

National Enteric Disease Surveillance: *Shigella* Annual Report, 2014

The Laboratory-based Enteric Disease Surveillance (LEDS) system contributes to the understanding of human shigellosis in the United States by collecting reports of infections from state and regional public health laboratories. Reporting to LEDS is voluntary; the number of laboratories submitting reports varies somewhat from year to year, although almost all laboratories report every year. Occasionally, more than one isolate is reported from a single episode of infection in a person; this report includes only one isolate of a given *Shigella* species per person within a 30-day period.

An overview of surveillance methods and systems for *Shigella* infections is available online at <http://www.cdc.gov/ncezid/dfwed/PDFs/Shigella-Overview-508.pdf> (1).

Data in this report are current as of February 10, 2017.

Summary

- In 2014, 52 state and regional public health laboratories reported 10,951 cases of culture-confirmed *Shigella* infections to LEDS, 58% more than in 2013. The substantial increase in 2014 may be associated with a two-fold increase in outbreak-related cases reported to NORS.²
- A larger percentage of isolates were identified to the species level in 2014 (96%) than in 2013 (93%).
- Distribution by species was similar to previous years, with *Shigella sonnei* accounting for the largest percentage of infections (85.2%), followed by *Shigella flexneri* (10.4%), *Shigella boydii* (0.3%), and *Shigella dysenteriae* (0.2%).
- Overall national incidence of culture-confirmed *Shigella* in 2014 (3.4 cases per 100,000 population) was greater than in 2013 (2.2 cases per 100,000 population) and was two-thirds that in 2008 (4.8 cases per 100,000 population).³
- Since the mid-1980s, reporting of *Shigella* without species information has fluctuated (range: 0.03–1.17 cases per 100,000 population). This may be partly due to outbreaks for which public health laboratories did not characterize all isolates to the species level. Incidence of these isolates generally parallels incidence of *Shigella sonnei*.
- Children aged 1–4 years had the highest incidence of all age groups.
- The incidence of *Shigella* infection is driven by outbreaks; it does not exhibit a distinct seasonal pattern.

¹ For reporting year 2014, the LEDS *Shigella* Annual Report only includes *Shigella* infections confirmed by culture.

² CDC. Unpublished data, National Outbreak Reporting System. Atlanta, GA: US Department of Health and Human Services, CDC. Data received on March 28, 2017.

³ The practice of testing clinical specimens for presence of *Shigella* species without concomitant bacterial culture and subtyping has increased in recent years (2); this may lead to underestimation of national *Shigella* incidence by the LEDS system. In 2014, 5% of *Shigella* infections reported to FoodNet sites were not confirmed by culture.

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Figure 1. Incidence rate of culture-confirmed human *Shigella* infection (all species), reported to LEADS, United States, 1970–2014

