

## Outbreaks

### Foodborne

During 2008, 26 foodborne outbreaks were reported in Virginia. The number of ill persons per outbreak ranged from three customers at a restaurant to 99 attendees of a catered event at a hotel. The etiologic agent was confirmed or suspected to be bacterial for twelve outbreaks, viral for eight, a biologically produced toxin in two, and unknown in the remaining four outbreaks. Of the bacterial outbreaks, eleven were attributed to *Salmonella* (ser. Enteritidis, Hartford, Heidelberg, Saintpaul, Senftenberg, and Typhimurium), and the remaining outbreak was attributed to *E. coli*. All of the viral outbreaks were linked to norovirus. For the two outbreaks attributed to biologic toxin, *Bacillus cereus* was confirmed in the first event and histamine (scombroid) was suspected in the other. Factors contributing to the outbreaks included improper food handling (i.e., not keeping the food at the correct temperature or not cooking it at the proper temperature), infected food handlers, and ingestion of contaminated raw products.

**Foodborne Outbreaks Reported in Virginia, 2008**

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
1/13/2008	Prince William	16	Norovirus	Food vehicle undetermined	Restaurant
1/23/2008	Arlington	9	Unknown	Food vehicle undetermined	Restaurant
2/1/2008	Arlington	18	Unknown	Food vehicle undetermined	School
2/29/2008	Chesterfield, Crater	16	Norovirus	Food vehicle undetermined	Hotel / Resort
3/7/2008	Fairfax	7	Unknown	Food vehicle undetermined	Catered Event
3/22/2008	Lord Fairfax	7	<i>Salmonella</i> ser. Enteritidis	Food vehicle undetermined	Church Dinner
4/6/2008	Central Virginia	5	<i>Salmonella</i> ser. Typhimurium	Hamburger suspected and foodhandler tested positive	Convenience Store
4/7/2008	Peninsula	22	Norovirus	Food vehicle undetermined	Hotel / Resort
4/16/2008	Multistate	31 VA 1442 USA	<i>Salmonella</i> ser. Saintpaul	Jalapeno and serrano peppers, tomatoes suspected	Restaurants and Private Homes
4/22/2008	Chickahominy	79	Norovirus	Chicken salad sandwich / potato salad suspected	Private Retreat
4/23/2008	Multistate	1 VA 10 USA	<i>Salmonella</i> ser. Senftenberg	Tahini	Private Home
5/15/2008	Fairfax	12	Norovirus	Food vehicle undetermined	Catered Event

### Foodborne Outbreaks Reported in Virginia, 2008 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
6/12/2008	Chesterfield	36	Unknown	Food vehicle undetermined	Catered Event
6/22/2008	Loudoun	62	Norovirus	Food vehicle undetermined	Catered Event
6/29/2008	Pittsylvania/ Danville	6	<i>Salmonella</i> ser. Enteritidis	Egg suspected	Private Home
7/10/2008	Statewide	15	<i>Salmonella</i> ser. Hartford	Food vehicle undetermined	Restaurant
7/20/2008	Central Shenandoah	59	<i>Escherichia coli</i> O157	Ground beef	Camp / Campground
7/20/2008	Thomas Jefferson	17	<i>Salmonella</i> ser. Heidelberg	Feta cheese, spinach	Restaurant
7/20/2008	Rappahannock	4	Norovirus	Food vehicle undetermined	Restaurant
8/2/2008	Alexandria	45	<i>Salmonella</i> : multiple serotypes	Rockfish suspected	Catered Event
9/15/2008	Chesapeake	18	<i>Bacillus cereus</i>	Pot roast	Private Home
10/2/2008	Fairfax	11	<i>Salmonella</i> ser. Enteritidis	Chicken suspected	Catered Event
10/15/2008	Multistate	24 VA 714 USA	<i>Salmonella</i> ser. Typhimurium	Peanut butter and peanut containing products	Private Homes and Multiple Facilities
11/8/2008	Central Shenandoah	3	Histamine (Scombroid) suspected	Tuna steak in marinade suspected	Restaurant
12/1/2008	Fairfax, Arlington	99	<i>Salmonella</i> ser. Heidelberg	Shami kabob	Hotel / Resort
12/11/2008	Prince William	24	Norovirus	Food vehicle undetermined	Restaurant

