

Table 2 - Page 1 of 4. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by etiology* and food commodity --- United States, 2007†

Etiology	Outbreaks (Illnesses) Attributed to a Single Commodity										Outbreaks (Illnesses) Attributed to a Single Commodity	Outbreaks (Illnesses) Attributed to Food Vehicle Containing > 1 Commodity	Outbreaks (Illnesses) Attributed to Unknown Commodity	Total Outbreaks (Illnesses)	
	Aquatic Animals			Land Animals											
				Meat-Poultry											
	Shellfish			Meat				Poultry							
	Finfish	Crustaceans	Mollusks	Dairy	Eggs	Beef	Game	Pork	Poultry						
Bacterial															
<i>Salmonella</i> §	1 (44)	-- --	-- --	2 (33)	5 (150)	2 (55)	-- --	6 (208)	6 (64)	32 (816)	39 (1,939)	71 (760)	142 (3,515)		
<i>Clostridium perfringens</i>	-- --	-- --	-- --	-- --	-- --	7 (206)	-- --	2 (35)	10 (281)	21 (652)	18 (535)	6 (419)	45 (1,606)		
<i>Staphylococcus enterotoxin</i> ¶	-- --	-- --	-- --	-- --	-- --	-- --	-- --	3 (97)	3 (80)	7 (186)	7 (59)	7 (41)	21 (286)		
<i>Escherichia coli</i> , Shiga toxin-producing**	-- --	-- --	-- --	-- --	-- --	15 (298)	-- --	-- --	-- --	18 (341)	3 (30)	21 (232)	42 (603)		
<i>Campylobacter</i> ††	-- --	-- --	-- --	10 (196)	-- --	0 (0)	-- --	-- --	3 (27)	15 (252)	1 (48)	11 (72)	27 (372)		
<i>Bacillus cereus</i>	-- --	-- --	-- --	-- --	-- --	0 (0)	-- --	1 (27)	1 (16)	4 (51)	9 (75)	6 (38)	19 (164)		
<i>Shigella</i> §§	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (16)	3 (132)	0 (0)	8 (223)	11 (355)		
<i>Vibrio parahaemolyticus</i>	-- --	-- --	1 (5)	-- --	-- --	-- --	-- --	-- --	-- --	1 (5)	0 (0)	0 (0)	1 (5)		
<i>Listeria</i> ¶¶	-- --	-- --	-- --	1 (5)	-- --	-- --	-- --	-- --	-- --	1 (5)	0 (0)	0 (0)	1 (5)		
<i>Clostridium botulinum</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (4)	2 (10)	1 (2)	4 (16)		
<i>Brucella</i> spp	-- --	-- --	-- --	1 (3)	-- --	-- --	-- --	-- --	-- --	1 (3)	0 (0)	0 (0)	1 (3)		
<i>Escherichia coli</i> , Enterotoxigenic	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (76)	1 (66)	2 (142)		
<i>Yersinia enterocolitica</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)		
Other bacterial	-- --	-- --	-- --	-- --	-- --	1 (32)	-- --	-- --	-- --	1 (32)	1 (3)	2 (8)	4 (43)		
Bacterial Total	1 (44)	0 (0)	1 (5)	14 (237)	5 (150)	25 (591)	0 (0)	12 (367)	24 (484)	105 (2,479)	81 (2,775)	134 (1,861)	320 (7,115)		
Viral															
Norovirus	-- --	1 (5)	3 (57)	2 (43)	-- --	2 (8)	-- --	3 (78)	3 (27)	39 (800)	69 (1,819)	209 (5,405)	317 (8,024)		
Hepatitis A	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (3)	1 (15)	2 (10)	4 (28)		
Rotavirus	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	2 (18)	2 (18)		
Other viral	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	1 (17)	1 (17)		
Viral Total	0 (0)	1 (5)	3 (57)	2 (43)	0 (0)	2 (8)	0 (0)	3 (78)	3 (27)	40 (803)	70 (1,834)	214 (5,450)	324 (8,087)		
Chemical Total	34 (159)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	41 (180)	3 (7)	5 (23)	49 (210)		
Parasitic Total	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	3 (45)	5 (65)		
Single Etiology (subtotal)	35 (203)	1 (5)	6 (69)	16 (280)	5 (150)	27 (599)	-- --	16 (447)	27 (511)	186 (3,462)	156 (4,636)	356 (7,379)	698 (15,477)		
Unknown Etiology***	6 (26)	-- --	3 (15)	-- --	-- --	4 (51)	-- --	4 (99)	11 (133)	40 (531)	66 (687)	257 (3,904)	363 (5,122)		
Multiple Etiologies*	-- --	-- --	-- --	1 (11)	-- --	2 (17)	-- --	1 (28)	2 (47)	9 (126)	13 (376)	14 (143)	36 (645)		
Total 2007	41 (229)	1 (5)	9 (84)	17 (291)	5 (150)	33 (667)	0 (0)	21 (574)	40 (691)	235 (4,119)	235 (5,699)	627 (11,426)	1097 (21,244)		

