

## Outbreaks

### Foodborne

During 2009, 10 foodborne outbreaks were reported in Virginia. The number of ill persons per outbreak ranged from two individuals eating raw cookie dough to 19 attendees of a catered event in a private home and 19 attendees of a dinner in a church event. The etiologic agent was confirmed or suspected as bacterial for all ten outbreaks. Four outbreaks were attributed to *Salmonella* (ser. *Enteritidis* and *Typhimurium*), two were attributed to *Campylobacter*, two were attributed to *Staphylococcus aureus*, and one each was attributed to *Escherichia coli* O157 and *Brucella* (sp. *abortus* and *melitensis*). 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 products.

**Foodborne Outbreaks Reported in Virginia, 2009**

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
11/18/2008	Lord Fairfax	16 VA 5 USA	<i>Salmonella</i> ser. Typhimurium	Food vehicle undetermined	Restaurant
1/30/2009	Loudoun	11	<i>Salmonella</i> ser. Enteritidis	Shrimp fried rice suspected	School (K-12)
4/10/2009	Hampton	4	<i>Brucella</i> (sp. <i>abortus</i> and <i>melitensis</i> )	Unpasteurized cheese suspected	Private home
4/12/2009	Lenowisco	8	<i>Salmonella</i> ser. Enteritidis	Unknown	Restaurant
4/14/2009	Chesterfield	6	<i>Campylobacter</i>	Food vehicle undetermined	Out of the U.S.
5/4/2009	Multistate	2 VA 170 USA	<i>Escherichia coli</i> O157	Cookie dough	Private home
5/14/2009	Henrico	19	<i>Staphylococcus aureus</i>	Egg salad sandwich	Daycare / Pre-K
6/8/2009	Eastern Shore	12	<i>Staphylococcus aureus</i> suspected	Chicken strips suspected	Private home
7/1/2009	Thomas Jefferson	19	<i>Salmonella</i> ser. Enteritidis	Cheese lasagna	Private home
8/9/2009	Henrico	17	<i>Campylobacter</i>	Food vehicle undetermined	Restaurant, Private home

## 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 2009 there were 70 healthcare-associated outbreaks reported in Virginia. This is similar to the 68 outbreaks reported in 2008, but a 61% decrease from the 115 outbreaks reported in 2007. Healthcare-associated outbreaks were primarily attributed to person-to-person transmission. The exceptions involved contaminated blood product in a hospital and an environmental exposure in a nursing home. Etiologic agents were confirmed in 44 of the 70 outbreaks, suspected in 12 and unknown in 14. Norovirus was confirmed as the responsible agent in 33 outbreaks and influenza was confirmed in six outbreaks, four of which were further identified as Influenza A (2009 H1N1). *Acinetobacter*, *Babesia*, respiratory syncytial virus, rotavirus, scabies, and *Staphylococcus aureus* were each responsible for one outbreak.

### Healthcare-Associated Outbreaks Reported in Virginia, 2009

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
3/14/2008	Chesterfield	9	<i>Acinetobacter</i>	Environmental	Nursing Home
12/10/2008	Alleghany	20	Influenza suspected	Person-to-Person	Nursing Home
12/21/2008	Loudoun	23	Norovirus	Person-to-Person	Nursing Home
12/26/2008	Central Shenandoah	67	Norovirus	Person-to-Person	Nursing Home
1/12/2009	Henrico	85	Norovirus	Person-to-Person	Nursing Home
1/12/2009	Richmond	30	Norovirus	Person-to-Person	Hospital
1/13/2009	Henrico	43	Norovirus	Person-to-Person	Nursing Home
1/15/2009	Alleghany	43	Norovirus	Person-to-Person	Nursing Home
1/17/2009	Loudoun	18	Norovirus	Person-to-Person	Nursing Home
1/17/2009	Norfolk	53	Norovirus	Person-to-Person	Nursing Home
1/19/2009	Peninsula	19	Unknown respiratory illness	Person-to-Person	Nursing Home
1/20/2009	Crater	3	Norovirus	Person-to-Person	Hospital
1/21/2009	Crater	27	Norovirus	Person-to-Person	Hospital
1/21/2009	Peninsula	36	Unknown respiratory illness	Person-to-Person	Nursing Home