### Healthcare-Associated

A healthcare-associated outbreak is a group of illnesses with a common etiology among patients in a health care setting (hospital, medical center, nursing home, dialysis center, or other healthcare facilities), where the patients acquired the illness while confined to that facility. Note that in earlier years only outbreaks occurring in hospitals and nursing homes (facilities meeting the definition of a medical care facility in 12 VAC 5-90-10) were included. During 2008 there were 68 healthcare-associated outbreaks reported in Virginia. This is a decrease from 116 in 2006 and 115 in 2007. Healthcare-associated outbreaks were primarily attributed to person-to-person transmission. The exceptions among events reported in 2008 were one due to point source transmission in a hospital and one that involved environmental exposure in an outpatient care facility. Etiologic agents were confirmed in 49 of the 68 outbreaks, suspected in 11 and unknown in eight. Norovirus was confirmed as the responsible agent in 29 outbreaks and influenza was confirmed in 16. *Burkholderia cepacia*, *Klebsiella oxytoca*, respiratory syncytial virus, and *Salmonella* ser. Ealing were each responsible for one outbreak.

### Healthcare-Associated Outbreaks Reported in Virginia, 2008

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
12/17/2007	Crater	9	Respiratory syncytial virus	Person-to-Person	Nursing Home
1/1/2008	New River	20	Norovirus	Person-to-Person	Nursing Home
1/15/2008	Norfolk	23	Influenza A virus	Person-to-Person	Nursing Home
1/19/2008	Arlington	67	Norovirus	Person-to-Person	Nursing Home
1/20/2008	New River	85	Norovirus	Person-to-Person	Nursing Home
1/21/2008	Chickahominy	30	Unknown respiratory illness	Person-to-Person	Nursing Home
2/1/2008	Alleghany	43	Influenza suspected	Person-to-Person	Nursing Home
2/1/2008	Alleghany	43	Norovirus	Person-to-Person	Nursing Home
2/2/2008	Peninsula	18	Influenza suspected	Person-to-Person	Nursing Home
2/7/2008	Thomas Jefferson	53	Norovirus	Person-to-Person	Nursing Home
2/9/2008	Crater	19	Influenza A virus	Person-to-Person	Hospital
2/10/2008	Three Rivers	3	Influenza A virus	Person-to-Person	Nursing Home
2/11/2008	Thomas Jefferson	27	Influenza A virus	Person-to-Person	Nursing Home
2/11/2008	Norfolk	36	Influenza B virus	Person-to-Person	Nursing Home
2/13/2008	Central Shenandoah	35	Influenza A virus	Person-to-Person	Nursing Home
2/16/2008	Three Rivers	52	Influenza A virus	Person-to-Person	Nursing Home
2/18/2008	Fairfax	29	Influenza A virus	Person-to-Person	Nursing Home
2/18/2008	Lord Fairfax	15	Norovirus	Person-to-Person	Nursing Home
2/20/2008	Three Rivers	37	Influenza A virus	Person-to-Person	Nursing Home
2/20/2008	Central Virginia	27	Influenza	Person-to-Person	Nursing Home
2/20/2008	Richmond	5	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
2/25/2008	Peninsula	9	Influenza	Person-to-Person	Nursing Home
2/26/2008	Alleghany	8	Influenza	Person-to-Person	Hospital
3/4/2008	Rappahannock/ Rapidan	10	Influenza A virus	Person-to-Person	Nursing Home
3/9/2008	Norfolk	3	<i>Salmonella</i> ser. Ealing	Person-to-Person	Nursing Home

