

# 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 2012, the Bureau of Infectious Diseases (ODH) assisted local health jurisdictions in Ohio in the investigation of 427 outbreaks. These outbreaks were detected in 64 of 88 counties throughout the state. The number of Ohioans known to be ill from these outbreaks was 10,496 (median 10, range 1-1,255). The outbreaks were classified as: community (55), foodborne (85), healthcare-associated (94), institutional (170), waterborne (5) and zoonotic (18). Causative agents identified during the outbreak investigations included: *Bordetella pertussis*, *Campylobacter jejuni*, chlorine, *Clostridium difficile*, *Clostridium perfringens*, coxsackievirus, *Cryptosporidium* spp., *Enterobius vermicularis*, vancomycin-resistant *Enterococcus*, enterovirus, *Escherichia coli* O26, *Escherichia coli* O45, *Escherichia coli* O111, *Escherichia coli* O157:H7, *Exserohilum rostratum*, hepatitis A virus, herpesvirus 2, influenza A virus, influenza H3N2v virus, *Legionella pneumophila*, *Listeria monocytogenes*, *Mycoplasma pneumoniae*, norovirus genotypes GI and GII, parvovirus B19, *Pediculus capitis* (head louse), respiratory syncytial virus, *Salmonella* (various serotypes), *Sarcoptes scabiei* (scabies mite), *Serratia marcescens*, *Shigella sonnei*, methicillin-resistant *Staphylococcus aureus* (MRSA), *Streptococcus pyogenes*, varicella-zoster virus and *Vibrio parahaemolyticus*.

This is the third 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 2012 outbreaks are discussed below.

## COMMUNITY OUTBREAKS

In 2012, 55 community outbreaks were reported from a variety of settings. Thirty-five of these outbreaks were confirmed, with the causative agent as follows: *B. pertussis* (12), enterovirus (1), *E. coli* O111 (1), hepatitis A virus (1), influenza A virus (1), norovirus genotype GI (1), norovirus genotype GII (11), *P. capitis* (1), *S. sonnei* (5) and methicillin-resistant *S. aureus* (1).

The confirmed community outbreaks of 2012 are listed in Table 1.

Month of Onset	Causative Agent	County	# Ill
November 2011	<i>Bordetella pertussis</i>	Franklin	2
December 2011	<i>Shigella sonnei</i>	Cuyahoga	50
December 2011	<i>Bordetella pertussis</i>	Ashtabula	8
January 2012	Norovirus GII	Delaware	15
January 2012	Norovirus GII.4 New Orleans	Franklin	3
February 2012	Norovirus GII.1	Montgomery	18
February 2012	Methicillin-resistant <i>Staphylococcus aureus</i>	Huron	3

Month of Onset	Causative Agent	County	# Ill
February 2012	Norovirus GII.6C	Lucas	2
February 2012	<i>Bordetella pertussis</i>	Franklin	2
March 2012	Norovirus GII.4 New Orleans	Franklin	2
March 2012	Norovirus GII.4 New Orleans	Franklin	6
April 2012	Influenza A virus	Franklin	36
April 2012	<i>Bordetella pertussis</i>	Gallia	5
May 2012	<i>Shigella sonnei</i>	Franklin	1,255
May 2012	<i>Bordetella pertussis</i>	Licking	6
June 2012	<i>Pediculus capitis</i>	Stark	14
June 2012	<i>Bordetella pertussis</i>	Warren	4
June 2012	<i>Bordetella pertussis</i>	Hamilton	2
July 2012	<i>Bordetella pertussis</i>	Franklin	7
July 2012	<i>Bordetella pertussis</i>	Madison	3
July 2012	<i>Bordetella pertussis</i>	Franklin	4
July 2012	<i>Bordetella pertussis</i>	Meigs	4
July 2012	<i>Bordetella pertussis</i>	Franklin	2
August 2012	<i>Escherichia coli</i> O111	Franklin	4
August 2012	Norovirus GII.6B	Stark	8
August 2012	<i>Shigella sonnei</i>	Clark	5
September 2012	Hepatitis A virus	Multicounty	21
September 2012	Enterovirus	Clinton	2
September 2012	Norovirus GI.6A	Lucas	6
October 2012	<i>Shigella sonnei</i>	Clark	4
November 2012	<i>Shigella sonnei</i>	Clark	2
November 2012	Norovirus GII.2	Delaware	4
December 2012	Norovirus GII.1	Lucas	2
December 2012	Norovirus GII.4 Sydney	Cuyahoga	49
December 2012	Norovirus GII.6B	Summit	9

Source of outbreak data: Ohio Disease Reporting System.