* If all reported etiologies were laboratory-confirmed, the outbreak was considered to have a "confirmed etiology". If at least one etiology was not lab-confirmed, but an etiology was reported based on clinical or epidemiologic features, the outbreak was considered to have a "suspected etiology".

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§ *Salmonella* serotypes accounting for more than five outbreaks reported include: Enteritidis (30 outbreaks), Typhimurium (20), Newport (17), and Heidelberg (9), and Montevideo (9).

¶ *Staphylococcus aureus* (11 confirmed outbreaks, 9 suspected outbreaks) and *Staphylococcus* unknown (1 suspected outbreak)

** STEC O111 (1 confirmed outbreak), STEC O157:H7 (36 confirmed outbreaks, 2 suspected outbreaks), and STEC O157:NM(H-) (3 confirmed outbreaks)

†† *Campylobacter jejuni* (14 confirmed outbreaks, 3 suspected outbreaks) and *Campylobacter* unknown (7 confirmed outbreaks, 3 suspected outbreaks)

§§ *Shigella sonnei* (9 confirmed outbreaks, 1 suspected outbreak) and *Shigella* unknown (1 confirmed outbreak)

¶¶ *Listeria monocytogenes* (1 confirmed outbreak)

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Table 2 - Page 2 of 4. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by etiology* and food commodity --- United States, 2007†