**Healthcare-Associated Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
3/13/2008	Mount Rogers	7	Influenza B virus	Person-to-Person	Nursing Home
3/16/2008	Henrico	12	Norovirus suspected	Person-to-Person	Nursing Home
3/24/2008	Cumberland Plateau	2	Influenza B virus	Person-to-Person	Nursing Home
3/29/2008	Virginia Beach	31	Influenza suspected	Person-to-Person	Nursing Home
4/10/2008	Central Virginia	13	Norovirus suspected	Person-to-Person	Nursing Home
4/17/2008	Peninsula	28	Norovirus	Person-to-Person	Nursing Home
5/1/2008	Fairfax	23	Unknown respiratory illness	Person-to-Person	Nursing Home
5/6/2008	Peninsula	16	Unknown contaminant	Environmental	Outpatient Care Facility
5/17/2008	Henrico	44	Norovirus	Person-to-Person	Nursing Home
5/18/2008	Virginia Beach	72	Norovirus	Person-to-Person	Nursing Home
6/3/2008	Alleghany	32	<i>Sarcoptes scabiei</i> suspected	Person-to-Person	Nursing Home
6/7/2008	Thomas Jefferson	7	<i>Klebsiella oxytoca</i>	Person-to-Person	Hospital
6/26/2008	Alleghany	21	<i>Sarcoptes scabiei</i> suspected	Person-to-Person	Nursing Home
7/1/2008	Fairfax	7	<i>Burkholderia cepacia</i>	Point source	Hospital
7/17/2008	Roanoke	16	Norovirus	Person-to-Person	Nursing Home
8/11/2008	Chesterfield	11	Unknown respiratory illness	Person-to-Person	Nursing Home
8/23/2008	Central Shenandoah	51	Norovirus	Person-to-Person	Nursing Home
8/27/2008	Alleghany	12	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
8/29/2008	West Piedmont	12	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
9/2/2008	Central Virginia	20	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
10/22/2008	Roanoke	15	Norovirus	Person-to-Person	Nursing Home
10/27/2008	Alleghany	25	Norovirus	Person-to-Person	Nursing Home
11/3/2008	Cumberland Plateau	22	Norovirus	Person-to-Person	Nursing Home
11/6/2008	West Piedmont	25	Norovirus	Person-to-Person	Nursing Home
11/23/2008	Fairfax	10	Norovirus suspected	Person-to-Person	Outpatient Care Facility

**Healthcare-Associated Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
11/28/2008	Norfolk	16	Influenza	Person-to-Person	Nursing Home
12/1/2008	Rappahannock/ Rapidan	69	Norovirus	Person-to-Person	Nursing Home
12/3/2008	Three Rivers	82	Norovirus	Person-to-Person	Nursing Home
12/4/2008	Fairfax	32	Norovirus	Person-to-Person	Nursing Home
12/6/2008	West Piedmont	11	Norovirus suspected	Person-to-Person	Nursing Home
12/6/2008	Central Virginia	33	Norovirus	Person-to-Person	Nursing Home
12/7/2008	New River	26	Norovirus	Person-to-Person	Nursing Home
12/9/2008	Hampton	30	Norovirus	Person-to-Person	Nursing Home
12/10/2008	West Piedmont	58	Norovirus	Person-to-Person	Nursing Home
12/11/2008	Fairfax	15	Norovirus	Person-to-Person	Nursing Home
12/12/2008	New River	16	Norovirus	Person-to-Person	Hospital
12/14/2008	New River	28	Norovirus	Person-to-Person	Hospital
12/16/2008	Thomas Jefferson	20	Norovirus suspected	Person-to-Person	Nursing Home
12/21/2008	Loudoun	7	Norovirus	Person-to-Person	Nursing Home
12/22/2008	Thomas Jefferson	56	Norovirus	Person-to-Person	Nursing Home
12/26/2008	Henrico	49	Norovirus suspected	Person-to-Person	Nursing Home
12/29/2008	Piedmont	18	Norovirus	Person-to-Person	Nursing Home
12/30/2008	Mount Rogers	15	Norovirus	Person-to-Person	Nursing Home

**Other**

Two hundred twenty-one outbreaks were reported in Virginia during 2008 that were not foodborne, healthcare-associated or waterborne. The etiologic agent was confirmed in 170 (77%), was suspected in 38 (17%) and was unknown in 13 (6%). Among the outbreaks where an agent was confirmed, 148 were attributed to viruses, including norovirus (94), influenza (29), varicella (24), and rotavirus (1). Twenty outbreaks were attributed to confirmed bacterial agents, including *Bordetella pertussis* (9), *Shigella* (5), *Salmonella* (2), and one outbreak each for *Campylobacter*, *Chlamydomphila pneumoniae*, *Clostridium difficile*, and methicillin-resistant *Staphylococcus aureus* (MRSA). One outbreak was attributed to a fungus acquired in a group traveling out of the country, and another outbreak was linked to a toxic substance contained in a dietary supplement. The three most common places where outbreaks in this category occurred included 127

assisted living facilities, 27 schools (including 5 universities), and 12 child daycare settings.