Refer to the shigellosis and hepatitis A profiles, respectively, for the details on the large Franklin County shigellosis outbreak and the multicounty hepatitis A outbreak listed in Table 1.

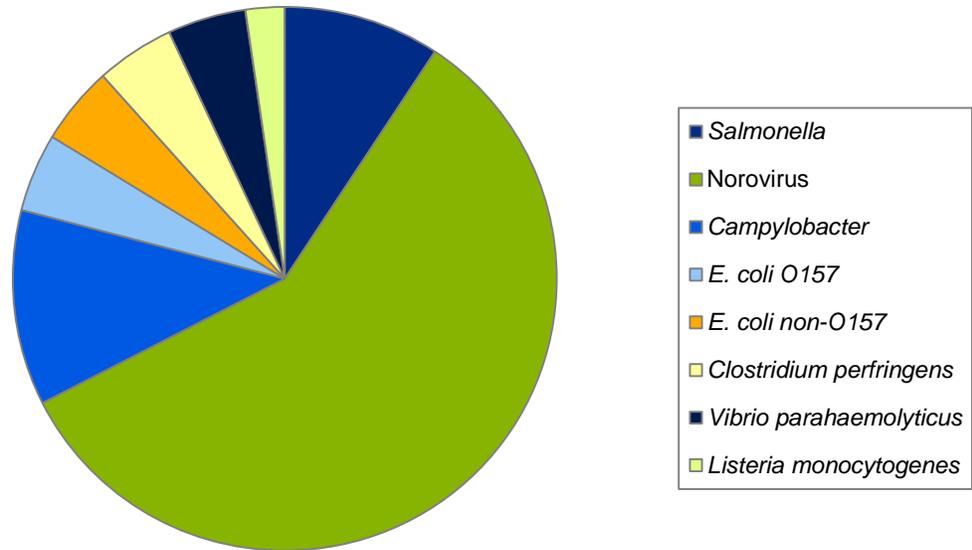
## FOODBORNE OUTBREAKS

In 2012, 43 of the 85 foodborne outbreaks reported in Ohio were confirmed. These 85 outbreaks met the general [definition of a foodborne outbreak](#): “An incident in which two or more persons experience a similar illness after ingestion of a common food, and epidemiologic analysis implicates the food as the source of the illness.” The 43 confirmed outbreaks also met the agent-specific [criteria for confirmation](#) of outbreaks. As shown in Figure 1, for these 43 foodborne outbreaks, the causative agent was distributed as follows: *Campylobacter* spp. (5), *Clostridium perfringens* (2), *E. coli* O26 (1), *E. coli* O45 (1), *E. coli* O157:H7 (2), *Listeria monocytogenes* (1), Norovirus GI (4), Norovirus GII (21), *Salmonella* spp. (4) and *Vibrio parahaemolyticus* (2).

Two individual cases of foodborne botulism were reported in 2012 in Ohio. A Franklin County adult had onset of confirmed botulism due to type A toxin in January 2012 after eating home-canned green

beans. A Greene County adult had onset of confirmed botulism due to type A toxin in April 2012. The contaminated vehicle was not identified. Both cases survived.

**Figure 1: Confirmed Foodborne Outbreaks by Etiologic Agent, Ohio, 2012**



Source of outbreak data: Ohio Disease Reporting System.

The 43 confirmed foodborne outbreaks are detailed in Table 2.

**Table 2: Confirmed Foodborne Outbreaks, Ohio, 2012**

Month of Onset	Causative Agent	County	# Ill	Suspected Food Vehicle	Event / Setting
December 2011	<i>Escherichia coli</i> O26	Multistate	3	Clover sprouts	Commercial product
January 2012	<i>Escherichia coli</i> O45	Multistate	1	Pepperoni pizza	Commercial product
February 2012	Norovirus GII.4 New Orleans	Licking	43	Unknown	Banquet
February 2012	Norovirus GII.4 New Orleans	Montgomery	10	Unknown	Banquet
February 2012	Norovirus GII.4 New Orleans	Franklin	29	Unknown	Restaurant
February 2012	Norovirus GII.4 New Orleans	Hamilton	29	Ice	Retreat
March 2012	Norovirus GII.1	Franklin	15	Unknown	Catered meal at work
March 2012	Norovirus GII.4 New Orleans	Franklin	3	Unknown	Restaurant
March 2012	Norovirus GII.4 New Orleans	Huron	5	Salad, sandwich	Restaurant
April 2012	<i>Clostridium perfringens</i>	Cuyahoga	20	Chicken marsala	Catered meal at school
April 2012	Norovirus GI.7	Hamilton	29	Cheese, crackers	Catered meal on riverboat
April 2012	Norovirus GII.1	Clark	5	Pizza	Takeout food