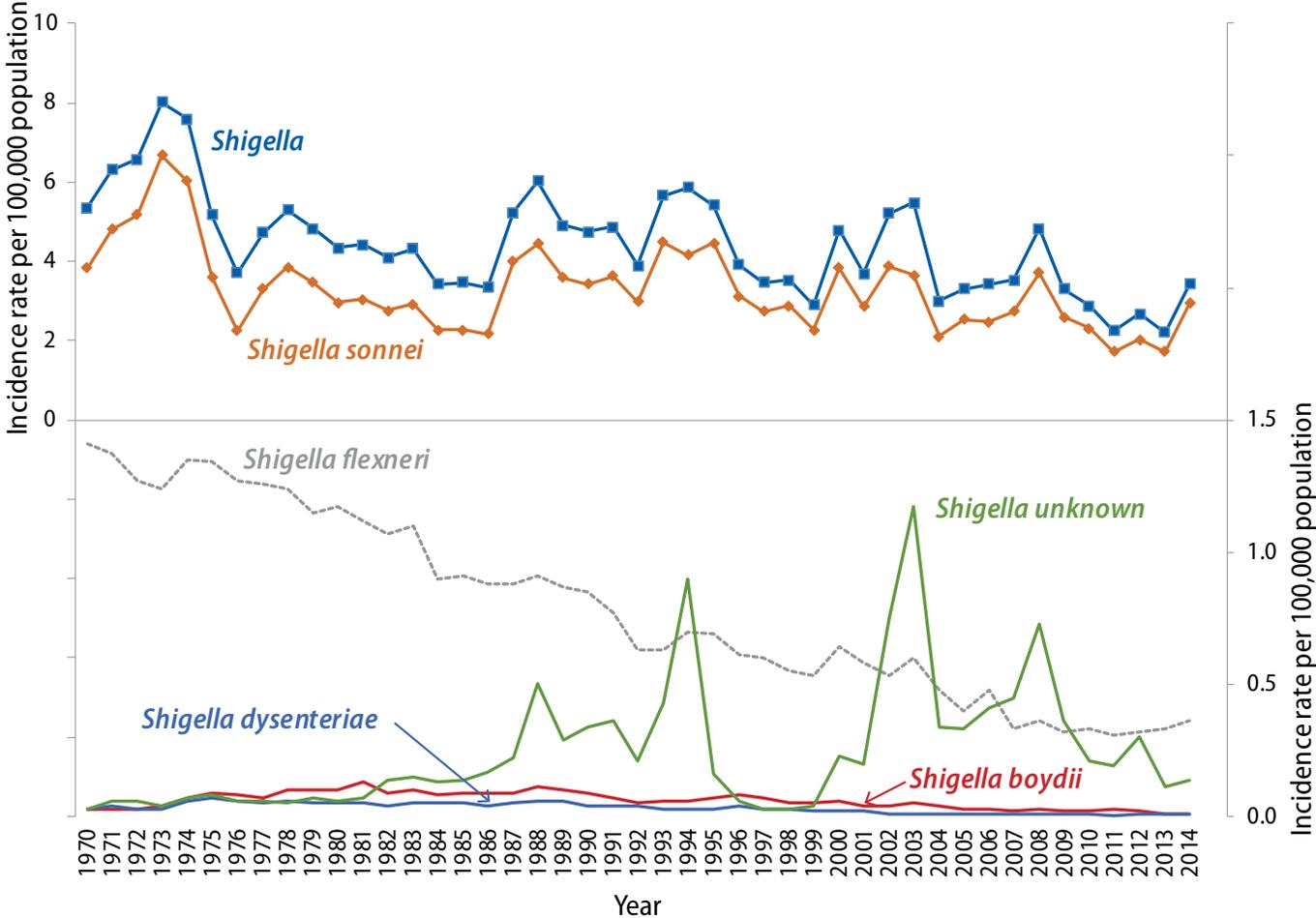


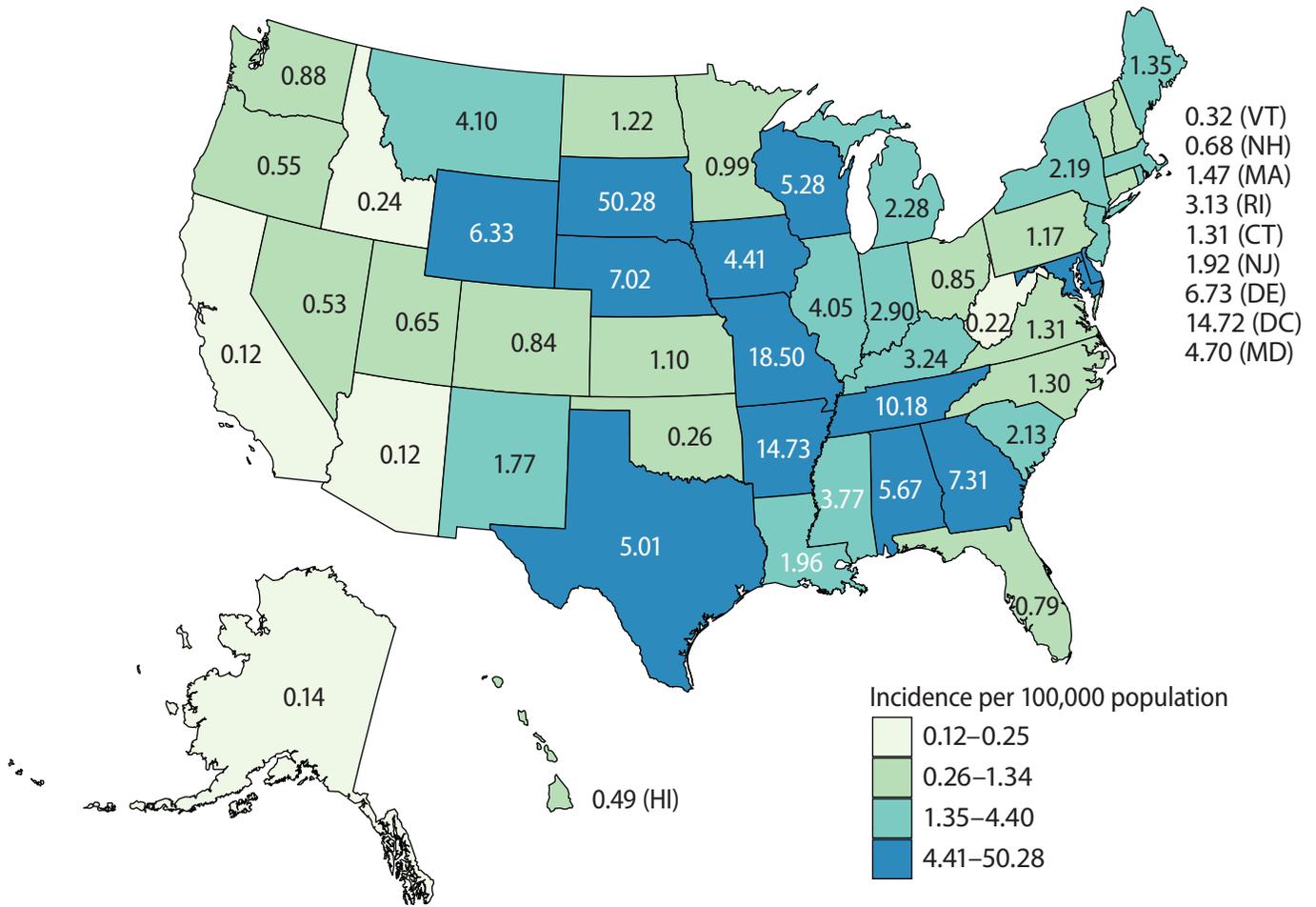
Table 1a. Culture-confirmed *Shigella* infections reported to LEDS, by species, United States, 2014

Rank	Serotype	Number reported	Percent	Incidence per 100,000
1	<i>S. sonnei</i>	9,332	85.2	2.93
2	<i>S. flexneri</i>	1,135	10.4	0.36
3	<i>S. boydii</i>	35	0.3	<0.01
4	<i>S. dysenteriae</i>	17	0.2	<0.01
	Subtotal	10,519	96.1	
	Unknown	432	3.9	0.14
	Total	10,951	100.0	3.43

Table 1b. Incidence rate of culture-confirmed *Shigella* infection reported to LEDS, by age group and sex, United States, 2014 (n = 9,716 with age and sex information reported)

