

Outbreaks

Foodborne

During 2006, 24 foodborne outbreaks were reported in Virginia (see Table 8). The number of ill persons per outbreak ranged from four attendees at a party to 203 staff and inmates at a correctional facility. The etiologic agent was confirmed or suspected to be viral for 10 outbreaks (all norovirus), bacterial for 10, and biologically produced toxins in the remaining four. Of the bacterial outbreaks, five were attributed to *Salmonella* (ser. Enteritidis, Javiana, Tennessee and Typhimurium), two were due to *Campylobacter jejuni*, and two were due to *Staphylococcus aureus*. Scombroid fish poisoning was believed to be responsible for two outbreaks. *Clostridium perfringens* was responsible for a single outbreak and a bacterial toxin was suspected in another. 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.

Table 8. Foodborne Outbreaks Reported in Virginia, 2006

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
January	Statewide	44 VA 714 US	<i>Salmonella</i> ser. Tennessee	Peanut butter	Community
1/24/2006	New River	24	Norovirus	Hot dog buns suspected	School
2/4/2006	Rappahannock	12	Norovirus	Food vehicle undetermined	Restaurant
2/6/2006	Mount Rogers	4	Norovirus	Pizza, chicken wraps	Private Group/Party
2/13/2006	Chesterfield	40	<i>Salmonella</i> ser. Typhimurium	Turkey	Correctional Facility
2/24/2006	Chesterfield	10	Norovirus	Food vehicle undetermined	Restaurant
3/18/2006	Peninsula	6	Histamine (Scombroid)	Tuna	Restaurant
3/29/2006	Central Virginia	6	<i>Clostridium perfringens</i>	Food vehicle undetermined	Restaurant
4/14/2006	Thomas Jefferson	25	Norovirus	Food vehicle undetermined	Private Club
4/16/2006	Loudoun	36	<i>Staphylococcus aureus</i>	Beef apanado de res, potato salad, rice	Church Dinner
4/26/2006	Mount Rogers	6	Norovirus suspected	Food vehicle undetermined	Restaurant
5/8/2006	Three Rivers	9	<i>Campylobacter jejuni</i>	Unpasteurized milk	Community
5/9/2006	Western Tidewater	28	Norovirus	Food vehicle undetermined	Private Group
6/25/2006	Lenowisco	15	Norovirus	Ham salad	Private Group/Party
7/23/2006	Chickahominy	15	<i>Campylobacter jejuni</i>	Watermelon	Private Group/Party
8/5/2006	Mount Rogers, Loudoun	2 VA 199 US	<i>Escherichia coli</i>	Spinach	Community

Table 8. Foodborne Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
8/18/2006	Chesapeake	203	Bacterial toxin suspected	Rice suspected	Correctional Facility
9/16/2006	Central Virginia	80	<i>Staphylococcus aureus</i>	Ham biscuits, chicken, and/or potato salad	Catered Event
9/16/2006	Fairfax, Cumberland Plateau	3 VA 190 US	<i>Salmonella ser. Typhimurium</i>	Tomatoes suspected	Community
9/19/2006	Richmond	9	Norovirus	Salad (lettuce, arugula, grape tomatoes)	Catered Event
10/5/2006	Alexandria	40	Norovirus	Salad, fruit appetizer	Cruise Ship
11/1/2006	Statewide	46 VA 61 US	<i>Salmonella ser. Javiana</i>	Food vehicle undetermined	Community
11/24/2006	Alexandria	6	Histamine (Scombroid) suspected	Tuna suspected	Restaurant
12/16/2006	Alexandria	7	<i>Salmonella ser. Enteritidis</i>	Food vehicle undetermined	Restaurant

Healthcare-Associated

A healthcare-associated outbreak is a group of illnesses with a common etiology among patients in a medical care facility (hospital or nursing home), where the patients acquired the illness while confined to that facility. There were 116 healthcare-associated outbreaks reported in Virginia during 2006 (see Table 9.) This is an increase from 90 in 2005 and 46 in 2004 and is likely to reflect increased reporting due to outreach by health districts to assist healthcare facilities in controlling outbreaks. Healthcare-associated outbreaks were primarily attributed to person-to-person transmission. The exceptions among events reported in 2006 were one due to bloodborne transmission, one associated with intravenous fluid administration and one that involved environmental exposure. Etiologic agents were confirmed in 89 of the 116 outbreaks, suspected in 25 and unknown in two. Norovirus was confirmed as the responsible agent in 58 outbreaks, 20 were confirmed as due to influenza, four were due to *Chlamydomydia pneumonia*, two were due to rotavirus and two were due to scabies. Acinetobacter, hepatitis C, and methicillin-resistant *Staphylococcus aureus* were each responsible for one outbreak.