### Other Outbreaks Reported in Virginia, 2008

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
10/8/2007	Prince William	8	Varicella (chickenpox)	Person-to-Person	School (K-12)
11/13/2007	Mount Rogers	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
11/16/2007	Alexandria	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
12/25/2007	Fairfax	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
1/3/2008	Alleghany	40	Norovirus	Person-to-Person	Assisted Living
1/3/2008	Fairfax	3	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
1/4/2008	Mount Rogers	10	<i>Sarcoptes scabiei</i> suspected	Person-to-Person	Assisted Living
1/7/2008	Central Virginia	18	Norovirus	Person-to-Person	Assisted Living
1/7/2008	Fairfax	15	Rotavirus	Person-to-Person	Assisted Living
1/8/2008	Arlington	6	Norovirus	Person-to-Person	Assisted Living
1/9/2008	Loudoun	17	Norovirus	Person-to-Person	Assisted Living
1/10/2008	Three Rivers	8	Influenza suspected	Person-to-Person	Assisted Living
1/10/2008	Prince William	7	Varicella (chickenpox)	Person-to-Person	School (K-12)
1/13/2008	Fairfax	22	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
1/15/2008	Chesterfield	29	Influenza	Person-to-Person	Correctional Facility
1/18/2008	Central Virginia	40	Norovirus	Person-to-Person	Assisted Living
1/20/2008	New River	85	Norovirus	Person-to-Person	Assisted Living
1/20/2008	Roanoke	8	<i>Histoplasma capsulatum</i>	Environmental	Out of Country
1/21/2008	Thomas Jefferson	593	Influenza A virus	Person-to-Person	College / University
1/21/2008	Henrico	7	Varicella (chickenpox)	Person-to-Person	School (K-12)
1/21/2008	Henrico	7	Varicella (chickenpox)	Person-to-Person	School (K-12)
1/23/2008	Rappahannock	70	Norovirus	Person-to-Person	Assisted Living
1/23/2008	Thomas Jefferson	199	Norovirus suspected	Person-to-Person	School (K-12)
1/24/2008	Central Virginia	24	Norovirus	Person-to-Person	Assisted Living
1/25/2008	Crater	25	Influenza A virus	Person-to-Person	Assisted Living
1/25/2008	Crater	100	Influenza A virus	Person-to-Person	School (K-12)
1/25/2008	Henrico	4	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
1/26/2008	Peninsula	188	Influenza A virus	Person-to-Person	Military Base
1/27/2008	Central Virginia	30	Norovirus	Person-to-Person	Assisted Living
1/28/2008	Peninsula	15	Norovirus	Person-to-Person	Assisted Living
1/28/2008	Peninsula	30	Influenza suspected	Person-to-Person	College / University
1/28/2008	Chesterfield	29	Influenza suspected	Person-to-Person	School (K-12)
2/1/2008	Fairfax	3	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
2/1/2008	New River	30	Norovirus	Person-to-Person	Assisted Living
2/1/2008	Central Virginia	38	Norovirus	Person-to-Person	School (K-12)
2/4/2008	Cumberland Plateau	51	Influenza	Person-to-Person	Assisted Living
2/4/2008	Fairfax	11	Norovirus suspected	Person-to-Person	Assisted Living
2/5/2008	Henrico	13	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
2/7/2008	Fairfax	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
2/7/2008	Richmond	3	Selenium	Point Source	Community
2/10/2008	Henrico	21	Norovirus	Person-to-Person	Assisted Living
2/12/2008	Prince William	33	Norovirus	Person-to-Person	Assisted Living
2/12/2008	Virginia Beach	24	Influenza A virus	Person-to-Person	Assisted Living
2/13/2008	Fairfax	4	Norovirus	Person-to-Person	Assisted Living
2/13/2008	Thomas Jefferson	21	Norovirus	Person-to-Person	Assisted Living
2/15/2008	Henrico	4	Influenza	Person-to-Person	Assisted Living