**Healthcare-Associated Outbreaks Reported in Virginia, 2009 (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>
1/22/2009	Norfolk	6	Influenza	Person-to-Person	Nursing Home
1/25/2009	Prince William	69	Rotavirus	Person-to-Person	Nursing Home
1/25/2009	Hampton	18	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
1/26/2009	Peninsula	43	Norovirus	Person-to-Person	Nursing Home
1/26/2009	Henrico	5	Norovirus	Person-to-Person	Nursing Home
1/26/2009	Southside	44	Norovirus	Person-to-Person	Nursing Home
1/27/2009	Peninsula	5	Norovirus	Person-to-Person	Nursing Home
1/27/2009	Alleghany	14	Norovirus suspected	Person-to-Person	Nursing Home
1/28/2009	Virginia Beach	33	Norovirus	Person-to-Person	Nursing Home
1/29/2009	Peninsula	17	Norovirus	Person-to-Person	Nursing Home
1/29/2009	Virginia Beach	26	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
1/30/2009	Richmond	27	Norovirus	Person-to-Person	Nursing Home
2/2/2009	Virginia Beach	26	Norovirus	Person-to-Person	Nursing Home
2/3/2009	Fairfax	23	Norovirus	Person-to-Person	Nursing Home
2/4/2009	Roanoke	65	Norovirus suspected	Person-to-Person	Nursing Home
2/5/2009	Piedmont	31	Norovirus	Person-to-Person	Hospital
2/10/2009	Norfolk	11	Unknown gastrointestinal illness	Person-to-Person	Outpatient Care Facility
2/11/2009	Eastern Shore	39	Norovirus	Person-to-Person	Nursing Home
2/13/2009	Henrico	5	<i>Staphylococcus aureus</i>	Person-to-Person	Hospital
2/16/2009	Thomas Jefferson	38	Respiratory syncytial virus suspected	Person-to-Person	Nursing Home
2/18/2009	Three Rivers	60	Norovirus	Person-to-Person	Nursing Home
2/19/2009	Prince William	13	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
2/20/2009	Chesterfield	63	Norovirus suspected	Person-to-Person	Nursing Home
2/20/2009	Fairfax	11	Unknown gastrointestinal illness	Person-to-Person	Nursing Home
2/23/2009	Mount Rogers	10	Norovirus	Person-to-Person	Nursing Home

**Healthcare-Associated Outbreaks Reported in Virginia, 2009 (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>
2/27/2009	Fairfax	2	Influenza B virus	Person-to-Person	Nursing Home
3/2/2009	Henrico	21	Norovirus suspected	Person-to-Person	Nursing Home
3/5/2009	Virginia Beach	52	Norovirus	Person-to-Person	Nursing Home
3/6/2009	Chesterfield	47	Norovirus	Person-to-Person	Nursing Home
3/7/2009	Peninsula	50	Norovirus	Person-to-Person	Nursing Home
3/10/2009	Norfolk	11	Unknown gastrointestinal illness	Person-to-Person	Hospital
3/11/2009	Henrico	20	Norovirus suspected	Person-to-Person	Nursing Home
3/13/2009	Peninsula	57	Norovirus	Person-to-Person	Nursing Home
3/16/2009	Portsmouth	29	Norovirus	Person-to-Person	Hospital
3/18/2009	Southside	44	Norovirus	Person-to-Person	Nursing Home
3/18/2009	Henrico	20	Norovirus suspected	Person-to-Person	Nursing Home
3/25/2009	Southside	8	Norovirus	Person-to-Person	Nursing Home
3/31/2009	Western Tidewater	6	Scabies	Person-to-Person	Hospital
4/13/2009	Henrico	22	Unknown respiratory illness	Person-to-Person	Nursing Home
5/1/2009	New River	15	Unknown respiratory illness	Person-to-Person	Nursing Home
5/20/2009	Norfolk	5	Unknown respiratory illness	Person-to-Person	Nursing Home
6/17/2009	Loudoun	4	Influenza A (2009 H1N1)	Person-to-Person	Outpatient Care Facility
7/22/2009	Richmond	4	<i>Babesia</i>	Other (blood transfusion)	Hospital
8/7/2009	Crater	11	Unknown respiratory illness	Person-to-Person	Nursing Home
8/18/2009	Norfolk	15	Influenza A (2009 H1N1)	Person-to-Person	Outpatient Care Facility
8/31/2009	Alleghany	2	Pediculus suspected	Person-to-Person	Nursing Home
9/14/2009	Lord Fairfax	22	Unknown respiratory illness	Person-to-Person	Nursing Home
9/24/2009	Mount Rogers	27	Influenza A (2009 H1N1)	Person-to-Person	Outpatient Care Facility
10/3/2009	Central Shenandoah	39	Norovirus	Person-to-Person	Nursing Home
10/3/2009	Central Shenandoah	10	Unknown respiratory illness	Person-to-Person	Nursing Home
10/21/2009	Cumberland Plateau	5	Influenza suspected	Person-to-Person	Medical Facility (Non LTC Related)

### Healthcare-Associated Outbreaks Reported in Virginia, 2009 (continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
10/24/2009	Central Virginia	26	Influenza suspected	Person-to-Person	Medical Facility (Non LTC Related)
10/25/2009	Fairfax	19	Influenza A (2009 H1N1)	Person-to-Person	Nursing Home
11/18/2009	Central Shenandoah	23	Norovirus suspected	Person-to-Person	Nursing Home
12/14/2009	Piedmont	28	Norovirus	Person-to-Person	Nursing Home
12/26/2009	Three Rivers	41	Norovirus	Person-to-Person	Nursing Home

### Waterborne

The one waterborne outbreak reported during 2009 involved a group of visiting out-of-state students who experienced a painful rash after using the pool and hot tub located at their hotel. *Pseudomonas* was suspected as the etiologic agent.