Table 9. Healthcare-Associated Outbreaks Reported in Virginia, 2006

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
12/20/2005	Lenowisco	8	Acinetobacter	Person-to-Person	Long-Term Care Facility
1/3/2006	Fairfax	51	Norovirus	Person-to-Person	Long-Term Care Facility
1/6/2006	Henrico	16	Norovirus	Person-to-Person	Long-Term Care Facility

Table 9. Healthcare-Associated Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
1/8/2006	Cumberland Plateau	17	Influenza A	Person-to-Person	Long-Term Care Facility
1/10/2006	Arlington	37	Norovirus	Person-to-Person	Long-Term Care Facility
1/11/2006	Chesterfield	120	Norovirus	Person-to-Person	Long-Term Care Facility
1/13/2006	Rappahannock-Rapidan	54	Norovirus suspected	Person-to-Person	Long-Term Care Facility
1/14/2006	Chesterfield	92	Norovirus	Person-to-Person	Long-Term Care Facility
1/18/2006	Loudoun	61	Norovirus	Person-to-Person	Long-Term Care Facility
1/18/2006	Alexandria	38	Norovirus	Person-to-Person	Long-Term Care Facility
1/23/2006	West Piedmont	11	Norovirus suspected	Person-to-Person	Long-Term Care Facility
1/24/2006	Henrico	17	Norovirus suspected	Person-to-Person	Long-Term Care Facility
February	Fairfax	18	Scabies	Person-to-Person	Long-Term Care Facility
2/1/2006	Richmond	7	Hepatitis C	Bloodborne	Ambulatory Care Facility
2/1/2006	Three Rivers	11	Influenza A	Person-to-Person	Long-Term Care Facility
2/1/2006	Three Rivers	66	Norovirus	Person-to-Person	Long-Term Care Facility
2/8/2006	Crater	36	Norovirus	Person-to-Person	Long-Term Care Facility
2/10/2006	Loudoun	53	Norovirus	Person-to-Person	Long-Term Care Facility
2/12/2006	Southside	36	Norovirus suspected	Person-to-Person	Long-Term Care Facility
2/15/2006	Mount Rogers	9	Influenza	Person-to-Person	Long-Term Care Facility
2/15/2006	Henrico	7	Norovirus suspected	Person-to-Person	Long-Term Care Facility
2/19/2006	New River	28	Influenza	Person-to-Person	Long-Term Care Facility
2/19/2006	Chesterfield	18	Norovirus	Person-to-Person	Long-Term Care Facility
2/20/2006	Pittsylvania-Danville	87	Influenza A	Person-to-Person	Long-Term Care Facility
2/20/2006	West Piedmont	15	Influenza A	Person-to-Person	Long-Term Care Facility
2/21/2006	Mount Rogers	9	Influenza	Person-to-Person	Long-Term Care Facility
2/21/2006	Alleghany	82	Norovirus suspected	Person-to-Person	Long-Term Care Facility
2/23/2006	Eastern Shore	13	Influenza A	Person-to-Person	Long-Term Care Facility

