	14	Long-term care facility
April 2013	Norovirus (genotype unknown)	17	Hospital
April 2013	Norovirus GII.4 Sydney	24	Long-term care facility

Month of Onset	Causative Agent	# Ill	Setting
April 2013	Norovirus GII.4 Sydney	25	Long-term care facility
April 2013	Norovirus GII.4 Sydney	88	Long-term care facility
June 2013	Vancomycin-resistant <i>Enterococcus</i>	2	Hospital
July 2013	<i>Sarcoptes scabiei</i>	5	Long-term care facility
October 2013	<i>Salmonella</i> Typhimurium	4	Home care agency
October 2013	Norovirus GI.3B	51	Long-term care facility
November 2013	<i>Sarcoptes scabiei</i>	5	Long-term care facility

Source of outbreak data: Ohio Disease Reporting System.

INSTITUTIONAL OUTBREAKS

In 2013, 153 institutional outbreaks were reported. Of these, 99 were confirmed. See Table 4 below for the confirmed institutional outbreaks.

Table 4: Confirmed Institutional Outbreaks, Ohio, 2013

Month of Onset	Causative Agent	County	# Ill	Setting
October 2012	<i>Bordetella pertussis</i>	Franklin	2	School
October 2012	<i>Bordetella pertussis</i>	Franklin	2	School
October 2012	Varicella-Zoster virus	Ross	12	Correctional facility
November 2012	<i>Bordetella pertussis</i>	Franklin	5	School
November 2012	<i>Bordetella pertussis</i>	Hamilton	2	School
December 2012	<i>Bordetella pertussis</i>	Franklin	2	School
January 2013	Methicillin-resistant <i>Staphylococcus aureus</i>	Ashland	8	School
January 2013	Norovirus GII.4 Sydney	Hamilton	66	Independent living facility
January 2013	Norovirus GII.4 Sydney	Crawford	35	Assisted living facility
January 2013	<i>Bordetella pertussis</i>	Franklin	2	School
January 2013	<i>Bordetella pertussis</i>	Franklin	4	School
January 2013	Varicella-Zoster virus	Athens	5	School
January 2013	<i>Bordetella pertussis</i>	Franklin	5	School
January 2013	Influenza virus	Hamilton	33	Assisted living facility
February 2013	Norovirus GII.4 Sydney	Medina	30	Assisted living facility
February 2013	<i>Shigella sonnei</i>	Delaware	8	Day care center
February 2013	<i>Campylobacter</i> spp. And Norovirus GII.2	Licking	6	Day care center
February 2013	Norovirus GII and GI.3B	Medina	41	Assisted living facility
February 2013	Norovirus GII.13	Delaware	85	Assisted living facility
February 2013	<i>Bordetella pertussis</i>	Franklin	3	School
February 2013	<i>Bordetella pertussis</i>	Franklin	3	School