### Waterborne Outbreaks Reported in Virginia, 2009

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
4/6/2009	Peninsula	11	<i>Pseudomonas</i> suspected	Waterborne	Hotel

### Other

Among the outbreaks reported in Virginia during 2009, 292 were not foodborne, healthcare-associated or waterborne. The etiologic agent was confirmed in 201 (69%), was suspected in 79 (27%) and was unknown in 12 (4%). Where an agent was confirmed, 182 were attributed to viruses, including norovirus (86), influenza (74), varicella (18), rotavirus (2), hepatitis B (1), and respiratory syncytial virus (1). Eighteen outbreaks were attributed to confirmed bacterial agents, including *Bordetella pertussis* (10), *Salmonella* (5), *Shigella* (2), and *Clostridium difficile* (1). One additional outbreak with a confirmed etiologic agent was attributed to a parasitic mite, *Sarcoptes scabiei* (scabies). The three most common settings where these outbreaks occurred were schools/universities (43%); assisted living facilities (33%); and daycare/pre-K settings (8%).

### Other Outbreaks Reported in Virginia, 2009

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
11/1/2008	Richmond	12	Hepatitis B virus	Person-to-Person	Assisted Living
11/21/2008	Thomas Jefferson	5	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
11/25/2008	Virginia Beach	10	<i>Salmonella ser. Typhimurium</i>	Animal-to-Person	Private Home
12/1/2008	Henrico	2	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
12/11/2008	Thomas Jefferson	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
12/13/2008	Southside	7	Varicella (chickenpox)	Person-to-Person	School (K-12)
12/25/2008	Fairfax	4	Norovirus	Person-to-Person	Independent Living / Retirement Home
12/27/2008	Three Rivers	80	Norovirus	Person-to-Person	Assisted Living
12/30/2008	Fairfax	43	Norovirus	Person-to-Person	Assisted Living
12/30/2008	Central Shenandoah	25	Norovirus suspected	Person-to-Person	Assisted Living
12/31/2008	Loudoun	17	<i>Clostridium difficile</i> and norovirus	Person-to-Person	Assisted Living
12/31/2008	Chesapeake	14	Norovirus	Person-to-Person	Assisted Living
1/1/2009	Virginia Beach	62	Norovirus	Person-to-Person	Assisted Living
1/2/2009	Henrico	84	Influenza	Person-to-Person	School (K-12)
1/3/2009	Norfolk	4	Norovirus	Person-to-Person	Assisted Living
1/3/2009	Central Shenandoah	50	Norovirus suspected	Person-to-Person	Assisted Living
1/5/2009	Chesterfield	13	Norovirus suspected	Person-to-Person	Community Service Center
1/6/2009	Chesapeake	12	Norovirus	Person-to-Person	Assisted Living
1/6/2009	Norfolk	37	Norovirus	Person-to-Person	Assisted Living
1/6/2009	Chesapeake	12	Norovirus suspected	Person-to-Person	Assisted Living
1/7/2009	Virginia Beach	75	Norovirus	Person-to-Person	Assisted Living
1/7/2009	Pittsylvania/Danville	30	Norovirus	Person-to-Person	Assisted Living
1/7/2009	Chesterfield	3	Respiratory syncytial virus suspected	Person-to-Person	Daycare / Pre-K
1/8/2009	Chesterfield	20	Norovirus suspected	Person-to-Person	Daycare / Pre-K
1/10/2009	Arlington	42	Norovirus	Person-to-Person	Assisted Living
1/10/2009	Loudoun	3	Norovirus suspected	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2009 (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>
1/10/2009	Central Shenandoah	45	Norovirus suspected	Person-to-Person	Assisted Living
1/10/2009	Henrico	4	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
1/11/2009	Fairfax	48	Norovirus	Person-to-Person	Assisted Living
1/12/2009	Lord Fairfax	7	Norovirus	Person-to-Person	Assisted Living
1/12/2009	Peninsula	45	Norovirus	Person-to-Person	Assisted Living
1/12/2009	Lord Fairfax	9	Norovirus	Person-to-Person	Assisted Living
1/12/2009	Richmond	19	Norovirus suspected	Person-to-Person	Independent Living / Retirement Home
1/12/2009	Piedmont	69	Human parvovirus B19 suspected	Person-to-Person	School (K-12)
1/13/2009	Loudoun	5	Norovirus	Person-to-Person	Assisted Living
1/13/2009	Cumberland Plateau	13	Norovirus	Person-to-Person	Assisted Living
1/14/2009	Peninsula	41	Norovirus	Person-to-Person	Assisted Living
1/15/2009	Fairfax	32	Norovirus	Person-to-Person	Assisted Living
1/16/2009	Chesterfield	91	Norovirus	Person-to-Person	Assisted Living
1/16/2009	New River	20	Norovirus	Person-to-Person	Assisted Living
1/16/2009	Alleghany	50	Norovirus	Person-to-Person	Assisted Living
1/17/2009	Three Rivers	60	Norovirus	Person-to-Person	Assisted Living
1/17/2009	Norfolk	30	Norovirus	Person-to-Person	Assisted Living
1/18/2009	Peninsula	58	Norovirus	Person-to-Person	Assisted Living
1/19/2009	Virginia Beach	51	Norovirus	Person-to-Person	Rehabilitation Facility
1/20/2009	Norfolk	12	Norovirus	Person-to-Person	Rehabilitation Facility
1/20/2009	Rappahannock/ Rapidan	131	Norovirus	Person-to-Person	Nursing Home
1/20/2009	Three Rivers	8	Unknown respiratory illness	Person-to-Person	Assisted Living
1/20/2009	New River	27	Norovirus	Person-to-Person	College / University
1/21/2009	Peninsula	25	Norovirus suspected	Person-to-Person	Independent Living / Retirement Home

