	Outbreaks (Illnesses)																	reaks								
			Aquatic	Animals								Land A	nimals						Outt	reaks	(Illnesses) Attributed to		Outbreaks (Illnesses)			
														Meat-Po	oultry				(IIIne	esses)						
				Shellfish			↓ ↓					Meat P							Poultry Attributed to a			Vehicle		outed to		
Etiology	Fish		Crusta	Crustaceans		Mollusks		Dairy		Eggs		Beef		Game		Pork		Poultry		Single Commodity		ning > 1 nodity	Unknown Commodity		Total Outbreaks (Illnesses)	
Bacterial																										
Salmonella [§]	3	(74)	1	(13)	0	0	0	0	15	(2231)	5	(219)	1	(13)	10	(198)	11	(219)	71	(4210)	44	(914)	128	(1965)	243	(7089)
Clostridium perfringens	0	0	0	0	0	0	0	0	0	0	10	(260)	0	0	5	(134)	7	(314)	24	(853)	23	(1078)	10	(1294)	57	(3225)
Escherichia coli, Shiga toxin-producing¶	0	0	0	0	0	0	6	(60)	0	0	15	(147)	1	(10)	0	0	1	(60)	29	(363)	12	(145)	19	(143)	60	(651)
Campylobacter "	0	0	0	0	1	(68)	18	(289)	0	0	1	(2)	0	0	0	0	1	(10)	22	(380)	2	(30)	16	(190)	40	(600)
Bacillus ^{§§}	1	(2)	0	0	0	0	0	0	0	0	0	0	0	0	1	(3)	1	(20)	12	(206)	9	(201)	4	(20)	25	(427)
Staphylococcus enterotoxin"	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(3)	2	(19)	3	(22)	12	(219)	4	(11)	19	(252)
Shigella §§§	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(96)	2	(329)	5	(83)	8	(508)
Clostridium botulinum	3	(6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	(6)	0	0	0	0	3	(6)
Other bacterial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(167)	1	(7)	2	(174)
Listeria ^{¶¶}	0	0	0	0	0	0	5	(25)	0	0	0	0	0	0	0	0	0	0	5	(25)	2	(10)	2	(14)	9	(49)
Vibrio parahaemolyticus	0	0	0	0	6	(30)	0	0	0	0	0	0	0	0	0	0	0	0	6	(30)	0	0	1	(3)	7	(33)
Vibrio other	0	0	1	(4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(4)	0	0	0	0	1	(4)
Enterococcus faecalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(13)	0	0	1	(13)
Escherichia coli, Enteropathogenic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(7)	1	(7)
Escherichia coli, Enterotoxigenic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	(77)	1	(8)	3	(85)
Brucella sp	0	0	0	0	0	0	1	(4)	0	0	0	0	0	0	0	0	0	0	1	(4)	0	0	0	0	1	(4)
Bacterial total	7	(82)	2	(17)	7	(98)	30	(378)	15	(2231)	31	(628)	2	(23)	17	(338)	23	(642)	178	(6199)	110	(3183)	192	(3745)	480	(13127)
Viral		(-)		、 ,		(,		(· · · /		(-)	-	(* *)		· · ·		()		· · /		(****)		(* * · · · /		(* *)		(. ,
Norovirus	1	(5)	0	0	9	(96)	1	(11)	0	0	1	(13)	0	0	0	0	3	(53)	40	(778)	135	(3254)	316	(5705)	491	(9737)
Hepatitis A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(5)	1	(2)	2	(40)	4	(47)
Rotavirus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(28)	1	(28)
Other viral	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(13)	1	(13)
Viral total	1	(5)	0	0	9	(96)	1	(11)	0	0	1	(13)	0	0	0	0	3	(53)	41	(783)	136	(3256)	320	(5786)	497	(9825)
Chemical and toxin total	26	(108)	0	0	1	(3)	0	0	0	0	0	0	0	0	0	0	0	0	29	(123)	8	(63)	6	(23)	43	(209)
Parasitic Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(8)	0	0	1	(5)	2	(13)
Known Etiology***	34	(195)	2	(17)	17	(197)	31	(389)	15	(2231)	32	(641)	2	(23)	17	(338)	26	(695)	249	(7113)	254	(6502)	519	(9559)	1022	(23174)
Unknown Etiology†††	3	(21)	0	0	3	(30)	2	(16)	0	0	7	(287)	0	0	9	(198)	6	(81)	41	(815)	74	(982)	360	(3657)	475	(5454)
Multiple Etiologies	0	0	0	0	0	0	4	(55)	0	0	0	0	1	(29)	3	(130)	1	(50)	9	(264)	8	(232)	13	(320)	30	(816)
Total	37	(216)	2	(17)	20	(227)	37	(460)	15	(2231)	39	(928)	3	(52)	29	(666)	33	(826)	299	(8192)	336	(7716)	892	(13536)	1527	(29444)