2/16/2008	Henrico	4	Norovirus suspected	Person-to-Person	Assisted Living
2/16/2008	Three Rivers	45	Influenza	Person-to-Person	Assisted Living
2/16/2008	Three Rivers	2	Influenza	Person-to-Person	Assisted Living
2/17/2008	Hampton	10	Norovirus	Person-to-Person	Assisted Living
2/18/2008	Alexandria	6	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
2/18/2008	Pittsylvania/ Danville	19	Norovirus suspected	Person-to-Person	Assisted Living
2/18/2008	Rappahannock	34	Norovirus	Person-to-Person	Assisted Living
2/20/2008	Central Shenandoah	9	Varicella (chickenpox)	Person-to-Person	School (K-12)
2/20/2008	Virginia Beach	12	Varicella (chickenpox)	Person-to-Person	School (K-12)
2/20/2008	Three Rivers	33	Influenza A virus	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
2/20/2008	Thomas Jefferson	47	Norovirus suspected	Person-to-Person	School (K-12)
2/22/2008	Cumberland Plateau	17	Varicella (chickenpox)	Person-to-Person	School (K-12)
2/23/2008	Fairfax	4	Norovirus	Person-to-Person	Assisted Living
2/23/2008	Three Rivers	40	Norovirus	Person-to-Person	Assisted Living
2/24/2008	Central Shenandoah	33	Influenza	Person-to-Person	Assisted Living
2/24/2008	Thomas Jefferson	23	Norovirus	Person-to-Person	Assisted Living
2/25/2008	Alleghany	2	Influenza B virus	Person-to-Person	Assisted Living
2/25/2008	Henrico	3	Influenza	Person-to-Person	Assisted Living
2/25/2008	Henrico	12	Influenza	Person-to-Person	Assisted Living
2/25/2008	Peninsula	19	Influenza	Person-to-Person	Assisted Living
2/25/2008	Central Virginia	60	Influenza	Person-to-Person	Workplace
2/25/2008	Fairfax	18	Norovirus	Person-to-Person	Independent Living / Retirement Home
2/27/2008	Mount Rogers	18	Norovirus	Person-to-Person	Assisted Living
2/28/2008	Thomas Jefferson	11	Norovirus suspected	Person-to-Person	School (K-12)
2/29/2008	Arlington	11	Influenza A virus	Person-to-Person	Assisted Living
2/29/2008	Thomas Jefferson	40	Influenza suspected	Person-to-Person	Correctional Facility
3/1/2008	Arlington	9	Influenza A virus	Person-to-Person	Assisted Living
3/1/2008	New River	14	Influenza A virus	Person-to-Person	Assisted Living
3/2/2008	Arlington	9	Norovirus	Person-to-Person	Assisted Living
3/2/2008	Portsmouth	31	Norovirus	Person-to-Person	Assisted Living
3/2/2008	Rappahannock/ Rapidan	4	Influenza	Person-to-Person	Assisted Living
3/2/2008	Rappahannock/ Rapidan	11	Influenza	Person-to-Person	Assisted Living
3/3/2008	Central Shenandoah	18	Influenza B virus	Person-to-Person	Assisted Living
3/3/2008	Cumberland Plateau	6	Influenza	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
3/3/2008	Thomas Jefferson	5	Norovirus	Person-to-Person	Assisted Living
3/3/2008	Central Shenandoah	5	<i>Campylobacter jejuni</i>	Environmental	Workplace
3/4/2008	Chickahominy	19	Influenza suspected	Person-to-Person	Assisted Living
3/4/2008	Thomas Jefferson	36	Influenza	Person-to-Person	Assisted Living
3/5/2008	Rappahannock/ Rapidan	6	Influenza	Person-to-Person	Assisted Living
3/10/2008	Mount Rogers	54	Influenza A virus	Person-to-Person	Assisted Living
3/10/2008	Three Rivers	7	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
3/17/2008	Thomas Jefferson	54	Influenza B virus	Person-to-Person	Assisted Living
3/18/2008	Chesterfield	28	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
3/20/2008	Prince William	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
3/23/2008	Mount Rogers	23	Norovirus	Person-to-Person	Assisted Living
3/25/2008	Lord Fairfax	16	Norovirus suspected	Person-to-Person	Assisted Living