**Other Outbreaks Reported in Virginia, 2009 (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>
1/21/2009	Piedmont	12	Human parvovirus B19 suspected	Person-to-Person	School (K-12)
1/22/2009	Richmond	35	Norovirus	Person-to-Person	Assisted Living
1/22/2009	Prince William	8	Varicella (chickenpox)	Person-to-Person	School (K-12)
1/23/2009	Fairfax	9	Norovirus	Person-to-Person	Assisted Living
1/23/2009	Peninsula	19	Norovirus	Person-to-Person	Assisted Living
1/23/2009	Henrico	28	Influenza	Person-to-Person	Correctional Facility
1/23/2009	Chesterfield	3	Norovirus	Person-to-Person	School (K-12)
1/24/2009	Fairfax	34	Norovirus	Person-to-Person	Assisted Living
1/24/2009	Chesterfield	18	Norovirus suspected	Person-to-Person	Assisted Living
1/25/2009	Piedmont	60	Norovirus	Person-to-Person	Nursing Home
1/25/2009	Three Rivers	14	Norovirus	Person-to-Person	Assisted Living
1/26/2009	Rappahannock	45	Norovirus	Person-to-Person	Assisted Living
1/26/2009	Richmond	7	Norovirus	Person-to-Person	Assisted Living
1/26/2009	Loudoun	37	Norovirus suspected	Person-to-Person	Assisted Living
1/26/2009	Henrico	59	Norovirus suspected	Person-to-Person	School (K-12)
1/27/2009	Thomas Jefferson	20	Varicella (chickenpox)	Person-to-Person	School (K-12)
1/27/2009	Henrico	12	Norovirus suspected	Person-to-Person	School (K-12)
1/28/2009	Three Rivers	34	Norovirus	Person-to-Person	Assisted Living
1/28/2009	Chesapeake	11	Norovirus	Person-to-Person	Assisted Living
1/28/2009	Alexandria	140	Influenza	Person-to-Person	School (K-12)
1/29/2009	Central Shenandoah	40	Norovirus	Person-to-Person	Assisted Living
1/29/2009	Loudoun	4	Norovirus	Person-to-Person	Assisted Living
1/29/2009	Virginia Beach	19	Norovirus	Person-to-Person	Daycare/ Pre-K
1/31/2009	Cumberland Plateau	12	Norovirus	Person-to-Person	Assisted Living
1/31/2009	Alleghany	146	Norovirus	Person-to-Person	Rehabilitation Facility
2/2/2009	Rappahannock	34	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
2/4/2009	Rappahannock	33	Norovirus	Person-to-Person	Assisted Living
2/4/2009	Rappahannock Rapidan	6	Influenza A and B viruses	Person-to-Person	School (K-12)
2/5/2009	Central Shenandoah	115	Norovirus	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2009 (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>
2/6/2009	Henrico	76	Norovirus suspected	Person-to-Person	School (K-12)
2/8/2009	Peninsula	77	Norovirus	Person-to-Person	Assisted Living
2/8/2009	Peninsula	40	Norovirus	Person-to-Person	Assisted Living
2/8/2009	Pittsylvania/ Danville	19	Norovirus	Person-to-Person	Rehabilitation Facility
2/8/2009	Virginia Beach	18	Norovirus	Person-to-Person	Private home
2/9/2009	Three Rivers	76	Norovirus	Person-to-Person	Assisted Living
2/9/2009	Virginia Beach	22	Norovirus	Person-to-Person	Assisted Living
2/9/2009	Pittsylvania/ Danville	5	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
2/9/2009	Mount Rogers	9	Varicella (chickenpox)	Person-to-Person	School (K-12)
2/10/2009	Fairfax	47	Norovirus	Person-to-Person	Assisted Living
2/12/2009	Fairfax	10	Norovirus	Person-to-Person	Assisted Living
2/12/2009	Central Shenandoah	27	Influenza	Person-to-Person	School (K-12)
2/14/2009	Piedmont	25	Norovirus	Person-to-Person	Assisted Living
2/14/2009	Chesapeake	47	Norovirus	Person-to-Person	Assisted Living
2/16/2009	Chesterfield	7	Norovirus suspected	Person-to-Person	Independent Living / Retirement Home
2/17/2009	Prince William	62	Norovirus	Person-to-Person	School (K-12)
2/17/2009	Henrico	9	Human parvovirus B19 suspected	Person-to-Person	School (K-12)
2/17/2009	Thomas Jefferson	60	Influenza suspected	Person-to-Person	School (K-12)
2/18/2009	Crater	7	Unknown respiratory illness	Person-to-Person	Assisted Living
2/20/2009	Piedmont	49	Norovirus	Person-to-Person	Assisted Living
2/21/2009	Henrico	5	Norovirus suspected	Person-to-Person	Assisted Living
2/21/2009	Norfolk	7	Norovirus suspected	Person-to-Person	Assisted Living
2/23/2009	Peninsula	100	Norovirus suspected	Person-to-Person	School (K-12)
2/24/2009	Mount Rogers	10	Varicella (chickenpox)	Person-to-Person	School (K-12)
2/28/2009	Crater	79	Norovirus	Person-to-Person	Assisted Living
3/2/2009	Fairfax	31	Norovirus	Person-to-Person	Assisted Living
3/2/2009	Henrico	30	Norovirus	Person-to-Person	Assisted Living
3/2/2009	Peninsula	41	Norovirus	Person-to-Person	Assisted Living