Table 9. Healthcare-Associated Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
2/26/2006	Chickahominy	69	Influenza A	Person-to-Person	Rehabilitation Facility
2/27/2006	Fairfax	139	Norovirus	Person-to-Person	Long-Term Care Facility
3/1/2006	Central Virginia	37	Unknown respiratory condition	Person-to-Person	Long-Term Care Facility
3/5/2006	Eastern Shore	7	Influenza A	Person-to-Person	Long-Term Care Facility
3/8/2006	Peninsula	7	Norovirus suspected	Person-to-Person	Long-Term Care Facility
3/9/2006	Crater	13	Influenza A	Person-to-Person	Long-Term Care Facility
3/9/2006	Richmond	21	Influenza	Person-to-Person	Long-Term Care Facility
3/11/2006	Central Virginia	10	Influenza A	Person-to-Person	Long-Term Care Facility
3/11/2006	West Piedmont	30	Norovirus	Person-to-Person	Long-Term Care Facility
3/12/2006	Norfolk	17	Rotavirus	Person-to-Person	Long-Term Care Facility
3/15/2006	Peninsula	5	Influenza A	Person-to-Person	Long-Term Care Facility
3/20/2006	Crater	27	Influenza A	Person-to-Person	Long-Term Care Facility
3/22/2006	Henrico	4	Influenza	Person-to-Person	Long-Term Care Facility
3/22/2006	Peninsula	14	Influenza A	Person-to-Person	Long-Term Care Facility
3/25/2006	Henrico	20	Influenza suspected	Person-to-Person	Long-Term Care Facility
3/25/2006	New River	17	Influenza A	Person-to-Person	Long-Term Care Facility
3/26/2006	Peninsula	7	Influenza	Person-to-Person	Long-Term Care Facility
3/27/2006	Hampton	17	Norovirus suspected	Person-to-Person	Long-Term Care Facility
4/3/2006	Peninsula	3	Influenza A	Person-to-Person	Long-Term Care Facility
4/5/2006	Chesterfield	11	Norovirus	Person-to-Person	Long-Term Care Facility
4/12/2006	Chesterfield	28	Norovirus	Person-to-Person	Long-Term Care Facility
4/17/2006	Alexandria	49	Norovirus	Person-to-Person	Long-Term Care Facility
4/27/2006	Richmond	8	Norovirus	Person-to-Person	Long-Term Care Facility
4/27/2006	Thomas Jefferson	35	Norovirus	Person-to-Person	Long-Term Care Facility
5/1/2006	Peninsula	30	Norovirus	Person-to-Person	Long-Term Care Facility

Table 9. Healthcare-Associated Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
5/1/2006	Central Virginia	42	Norovirus	Person-to-Person	Long-Term Care Facility
5/5/2006	Three Rivers	13	Norovirus suspected	Person-to-Person	Long-Term Care Facility
5/22/2006	Virginia Beach	42	<i>Chlamydomphila pneumoniae</i>	Person-to-Person	Long-Term Care Facility
5/25/2006	Chickahominy	16	Norovirus suspected	Person-to-Person	Long-Term Care Facility
6/5/2006	Norfolk	6	Rotavirus	Person-to-Person	Long-Term Care Facility
6/9/2006	Chesapeake	13	<i>Chlamydomphila pneumoniae</i>	Person-to-Person	Long-Term Care Facility
6/10/2006	Roanoke	4	<i>Staphylococcus aureus</i> , methicillin-resistant	Person-to-Person/ Environment	Hospital
6/16/2006	Thomas Jefferson	32	Unknown	IV related	Hospital
6/18/2006	Eastern Shore	44	Norovirus	Person-to-Person	Long-Term Care Facility
6/23/2006	Chesterfield	145	<i>Chlamydomphila pneumoniae</i>	Person-to-Person	Long-Term Care Facility
7/5/2006	Peninsula	26	<i>Chlamydomphila pneumoniae</i>	Person-to-Person	Long-Term Care Facility
7/7/2006	Virginia Beach	40	Norovirus	Person-to-Person	Long-Term Care Facility
7/10/2006	Hampton	42	Norovirus	Person-to-Person	Hospital
7/11/2006	West Piedmont	22	Norovirus	Person-to-Person	Long-Term Care Facility
7/13/2006	Cumberland Plateau	36	Norovirus	Person-to-Person	Long-Term Care Facility
7/14/2006	Hampton	27	Norovirus	Person-to-Person	Long-Term Care Facility
7/16/2006	Central Virginia	19	Norovirus suspected	Person-to-Person	Long-Term Care Facility
7/20/2006	New River	42	Norovirus	Person-to-Person	Long-Term Care Facility
8/3/2006	New River	97	Norovirus	Person-to-Person	Long-Term Care Facility
9/13/2006	Mount Rogers	24	Norovirus	Person-to-Person	Long-Term Care Facility
9/29/2006	Henrico	38	Norovirus suspected	Person-to-Person	Long-Term Care Facility
10/5/2006	Lord Fairfax	24	Norovirus	Person-to-Person	Long-Term Care Facility
10/16/2006	Central Shenandoah	165	Norovirus	Person-to-Person	Long-Term Care Facility
10/18/2006	Rappahannock	71	Norovirus	Person-to-Person	Long-Term Care Facility
10/27/2006	Central Virginia	31	Norovirus	Person-to-Person	Long-Term Care Facility
11/1/2006	Alexandria	36	Norovirus	Person-to-Person	Long-Term Care Facility