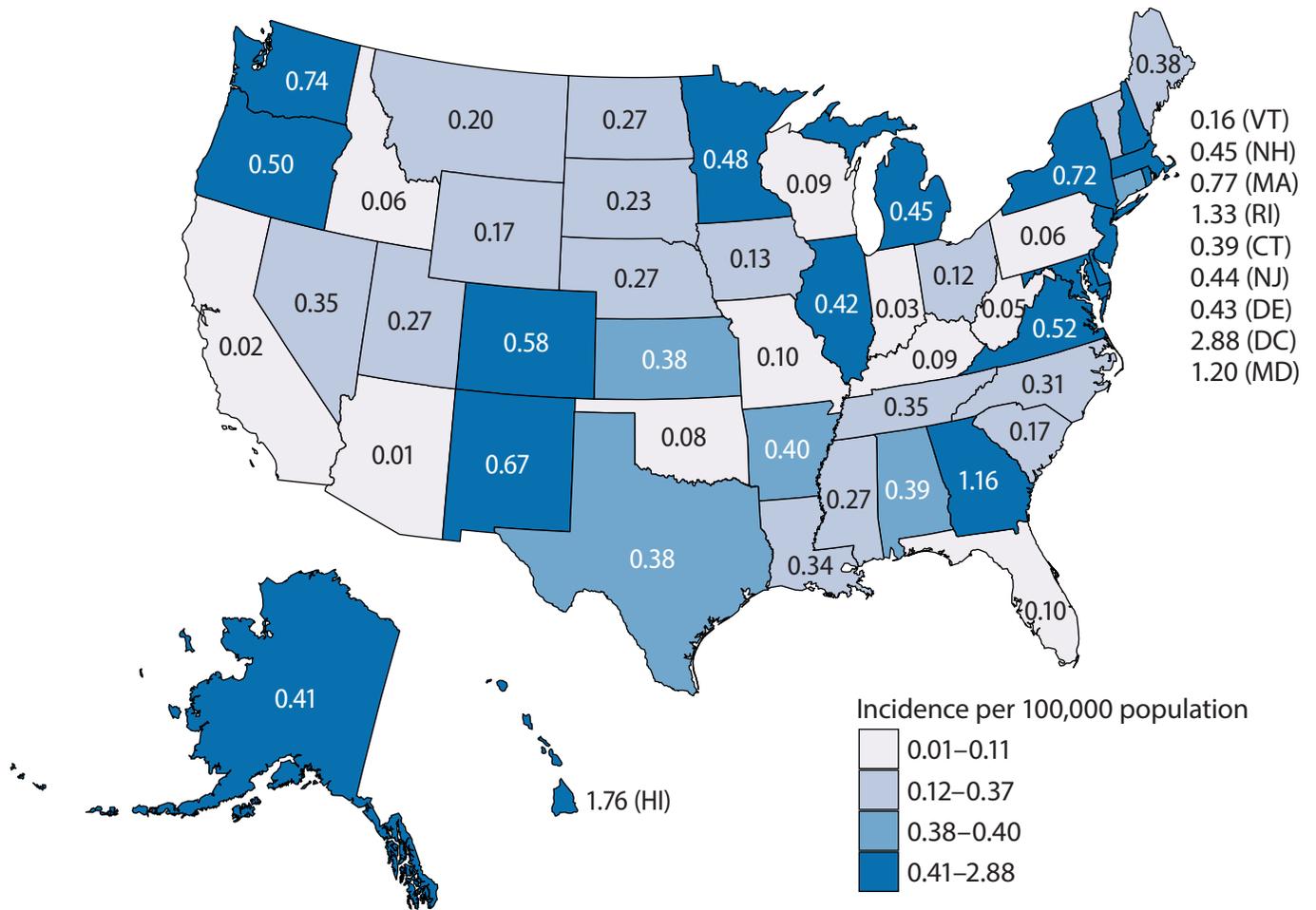
Age group, years	Incidence	
	Female	Male
<1	3.37	4.31
1–4	18.00	18.44
5–9	12.87	11.61
10–19	2.27	1.88
20–29	2.60	2.14
30–39	2.12	2.21
40–49	1.31	1.92
50–59	1.06	1.36
60–69	1.06	0.94
70–79	0.60	0.82
≥80	0.73	0.62
Overall	3.12	3.25

Figure 2b. Incidence rate of culture-confirmed human *Shigella sonnei* infection reported to LEADS, by reporting jurisdiction, United States, 2014 (n = 9,332)