**Other Outbreaks Reported in Virginia, 2009 (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>
3/4/2009	Crater	38	Norovirus	Person-to-Person	Assisted Living
3/4/2009	Arlington	29	Norovirus suspected	Person-to-Person	Assisted Living
3/4/2009	Henrico	13	Norovirus suspected	Person-to-Person	Assisted Living
3/5/2009	Mount Rogers	9	Varicella (chickenpox)	Person-to-Person	School (K-12)
3/6/2009	Chesterfield	19	Norovirus	Person-to-Person	Assisted Living
3/6/2009	Crater	17	Rotavirus	Person-to-Person	Assisted Living
3/9/2009	Fairfax	18	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
3/9/2009	Eastern Shore	60	Influenza B virus	Person-to-Person	School (K-12)
3/10/2009	Rappahannock/ Rapidan	5	Norovirus	Person-to-Person	Assisted Living
3/10/2009	Lord Fairfax	28	Varicella (chickenpox)	Person-to-Person	School (K-12)
3/14/2009	Virginia Beach	43	Norovirus	Person-to-Person	Assisted Living
3/16/2009	Cumberland Plateau	8	Norovirus	Person-to-Person	Independent Living / Retirement Home
3/23/2009	Peninsula	4	Rotavirus	Person-to-Person	Assisted Living
3/24/2009	Lord Fairfax	26	Varicella (chickenpox)	Person-to-Person	School (K-12)
3/24/2009	Lord Fairfax	7	Varicella (chickenpox)	Person-to-Person	School (K-12)
3/25/2009	Three Rivers	35	Norovirus	Person-to-Person	Nursing Home
3/26/2009	Henrico	15	Norovirus	Person-to-Person	Assisted Living
3/27/2009	Richmond	9	Norovirus	Person-to-Person	Assisted Living
4/3/2009	Southside	72	Norovirus	Person-to-Person	Assisted Living
4/3/2009	Chesterfield	18	Respiratory syncytial virus	Person-to-Person	Assisted Living
4/5/2009	New River	9	Norovirus	Person-to-Person	Restaurant
4/8/2009	Chickahominy	3	<i>Bordetella pertussis</i>	Person-to-Person	Community
4/9/2009	Chesterfield	4	Rotavirus suspected	Person-to-Person	Daycare / Pre-K
4/9/2009	Prince William	15	Unknown gastrointestinal illness	Person-to-Person	Private Group/ Business
4/10/2009	Richmond	5	Norovirus	Person-to-Person	Daycare / Pre-K
4/16/2009	Henrico	2	<i>Shigella</i>	Person-to-Person	Daycare / Pre-K
4/16/2009	Henrico	16	Norovirus suspected	Person-to-Person	School (K-12)
4/17/2009	Fairfax	25	Unknown gastrointestinal illness	Person-to-Person	Restaurant
4/18/2009	Crater	14	Norovirus	Person-to-Person	Assisted Living
4/19/2009	Lord Fairfax	10	Varicella (chickenpox)	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2009 (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>
4/20/2009	Crater	25	Epstein-Barr virus suspected	Person-to-Person	Military Base
4/23/2009	West Piedmont	20	Norovirus suspected	Person-to-Person	Daycare / Pre-K
4/25/2009	Central Shenandoah	53	Influenza A (2009 H1N1)	Person-to-Person	College / University
4/26/2009	Alexandria	13	Influenza A (H3)	Person-to-Person	School (K-12)
4/29/2009	Richmond	28	<i>Sarcoptes scabiei</i> (scabies) suspected	Person-to-Person	School (K-12)
4/30/2009	Alexandria	5	Influenza A (2009 H1N1)	Person-to-Person	Work place
5/1/2009	Henrico	5	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
5/5/2009	Arlington	3	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
5/6/2009	Out of State	3	<i>Salmonella ser. Johannesburg</i>	Animal-to-Person	Private home
5/10/2009	Virginia Beach	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
5/13/2009	Fairfax	23	Norovirus	Person-to-Person	Hotel / Resort
5/15/2009	Fairfax	5	Influenza A (2009 H1N1)	Person-to-Person	Hotel / Resort
5/22/2009	Henrico	5	Human parvovirus B19 suspected	Person-to-Person	School (K-12)
5/23/2009	Fairfax	31	Norovirus	Person-to-Person	Daycare / Pre-K
5/24/2009	Chesterfield	21	Influenza A (2009 H1N1)	Person-to-Person	Correctional Facility
5/26/2009	Norfolk	35	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
5/27/2009	Virginia Beach	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
5/29/2009	Chesapeake	15	Influenza A (2009 H1N1)	Person-to-Person	Assisted Living