Month of Onset	Causative Agent	County	# Ill	Suspected Food Vehicle	Event / Setting
April 2012	Norovirus GII.4 New Orleans	Delaware	2	Unknown	Takeout food at home
April 2012	Norovirus GII.6A	Trumbull	6	Salad	Takeout food at work
May 2012	<i>Clostridium perfringens</i>	Cuyahoga	70	Beef brisket, au jus	Church dinner
May 2012	<i>Listeria monocytogenes</i>	Multistate	1	Ricotta salata	Commercial product
May 2012	<i>Campylobacter jejuni</i>	Holmes	15	Unknown	Party at private home
May 2012	Norovirus GII.4 New Orleans	Crawford	6	Unknown	Restaurant
May 2012	Norovirus GII.6A	Butler	9	Unknown	Restaurant
June 2012	Norovirus GII.1	Mahoning	14	Unknown	Party at church
June 2012	Norovirus GI.7	Franklin	18	Unknown	Picnic
July 2012	<i>Campylobacter jejuni</i>	Multicounty	51	Unknown	Catered meal at church
July 2012	<i>Campylobacter jejuni</i>	Cuyahoga	21	Unknown	Catered party
July 2012	<i>Campylobacter jejuni</i>	Cuyahoga	24	Unknown	Catered party
July 2012	<i>Salmonella</i> Typhimurium	Multistate	5	Cantaloupe	Commercial product
July 2012	<i>Salmonella</i> Newport	Multistate	2	Cantaloupe	Commercial product
July 2012	<i>Vibrio parahaemolyticus</i>	Multistate	2	Oyster	Commercial product
July 2012	<i>Vibrio parahaemolyticus</i>	Multistate	1	Oyster	Commercial product
July 2012	<i>Escherichia coli</i> O157:H7	Montgomery	79	Pig roast	Picnic
July 2012	Norovirus GI.6A	Huron	3	Unknown	Restaurant
August 2012	<i>Campylobacter jejuni</i>	Auglaize	2	Raw milk	Private home
September 2012	Norovirus GII.1	Wood	39	Unknown	Banquet
September 2012	Norovirus GII.1	Hancock	4	Unknown	Catered meal at work
October 2012	<i>Salmonella</i> Braenderup	Multistate	4	Mango	Commercial product
October 2012	Norovirus GII.4 Sydney	Franklin	47	Unknown	School trip
October 2012	<i>Salmonella</i> Typhimurium	Ashland	2	Hot dog	Street fair
October 2012	Norovirus GII.6C	Hamilton	14	Sub sandwich	Takeout food at work
November 2012	Norovirus GII.4 Sydney	Hamilton	20	Unknown	Banquet
November 2012	Norovirus GII.4 Sydney	Clark	2	Unknown	Restaurant
November 2012	Norovirus GI.6A	Summit	5	Unknown	Takeout food at work
December 2012	Norovirus GII.4 Sydney	Franklin	50	Cut fruit	Banquet
December 2012	Norovirus GII.4 Sydney	Franklin	29	Unknown	Banquet
December 2012	<i>Escherichia coli</i> O157:H7	Hamilton	7	Salad	Restaurant

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\* Typhimurium and \*Salmonella\* Newport Infections Linked to Cantaloupe](#)

[Multistate Outbreak of \*Salmonella\* Braenderup Infections Associated with Mangoes](#)

[Multistate Outbreak of Shiga Toxin-Producing \*Escherichia coli\* O26 Infections Linked to Raw Clover Sprouts at Jimmy John's Restaurants](#)

[Multistate Outbreak of Listeriosis Linked to Imported Frescolina Marte Brand Ricotta Salata Cheese](#)

## HEALTHCARE-ASSOCIATED OUTBREAKS

There were 94 healthcare-associated outbreaks reported in 2012, 59 of which were confirmed as shown in Table 3.