3/28/2008	Eastern Shore	40	<i>Shigella sonnei</i>	Person-to-Person	Daycare / Pre-K
4/1/2008	Crater	7	<i>Chlamydomphila pneumoniae</i>	Person-to-Person	Assisted Living
4/1/2008	Prince William	11	Norovirus	Person-to-Person	Assisted Living
4/1/2008	Henrico	26	Unknown gastrointestinal illness	Person-to-Person	Daycare / Pre-K
4/2/2008	Central Shenandoah	5	<i>Clostridium difficile</i>	Person-to-Person	Assisted Living
4/2/2008	Fairfax	6	Norovirus suspected	Person-to-Person	Assisted Living
4/3/2008	Arlington	20	Norovirus	Person-to-Person	Conference Center
4/7/2008	New River	3	Norovirus suspected	Person-to-Person	College / University
4/11/2008	Cumberland Plateau	39	Norovirus	Person-to-Person	Assisted Living
4/15/2008	New River	2	<i>Salmonella ser. Typhimurium</i>	Environmental	College / University
4/16/2008	Peninsula	34	Norovirus	Person-to-Person	Hotel / Resort
4/20/2008	Henrico	8	Varicella (chickenpox)	Person-to-Person	School (K-12)
4/23/2008	Virginia Beach	10	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
4/25/2008	Chesapeake	9	Varicella (chickenpox)	Person-to-Person	School (K-12)
5/6/2008	Chesterfield	7	Varicella (chickenpox)	Person-to-Person	School (K-12)
5/7/2008	Henrico	11	Varicella (chickenpox)	Person-to-Person	School (K-12)
5/8/2008	Fairfax	8	Varicella (chickenpox)	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
5/14/2008	Fairfax	11	Norovirus suspected	Person-to-Person	Assisted Living
5/15/2008	Peninsula	16	Influenza	Person-to-Person	Assisted Living
6/6/2008	Henrico	29	Norovirus suspected	Person-to-Person	Daycare / Pre-K
6/12/2008	Alexandria	38	Norovirus	Person-to-Person	School (K-12)
6/18/2008	Thomas Jefferson	23	Norovirus	Person-to-Person	Assisted Living
6/19/2008	Henrico	18	Influenza suspected	Person-to-Person	Assisted Living
6/20/2008	Thomas Jefferson	58	Norovirus	Person-to-Person	Assisted Living
6/24/2008	Alleghany	39	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
6/25/2008	Roanoke	3	<i>Bordetella pertussis</i>	Person-to-Person	Community
6/28/2008	Statewide	14 VA; 104 US	<i>Salmonella ser.</i> <i>Typhimurium</i>	Point Source	Community
6/30/2008	Roanoke	17	Norovirus	Person-to-Person	Assisted Living
7/3/2008	Chesterfield	7	Coxsackieviruses suspected	Person-to-Person	Daycare / Pre-K
7/6/2008	Central Shenandoah	10	<i>Sarcoptes scabiei</i> suspected	Person-to-Person	Assisted Living
7/10/2008	Norfolk	6	Norovirus suspected	Person-to-Person	School (K-12)
7/17/2008	Hampton	17	Norovirus	Person-to-Person	Camp / Campground
7/29/2008	Thomas Jefferson	24	Unknown gastrointestinal illness	Person-to-Person	Camp / Campground
7/31/2008	Alleghany	8	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
8/2/2008	Central Shenandoah	14	Norovirus suspected	Person-to-Person	Private Party
8/3/2008	Rappahannock/ Rapidan	14	Norovirus	Person-to-Person	State Park
8/4/2008	Henrico	7	Norovirus	Person-to-Person	Assisted Living
8/4/2008	Eastern Shore	23	Unknown gastrointestinal illness	Person-to-Person	Daycare / Pre-K
8/11/2008	Eastern Shore	22	Norovirus	Person-to-Person	Daycare / Pre-K
8/14/2008	Henrico	6	Norovirus	Person-to-Person	Restaurant
8/16/2008	Central Shenandoah	44	Norovirus	Person-to-Person	Assisted Living
8/20/2008	Lord Fairfax	40	Norovirus	Person-to-Person	Assisted Living
8/28/2008	Rappahannock/ Rapidan	20	<i>Shigella</i>	Person-to-Person	School (K-12)
9/3/2008	Three Rivers	21	Unknown gastrointestinal illness	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
9/7/2008	Three Rivers	38	Norovirus	Person-to-Person	Assisted Living