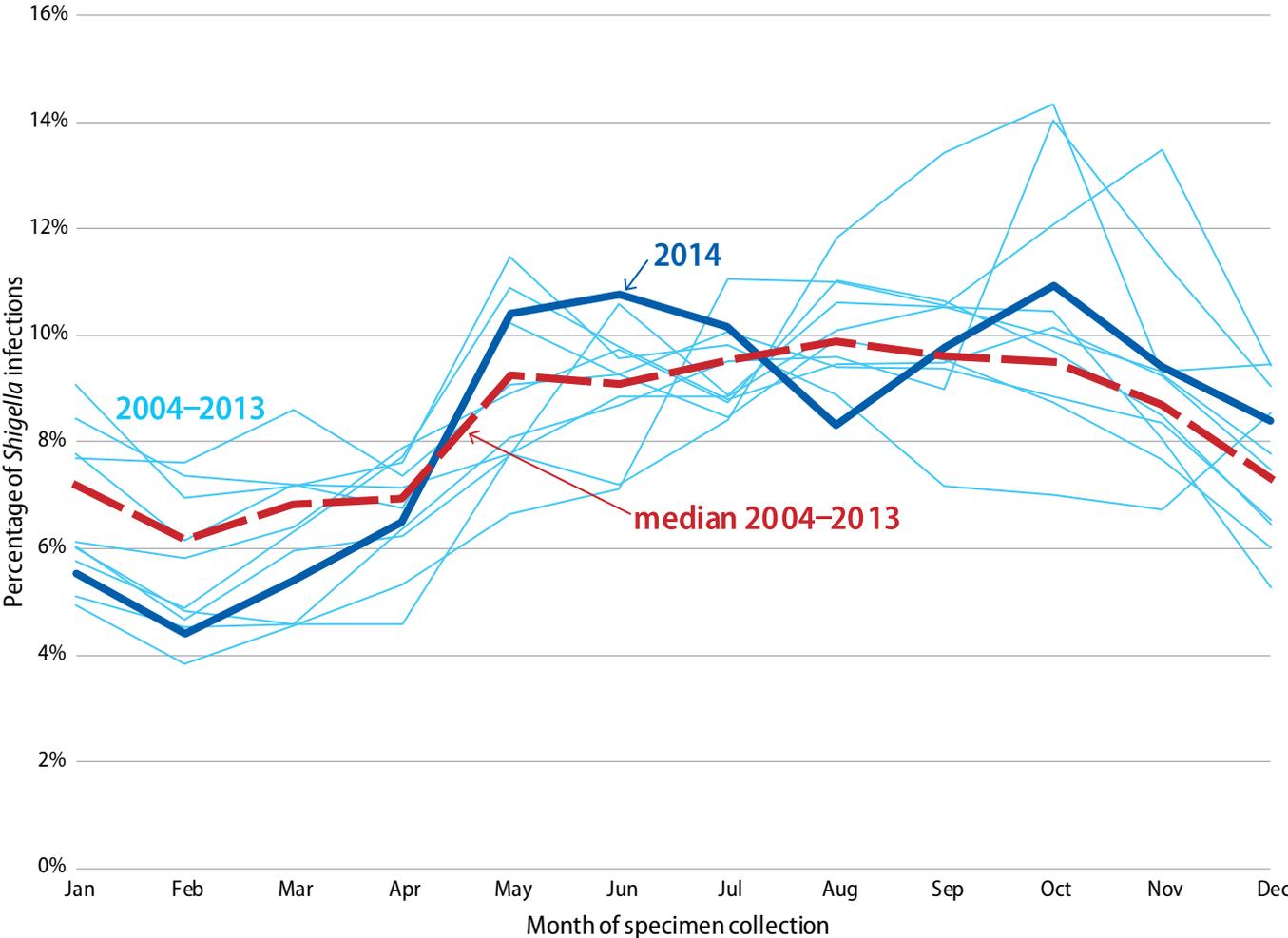
Note: Full data table for all states https://www.cdc.gov/nationalsurveillance/data/figure2b_sonnei_irdf.csv

Figure 2c. Incidence rate of culture-confirmed human *Shigella flexneri* infection reported to CDC, by reporting jurisdiction, United States, 2014 (n = 1,135)



Note: Full data table for all states https://www.cdc.gov/nationalsurveillance/data/figure2c_flexneri_irdf.csv

Figure 3. Percentage of culture-confirmed *Shigella* infections reported to CDC, by month of specimen collection, United States, 2004–2014



References

1. Centers for Disease Control and Prevention (CDC). National *Shigella* Surveillance Overview. Atlanta, Georgia: US Department of Health and Human Services, CDC, 2012.
2. Iwamoto, Martha, et al. "Bacterial enteric infections detected by culture-independent diagnostic tests—FoodNet, United States, 2012–2014." *MMWR Morb Mortal Wkly Rep* 64 (2015): 252-7.