Month of Onset	Causative Agent	County	# Ill	Setting
March 2013	Norovirus GII.4 Sydney	Marion	10	Assisted living facility
March 2013	Norovirus GII.4 Sydney	Butler	32	Assisted living facility
March 2013	Rotavirus and Norovirus GII.4 Sydney	Fairfield	22	Assisted living facility
March 2013	Norovirus GI.3B	Franklin	5	Day care center
March 2013	Sapovirus and Rotavirus	Franklin	33	Day care center
March 2013	<i>Shigella sonnei</i> and Norovirus GII.2	Licking	27	Day care center
March 2013	Norovirus GII.4 Sydney	Cuyahoga	40	Assisted living facility
March 2013	Norovirus GI.4	Cuyahoga	24	Assisted living facility
April 2013	Norovirus GII.4 Sydney	Ashtabula	62	Assisted living facility
April 2013	Norovirus GII.4 Sydney	Union	69	Correctional facility
May 2013	Norovirus GII.4 Sydney	Miami	20	Assisted living facility
May 2013	<i>Bordetella pertussis</i>	Portage	3	School
May 2013	<i>Bordetella pertussis</i>	Franklin	3	School
May 2013	<i>Bordetella pertussis</i>	Summit	3	School
May 2013	<i>Bordetella pertussis</i>	Franklin	4	School
May 2013	<i>Bordetella pertussis</i>	Franklin	3	School
June 2013	Norovirus GI.6A	Franklin	20	Day care center
June 2013	Sapovirus	Licking	4	Day care center, summer camp
June 2013	<i>Bordetella pertussis</i>	Portage	2	School
July 2013	<i>Shigella sonnei</i>	Clark	11	Day care center
July 2013	<i>Clostridium difficile</i>	Ottawa	4	MRDD facility
July 2013	<i>Shigella sonnei</i>	Franklin	3	Day care center
July 2013	<i>Pediculus capitis</i> (head louse)	Union	40	Correctional facility
July 2013	<i>Escherichia coli</i> O111	Franklin	5	Day care center
July 2013	<i>Bordetella pertussis</i>	Franklin	3	School
August 2013	<i>Bordetella pertussis</i>	Franklin	3	School
August 2013	<i>Bordetella pertussis</i>	Franklin	35	School
August 2013	<i>Bordetella pertussis</i>	Butler	2	School
September 2013	Coxsackie virus	Franklin	17	Day care center
September 2013	<i>Pediculus capitis</i> (head louse)	Stark	11	School
September 2013	<i>Shigella sonnei</i>	Cuyahoga	5	Day care center
September 2013	<i>Giardia</i> spp.	Franklin	3	Day care center
September 2013	<i>Bordetella pertussis</i>	Madison	33	School
September 2013	Varicella-Zoster virus	Madison	7	School
September 2013	<i>Bordetella pertussis</i>	Franklin	7	School
September 2013	<i>Bordetella pertussis</i>	Clermont	2	School
September 2013	<i>Bordetella pertussis</i>	Franklin	11	School
September 2013	<i>Bordetella pertussis</i>	Hamilton	5	School

Month of Onset	Causative Agent	County	# Ill	Setting
September 2013	<i>Bordetella pertussis</i>	Hamilton	5	School
September 2013	<i>Bordetella pertussis</i>	Hamilton	2	School
September 2013	<i>Bordetella pertussis</i>	Hamilton	4	Day care center
October 2013	<i>Shigella sonnei</i>	Hamilton	13	Day care center
October 2013	<i>Shigella sonnei</i>	Summit	6	Day care center
October 2013	<i>Bordetella pertussis</i>	Hamilton	12	School
October 2013	<i>Bordetella pertussis</i>	Lucas	9	School
October 2013	<i>Bordetella pertussis</i>	Hamilton	2	School
October 2013	<i>Bordetella pertussis</i>	Franklin	5	School
October 2013	<i>Bordetella pertussis</i>	Clermont	8	School
October 2013	<i>Bordetella pertussis</i>	Clermont	4	School
October 2013	<i>Bordetella pertussis</i>	Franklin	7	School
October 2013	<i>Bordetella pertussis</i>	Franklin	6	School
October 2013	<i>Bordetella pertussis</i>	Franklin	10	School
October 2013	<i>Bordetella pertussis</i>	Clermont	8	School
October 2013	<i>Bordetella pertussis</i>	Hamilton	2	School
October 2013	<i>Bordetella pertussis</i>	Clermont	5	School
October 2013	<i>Bordetella pertussis</i>	Clinton	18	School
October 2013	<i>Bordetella pertussis</i>	Hamilton	5	School
October 2013	<i>Bordetella pertussis</i>	Clermont	4	School
October 2013	<i>Bordetella pertussis</i>	Hamilton	5	School
October 2013	<i>Bordetella pertussis</i>	Hamilton	4	School
November 2013	Norovirus GI.3B	Franklin	49	Correctional facility
November 2013	<i>Pediculus capitis</i> (head louse)	Cuyahoga	8	School
November 2013	<i>Sarcoptes scabiei</i>	Cuyahoga	7	Drug rehab facility
November 2013	<i>Shigella sonnei</i>	Cuyahoga	18	Day care center
November 2013	<i>Bordetella pertussis</i>	Franklin	4	School
November 2013	<i>Bordetella pertussis</i>	Hamilton	6	School
November 2013	<i>Bordetella pertussis</i>	Franklin	2	School
November 2013	<i>Bordetella pertussis</i>	Clermont	11	School
November 2013	<i>Bordetella pertussis</i>	Clermont	3	School
November 2013	<i>Bordetella pertussis</i>	Franklin	5	School
November 2013	<i>Bordetella pertussis</i>	Clermont	4	School
November 2013	<i>Bordetella pertussis</i>	Clermont	2	School
November 2013	<i>Bordetella pertussis</i>	Franklin	5	School
November 2013	<i>Bordetella pertussis</i>	Hamilton	5	School
November 2013	<i>Bordetella pertussis</i>	Clermont	2	School
December 2013	Norovirus GII.4 Sydney	Erie	10	Assisted living facility
December 2013	<i>Streptococcus pyogenes</i>	Franklin	3	School
December 2013	<i>Bordetella pertussis</i>	Hamilton	5	School

Source of outbreak data: Ohio Disease Reporting System.