6/1/2009	Peninsula	13	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/4/2009	Arlington	25	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/4/2009	Alexandria	47	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/4/2009	Peninsula	12	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/4/2009	Alexandria	39	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/5/2009	Alexandria	44	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/5/2009	Peninsula	14	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/7/2009	Crater	18	<i>Shigella</i>	Person-to-Person	Daycare / Pre-K
6/7/2009	Prince William	30	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/8/2009	Virginia Beach	31	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
6/8/2009	Henrico	7	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2009 (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>
6/8/2009	Prince William	2	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/9/2009	Henrico	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
6/11/2009	Portsmouth	42	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
6/12/2009	Alexandria	33	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/17/2009	Loudoun	20	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
6/22/2009	Prince William	17	<i>Salmonella</i> ser. Typhimurium	Animal-to-Person	Daycare / Pre-K
6/23/2009	Rappahannock/ Rapidan	19	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
6/23/2009	Thomas Jefferson	24	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
7/4/2009	Chesterfield	30	Unknown respiratory illness	Person-to-Person	Assisted Living
7/4/2009	Henrico	5	<i>Bordetella pertussis</i>	Person-to-Person	Daycare/ Pre-K
7/8/2009	Peninsula	15	Norovirus	Person-to-Person	Daycare / Pre-K
7/14/2009	Out of State	2	<i>Salmonella</i> ser. Typhimurium	Animal-to-Person	Private Home
7/17/2009	Norfolk	22	Influenza A (2009 H1N1)	Person-to-Person	College / University
7/17/2009	Arlington	10	Influenza A (unknown subtype)	Person-to-Person	Daycare / Pre-K
7/18/2009	Rappahannock/ Rapidan	19	Influenza suspected	Person-to-Person	Nursing Home
7/19/2009	Three Rivers	5	Influenza suspected	Person-to-Person	Nursing Home
7/20/2009	Central Shenandoah	8	Influenza	Person-to-Person	Camp / Campground
7/21/2009	Central Shenandoah	20	Influenza	Person-to-Person	Camp / Campground
7/26/2009	Eastern Shore	42	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
7/30/2009	Peninsula	13	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
7/31/2009	Chesterfield	11	Influenza A (2009 H1N1)	Person-to-Person	Daycare / Pre-K
8/1/2009	Portsmouth	7	Influenza A (2009 H1N1)	Person-to-Person	Daycare / Pre-K
8/4/2009	Mount Rogers	13	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
8/6/2009	New River	12	Influenza	Person-to-Person	Daycare / Pre-K
8/6/2009	Out of State	4	<i>Salmonella</i> ser. Newport	Animal-to-Person	Private Home
8/7/2009	Virginia Beach	29	Norovirus	Person-to-Person	Nursing Home
8/10/2009	Thomas Jefferson	95	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2009 (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>
8/12/2009	Thomas Jefferson	121	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
8/13/2009	Alexandria	16	Influenza suspected	Person-to-Person	School (K-12)
8/17/2009	Eastern Shore	50	Influenza suspected	Person-to-Person	Camp / Campground
8/24/2009	Henrico	30	Influenza A (2009 H1N1)	Person-to-Person	College / University
8/24/2009	Thomas Jefferson	16	Influenza A (2009 H1N1) and Human parainfluenza virus 1	Person-to-Person	School (K-12)
8/25/2009	New River	10	Influenza suspected	Person-to-Person	School (K-12)
8/26/2009	Central Shenandoah	175	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
8/27/2009	Richmond	11	Norovirus suspected	Person-to-Person	Assisted Living
8/27/2009	Arlington	8	Unknown respiratory illness	Person-to-Person	Assisted Living
8/31/2009	Chickahominy	5	Influenza A (unknown subtype)	Person-to-Person	College / University