Recommended Citation:

Centers for Disease Control and Prevention (CDC). National *Shigella* Surveillance Annual Report, 2014. Atlanta, Georgia: US Department of Health and Human Services, CDC, 2017.

Other Sources of National *Shigella* Surveillance Data

National Notifiable Diseases Surveillance System (NNDSS)

The National Notifiable Disease Surveillance System (NNDSS) collects and compiles case counts of nationally notifiable infectious diseases, including shigellosis. Shigellosis cases are not currently reported by species to NNDSS.

Annual reports: http://www.cdc.gov/mmwr/mmwr_nd/index.html

Data: <https://data.cdc.gov/browse?category=NNDSS>

National Antimicrobial Resistance Monitoring System (NARMS)

The National Antimicrobial Resistance Monitoring System (NARMS) Annual Human Isolates Report includes antimicrobial resistance data on enteric bacteria (including *Shigella*) isolated from humans.

Annual reports: <https://www.cdc.gov/narms/reports/index.html>

Data: <https://wwwn.cdc.gov/narmsnow/>

National Outbreak Reporting System (NORS)

The National Outbreak Reporting System (NORS) is a web-based platform used by local, state, and territorial health departments in the United States to report waterborne and foodborne disease outbreaks and enteric disease outbreaks transmitted by contact with environmental sources, infected persons or animals, or unknown modes of transmission to CDC.

Annual reports—

Foodborne: <https://www.cdc.gov/foodsafety/fdoss/data/annual-summaries/index.html>

Drinking water-associated outbreaks: <https://www.cdc.gov/healthywater/surveillance/drinking-surveillance-reports.html>

Recreational water-associated outbreaks: <https://www.cdc.gov/healthywater/surveillance/rec-water-surveillance-reports.html>

Outbreaks associated with environmental and undetermined water exposures: <https://www.cdc.gov/healthywater/surveillance/environmental/environ-water-surveillance-reports.html>

Data—Foodborne: <https://wwwn.cdc.gov/foodborneoutbreaks//>

NCEZID Atlanta:

**For more information please contact Centers for Disease Control and Prevention
1600 Clifton Road NE, Atlanta, GA 30329-4027 MS C-09**

Telephone: 1-404-639-2206

Email: cdcinfo@cdc.gov

National Enteric Disease Surveillance: *Shigella* Annual Report Appendices, 2014

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Appendix 1. Culture-confirmed *Shigella* infections reported to LEDS by species, age group, and sex, 2014

Serogroup	Age Group (years)	Sex			Total
		Female	Male	Unknown	
All <i>Shigella</i>	<1	65	87	21	173
	1–4	1402	1501	201	3104
	5–9	1292	1217	187	2696
	10–19	463	401	84	948
	20–29	573	491	70	1134
	30–39	439	458	71	968
	40–49	275	395	19	689
	50–59	239	293	30	562
	60–69	189	151	20	360
	70–79	62	71	6	139
	≥80	54	28	1	83
	Unknown	37	33	25	95
Total		5090	5126	735	10951

Serogroup	Age Group (years)	Sex			Total
		Female	Male	Unknown	
<i>S. boydii</i>	<1	0	0	0	0
	1–4	1	1	0	2
	5–9	4	1	0	5
	10–19	8	0	0	8
	20–29	1	0	0	1
	30–39	1	0	0	1
	40–49	1	0	0	1
	50–59	4	1	0	5
	60–69	4	2	0	6
	70–79	3	1	0	4
	≥80	2	0	0	2
	Unknown	0	0	0	0
Total		29	6	0	35

Serogroup	Age Group (years)	Sex			Total
		Female	Male	Unknown	
<i>S. dysenteriae</i>	<1	0	0	0	0
	1-4	2	0	0	2
	5-9	1	0	0	1
	10-19	0	0	0	0
	20-29	2	0	0	2
	30-39	1	0	0	1
	40-49	2	0	0	2
	50-59	2	1	0	3
	60-69	0	1	0	1
	70-79	1	1	0	2
	≥80	1	0	0	1
	Unknown	0	0	2	2
Total		12	3	2	17