TABLE 2. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by etiology* (confirmed and suspected) and food commodity ---United States, 2009-2010

* If at least one etiology was laboratory-confirmed, the outbreak was considered to have a confirmed etiology. If no etiology was lab-confirmed, but an etiology was reported based on clinical or epidemiologic features, the outbreak was considered to have a suspected etiology.

§ Salmonella serotypes causing more than five outbreaks are Enteriditis (76 outbreaks), Newport (29), Typhimurium (27), Heidelberg (15), Montevideo (9), Javiana (8), Oranienburg (7), Saintpaul (6) and Infantis (6).

STEC 0111 (1 confirmed outbreak), STEC 0121:H19 (1 confirmed outbreak), 0145 (1 confirmed outbreak), STEC 0157:H7 (53 confirmed outbreak), 026 (1 confirmed outbreak), 026:H11 (1 confirmed outbreak)

** Campylobacter jejuni (31 confirmed outbreaks, 4 suspected outbreaks), Campylobacter unknown (3 confirmed outbreaks, 2 suspected outbreaks)

§§ Bacillus cereus (12 confirmed outbreaks, 12 suspected outbreaks), Bacillus unknown (1 suspected outbreak)

†† Staphylococcus aureus (9 confirmed outbreaks, 10 suspected outbreaks)

§§§ Shigella sonnei (8 confirmed outbreaks)

¶¶ Listeria monocytogenes (9 confirmed outbreaks)

*** The denominator for the total etiology percentages is the Known Etiology total. The denominator for the Known Etiology, Unknown Etiology, and Multiple Etiologies percentages is the Total.

ttt An etiologic agent was not confirmed or suspected based on clinical, laboratory, or epidemiologic information.

\$\$\$\$ Due to rounding, numbers may not add up to the etiology category total or the known etiology total.

	Outbreaks (Illnesses) Aquatic Animals Land Animals														000 001			reaks								
		Å	Aquatic A	nimals								Land A	nimals						Outb	reaks		esses)	Out	breaks		
														Meat-P	oultry				(IIIne		•	uted to		esses)		
			Shellfish							Meat Poultry								Attribut		Food	Vehicle	Attributed to				
Edia la sua	Fish		C	Crustaceans		Mollusks		Dairy		-		Beef		Game		Pork		Poultry		gle	Containing > 1		Unknown Commodity		Total Outbreaks (Illnesses)	
Etiology Chemical and toxin	FIS	'n	Crusta	ceans	WOI	usks	Da	airy		ggs	-	seer	Gan	ie	P	Ork	PO	uitry	Comn	noalty	Comr	modity	Con	imodity	(iiine	esses)
		()	_		_		_		_						_	-		-		()			_	(-)		()
Scombroid toxin / Histamine	12	(55)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	(55)	4	(13)	2	(8)	18	(76)
Ciguatoxin	12	(49)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	(49)	0	0	3	(12)	15	(61)
Other chemical	1	(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(2)	1	(6)	1	(3)	3	(11)
Mycotoxins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(6)	1	(2)	0	0	2	(8)
Paralytic shellfish poison	0	0	0	0	1	(3)	0	0	0	0	0	0	0	0	0	0	0	0	1	(3)	0	0	0	0	1	(3)
Pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	(42)	0	0	2	(42)
Plant/herbal toxins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(6)	0	0	0	0	1	(6)
Other natural toxins	1	(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(2)	0	0	0	0	1	(2)
Chemical and toxin total	26	(108)	0	0	1	(3)	0	0	0	0	0	0	0	0	0	0	0	0	29	(123)	8	(63)	6	(23)	43	(209)
Parasitic																										
Cyclospora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(8)	0	0	0	0	1	(8)
Giardia lamblia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(5)	1	(5)
Parasitic Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(8)	0	0	1	(5)	2	(13)
Bacterial total	7	(82)	2	(17)	7	(98)	30	(378)	15	(2231)	31	(628)	2	(23)	17	(338)	23	(642)	178	(6199)	110	(3183)	192	(3745)	480	(13127)
Viral total	1	(5)	0	0	9	(96)	1	(11)	0	0	1	(13)	0	0	0	0	3	(53)	41	(783)	136	(3256)	320	(5786)	497	(9825)
Known Etiology***	34	(195)	2	(17)	17	(197)	31	(389)	15	(2231)	32	(641)	2	(23)	17	(338)	26	(695)	249	(7113)	254	(6502)	519	(9559)	1022	(23174)
Unknown Etiology†††	3	(21)	0	0	3	(30)	2	(16)	0	0	7	(287)	0	0	9	(198)	6	(81)	41	(815)	74	(982)	360	(3657)	475	(5454)
Multiple Etiologies	0	0	0	0	0	0	4	(55)	0	0	0	0	1	(29)	3	(130)	1	(50)	9	(264)	8	(232)	13	(320)	30	(816)
Total	37	(216)	2	(17)	20	(227)	37	(460)	15	(2231)	39	(928)	3	(52)	29	(666)	33	(826)	299	(8192)	336	(7716)	892	(13536)	1527	(29444)