9/1/2009	Virginia Beach	10	Norovirus suspected	Person-to-Person	Assisted Living
9/1/2009	Fairfax	3	<i>Bordetella pertussis</i>	Person-to-Person	Daycare/ Pre-K
9/2/2009	New River	4	Influenza A (2009 H1N1)	Person-to-Person	College / University
9/3/2009	Fairfax	24	<i>Sarcoptes scabiei</i> (scabies)	Person-to-Person	Assisted Living
9/6/2009	Prince William	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
9/8/2009	Rappahannock	18	Influenza	Person-to-Person	Military Base
9/9/2009	Chickahominy	90	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/12/2009	Thomas Jefferson	50	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/13/2009	Mount Rogers	30	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
9/16/2009	Lenowisco	49	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/18/2009	Thomas Jefferson	34	Influenza suspected	Person-to-Person	School (K-12)
9/18/2009	Cumberland Plateau	25	Influenza suspected	Person-to-Person	School (K-12)
9/19/2009	Thomas Jefferson	95	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/20/2009	Henrico	35	Unknown respiratory illness	Person-to-Person	Assisted Living
9/21/2009	Thomas Jefferson	159	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/21/2009	Thomas Jefferson	42	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/21/2009	Pittsylvania/ Danville	123	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2009 (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>
9/21/2009	Thomas Jefferson	36	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/21/2009	Thomas Jefferson	50	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/22/2009	Thomas Jefferson	45	Influenza suspected	Person-to-Person	School (K-12)
9/22/2009	Cumberland Plateau	57	Influenza suspected	Person-to-Person	School (K-12)
9/23/2009	Mount Rogers	26	Influenza suspected	Person-to-Person	Assisted Living
9/23/2009	Thomas Jefferson	110	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/24/2009	Cumberland Plateau	41	Influenza suspected	Person-to-Person	School (K-12)
9/25/2009	Fairfax	3	<i>Bordetella pertussis</i>	Person-to-Person	School (K-12)
9/25/2009	Cumberland Plateau	87	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/25/2009	Cumberland Plateau	87	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/25/2009	Cumberland Plateau	28	Influenza suspected	Person-to-Person	School (K-12)
9/26/2009	Hampton	11	Norovirus suspected	Person-to-Person	Assisted Living
9/28/2009	Central Shenandoah	153	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
9/28/2009	Prince William	8	Influenza suspected	Person-to-Person	School (K-12)
9/28/2009	Cumberland Plateau	22	Influenza suspected	Person-to-Person	School (K-12)
9/30/2009	Virginia Beach	6	Varicella (chickenpox)	Person-to-Person	School (K-12)
10/1/2009	Loudoun	127	Influenza suspected	Person-to-Person	School (K-12)
10/1/2009	Loudoun	50	Influenza suspected	Person-to-Person	School (K-12)
10/2/2009	Cumberland Plateau	62	Influenza suspected	Person-to-Person	School (K-12)
10/2/2009	Crater	143	Influenza suspected	Person-to-Person	School (K-12)
10/5/2009	Southside	17	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/5/2009	Lord Fairfax	37	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/5/2009	Alexandria	25	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/6/2009	Arlington	261	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/6/2009	Lord Fairfax	77	Influenza suspected	Person-to-Person	School (K-12)
10/8/2009	Eastern Shore	125	Norovirus	Person-to-Person	School (K-12)
10/9/2009	Thomas Jefferson	147	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/9/2009	Cumberland Plateau	12	Influenza suspected	Person-to-Person	School (K-12)
10/9/2009	Henrico	15	Influenza suspected	Person-to-Person	School (K-12)
10/9/2009	Alexandria	100	Influenza suspected	Person-to-Person	School (K-12)
10/10/2009	Thomas Jefferson	59	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)