**Table 3: Confirmed Healthcare-Associated Outbreaks, Ohio, 2012**

Month of Onset	Causative Agent	# Ill	Setting
May 2011	<i>Campylobacter</i> spp.	3	Long-term care facility
December 2011	Norovirus GII.4 New Orleans	49	Long-term care facility
January 2012	Methicillin-resistant <i>Staphylococcus aureus</i>	9	Hospital
January 2012	<i>Sarcoptes scabiei</i>	2	Long-term care facility
January 2012	Norovirus GII.4 New Orleans	40	Long-term care facility
January 2012	<i>Clostridium difficile</i>	4	Long-term care facility
January 2012	Norovirus	58	Long-term care facility
January 2012	Norovirus	45	Rehabilitation facility
January 2012	Norovirus GII.4 New Orleans	27	Long-term care facility
January 2012	Methicillin-resistant <i>Staphylococcus aureus</i>	5	Long-term care facility
January 2012	Norovirus GII.4 New Orleans	54	Hospital
January 2012	<i>Serratia marcescens</i>	3	Hospital
January 2012	Norovirus GII.4 New Orleans	93	Long-term care facility
January 2012	Norovirus GII.4 New Orleans	41	Long-term care facility
January 2012	Norovirus GII.4 New Orleans	17	Long-term care facility
January 2012	Norovirus GII.6C	117	Long-term care facility
January 2012	Norovirus	84	Long-term care facility
February 2012	Norovirus	13	Long-term care facility
February 2012	<i>Clostridium difficile</i>	5	Long-term care facility
February 2012	Norovirus GII.4 New Orleans	29	Long-term care facility
February 2012	Norovirus GII.4 New Orleans	170	Long-term care facility
February 2012	Norovirus GII.4 New Orleans	23	Long-term care facility
February 2012	Norovirus GII.4 New Orleans	51	Long-term care facility
February 2012	Norovirus GII.4 New Orleans	19	Long-term care facility
February 2012	Norovirus GII.4 New Orleans	58	Rehabilitation facility
February 2012	Norovirus GII.4 New Orleans	41	Long-term care facility
February 2012	Norovirus	69	Hospital
February 2012	Influenza A virus	6	Long-term care facility

Month of Onset	Causative Agent	# Ill	Setting
March 2012	Norovirus GII.4 New Orleans	86	Long-term care facility
March 2012	Norovirus GII.6A	25	Hospital
March 2012	Norovirus GII.4 New Orleans	16	Rehabilitation facility
March 2012	Influenza A virus	5	Long-term care facility
April 2012	Group A <i>Streptococcus</i>	3	Long-term care facility
April 2012	Norovirus GII.4 New Orleans	22	Hospital
April 2012	Norovirus	13	Hospital
April 2012	Norovirus	43	Long-term care facility
April 2012	Respiratory syncytial virus	3	Hospital
April 2012	Influenza A virus	30	Long-term care facility
May 2012	Norovirus GII.4 New Orleans	72	Long-term care facility
May 2012	<i>Sarcoptes scabiei</i>	5	Long-term care facility
May 2012	Herpesvirus 2	2	Long-term care facility
May 2012	<i>Sarcoptes scabiei</i>	15	Long-term care facility
June 2012	Norovirus GI.6A	17	Long-term care facility
July 2012	<i>Sarcoptes scabiei</i>	4	Long-term care facility
July 2012	Vancomycin-resistant <i>Enterococcus</i>	16	Hospital
September 2012	<i>Sarcoptes scabiei</i>	11	Long-term care facility
September 2012	<i>Exserohilum rostratum</i>	20	Pain clinic <sup>†</sup>
November 2012	Norovirus GII.13	19	Long-term care facility
November 2012	Norovirus GII.6A	72	Long-term care facility
November 2012	Norovirus GII.6A	60	Long-term care facility
November 2012	Norovirus	46	Long-term care facility
November 2012	Influenza A virus	11	Long-term care facility
December 2012	Norovirus	82	Long-term care facility
December 2012	Norovirus GI.3B	10	Long-term care facility
December 2012	Norovirus GII.6A	73	Long-term care facility
December 2012	Norovirus GI.6A	54	Long-term care facility
December 2012	Norovirus GII.1	5	Long-term care facility
December 2012	Influenza A virus	4	Long-term care facility
December 2012	Influenza A virus	13	Long-term care facility

Source of outbreak data: Ohio Disease Reporting System.