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	Plants											
	Produce											
	Vegetables											
	Grains-Beans	Oils-Sugars	Fruits-Nuts	Fungi	Leafy	Root	Sprout	Vine-Stalk				
Bacterial												
<i>Salmonella</i> §	1 (3)	1 (14)	1 (11)	-- --	2 (87)	-- --	3 (59)	2 (88)	32 (816)	39 (1,939)	71 (760)	142 (3,515)
<i>Clostridium perfringens</i>	2 (130)	-- --	-- --	-- --	-- --	-- --	-- --	-- --	21 (652)	18 (535)	6 (419)	45 (1,606)
<i>Staphylococcus enterotoxin</i> ¶	1 (9)	-- --	-- --	-- --	-- --	-- --	-- --	-- --	7 (186)	7 (59)	7 (41)	21 (286)
<i>Escherichia coli</i> , Shiga toxin-producing**	-- --	-- --	1 (9)	-- --	2 (34)	-- --	-- --	-- --	18 (341)	3 (30)	21 (232)	42 (603)
<i>Campylobacter</i> ††	-- --	1 (3)	-- --	-- --	1 (26)	-- --	-- --	-- --	15 (252)	1 (48)	11 (72)	27 (372)
<i>Bacillus cereus</i>	2 (8)	-- --	-- --	-- --	-- --	-- --	-- --	-- --	4 (51)	9 (75)	6 (38)	19 (164)
<i>Shigella</i> §§	-- --	-- --	-- --	-- --	2 (116)	-- --	-- --	-- --	3 (132)	0 (0)	8 (223)	11 (355)
<i>Vibrio parahaemolyticus</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (5)	0 (0)	0 (0)	1 (5)
<i>Listeria</i> ¶¶	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (5)	0 (0)	0 (0)	1 (5)
<i>Clostridium botulinum</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (4)	1 (4)	2 (10)	1 (2)	4 (16)
<i>Brucella</i> spp	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (3)	0 (0)	0 (0)	1 (3)
<i>Escherichia coli</i> , Enterotoxigenic	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (76)	1 (66)	2 (142)
<i>Yersinia enterocolitica</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
Other bacterial	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (32)	1 (3)	2 (8)	4 (43)
Bacterial Total	6 (150)	2 (17)	2 (20)	0 (0)	7 (263)	0 (0)	3 (59)	3 (92)	105 (2,479)	81 (2,775)	134 (1,861)	320 (7,115)
Viral												
Norovirus	-- --	1 (5)	7 (197)	-- --	13 (315)	2 (30)	-- --	2 (35)	39 (800)	69 (1,819)	209 (5,405)	317 (8,024)
Hepatitis A	-- --	-- --	1 (3)	-- --	-- --	-- --	-- --	-- --	1 (3)	1 (15)	2 (10)	4 (28)
Rotavirus	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	2 (18)	2 (18)
Other viral	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	1 (17)	1 (17)
Viral Total	0 (0)	1 (5)	8 (200)	0 (0)	13 (315)	2 (30)	0 (0)	2 (35)	40 (803)	70 (1,834)	214 (5,450)	324 (8,087)
Chemical Total	0 (0)	0 (0)	1 (2)	3 (10)	0 (0)	0 (0)	0 (0)	0 (0)	41 (180)	3 (7)	5 (23)	49 (210)
Parasitic Total	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	3 (45)	5 (65)
Single Etiology (subtotal)	6 (150)	3 (22)	11 (222)	3 (10)	20 (578)	2 (30)	3 (59)	5 (127)	186 (3,462)	156 (4,636)	356 (7,379)	698 (15,477)
Unknown Etiology***	4 (135)	-- --	5 (35)	-- --	1 (4)	1 (5)	-- --	1 (28)	40 (531)	66 (687)	257 (3,904)	363 (5,122)
Multiple Etiologies*	2 (15)	-- --	-- --	-- --	1 (8)	-- --	-- --	-- --	9 (126)	13 (376)	14 (143)	36 (645)
Total 2007	12 (300)	3 (22)	16 (257)	3 (10)	22 (590)	3 (35)	3 (59)	6 (155)	235 (4,119)	235 (5,699)	627 (11,426)	1097 (21,244)