WATERBORNE OUTBREAKS

In 2013, 14 waterborne outbreaks were reported. The 13 confirmed and probable waterborne outbreaks are detailed in Table 5.

Table 5: Confirmed and Probable Waterborne Outbreaks, Ohio, 2013

Month of Onset	Causative Agent	County	# Ill	Setting
November 2012	<i>Legionella pneumophila</i>	Franklin	7	Long-term care facility
December 2012	<i>Legionella pneumophila</i>	Franklin	2	Long-term care facility
December 2012	<i>Pseudomonas aeruginosa</i>	Huron	4	Hotel jacuzzi
March 2013	<i>Legionella pneumophila</i>	Cuyahoga	2	Hospital
April 2013	<i>Legionella pneumophila</i>	Holmes	2	Long-term care facility
April 2013	<i>Pseudomonas aeruginosa</i>	Franklin	5	Hotel hot tub
June 2013	<i>Legionella pneumophila</i>	Franklin	39	Retirement community
June 2013	<i>Legionella pneumophila</i>	Butler	11	Hot tub at private residence
June 2013	<i>Legionella pneumophila</i>	Franklin	4	Hospital
July 2013	<i>Legionella pneumophila</i>	Franklin	3	Hospital
July 2013	<i>Legionella pneumophila</i>	Auglaize	3	Manufacturing plant
July 2013	<i>Legionella pneumophila</i>	Franklin	2	Facility for developmentally disabled
September 2013	Microcystin	Ottawa	6	Township drinking water

Source of outbreak data: Ohio Disease Reporting System.

ZOONOTIC OUTBREAKS

In 2013, 4 zoonotic outbreaks were reported, as seen in Table 6.

Table 6: Confirmed Zoonotic Outbreaks, Ohio, 2013

Month of Onset	Causative Agent	County	# Ill	Type of Animal
February 2013	<i>Salmonella</i> (I) 4,5,12:i:-	Multistate	1	Reptiles and rodents
March 2013	<i>Salmonella</i> Infantis, Lille, Mbandaka, Newport	Multistate	22	Baby poultry
May 2013	<i>Campylobacter jejuni</i>	Franklin	11	Puppies in pet store
October 2013	<i>Salmonella</i> Typhimurium, <i>Campylobacter</i> spp.	Hamilton	6	Puppies in private home

Here are links to the outbreak reports for the zoonotic multistate outbreaks:

[Multistate Outbreak of Human *Salmonella* Infections Linked to Live Poultry](#)

Please refer to the Technical Notes (pp. 100-103) for additional information on the outbreak data.

PROFILES OF SELECTED HEALTH EVENTS DETECTED IN EPICENTER

Syndromic surveillance is the classification of healthcare visits into syndrome or symptom categories to identify and characterize events of public health importance. In partnership with local health departments, the Ohio Department of Health has been analyzing chief complaint data from over 6 million annual healthcare visits transmitted by emergency departments and urgent care centers from around the state for over a decade. In most cases, data is also captured when an Ohio resident visits an emergency department in a neighboring state. Some examples of past health events where syndromic surveillance was used for situation awareness include infectious disease outbreaks, injuries when hurricane Ike (2008) passed through the state, seasonal and pandemic influenza surveillance and heat-related illness. Previous cluster detections include scabies, occupational exposures and carbon monoxide poisonings. The data is made available to over 500 authorized users at Ohio's local health departments and hospitals. State and local health departments investigate identified anomalies in the syndromic surveillance data and actively seek information for situational awareness during a health event.

Healthcare visit information is received in real-time or near real-time and includes chief complaint, basic de-identified demographic information and sometimes diagnosis and discharge disposition. The data is accessible in a web application called EpiCenter. EpiCenter automatically alerts system users to unusual trends and patterns in the data that may indicate a potential health event. The system also manages the syndrome classifications, anomaly records, investigation information and displays anomaly analytics, maps and subscription of automated alerting for users.