Table 9. Healthcare-Associated Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
11/6/2006	Three Rivers	6	Norovirus	Person-to-Person	Long-Term Care Facility
11/6/2006	Alleghany	85	Norovirus suspected	Person-to-Person	Long-Term Care Facility
11/7/2006	Fairfax	77	Norovirus	Person-to-Person	Long-Term Care Facility
11/22/2006	Central Virginia	47	Norovirus	Person-to-Person	Long-Term Care Facility
11/23/2006	Alleghany	27	Norovirus suspected	Person-to-Person	Long-Term Care Facility
11/23/2006	Alleghany	23	Norovirus suspected	Person-to-Person	Long-Term Care Facility
11/24/2006	Rappahannock-Rapidan	46	Norovirus	Person-to-Person	Long-Term Care Facility
11/24/2006	Alleghany	11	Norovirus suspected	Person-to-Person	Long-Term Care Facility
11/27/2006	Henrico	86	Norovirus	Person-to-Person	Long-Term Care Facility
11/28/2006	West Piedmont	31	Norovirus	Person-to-Person	Long-Term Care Facility
11/29/2006	Peninsula	74	Norovirus	Person-to-Person	Long-Term Care Facility
11/30/2006	West Piedmont	25	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/1/2006	Mount Rogers	17	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/1/2006	Mount Rogers	57	Norovirus	Person-to-Person	Long-Term Care Facility
12/1/2006	West Piedmont	13	Norovirus	Person-to-Person	Long-Term Care Facility
12/5/2006	Pittsylvania-Danville	40	Norovirus	Person-to-Person	Long-Term Care Facility
12/5/2006	Roanoke	107	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/8/2006	Central Shenandoah	69	Norovirus	Person-to-Person	Long-Term Care Facility
12/11/2006	Henrico	50	Norovirus	Person-to-Person	Long-Term Care Facility
12/11/2006	Hampton	37	Norovirus	Person-to-Person	Long-Term Care Facility
12/11/2006	Alleghany	40	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/12/2006	Fairfax	27	Norovirus	Person-to-Person	Long-Term Care Facility
12/12/2006	Mount Rogers	26	Norovirus	Person-to-Person	Long-Term Care Facility
12/12/2006	Henrico	4	Scabies	Person-to-Person	Long-Term Care Facility
12/13/2006	Crater	52	Norovirus	Person-to-Person	Long-Term Care Facility

Table 9. Healthcare-Associated Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
12/13/2006	Roanoke	6	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/16/2006	Alleghany	10	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/17/2006	Chesterfield	170	Norovirus	Person-to-Person	Long-Term Care Facility
12/20/2006	Southside	44	Norovirus	Person-to-Person	Long-Term Care Facility
12/21/2006	Southside	64	Norovirus	Person-to-Person	Long-Term Care Facility
12/24/2006	Crater	12	Norovirus	Person-to-Person	Hospital
12/27/2006	Lord Fairfax	11	Norovirus	Person-to-Person	Long-Term Care Facility
12/28/2006	Loudoun	54	Norovirus	Person-to-Person	Long-Term Care Facility
12/29/2006	Mount Rogers	35	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/29/2006	Pittsylvania-Danville	50	Norovirus suspected	Person-to-Person	Long-Term Care Facility
12/30/2006	Crater	22	Norovirus	Person-to-Person	Long-Term Care Facility
12/31/2006	Peninsula	99	Norovirus	Person-to-Person	Long-Term Care Facility

Other

One hundred twenty-four outbreaks were reported in Virginia during 2006 that were not foodborne, healthcare-associated or waterborne (see Table 10). The etiologic agent was confirmed in 109 (88%), was suspected in 13 (10%) and was unknown in two. Among the outbreaks where an agent was confirmed, 110 were attributed to viruses, including chickenpox, norovirus, influenza, rotavirus, hepatitis A, mumps, and *Molluscipoxvirus*. Eight were attributed to bacterial agents, including a methicillin-resistant *Staphylococcus aureus* (MRSA) outbreak in a daycare facility. Two were caused by environmental factors (heat, and heat with sociogenic illness), one outbreak was attributed to mites and one to a fungus. Fifty-seven of the outbreaks occurred in schools (including one in a university), 31 were in assisted living facilities and 14 occurred in child or adult daycare settings.