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	Aquatic Animals			Land Animals									
	Shellfish			Meat-Poultry			Poultry						
	Finfish	Crustaceans	Mollusks	Dairy	Eggs	Beef	Game	Pork	Poultry				
Chemical													
Scombroid toxin/Histamine	19 (72)	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	19 (72)	1 (2)	0 (0)	20 (74)
Ciguatoxin	13 (81)	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	13 (81)	1 (3)	0 (0)	14 (84)
Mycotoxins	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	3 (10)	0 (0)	0 (0)	3 (10)
Neurotoxic shellfish poison	-- --	-- --	1 (3)	-- --	-- --	-- --	-- --	-- --	-- --	1 (3)	0 (0)	0 (0)	1 (3)
Puffer fish tetrodotoxin	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (2)	0 (0)	1 (2)
Heavy metals	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	1 (3)	1 (3)
Paralytic shellfish poison	-- --	-- --	1 (4)	-- --	-- --	-- --	-- --	-- --	-- --	1 (4)	0 (0)	0 (0)	1 (4)
Other natural toxins	1 (4)	-- --	-- --	-- --	-- --	-- --	-- --	1 (2)	-- --	2 (6)	0 (0)	1 (6)	3 (12)
Other chemical	1 (2)	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	2 (4)	0 (0)	3 (14)	5 (18)
Chemical Total	34 (159)	0 (0)	2 (7)	0 (0)	0 (0)	0 (0)	0 (0)	1 (2)	0 (0)	41 (180)	3 (7)	5 (23)	49 (210)
Parasitic													
<i>Cryptosporidium</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (5)	2 (9)	3 (14)
<i>Cyclospora</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
<i>Giardia</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (15)	1 (36)	2 (51)
<i>Trichinella</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
Other parasitic	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
Parasitic Total	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	3 (45)	5 (65)
Bacterial Total	1 (44)	0 (0)	1 (5)	14 (237)	5 (150)	25 (591)	0 (0)	12 (367)	24 (484)	105 (2,479)	81 (2,775)	134 (1,861)	320 (7,115)
Viral Total	0 (0)	1 (5)	3 (57)	2 (43)	0 (0)	2 (8)	0 (0)	3 (78)	3 (27)	40 (803)	70 (1,834)	214 (5,450)	324 (8,087)
Single Etiology (subtotal)	35 (203)	1 (5)	6 (69)	16 (280)	5 (150)	27 (599)	-- --	16 (447)	27 (511)	186 (3,462)	156 (4,636)	356 (7,379)	698 (15,477)
Unknown Etiology***	6 (26)	-- --	3 (15)	-- --	-- --	4 (51)	-- --	4 (99)	11 (133)	40 (531)	66 (687)	257 (3,904)	363 (5,122)
Multiple Etiologies*	-- --	-- --	-- --	1 (11)	-- --	2 (17)	-- --	1 (28)	2 (47)	9 (126)	13 (376)	14 (143)	36 (645)
Total 2007	41 (229)	1 (5)	9 (84)	17 (291)	5 (150)	33 (667)	0 (0)	21 (574)	40 (691)	235 (4,119)	235 (5,699)	627 (11,426)	1097 (21,244)

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	Plants											
	Produce											
	Vegetables											
	Grains-Beans	Oils-Sugars	Fruits-Nuts	Fungi	Leafy	Root	Sprout	Vine-Stalk				
Chemical												
Scombroid toxin/Histamine	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	19 (72)	1 (2)	0 (0)	20 (74)
Ciguatoxin	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	13 (81)	1 (3)	0 (0)	14 (84)
Mycotoxins	-- --	-- --	-- --	3 (10)	-- --	-- --	-- --	-- --	3 (10)	0 (0)	0 (0)	3 (10)
Neurotoxic shellfish poison	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (3)	0 (0)	0 (0)	1 (3)
Puffer fish tetrodotoxin	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (2)	0 (0)	1 (2)
Heavy metals	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	1 (3)	1 (3)
Paralytic shellfish poison	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	1 (4)	0 (0)	0 (0)	1 (4)
Other natural toxins	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	2 (6)	0 (0)	1 (6)	3 (12)
Other chemical	-- --	-- --	1 (2)	-- --	-- --	-- --	-- --	-- --	2 (4)	0 (0)	3 (14)	5 (18)
Chemical Total	0 (0)	0 (0)	1 (2)	3 (10)	0 (0)	0 (0)	0 (0)	0 (0)	41 (180)	3 (7)	5 (23)	49 (210)
Parasitic												
<i>Cryptosporidium</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (5)	2 (9)	3 (14)
<i>Cyclospora</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
<i>Giardia</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	1 (15)	1 (36)	2 (51)
<i>Trichinella</i>	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
Other parasitic	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0 (0)	0 (0)	0 (0)	0 (0)
Parasitic Total	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2 (20)	3 (45)	5 (65)
Bacterial Total	6 (150)	2 (17)	2 (20)	0 (0)	7 (263)	0 (0)	3 (59)	3 (92)	105 (2,479)	81 (2,775)	134 (1,861)	320 (7,115)
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