Classification of chief complaint data occurs by both syndrome and symptom category. These classifications have been developed to detect acute health events. State and local health departments review the syndrome and symptom anomalies, and if appropriate, investigate with the submitting facilities. The anomaly is then categorized into one of ten final dispositions to indicate whether it is related to a health event or a random occurrence. Anomalies that were determined to be duplicates or an incomplete assessment were excluded (see Technical Notes). Table 1 illustrates the final distribution of syndromic surveillance anomalies for 2013. A new disposition, "severe weather event," was added as an option for 2013. Comparisons of anomaly counts and percentages between years should not be made due to high variability of the data, classifier definition changes, circulating viruses, man-made and natural outbreaks and methods of analysis.

Table 1: Distribution of EpiCenter Anomalies, Ohio, 2013

Anomaly Disposition*	# of Events	% of Events
Environmental health event	10	0.4
Naturally occurring disease outbreak	22	0.9
Seasonal illness health event	795	34.5
Severe weather event	2	0.1
Other health event	125	5.4
Not a health event	325	14.1
Data error (facility or EpiCenter)	14	0.6
Unknown health event	78	3.4
Indeterminate	936	40.6
Total	2,307	100.0

Source of data: Ohio Department of Health Public Health Informatics & Vaccine-Preventable Disease Epidemiology Unit.

* Please see Technical Notes.

Multiple algorithms for syndromes and symptoms creates potential overlaps for the detection of health events. This overlap increases the odds of detecting a health event, but also creates duplicates (same or similar patient lists over the same or similar time period). Grouped anomalies were reclassified to provide a greater consistency of the reported events (see Technical Notes). Forty percent of the 2013 anomalies were classified as indeterminate in assessing if there was a health event (Table 1). Of the other dispositions, "Seasonal illness health event" then "Not a health event" had the second and third highest frequencies, respectively. The distribution across county and state geopolitical boundaries are highlighted in Table 2. The number of facilities, algorithm requirements and population size in some counties are certainly factors in the number and distribution of anomalies generated (Table 2). Some health events are seasonal in nature, like influenza in December and first quarter of the calendar year and respiratory illnesses associated with the start of grade-school (Table 3).

Table 2: Distribution of EpiCenter Anomalies by Jurisdiction, Ohio, 2013*

Jurisdiction	Environmental Health Event	Naturally Occurring Disease Outbreak	Seasonal Illness Health Event	Severe Weather Event	Other Health Event	Not a Health Event	Data Error (Facility or EpiCenter)	Unknown Health Event	Indeterminate	Total
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
Allen	0 (0)	0 (0)	18 (46)	0 (0)	0 (0)	11 (28)	0 (0)	0 (0)	10 (26)	39 (100)
Ashtabula	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	43 (100)	43 (100)
Athens	0 (0)	0 (0)	5 (21)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	18 (75)	24 (100)
Auglaize	0 (0)	0 (0)	3 (20)	0 (0)	0 (0)	12 (80)	0 (0)	0 (0)	0 (0)	15 (100)
Belmont	0 (0)	0 (0)	4 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	4 (100)
Brown	0 (0)	0 (0)	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	6 (75)	8 (100)
Butler	0 (0)	0 (0)	24 (35)	0 (0)	0 (0)	4 (6)	1 (1)	0 (0)	39 (57)	68 (100)
Carroll	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	12 (100)	12 (100)
Champaign	0 (0)	3 (17)	3 (17)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	12 (67)	18 (100)
Clark	0 (0)	1 (2)	4 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	51 (91)	56 (100)
Clermont	0 (0)	0 (0)	25 (60)	0 (0)	1 (2)	1 (2)	0 (0)	0 (0)	15 (36)	42 (100)
Clinton	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)
Columbiana	0 (0)	0 (0)	6 (16)	0 (0)	0 (0)	0 (0)	0 (0)	31 (84)	0 (0)	37 (100)
Coshocton	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)
Crawford	0 (0)	0 (0)	3 (33)	0 (0)	0 (0)	6 (67)	0 (0)	0 (0)	0 (0)	9 (100)
Cuyahoga	0 (0)	5 (5)	37 (37)	0 (0)	52 (51)	4 (4)	3 (3)	0 (0)	0 (0)	101 (100)
Defiance	0 (0)	0 (0)	9 (50)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	9 (50)	18 (100)
Delaware	0 (0)	0 (0)	21 (62)	0 (0)	0 (0)	0 (0)	1 (3)	12 (35)	0 (0)	34 (100)
Erie	0 (0)	3 (6)	10 (19)	0 (0)	0 (0)	5 (10)	0 (0)	0 (0)	34 (65)	52 (100)
Fairfield	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	28 (100)	28 (100)
Franklin	0 (0)	0 (0)	26 (32)	0 (0)	0 (0)	1 (1)	0 (0)	0 (0)	55 (67)	82 (100)
Fulton	0 (0)	0 (0)	4 (36)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (64)	11 (100)
Geauga	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (88)	8 (100)
Greene	5 (14)	3 (8)	10 (28)	0 (0)	2 (6)	2 (6)	2 (6)	0 (0)	12 (33)	36 (100)