9/8/2008	Central Virginia	8	Varicella (chickenpox)	Person-to-Person	School (K-12)
9/9/2008	Peninsula	58	Norovirus	Person-to-Person	School (K-12)
9/10/2008	Loudoun	12	Varicella (chickenpox)	Person-to-Person	School (K-12)
9/11/2008	Chesterfield	6	<i>Staphylococcus aureus</i> , methicillin-resistant	Person-to-Person	School (K-12)
9/12/2008	Henrico	8	Norovirus suspected	Person-to-Person	Assisted Living
9/15/2008	Henrico	5	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
9/19/2008	Pittsylvania/ Danville	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
9/19/2008	Pittsylvania/ Danville	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
9/19/2008	Arlington	15	Norovirus	Person-to-Person	Shelter
9/21/2008	Arlington	49	Norovirus	Person-to-Person	Assisted Living
9/22/2008	Loudoun	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
9/24/2008	Central Shenandoah	40	Norovirus	Person-to-Person	Assisted Living
9/27/2008	Henrico	12	<i>Shigella</i>	Person-to-Person	Daycare / Pre-K
10/1/2008	Loudoun	4	Norovirus suspected	Person-to-Person	Assisted Living
10/1/2008	Prince William	54	Norovirus	Person-to-Person	School (K-12)
10/8/2008	Arlington	4	Unknown respiratory illness	Person-to-Person	Independent Living / Retirement Home
10/9/2008	New River	31	Norovirus	Person-to-Person	Daycare / Pre-K
10/11/2008	Chesterfield	109	Norovirus	Person-to-Person	School (K-12)
10/12/2008	Thomas Jefferson	4	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
10/16/2008	Henrico	30	Norovirus	Person-to-Person	Daycare / Pre-K
10/22/2008	Hampton	7	Norovirus	Person-to-Person	School (K-12)
10/23/2008	Alexandria	65	Norovirus	Person-to-Person	School (K-12)
10/24/2008	Arlington	31	Norovirus	Person-to-Person	Daycare / Pre-K
10/24/2008	Henrico	50	Norovirus	Person-to-Person	School (K-12)
10/27/2008	Alexandria	70	Norovirus	Person-to-Person	Assisted Living
10/31/2008	Fairfax	71	Norovirus	Person-to-Person	Assisted Living
10/31/2008	Thomas Jefferson	16	<i>Bordetella pertussis</i>	Person-to-Person	Community
11/1/2008	Richmond	53	<i>Shigella</i>	Person-to-Person	School (K-12)
11/5/2008	Roanoke	14	Norovirus suspected	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
11/6/2008	New River	74	Norovirus	Person-to-Person	College / University
11/9/2008	Mount Rogers	60	Norovirus	Person-to-Person	Assisted Living
11/10/2008	Lord Fairfax	24	Norovirus	Person-to-Person	Assisted Living
11/11/2008	Fairfax	35	Norovirus	Person-to-Person	Assisted Living
11/11/2008	Loudoun	82	Lice suspected	Person-to-Person	School (K-12)
11/12/2008	Central Shenandoah	8	Varicella (chickenpox)	Person-to-Person	School (K-12)
11/15/2008	Central Shenandoah	21	Norovirus	Person-to-Person	Assisted Living
11/17/2008	Peninsula	4	Influenza suspected	Person-to-Person	Assisted Living
11/18/2008	Fairfax	41	Norovirus	Person-to-Person	Assisted Living
11/18/2008	Fairfax	8	Norovirus	Person-to-Person	Independent Living / Retirement Home
11/19/2008	Richmond	27	Norovirus	Person-to-Person	Daycare / Pre-K
11/21/2008	Virginia Beach	11	Varicella (chickenpox)	Person-to-Person	School (K-12)
11/21/2008	Thomas Jefferson	4	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
11/22/2008	Fairfax	31	Norovirus	Person-to-Person	Assisted Living
11/22/2008	Thomas Jefferson	34	Norovirus	Person-to-Person	Assisted Living
11/24/2008	Arlington	4	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
11/27/2008	Roanoke	45	Norovirus	Person-to-Person	Assisted Living