<sup>†</sup> For further information about the multistate outbreak in which Ohio reported 20 cases of fungal infection, see [Multistate Fungal Meningitis Outbreak Investigation](#).

## INSTITUTIONAL OUTBREAKS

In 2012, 170 institutional outbreaks were reported. Of these, 115 were confirmed. See Table 4 below for the confirmed institutional outbreaks.

**Table 4: Confirmed Institutional Outbreaks, Ohio, 2012**

Month of Onset	Causative Agent	County	# Ill	Setting
October 2011	<i>Mycoplasma pneumoniae</i>	Franklin	8	School
November 2011	<i>Pediculus capitis</i>	Van Wert	26	School
December 2011	<i>Shigella sonnei</i>	Clermont	5	Day care center
December 2011	<i>Pediculus capitis</i>	Delaware	25	School
December 2011	<i>Shigella sonnei</i>	Hamilton	8	Day care center
December 2011	<i>Shigella sonnei</i>	Clermont	9	Day care center
December 2011	<i>Bordetella pertussis</i>	Ashland	2	Day care center
December 2011	<i>Bordetella pertussis</i>	Franklin	2	School
December 2011	<i>Bordetella pertussis</i>	Franklin	3	School
December 2011	<i>Bordetella pertussis</i>	Franklin	3	School
January 2012	<i>Pediculus capitis</i>	Stark	6	School
January 2012	Norovirus GII.4 New Orleans	Richland	8	Assisted living
January 2012	<i>Shigella sonnei</i>	Summit	5	Early learning center
January 2012	Norovirus GII.4 New Orleans	Franklin	28	Assisted living
January 2012	<i>Shigella sonnei</i>	Butler	2	Day care center
January 2012	Norovirus GII.4 New Orleans	Madison	30	Assisted living
January 2012	Impetigo	Darke	4	Day care center
January 2012	<i>Shigella sonnei</i>	Butler	3	Day care center
January 2012	Norovirus GII.4 New Orleans	Hamilton	66	Assisted living
January 2012	<i>Pediculus capitis</i>	Van Wert	14	School
January 2012	Coxsackievirus	Franklin	34	Day care center
January 2012	<i>Salmonella</i> Thompson	Franklin	7	Military base
January 2012	<i>Streptococcus pyogenes</i>	Franklin	19	School
January 2012	Norovirus	Auglaize	38	Assisted living
January 2012	<i>Shigella sonnei</i>	Hamilton	9	Day care center
January 2012	<i>Bordetella pertussis</i>	Delaware	2	School
January 2012	<i>Bordetella pertussis</i>	Franklin	2	School
February 2012	Norovirus GII.3	Cuyahoga	46	Day care center
February 2012	Norovirus GII.4 New Orleans	Franklin	8	Day care center
February 2012	Norovirus GII.4 New Orleans	Licking	44	School
February 2012	Norovirus GII.1	Summit	162	Assisted living
February 2012	Parvovirus B19	Putnam	18	School
February 2012	Norovirus GII.4 New Orleans	Franklin	67	Retirement community
February 2012	Norovirus GII.4 New Orleans	Butler	40	Assisted living
February 2012	Coxsackie virus	Franklin	6	Day care center
February 2012	Norovirus GII.4 New Orleans	Wood	18	Assisted living
February 2012	<i>Bordetella pertussis</i>	Franklin	2	School
February 2012	Varicella-Zoster virus	Butler	8	School
February 2012	Varicella-Zoster virus	Cuyahoga	6	School
February 2012	<i>Bordetella pertussis</i>	Franklin	2	Day care center
February 2012	<i>Bordetella pertussis</i>	Franklin	2	School