Jurisdiction	Environmental Health Event	Naturally Occurring Disease Outbreak	Seasonal Illness Health Event	Severe Weather Event	Other Health Event	Not a Health Event	Data Error (Facility or EpiCenter)	Unknown Health Event	Indeterminate	Total
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
Guernsey	0 (0)	0 (0)	13 (38)	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	19 (56)	34 (100)
Hamilton	0 (0)	0 (0)	26 (39)	0 (0)	0 (0)	3 (5)	0 (0)	0 (0)	37 (56)	66 (100)
Hancock	0 (0)	0 (0)	5 (19)	0 (0)	2 (7)	18 (67)	0 (0)	0 (0)	2 (7)	27 (100)
Hardin	0 (0)	0 (0)	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (100)
Henry	0 (0)	0 (0)	1 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (88)	8 (100)
Highland	0 (0)	0 (0)	2 (50)	0 (0)	0 (0)	0 (0)	1 (25)	0 (0)	1 (25)	4 (100)
Hocking	0 (0)	0 (0)	11 (28)	0 (0)	4 (10)	3 (8)	0 (0)	0 (0)	21 (54)	39 (100)
Holmes	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	1 (33)	0 (0)	0 (0)	1 (33)	3 (100)
Huron	0 (0)	0 (0)	4 (16)	0 (0)	0 (0)	10 (40)	1 (4)	0 (0)	10 (40)	25 (100)
Jefferson	0 (0)	0 (0)	44 (81)	0 (0)	0 (0)	9 (17)	0 (0)	0 (0)	1 (2)	54 (100)
Lake	0 (0)	0 (0)	33 (52)	0 (0)	3 (5)	7 (11)	0 (0)	0 (0)	20 (32)	63 (100)
Licking	0 (0)	0 (0)	3 (21)	0 (0)	0 (0)	7 (50)	0 (0)	0 (0)	4 (29)	14 (100)
Logan	0 (0)	0 (0)	16 (73)	0 (0)	0 (0)	0 (0)	1 (5)	5 (23)	0 (0)	22 (100)
Lorain	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (81)	0 (0)	0 (0)	3 (19)	16 (100)
Lucas	0 (0)	2 (2)	32 (38)	0 (0)	34 (40)	0 (0)	0 (0)	0 (0)	16 (19)	84 (100)
Madison	0 (0)	0 (0)	9 (82)	1 (9)	0 (0)	0 (0)	0 (0)	0 (0)	1 (9)	11 (100)
Mahoning	0 (0)	0 (0)	19 (21)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	70 (79)	89 (100)
Marion	0 (0)	0 (0)	26 (49)	0 (0)	1 (2)	26 (49)	0 (0)	0 (0)	0 (0)	53 (100)
Medina	0 (0)	0 (0)	8 (22)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	29 (78)	37 (100)
Mercer	0 (0)	0 (0)	3 (43)	0 (0)	0 (0)	4 (57)	0 (0)	0 (0)	0 (0)	7 (100)
Miami	0 (0)	0 (0)	7 (18)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	32 (82)	39 (100)
Montgomery	5 (7)	0 (0)	14 (19)	0 (0)	0 (0)	24 (33)	0 (0)	29 (40)	1 (1)	73 (100)
Morrow	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	1 (100)
Muskingum	0 (0)	0 (0)	40 (74)	0 (0)	0 (0)	14 (26)	0 (0)	0 (0)	0 (0)	54 (100)
Ottawa	0 (0)	0 (0)	4 (25)	0 (0)	0 (0)	6 (38)	1 (6)	0 (0)	5 (31)	16 (100)
Perry	0 (0)	0 (0)	2 (50)	0 (0)	0 (0)	2 (50)	0 (0)	0 (0)	0 (0)	4 (100)