TABLE 2. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by e	by etiology* (confirmed and suspected) and food commodity United States, 2009-	-2010
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* If at least one etiology was laboratory-confirmed, the outbreak was considered to have a confirmed etiology. If no etiology was lab-confirmed, but an etiology was reported based on clinical or epidemiologic features, the outbreak was considered to have a suspected etiology.

§ Salmonella serotypes causing more than five outbreaks are Enteriditis (76 outbreaks), Newport (29), Typhimurium (27), Heidelberg (15), Montevideo (9), Javiana (8), Oranienburg (7), Saintpaul (6) and Infantis (6).

STEC 0111 (1 confirmed outbreak), STEC 0121:H19 (1 confirmed outbreak), 0145 (1 confirmed outbreak), STEC 0157:H7 (53 confirmed outbreak), 026 (1 confirmed outbreak), 026:H11 (1 confirmed outbreak), 0145 (1 confirmed ou

** Campylobacter jejuni (31 confirmed outbreaks, 4 suspected outbreaks), Campylobacter unknown (3 confirmed outbreaks, 2 suspected outbreaks)

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§§§ Shigella sonnei (8 confirmed outbreaks)

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*** The denominator for the total etiology percentages is the Known Etiology total. The denominator for the Known Etiology, Unknown Etiology, and Multiple Etiologies percentages is the Total.

+++ An etiologic agent was not confirmed or suspected based on clinical, laboratory, or epidemiologic information.

§§§§ Due to rounding, numbers may not add up to the etiology category total or the known etiology total.