Table 10. Other Outbreaks Reported in Virginia, 2006

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
11/2/2005	Crater	9	Ringworm	Person-to-Person	School
1/1/2006	Crater	53	Unknown gastrointestinal illness	Person-to-Person	School
1/3/2006	Arlington	26	Norovirus	Person-to-Person	Assisted Living

Table 10. Other Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
1/5/2006	Virginia Beach	47	Varicella (Chickenpox)	Person-to-Person	Elementary School
1/10/2006	Lenowisco	61	Varicella (Chickenpox)	Person-to-Person	Elementary School
1/11/2006	Central Virginia	18	Varicella (Chickenpox)	Person-to-Person	Elementary School
1/12/2006	Fairfax	21	Norovirus	Person-to-Person	Adult Day Care
1/12/2006	Fairfax	5	Varicella (Chickenpox)	Person-to-Person	Daycare Center and Assisted Living
1/14/2006	Fairfax	14	Norovirus suspected	Person-to-Person	Assisted Living
1/16/2006	Three Rivers	13	Varicella (Chickenpox)	Person-to-Person	Elementary School
1/20/2006	Lenowisco	8	Varicella (Chickenpox)	Person-to-Person	Middle School
1/22/2006	Central Shenandoah	11	Varicella (Chickenpox)	Person-to-Person	Middle School
1/23/2006	Fairfax	13	Norovirus	Person-to-Person	Adult Day Care
1/24/2006	Lenowisco	5	Varicella (Chickenpox)	Person-to-Person	Primary School
1/27/2006	Thomas Jefferson	6	Varicella (Chickenpox)	Person-to-Person	Elementary Schools
2/1/2006	Cumberland Plateau	18	Influenza A	Person-to-Person	Retirement Home
2/1/2006	Crater	5	Varicella (Chickenpox)	Person-to-Person	Elementary School
2/3/2006	Fairfax	7	Unknown gastrointestinal illness	Person-to-Person	Adult Day Care
2/9/2006	Lenowisco	7	Varicella (Chickenpox)	Person-to-Person	Schools
2/9/2006	Lenowisco	5	Varicella (Chickenpox)	Person-to-Person	Middle School
2/10/2006	Thomas Jefferson	6	Hepatitis A	Person-to-Person	Household
2/10/2006	Crater	152	Influenza A	Person-to-Person	School
2/13/2006	Prince William	50	Norovirus	Person-to-Person	Assisted Living
2/14/2006	Peninsula	9	Influenza A	Person-to-Person	Assisted Living
2/14/2006	Loudoun	9	Norovirus suspected	Person-to-Person	Private Business (non-restaurant)
2/14/2006	Fairfax	8	Varicella (Chickenpox)	Person-to-Person	School and Long-Term Care Facility
2/16/2006	Mount Rogers	6	Influenza	Person-to-Person	Retirement Home
2/21/2006	Prince William	27	Rotavirus	Person-to-Person	Daycare Center