Jurisdiction	Environmental Health Event	Naturally Occurring Disease Outbreak	Seasonal Illness Health Event	Severe Weather Event	Other Health Event	Not a Health Event	Data Error (Facility or EpiCenter)	Unknown Health Event	Indeterminate	Total
	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
Pickaway	0 (0)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	29 (91)	32 (100)
Portage	0 (0)	1 (4)	9 (33)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	16 (59)	27 (100)
Putnam	0 (0)	0 (0)	2 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (87)	15 (100)
Richland	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (60)	0 (0)	0 (0)	2 (40)	5 (100)
Ross	0 (0)	0 (0)	9 (21)	0 (0)	0 (0)	10 (24)	0 (0)	0 (0)	23 (55)	42 (100)
Sandusky	0 (0)	0 (0)	2 (5)	0 (0)	0 (0)	30 (79)	1 (3)	0 (0)	5 (13)	38 (100)
Scioto	0 (0)	0 (0)	5 (18)	0 (0)	0 (0)	1 (4)	0 (0)	0 (0)	22 (79)	28 (100)
Seneca	0 (0)	0 (0)	10 (36)	0 (0)	2 (7)	5 (18)	0 (0)	0 (0)	11 (39)	28 (100)
Shelby	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1 (100)
Stark	0 (0)	0 (0)	20 (22)	1 (1)	0 (0)	2 (2)	1 (1)	0 (0)	68 (74)	92 (100)
Summit	0 (0)	1 (2)	24 (42)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	32 (56)	57 (100)
Trumbull	0 (0)	0 (0)	38 (58)	0 (0)	12 (18)	16 (24)	0 (0)	0 (0)	0 (0)	66 (100)
Tuscarawas	0 (0)	0 (0)	4 (11)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	33 (89)	37 (100)
Union	0 (0)	0 (0)	15 (54)	0 (0)	0 (0)	11 (39)	0 (0)	0 (0)	2 (7)	28 (100)
Van Wert	0 (0)	0 (0)	12 (43)	0 (0)	0 (0)	16 (57)	0 (0)	0 (0)	0 (0)	28 (100)
Vinton	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)
Warren	0 (0)	0 (0)	16 (48)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	17 (52)	33 (100)
Washington	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)	1 (100)
Wayne	0 (0)	1 (3)	11 (30)	0 (0)	12 (32)	10 (27)	0 (0)	0 (0)	3 (8)	37 (100)
Wood	0 (0)	0 (0)	27 (63)	0 (0)	0 (0)	16 (37)	0 (0)	0 (0)	0 (0)	43 (100)
Wyandot	0 (0)	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (100)
State of Ohio	0 (0)	1 (1)	45 (61)	0 (0)	0 (0)	7 (9)	1 (1)	0 (0)	20 (27)	74 (100)
Total	10 (0)	22 (1)	795 (34)	2 (0)	125 (5)	325 (14)	14 (1)	78 (3)	936 (41)	2,307 (100)

Source of data: Ohio Department of Health Public Health Informatics and Vaccine-Preventable Disease Epidemiology Unit.

* Please see Technical Notes.