	Outbreaks and outbreak-associated innesses, by etiology (comment and suspected) and rood commonlyonit																							
								Pla	ants								Outb	oreaks			Outb	oreaks		
										Pr	oduce						(Illne	esses)			(IIIne	esses)		
					Vegetables													ited to a	Attributed to Food			uted to		
Etiology	Grains-Beans		Oils-Sugars		Fruits-Nuts		Fungi		Leafy		R	Root		Sprout		Vine-stalk		Single Commodity		Vehicle Containing > 1 Commodity		Unknown Commodity		utbreaks esses)
Bacterial				-				-		-													,	,
Salmonella §	0	0	0	0	5	(102)	0	0	3	(185)	1	(41)	8	(493)	8	(422)	71	(4210)	44	(914)	128	(1965)	243	(7089)
Clostridium perfringens	1	(118)	0	0	0	0	0	0	0	0	0	0	0	0	1	(27)	24	(853)	23	(1078)	10	(1294)	57	(3225)
Escherichia coli, Shiga toxin-producing¶	0	0	0	0	2	(15)	0	0	4	(71)	0	0	0	0	0	0	29	(363)	12	(145)	19	(143)	60	(651)
Campylobacter "	0	0	0	0	0	0	0	0	1	(11)	0	0	0	0	0	0	22	(380)	2	(30)	16	(190)	40	(600)
Bacillus ^{§§}	8	(172)	0	0	0	0	0	0	0	0	1	(9)	0	0	0	0	12	(206)	9	(201)	4	(20)	25	(427)
Staphylococcus enterotoxin"	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	(22)	12	(219)	4	(11)	19	(252)
Shigella ⁸⁸⁸	0	0	0	0	1	(96)	0	0	0	0	0	0	0	0	0	0	1	(96)	2	(329)	5	(83)	8	(508)
Clostridium botulinum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	(6)	0	0	0	0	3	(6)
Other bacterial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(167)	1	(7)	2	(174)
Listeria ^{¶¶}	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	(25)	2	(10)	2	(14)	9	(49)
Vibrio parahaemolyticus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	(30)	0	0	1	(3)	7	(33)
Vibrio other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(4)	0	0	0	0	1	(4)
Enterococcus faecalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(13)	0	0	1	(13)
Escherichia coli, Enteropathogenic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(7)	1	(7)
Escherichia coli, Enterotoxigenic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	(77)	1	(8)	3	(85)
Brucella sp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(4)	0	0	0	0	1	(4)
Bacterial total	9	(290)	0	0	8	(213)	0	0	8	(267)	2	(50)	8	(493)	9	(449)	178	(6199)	110	(3183)	192	(3745)	480	(13127)
Viral																								
Norovirus	1	(8)	1	(30)	8	(245)	1	(10)	11	(263)	1	(31)	0	0	2	(13)	40	(778)	135	(3254)	316	(5705)	491	(9737)
Hepatitis A	0	0	0	0	1	(5)	0	0	0	0	0	0	0	0	0	0	1	(5)	1	(2)	2	(40)	4	(47)
Rotavirus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	v	0	1	(28)	1	(28)
Other viral Viral total	0	0	0	0	0 9	0 (250)	0	0	0	0 (263)	0	0 (31)	0	0	0 2	0	0	0 (783)	•	0 (3256)	1 320	(13) (5786)	1 497	(13) (9825)
Viral total	1	(8)	1	(30)	9	(250)	1	(10)	11	(263)	1	(31)	0	U	2	(13)	41	(783)	136	(3256)	320	(5786)	497	(9825)
Chemical and toxin total	0	0	0	0	0	0	2	(12)	0	0	0	0	0	0	0	0	29	(123)		(63)	6	(23)	43	(209)
Parasitic Total	0	0	0	0	1	(8)	0	0	0	0	0	0	0	0	0	0	1	(8)	0	0	1	(5)	2	(13)
Known Etiology***	10	(298)	1	(30)	18	(471)	3	(22)	19	(530)	3	(81)	8	(493)	11	(462)	249	(7113)	254	(6502)	519	(9559)	1022	(23174)
Unknown Etiology†††	4	(41)	0	0	0	0	0	0	2	(55)	3	(77)	1	(4)	1	(5)	41	(815)	74	(982)	360	(3657)	475	(5454)
Multiple Etiologies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	(264)	8	(232)	13	(320)	30	(816)
Total	14	(339)	1	(30)	18	(471)	3	(22)	21	(585)	6	(158)	9	(497)	12	(467)	299	(8192)	336	(7716)	892	(13536)	1527	(29444)

TABLE 2. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by etiology* (confirmed and suspected) and food commodity ---United States, 2009-2010