Month of Onset	Causative Agent	County	# Ill	Setting
February 2012	<i>Bordetella pertussis</i>	Warren	3	School
March 2012	<i>Shigella sonnei</i>	Hamilton	15	Day care center
March 2012	Norovirus GII.1	Franklin	22	Workplace
March 2012	Norovirus GII.4 New Orleans	Licking	12	School
March 2012	<i>Shigella sonnei</i>	Hamilton	9	Day care center
March 2012	<i>Pediculus capitis</i>	Delaware	15	School
March 2012	Influenza A virus	Lucas	26	School
March 2012	Varicella-Zoster virus	Franklin	5	School
March 2012	<i>Bordetella pertussis</i>	Franklin	8	School
March 2012	<i>Bordetella pertussis</i>	Franklin	3	School
March 2012	<i>Bordetella pertussis</i>	Franklin	3	School
April 2012	Norovirus GII.4 New Orleans	Summit	31	Assisted living
April 2012	Norovirus GII.6A	Montgomery	606	School
April 2012	<i>Sarcoptes scabiei</i>	Cuyahoga	3	MRDD facility
April 2012	<i>Sarcoptes scabiei</i>	Scioto	4	Day care center
April 2012	<i>Shigella sonnei</i>	Hamilton	9	Day care center
April 2012	Coxsackievirus	Lucas	15	Day care center
April 2012	Influenza A virus	Henry	25	School
April 2012	<i>Bordetella pertussis</i>	Franklin	2	School
April 2012	<i>Bordetella pertussis</i>	Franklin	2	School
April 2012	<i>Bordetella pertussis</i>	Franklin	4	School
April 2012	<i>Bordetella pertussis</i>	Franklin	2	School
April 2012	<i>Bordetella pertussis</i>	Franklin	6	School
May 2012	Coxsackievirus	Hamilton	3	Day care center
May 2012	<i>Shigella sonnei</i>	Franklin	7	Day care center
May 2012	<i>Shigella sonnei</i>	Hamilton	15	Day care center
May 2012	Coxsackievirus	Franklin	15	Day care center
May 2012	<i>Shigella sonnei</i>	Hamilton	2	Day care center
May 2012	Coxsackievirus	Tuscarawas	10	Day care center
May 2012	Influenza A virus	Summit	5	School
May 2012	<i>Bordetella pertussis</i>	Lucas	3	School
June 2012	Norovirus GI.6A	Franklin	125	Church
June 2012	Coxsackievirus	Franklin	6	Day care center
June 2012	Coxsackievirus	Madison	6	Day care center
June 2012	<i>Shigella sonnei</i>	Greene	2	Day care center
June 2012	<i>Salmonella Bovis-morbificans</i>	Franklin	10	Day care center
June 2012	<i>Enterobius vermicularis</i>	Noble	10	Day care center
June 2012	Norovirus GII.6B	Sandusky	21	Assisted living
June 2012	<i>Bordetella pertussis</i>	Franklin	2	School
June 2012	<i>Bordetella pertussis</i>	Hamilton	2	Day care center
June 2012	<i>Bordetella pertussis</i>	Franklin	2	Day care center
July 2012	Coxsackievirus	Van Wert	10	Day care center
July 2012	Coxsackievirus	Cuyahoga	7	Day care center
July 2012	Coxsackievirus	Hancock	4	Day care center

Month of Onset	Causative Agent	County	# Ill	Setting
August 2012	<i>Shigella sonnei</i>	Butler	20	Day care center
August 2012	<i>Shigella sonnei</i>	Clark	10	Day care center
August 2012	<i>Escherichia coli</i> O157:H7	Franklin	7	School
August 2012	<i>Shigella sonnei</i>	Hamilton	4	Day care center
August 2012	Methicillin-resistant <i>Staphylococcus aureus</i>	Gallia	6	School
August 2012	<i>Bordetella pertussis</i>	Hamilton	2	Day care center
August 2012	<i>Bordetella pertussis</i>	Franklin	18	School
August 2012	<i>Bordetella pertussis</i>	Butler	2	School
September 2012	<i>Pediculus capitis</i>	Lucas	8	School
September 2012	Coxsackievirus	Hancock	3	School
September 2012	Varicella-Zoster virus	Marion	7	Correctional facility
October 2012	<i>Pediculus capitis</i>	Wood	4	School
October 2012	<i>Shigella sonnei</i>	Cuyahoga	6	Day care center
October 2012	<i>Pediculus capitis</i>	Franklin	2	Day care center
October 2012	Norovirus GII.5	Clermont	152	School
October 2012	<i>Bordetella pertussis</i>	Franklin	2	School
November 2012	Norovirus GII.4 Sydney	Franklin	12	Day care center
November 2012	Norovirus GII.2	Franklin	17	Day care center
November 2012	<i>Pediculus capitis</i>	Morrow	11	School
November 2012	Norovirus GII.1	Hancock	30	School
November 2012	Norovirus GII.2	Hamilton	44	School
November 2012	Norovirus GII.1	Franklin	24	Day care center
November 2012	Norovirus GII.1	Franklin	10	School
November 2012	Methicillin-unknown <i>Staphylococcus aureus</i>	Richland	15	Sports team
November 2012	Influenza A virus	Butler	126	School
November 2012	Influenza A virus	Franklin	10	School
November 2012	<i>Bordetella pertussis</i>	Hamilton	4	School
November 2012	Varicella-Zoster virus	Delaware	7	School
December 2012	Norovirus GII.4 Sydney	Cuyahoga	19	Shelter
December 2012	Influenza A virus	Summit	93	School