Table 3: Distribution of EpiCenter Anomalies by Month, Ohio, 2013

Anomaly Disposition*	Jan N (%)	Feb N (%)	Mar N (5)	Apr N (%)	May N (%)	Jun N (%)	Jul N (%)	Aug N (%)	Sep N (%)	Oct N (%)	Nov N (%)	Dec N (%)	Total N (%)
Environmental health event	1 (10)	0 (0)	2 (20)	1 (10)	0 (0)	3 (30)	0 (0)	0 (0)	3 (30)	0 (0)	0 (0)	0 (0)	10 (100)
Naturally occurring disease outbreak	3 (14)	4 (18)	0 (0)	0 (0)	3 (14)	0 (0)	0 (0)	0 (0)	4 (18)	0 (0)	6 (27)	2 (9)	22 (100)
Seasonal illness health event	69 (9)	54 (7)	42 (5)	29 (4)	63 (8)	17 (2)	29 (4)	29 (4)	97 (12)	43 (5)	49 (6)	274 (34)	795 (100)
Severe weather event	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (100)
Other health event	7 (6)	4 (3)	9 (7)	5 (4)	8 (6)	12 (10)	22 (18)	16 (13)	14 (11)	8 (6)	8 (6)	12 (10)	125 (100)
Not a health event	25 (8)	18 (6)	28 (9)	19 (6)	32 (10)	20 (6)	23 (7)	43 (13)	37 (11)	23 (7)	36 (11)	21 (6)	325 (100)
Data error (facility or EpiCenter)	2 (14)	4 (29)	2 (14)	2 (14)	2 (14)	1 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (7)	0 (0)	14 (100)
Unknown health event	5 (6)	3 (4)	7 (9)	7 (9)	8 (10)	10 (13)	4 (5)	11 (14)	13 (17)	6 (8)	2 (3)	2 (3)	78 (100)
Indeterminate	41 (4)	49 (5)	65 (7)	35 (4)	92 (10)	84 (9)	79 (8)	87 (9)	132 (14)	100 (11)	77 (8)	95 (10)	936 (100)
Total	153 (7)	136 (6)	155 (7)	98 (4)	208 (9)	147 (6)	159 (7)	186 (8)	300 (13)	180 (8)	179 (8)	406 (18)	2,307 (100)

Source of data: Ohio Department of Health Public Health Informatics and Vaccine-Preventable Disease Epidemiology Unit.

* Please see Technical Notes.

TECHNICAL NOTES

SPECIFIC DISEASES

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

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

***Ehrlichia ewingii*:** formerly known as other human ehrlichiosis.

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). The Hepatitis C Surveillance Special Project started in mid-2013, which resulted in most of the 2013 acute hepatitis C records being reported to CDC in the second half of the year. Chronic hepatitis B and past or present hepatitis C data are not published due to insufficient case ascertainment.

Influenza-Associated Hospitalization: became a reportable condition in Ohio on Jan. 1, 2009.

Influenza-Associated Pediatric Mortality: includes cases for children less than 18 years of age. Data in the "Month of Onset" table are by the month of death.

Influenza A Virus, Novel Human Infection: became a reportable condition in Ohio on Jan. 1, 2009. This infection is listed in the Vaccine-Preventable Diseases tables as it is an influenza A virus infection, even though in all likelihood there will not be a readily available vaccine for a novel virus infection.

LaCrosse Virus Disease: also known as California serogroup virus disease.

Meningitis, Other Bacterial: includes cases of bacterial meningitis for which the agent was specified, excluding Group A *Streptococcus*, Group B *Streptococcus* (in newborns less than 3 months of age), *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.

***Streptococcus pneumoniae*, Invasive Disease, Ages <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.

OUTBREAKS

Numbers indicate the number of outbreaks reported and do not reflect the number of cases involved in the outbreak, except as noted. Outbreak data for vaccine-preventable diseases (i.e., influenza, pertussis, varicella-zoster virus) only include confirmed outbreaks. All other outbreaks are confirmed, probable or suspected.

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, except as noted. The source of outbreak data is the ODH Bureau of Infectious Diseases, the Ohio Disease Reporting System and local health jurisdictions. ***Eight multistate and multicounty outbreaks are not included in the “County” table; thus, county totals do not match totals. (There were 6 foodborne and 2 zoonotic that were multistate or multicounty.)*** A multistate outbreak is an outbreak where the exposure occurred in more than one state while a multicounty outbreak is an outbreak where the exposure occurred in more than one county.

Cases in the non-influenza vaccine-preventable outbreaks (i.e., pertussis, varicella-zoster virus) are either confirmed or probable status. Cases in all other outbreaks are confirmed, probable or suspected.

Definitions for the six categories of outbreaks are from the ODH [Infectious Disease Control Manual](#) (IDCM); foodborne outbreaks and waterborne outbreaks are also defined on the CDC’s Nationally Notifiable Disease Surveillance System’s [website](#). Outbreak definitions for vaccine-preventable diseases are located in the [disease-specific chapters](#) of the IDCM.

Community: defined as two or more cases of similar illness with a common exposure in the community and not considered a foodborne or waterborne disease outbreak.

Foodborne: 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. Agent-specific criteria to confirm foodborne outbreaks can be found at: http://www.cdc.gov/foodsafety/outbreaks/investigating-outbreaks/confirming_diagnosis.html.