* If at least one etiology was laboratory-confirmed, the outbreak was considered to have a confirmed etiology. If no etiology was 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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TABLE 2. Number of Tepo								Outbreaks	(Illnesse										Outbreaks		Outbreaks				
								Pla	nts								Outbre	aks (Illnesses)		nesses)	(Illnesses)				
Etiology										Pr	oduce							ted to a Single	Attributed to Foo				Total Outbreaks (Illnesses)		
							Vegetables											ommodity	Vehicle Containin				(iiin	esses)	
	Grains	Grains-Beans		Oils-Sugars		uits-Nuts	Fungi		Leafy		Root		Sprout		Vine-stalk				> 1 Commodity		Commodity				
Chemical and toxin								Ĵ		,															
Scombroid toxin / Histamine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	(55)	4	(13)	2	(8)	18	(76)	
Ciguatoxin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	(49)	0	C	3	(12)	15	(61)	
Other chemical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(2)	1	(6)	1	(3)	3	(11)	
Mycotoxins	0	0	0	0	0	0	1	(6)	0	0	0	0	0	0	0	0	1	(6)	1	(2)	0	0	2	(8)	
Paralytic shellfish poison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(3)	0	C	0	0	1	(3)	
Pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	(42)	0	0	2	(42)	
Plant/herbal toxins	0	0	0	0	0	0	1	(6)	0	0	0	0	0	0	0	0	1	(6)	0	C	0	0	1	(6)	
Other natural toxins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(2)	0	C	0	0	1	(2)	
Chemical and toxin total Parasitic	0	0	0	0	0	0	2	(12)	0	0	0	0	0	0	0	0	29	(123)	8	(63)	6	(23)	43	(209)	
Cyclospora	0	0	0	0	1	(8)	0	0	0	0	0	0	0	0	0	0	1	(8)	0	C	0	0	1	(8)	
Giardia lamblia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	1	(5)	1	(5)	
Parasitic Total	0	0	0	0	1	(8)	0	0	0	0	0	0	0	0	0	0	1	(8)	0	C	1	(5)	2	(13)	
Bacterial total	9	(290)	0	0	8	(213)	0	0	8	(267)	2	(50)	8	(493)	9	(449)	178	(6199)	110	(3183)	192	(3745)	480	(13127)	
Viral total	1	(8)	1	(30)	9	(250)	1	(10)	11	(263)	1	(31)	0	0	2	(13)	41	(783)	136	(3256)	320	(5786)	497	(9825)	
Known Etiology***	10	(298)	1	(30)	18	(471)	3	(22)	19	(530)	3	(81)	8	(493)	11	(462)	249	(7113)	254	(6502)	519	(9559)	1022	(23174)	
Unknown Etiology†††	4	(41)	0	0	0	0	0	0	2	(55)	3	(77)	1	(4)	1	(5)	41	(815)	74	(982)	360	(3657)	475	(5454)	
Multiple Etiologies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	(264)	8	(232)	13	(320)	30	(816)	
Total	14	(339)	1	(30)	18	(471)	3	(22)	21	(585)	6	(158)	9	(497)	12	(467)	299	(8192)	336	(7716)	892	(13536)	1527	(29444)	

TABLE 2. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by etiology* (confirmed and suspected) and food commodity ---United States, 2009-2010

* If at least one etiology was laboratory-confirmed, the outbreak was considered to have a confirmed etiology. If no etiology was lab-confirmed, but an etiology was reported based on clinical or epidemiologic features, the outbreak was considered to have a suspected etiology.

§ Salmonella serotypes causing more than five outbreaks are Enteriditis (76 outbreaks), Newport (29), Typhimurium (27), Heidelberg (15), Montevideo (9), Javiana (8), Oranienburg (7), Saintpaul (6) and Infantis (6).

STEC 0111 (1 confirmed outbreak), STEC 0121:H19 (1 confirmed outbreak), 0145 (1 confirmed outbreak), STEC 0157:H7 (53 confirmed outbreak), 026 (1 confirmed outbreak), 026:H11 (1 confirmed outbreak)

** Campylobacter jejuni (31 confirmed outbreaks, 4 suspected outbreaks), Campylobacter unknown (3 confirmed outbreaks, 2 suspected outbreaks)

§§ Bacillus cereus (12 confirmed outbreaks, 12 suspected outbreaks), Bacillus unknown (1 suspected outbreak)

++ Staphylococcus aureus (9 confirmed outbreaks, 10 suspected outbreaks)

§§§ Shigella sonnei (8 confirmed outbreaks)

¶¶ Listeria monocytogenes (9 confirmed outbreaks)

*** The denominator for the total etiology percentages is the Known Etiology total. The denominator for the Known Etiology, Unknown Etiology, and Multiple Etiologies percentages is the Total.

+++ An etiologic agent was not confirmed or suspected based on clinical, laboratory, or epidemiologic information.

§§§§ Due to rounding, numbers may not add up to the etiology category total or the known etiology total.