Table 10. Other Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
2/21/2006	Fairfax	30	Norovirus	Person-to-Person	Assisted Living
2/22/2006	Virginia Beach	24	Varicella (Chickenpox)	Person-to-Person	Elementary School
2/26/2006	Cumberland Plateau	15	Influenza A	Person-to-Person	Assisted Living
2/27/2006	Lenowisco	5	Varicella (Chickenpox)	Person-to-Person	Primary School
2/28/2006	Henrico	56	Norovirus	Person-to-Person	Assisted Living
3/1/2006	Lord Fairfax	7	Norovirus	Person-to-Person	School
3/2/2006	Virginia Beach	29	Influenza suspected	Person-to-Person	School
3/2/2006	Thomas Jefferson	19	Norovirus	Person-to-Person	Assisted Living
3/3/2006	Crater	12	Molluscum contagiosum	Person-to-Person	Daycare Center
3/4/2006	Alexandria	14	Norovirus	Person-to-Person	Assisted Living
3/6/2006	Loudoun	39	Influenza suspected	Person-to-Person	School
3/8/2006	Arlington	27	Rotavirus	Person-to-Person	Daycare Center
3/10/2006	Virginia Beach	7	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/10/2006	Prince William	5	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/12/2006	New River	11	Varicella (Chickenpox)	Person-to-Person	Middle School
3/13/2006	Cumberland Plateau	14	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/14/2006	Rappahannock, Lenowisco	2 VA 56 US	<i>Salmonella ser.</i> Montevideo	Point Source	Community
3/14/2006	Arlington	14	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/20/2006	Fairfax	5	Varicella (Chickenpox)	Person-to-Person	School
3/22/2006	Prince William	9	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/23/2006	Peninsula	6	Influenza	Person-to-Person	Assisted Living
3/24/2006	Cumberland Plateau	14	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/27/2006	Crater	234	Influenza	Person-to-Person	School
3/27/2006	Western Tidewater	210	Influenza	Person-to-Person	School
3/28/2006	Rappahannock-Rapidan	21	Varicella (Chickenpox)	Person-to-Person	Elementary School
3/30/2006	Thomas Jefferson	24	Norovirus suspected	Person-to-Person	Assisted Living
4/1/2006	Henrico	20	Norovirus suspected	Person-to-Person	Assisted Living
4/2/2006	Fairfax	6	Varicella (Chickenpox)	Person-to-Person	Elementary School

Table 10. Other Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
4/3/2006	Loudoun	6	Varicella (Chickenpox)	Person-to-Person	Elementary School
4/9/2006	Thomas Jefferson	7	Norovirus	Person-to-Person	Assisted Living
4/9/2006	Alexandria	13	Rotavirus	Person-to-Person	Private Business (non restaurant)
4/25/2006	Rappahannock-Rapidan	4	<i>Salmonella ser. Infantis</i>	Point Source	Daycare Center
4/25/2006	Fairfax	9	Varicella (Chickenpox)	Person-to-Person	Elementary School
5/1/2006	Rappahannock-Rapidan	8	Varicella (Chickenpox)	Person-to-Person	School
5/8/2006	Chesterfield	9	Norovirus	Person-to-Person	Assisted Living
5/9/2006	Fairfax	5	Varicella (Chickenpox)	Person-to-Person	Elementary School
5/11/2006	Fairfax	11	Varicella (Chickenpox)	Person-to-Person	Elementary School
5/18/2006	Fairfax	13	Norovirus	Person-to-Person	Rehabilitation Center
5/23/2006	Henrico	8	Varicella (Chickenpox)	Person-to-Person	Middle School
June	Fairfax	8	Norovirus	Person-to-Person	Swim Team
6/7/2006	Peninsula	2	<i>Bordetella pertussis</i>	Person-to-Person	Military Base
6/12/2006	Arlington	5	Varicella (Chickenpox)	Person-to-Person	Daycare Center
6/13/2006	Fairfax	16	Norovirus	Person-to-Person	Private Group/Party
7/3/2006	Three Rivers	96	Norovirus	Person-to-Person	Campground
7/10/2006	Peninsula	16	Norovirus	Person-to-Person	Daycare Center
8/1/2006	Fairfax	8	<i>Staphylococcus aureus</i> , methicillin-resistant	Person-to-Person/Environment	Daycare Center
8/5/2006	Hampton	11	Norovirus	Person-to-Person	Assisted Living
8/14/2006	Fairfax	9	Scabies	Person-to-Person	Daycare Center
8/28/2006	Fairfax	7	<i>Shigella</i>	Person-to-Person	Daycare Center
8/29/2006	Crater	8	Varicella (Chickenpox)	Person-to-Person	Military Base
8/31/2006	Cumberland Plateau	33	Viral conjunctivitis suspected	Person-to-Person	School
8/31/2006	Pittsylvania-Danville	33	Varicella (Chickenpox)	Person-to-Person	Elementary School
8/31/2006	Rappahannock-Rapidan	13	Varicella (Chickenpox)	Person-to-Person	Elementary School
9/7/2006	Henrico	15	Varicella (Chickenpox)	Person-to-Person	Elementary School
9/13/2006	Central Shenandoah	36	Varicella (Chickenpox)	Person-to-Person	Elementary School