Healthcare-associated: defined as the occurrence of a disease (illness) above the expected or baseline level, usually over a given period of time, as a result of being in a healthcare facility. The number of cases indicating the presence of an outbreak will vary according to the disease agent, size and type of population exposed, previous exposure to the agent and the time and place of occurrence.

Institutional: defined as two or more cases of similar illness with a common exposure at an institution (e.g., correctional facility, day care center, group home, school) and not considered a foodborne or waterborne disease outbreak.

Waterborne: defined as any outbreak of an infectious disease, chemical poisoning or toxin-mediated illness where water is indicated as the source by an epidemiological investigation.

Zoonotic: defined as the occurrence of two or more cases of a similar illness with a common exposure to an animal source and not considered a foodborne or waterborne disease outbreak.

EPICENTER ANOMALY DE-DUPLICATION TO REPORT ON A SINGLE EVENT

Within EpiCenter, anomaly records can be marked “associated” or as a “duplicate” if the time period or the patient line lists are relatively the same. Methodology of selecting “associated” versus “duplicate” is oftentimes a user’s preference. Combining anomalies as associated effectively groups the records together allowing a user to select the same health event outcome for all anomalies. Enumeration of health events when associated would overestimate the true number of health events. A reclassification hierarchy was constructed to resolve these preferences of reporting for a more consistent enumeration of health events. Records that were labeled with the same classifier on the same day were separated and all but one record of the greatest hierarchy was kept to label the health event. The hierarchy used was: “Environmental health event”, “Naturally occurring disease outbreak”, “Seasonal illness health event”, “Severe weather event”, “Other health event”, “Not a health event”, “Data error (facility or EpiCenter)”, “Unknown health event”, “Indeterminate”, “Duplicate”, and “Incomplete assessment”. The remaining records were recoded as duplicate anomalies. Duplicates (N = 1,257) and incomplete assessments (N = 118) were removed from the enumeration of health event totals for the 2013 report.

RATE CALCULATIONS

Population estimates for rates in the “Age in Years,” “Sex” and “County of Residence” tables come from the 2013 U.S. Census estimates. Population data for rates in the “Year of Onset” table come from the U.S. Census estimates for each year except 2010, which uses the actual count. Rates were not calculated for the following conditions because they pertain to selected age populations and not the entire population. Rates were calculated in the “Age in Years” table only for the conditions below containing an asterisk (*) because appropriate population data were available for the denominator:

- Botulism, infant
- Cytomegalovirus (CMV), congenital
- Hepatitis B, perinatal infection
- Influenza-associated pediatric mortality*
- 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*

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 2009-2013 disease tables (pp. 6-7):

- | | |
|---|---|
| • Anthrax | • Severe acute respiratory syndrome |
| • Diphtheria | • Smallpox |
| • Eastern equine encephalitis virus disease | • St. Louis encephalitis virus disease |
| • Hantavirus | • <i>Staphylococcus aureus</i> , resistant to Vancomycin (VRSA) |
| • Plague | • Viral hemorrhagic fever |
| • Poliomyelitis | • Western equine encephalitis virus disease |
| • Powassan virus disease | • Yellow fever |
| • Rabies, human | |
| • Rubella, congenital | |

Reportable diseases not included in the “Age in Years,” “Sex,” “Month of Onset” and “County of Residence” tables (pp. 8-43) had no known cases reported in 2013.

SEROTYPES AND SEROGROUPS

The bacteriology laboratory at ODH performs serogrouping of Shiga toxin-producing *Escherichia coli* isolates, serogrouping of *Neisseria meningitidis* isolates and serotyping of *Salmonella* isolates. Hospital and other clinical laboratories are encouraged to send *Salmonella*, *Neisseria meningitidis* and Shiga toxin-producing *Escherichia coli* isolates to the ODH Laboratory for serotyping and serogrouping. The ODH Laboratory also requests *Listeria* and *Vibrio* isolates. *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 are requested to be sent directly to the Centers for Disease Control and Prevention (CDC) Laboratory. For further information on the submission of isolates, please contact the bacteriology laboratory at (614) 644-4656.

REFERENCES

1. Ohio Department of Health. Lyme Disease. In: *Infectious Disease Control Manual*. Columbus, OH: Ohio Department of Health; 2015: 1-7. Available at: <http://www.odh.ohio.gov/pdf/IDCM/lyme.pdf>. Accessed January 29, 2015.