Source of outbreak data: Ohio Disease Reporting System.

## WATERBORNE OUTBREAKS

In 2012, 5 waterborne outbreaks were reported. These outbreaks are detailed in Table 5.

**Table 5: Confirmed and Probable Waterborne Outbreaks, Ohio, 2012**

Month of Onset	Causative Agent	County	# Ill	Setting
December 2011	<i>Legionella pneumophila</i>	Mahoning	2	Fitness center
February 2012	<i>Legionella pneumophila</i>	Hamilton	8	Long-term care facility
April 2012	Folliculitis	Washington	40	Hotel spa
June 2012	Chlorine	Jackson	16	Community pool
July 2012	<i>Cryptosporidium</i> spp.	Geauga	14	Water park

Source of outbreak data: Ohio Disease Reporting System.

## ZOOONOTIC OUTBREAKS

In 2012, 18 zoonotic outbreaks were reported, as seen in Table 6. In the summer of 2012, there were 11 confirmed outbreaks of Influenza A (H3N2) variant (H3N2v) between the months of July and September. The outbreaks occurred almost exclusively among those who attended agricultural fairs or had direct or indirect exposure to swine. One hundred seven confirmed cases of H3N2v from 25 Ohio counties were reported to CDC. There were 11 H3N2v-associated hospitalizations in Ohio resulting from these outbreaks. One H3N2v-associated death was reported from an individual with several underlying medical conditions. Limited human-human transmission was seen with no sustained or community transmission identified.

**Table 6: Confirmed and Probable Zoonotic Outbreaks, Ohio, 2012**

Month of Onset	Causative Agent	County	# Ill	Type of Animal
January 2012	<i>Campylobacter</i> spp.	Lorain	3	Puppies at shelter
February 2012	<i>Cryptosporidium</i> spp.	Hancock	6	Calves at university veterinary program
March 2012	<i>Salmonella</i> Newport, Infantis, Lille	Multistate	42	Baby poultry
March 2012	<i>Salmonella</i> Infantis	Multistate	3	Dogs, dog food
May 2012	<i>Campylobacter</i> spp.	Stark	28	Poultry from processing plant
June 2012	<i>Salmonella</i> Typhimurium	Multistate	6	Pet hedgehog
July 2012	<i>Salmonella</i> Braenderup	Multistate	2	Live poultry
July 2012	Influenza H3N2v	Butler	10	Swine at agricultural fair
July 2012	Influenza H3N2v	Clark	3	Swine at agricultural fair
July 2012	Influenza H3N2v	Franklin	3	Swine at agricultural fair
August 2012	Influenza H3N2v	Medina	12	Swine at agricultural fair
August 2012	Influenza H3N2v	Gallia	28	Swine at agricultural fair
August 2012	Influenza H3N2v	Greene	10	Swine at agricultural fair
August 2012	Influenza H3N2v	Champaign	13	Swine at agricultural fair
August 2012	Influenza H3N2v	Licking	5	Swine at agricultural fair

Month of Onset	Causative Agent	County	# Ill	Type of Animal
August 2012	<i>Influenza H3N2v</i>	Henry	22	Swine at agricultural fair
August 2012	<i>Influenza H3N2v</i>	Huron	25	Swine at agricultural fair
September 2012	<i>Influenza H3N2v</i>	Montgomery	3	Swine at agricultural fair

Source of outbreak data: Ohio Disease Reporting System.

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

[Multistate Outbreak of Human \*Salmonella\* Typhimurium Infections Linked to Pet Hedgehogs](#)

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

[Multistate Outbreak of Human \*Salmonella\* Infantis Infections Linked to Dry Dog Food](#)

Please refer to the Technical Notes (pp. 94-97) for additional information on the outbreak data.