11/28/2008	Chesterfield	22	Norovirus	Person-to-Person	Assisted Living
12/1/2008	Roanoke	39	Norovirus	Person-to-Person	Assisted Living
12/3/2008	Henrico	6	<i>Shigella</i>	Person-to-Person	Daycare / Pre-K
12/4/2008	New River	74	Norovirus	Person-to-Person	Assisted Living
12/4/2008	Henrico	4	Parvovirus B19 suspected	Person-to-Person	School (K-12)
12/5/2008	Central Shenandoah	29	Norovirus	Person-to-Person	Assisted Living
12/5/2008	Central Shenandoah	45	Norovirus suspected	Person-to-Person	Assisted Living
12/5/2008	Central Virginia	29	Norovirus	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
12/5/2008	Rappahannock	90	Norovirus	Person-to-Person	Assisted Living
12/5/2008	Alleghany	53	Norovirus	Person-to-Person	Independent Living / Retirement Home
12/6/2008	Three Rivers	60	Norovirus suspected	Person-to-Person	Assisted Living
12/7/2008	Alleghany	5	Norovirus	Person-to-Person	Assisted Living
12/7/2008	Central Virginia	21	Norovirus	Person-to-Person	Assisted Living
12/7/2008	Henrico	4	Parvovirus B19 suspected	Person-to-Person	School (K-12)
12/8/2008	Arlington	33	Norovirus	Person-to-Person	Assisted Living
12/8/2008	Crater	39	Norovirus	Person-to-Person	Assisted Living
12/9/2008	Fairfax	34	Norovirus	Person-to-Person	Assisted Living
12/10/2008	Rappahannock	21	Norovirus suspected	Person-to-Person	School (K-12)
12/11/2008	Alleghany	70	Norovirus	Person-to-Person	Assisted Living
12/11/2008	Central Virginia	18	Norovirus	Person-to-Person	Assisted Living
12/13/2008	Crater	14	Norovirus suspected	Person-to-Person	Assisted Living
12/14/2008	Central Shenandoah	135	Norovirus	Person-to-Person	Assisted Living
12/14/2008	Central Virginia	15	Norovirus	Person-to-Person	Assisted Living
12/15/2008	Alleghany	36	Norovirus suspected	Person-to-Person	Assisted Living
12/16/2008	Arlington	14	Norovirus	Person-to-Person	Assisted Living
12/16/2008	Central Shenandoah	7	Norovirus	Person-to-Person	Assisted Living
12/16/2008	Norfolk	19	Norovirus	Person-to-Person	School (K-12)
12/17/2008	West Piedmont	29	Norovirus suspected	Person-to-Person	Assisted Living
12/18/2008	Fairfax	18	Norovirus	Person-to-Person	Assisted Living
12/18/2008	Western Tidewater	10	Norovirus suspected	Person-to-Person	Private Business
12/19/2008	Chesterfield	39	Norovirus suspected	Person-to-Person	Assisted Living
12/20/2008	Crater	49	Norovirus suspected	Person-to-Person	Assisted Living
12/23/2008	Roanoke	28	Norovirus	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2008 (continued)**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
12/25/2008	Central Shenandoah	54	Norovirus	Person-to-Person	Assisted Living
12/25/2008	Fairfax	12	Norovirus	Person-to-Person	Assisted Living
12/25/2008	Fairfax	4	Norovirus	Person-to-Person	Independent Living / Retirement Home
12/27/2008	Lord Fairfax	45	Norovirus	Person-to-Person	Assisted Living
12/30/2008	Fairfax	43	Norovirus	Person-to-Person	Assisted Living

**Waterborne**

The two waterborne outbreaks reported during 2008 involved a hot tub at a hotel and the water system at an assisted living facility. *Pseudomonas* was suspected as the agent in the first event, and *Legionella pneumophila* was confirmed in the second event.

**Waterborne Outbreaks Reported in Virginia, 2008**

<b>Onset Date</b>	<b>Health District</b>	<b>Number of Cases</b>	<b>Etiologic Agent</b>	<b>Vehicle</b>	<b>Place Where Outbreak Occurred</b>
5/18/2008	Alexandria	6	<i>Pseudomonas</i> suspected	Waterborne	Hotel
11/10/2008	Thomas Jefferson	2	<i>Legionella pneumophila</i>	Waterborne	Assisted Living