Table 10. Other Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
9/13/2006	Crater	14	Varicella (Chickenpox)	Person-to-Person	Elementary School
9/13/2006	Fairfax	4	Varicella (Chickenpox)	Person-to-Person	Elementary School
9/20/2006	Alexandria	14	Norovirus	Person-to-Person	School
9/24/2006	Thomas Jefferson	64	Mumps	Person-to-Person	University
9/25/2006	Chesterfield	31	<i>Shigella sonnei</i>	Person-to-Person	School
9/27/2006	Mount Rogers	24	Varicella (Chickenpox)	Person-to-Person	Elementary School
10/2/2006	Virginia Beach	123	Norovirus	Person-to-Person	School
10/4/2006	Southside	13	Heat Exhaustion and Sociogenic Illness	Environmental/ Sociogenic	School
10/6/2006	Mount Rogers	27	Varicella (Chickenpox)	Person-to-Person	Elementary School
10/7/2006	Mount Rogers	10	Varicella (Chickenpox)	Person-to-Person	Middle School
10/9/2006	Fairfax	19	Norovirus	Person-to-Person	Assisted Living
10/10/2006	Western Tidewater	3	Norovirus	Person-to-Person	Cruise Ship
10/10/2006	Virginia Beach	15	Norovirus	Person-to-Person	Private Business (non-restaurant)
10/10/2006	Fairfax	8	Varicella (Chickenpox)	Person-to-Person	Elementary School
10/15/2006	Virginia Beach	5	Norovirus	Person-to-Person	Hotel
10/15/2006	Henrico	3	Heat Exposure	Environmental	Independent Living Facility
10/17/2006	New River	12	Varicella (Chickenpox)	Person-to-Person	Elementary School
10/19/2006	Lord Fairfax	5	Norovirus suspected	Person-to-Person	Assisted Living
10/22/2006	Peninsula	187	Norovirus	Person-to-Person	School
10/30/2006	Alexandria	9	Varicella (Chickenpox)	Person-to-Person	Elementary School
11/1/2006	Peninsula	35	Norovirus	Person-to-Person	Assisted Living
11/2/2006	Loudoun	4	<i>Bordetella pertussis</i>	Person-to-Person	Community
11/2/2006	Alleghany	11	Norovirus	Person-to-Person	Private Business (non-restaurant)
11/7/2006	Lord Fairfax	29	Norovirus	Person-to-Person	Assisted Living
11/11/2006	Fairfax	9	Norovirus	Person-to-Person	Private group/party
11/15/2006	Alleghany	44	Norovirus suspected	Person-to-Person	Assisted Living
11/24/2006	Portsmouth	30	Norovirus suspected	Person-to-Person	Assisted Living
11/30/2006	Norfolk	47	Norovirus	Person-to-Person	Military Base

Table 10. Other Outbreaks Reported in Virginia, 2006 (Continued)

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
12/6/2006	Alleghany	124	Norovirus suspected	Person-to-Person	Assisted Living
12/9/2006	Henrico	45	Norovirus	Person-to-Person	Daycare Center
12/10/2006	Chesterfield	39	Norovirus suspected	Person-to-Person	Assisted Living
12/10/2006	Fairfax	47	Norovirus	Person-to-Person	Retirement Home
12/13/2006	New River	26	Norovirus	Person-to-Person	Assisted Living
12/17/2006	Chickahominy	13	Norovirus suspected	Person-to-Person	Assisted Living
12/18/2006	Lord Fairfax	20	Norovirus	Person-to-Person	Assisted Living
12/18/2006	Lord Fairfax	20	Norovirus	Person-to-Person	Assisted Living
12/20/2006	Arlington	11	Norovirus	Person-to-Person	Private Business (non-restaurant)
12/22/2006	Henrico	45	Norovirus	Person-to-Person	Assisted Living
12/26/2006	Thomas Jefferson	49	Norovirus suspected	Person-to-Person	Assisted Living
12/27/2006	Lord Fairfax	20	Norovirus	Person-to-Person	Assisted Living

Waterborne

The two waterborne outbreaks reported during 2006 involved a hotel and a waterpark. The agent was not determined in one, but *Giardia lamblia* was confirmed as the agent in the other event. (See Table 11)

Table 11. Waterborne Outbreaks Reported in Virginia, 2006

Onset Date	Health District	Number of Cases	Etiologic Agent	Vehicle	Place Where Outbreak Occurred
3/18/2006	Fairfax	30	Unknown - rash	Waterborne	Hotel
7/15/2006	Rappahannock	12	<i>Giardia lamblia</i>	Waterborne	Waterpark