**Other Outbreaks Reported in Virginia, 2009 (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>
10/10/2009	Thomas Jefferson	30	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/12/2009	Rappahannock/ Rapidan	13	Influenza suspected	Person-to-Person	Daycare / Pre-K
10/12/2009	Loudoun	13	Influenza	Person-to-Person	School (K-12)
10/14/2009	Peninsula	6	Unknown respiratory illness	Person-to-Person	Assisted Living
10/15/2009	Virginia Beach	22	Influenza A (2009 H1N1)	Person-to-Person	Camp / Campground
10/15/2009	Eastern Shore	84	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/15/2009	Thomas Jefferson	7	<i>Sarcoptes scabiei</i> (scabies) suspected	Person-to-Person	Shelter
10/16/2009	Prince William	109	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/16/2009	Henrico	134	Influenza suspected	Person-to-Person	School (K-12)
10/17/2009	Mount Rogers	10	Influenza A (2009 H1N1)	Person-to-Person	Assisted Living
10/17/2009	Prince William	46	Influenza A (2009 H1N1)	Person-to-Person	School (K-12)
10/19/2009	Fairfax	33	Influenza suspected	Person-to-Person	Daycare / Pre-K
10/19/2009	Henrico	108	Influenza suspected	Person-to-Person	School (K-12)
10/19/2009	Henrico	6	Influenza suspected	Person-to-Person	School (K-12)
10/19/2009	Henrico	55	Influenza suspected	Person-to-Person	School (K-12)
10/19/2009	Alexandria	50	Influenza suspected	Person-to-Person	School (K-12)
10/20/2009	Eastern Shore	33	Influenza suspected	Person-to-Person	Daycare / Pre-K
10/22/2009	Virginia Beach	81	Influenza suspected	Person-to-Person	Daycare / Pre-K
10/22/2009	Virginia Beach	5	Varicella (chickenpox)	Person-to-Person	School (K-12)
10/22/2009	Virginia Beach	100	Influenza suspected	Person-to-Person	School (K-12)
10/23/2009	Thomas Jefferson	60	Influenza suspected	Person-to-Person	School (K-12)
10/24/2009	Chickahominy	34	Influenza suspected	Person-to-Person	Correctional Facility
10/24/2009	Thomas Jefferson	9	Influenza suspected	Person-to-Person	School (K-12)
10/24/2009	Loudoun	50	Influenza suspected	Person-to-Person	School (K-12)
10/26/2009	Lord Fairfax	8	Influenza suspected	Person-to-Person	Assisted Living
10/26/2009	Virginia Beach	11	Influenza suspected	Person-to-Person	School (K-12)
11/1/2009	Lord Fairfax	4	Influenza suspected	Person-to-Person	Daycare / Pre-K
11/2/2009	Alexandria	60	Influenza suspected	Person-to-Person	School (K-12)
11/5/2009	Henrico	5	Influenza suspected	Person-to-Person	School (K-12)
11/13/2009	Cumberland Plateau	20	Influenza A (2009 H1N1)	Person-to-Person	Correctional Facility
12/4/2009	Fairfax	33	Norovirus	Person-to-Person	Daycare / Pre-K
12/7/2009	Norfolk	11	Influenza suspected	Person-to-Person	Daycare / Pre-K

**Other Outbreaks Reported in Virginia, 2009 (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>
12/11/2009	Fairfax	9	Norovirus	Person-to-Person	Assisted Living
12/13/2009	Thomas Jefferson	22	Norovirus	Person-to-Person	Private Home
12/20/2009	Henrico	21	Norovirus	Person-to-Person	Assisted Living
12/23/2009	Central Shenandoah	10	Unknown gastrointestinal illness	Person-to-Person	Assisted Living
12/25/2009	Chesterfield	10	Tinea corporis suspected	Person-to-Person	School (K-12)
12/26/2009	Three Rivers	30	Norovirus	Person-to-Person	Assisted Living
12/28/2009	Rappahannock	31	Varicella (chickenpox)	Person-to-Person	School (K-12)
12/29/2009	Prince William	44	Norovirus	Person-to-Person	Assisted Living
4/1/2010	Lenowisco	21	Influenza suspected	Person-to-Person	School (K-12)
9/25/2010	Piedmont	180	Influenza A (2009 H1N1)	Person-to-Person	College / University