Serogroup	Age Group (years)	Sex			Total
		Female	Male	Unknown	
<i>S. flexneri</i>	<1	6	4	3	13
	1-4	55	54	3	112
	5-9	43	32	0	75
	10-19	19	35	3	57
	20-29	31	217	7	255
	30-39	32	170	9	211
	40-49	16	162	2	180
	50-59	17	99	4	120
	60-69	15	37	1	53
	70-79	11	17	0	28
	≥80	7	10	0	17
	Unknown	4	1	9	14
Total		256	838	41	1135

Serogroup	Age Group (years)	Sex			Total
		Female	Male	Unknown	
<i>S. sonnei</i>	<1	54	80	18	152
	1–4	1291	1388	198	2877
	5–9	1186	1117	186	2489
	10–19	411	347	81	839
	20–29	521	260	62	843
	30–39	396	265	62	723
	40–49	248	222	17	487
	50–59	203	184	26	413
	60–69	156	104	19	279
	70–79	43	46	6	95
	≥80	38	17	1	56
	Unknown	33	32	14	79
Total		4580	4062	690	9332

Serogroup	Age Group (years)	Sex			Total
		Female	Male	Unknown	
Unknown	<1	5	3	0	8
	1–4	53	58	0	111
	5–9	58	67	1	126
	10–19	25	19	0	44
	20–29	18	14	1	33
	30–39	9	23	0	32
	40–49	8	11	0	19
	50–59	13	8	0	21
	60–69	14	7	0	21
	70–79	4	6	0	10
	≥80	6	1	0	7
	Unknown	0	0	0	0
Total		213	217	2	432

Appendix 2a. Culture-confirmed *Shigella* infections reported to LEDS by serotype and reporting jurisdiction, 2014 (Alaska to Kansas¹)

Serotype	AK	AL	AR	AZ	CA	CO	CT	DC	DE	FL	GA	HI	IA	ID	IL	IN	KS
<i>boydii</i> 5																	
<i>boydii</i> 10																	
<i>boydii</i> 13																	
<i>boydii</i> 14																	
<i>boydii</i> 18					1												
<i>boydii</i> 20					2												
<i>boydii</i> unspecified				1	1	1	1										
<i>dysenteriae</i> 1																	
<i>dysenteriae</i> 4					1												
<i>dysenteriae</i> 11																	
<i>dysenteriae</i> 12																	
<i>dysenteriae</i> unspecified										1	1						
<i>flexneri</i> 1a											2						
<i>flexneri</i> 1b											10				9		
<i>flexneri</i> 1 unspecified		1			1	1	4					3					
<i>flexneri</i> 2a					1						69				26		
<i>flexneri</i> 2b																	
<i>flexneri</i> 2 unspecified		14				13	3					7					
<i>flexneri</i> 3a											5				6		
<i>flexneri</i> 3b											2				3		
<i>flexneri</i> 3 unspecified		3				10	3					5					
<i>flexneri</i> 4a											19				1		
<i>flexneri</i> 4b																	
<i>flexneri</i> 4 unspecified		1				2	1										
<i>flexneri</i> 6						1	1										
<i>flexneri</i> 88-893					2						1						
<i>flexneri</i> unspecified	3		12	1	4	4	1	16	4	15	1	8	4	1		2	9
<i>flexneri</i> variant x															2		
<i>flexneri</i> variant y											8	3			7		
<i>sonnei</i>	1	276	436	6	44	45	47	93	63	158	737	7	136	4	449	194	29
Unknown					3	1	4		4	1	24	2			9		
Total	4	295	448	8	60	78	65	109	71	175	879	35	140	5	512	196	38

¹ The key to state name abbreviations can be found at http://www.census.gov/geo/reference/ansi_statetables.html.

Appendix 2b. Culture-confirmed *Shigella* infections reported to LEDS by serotype and reporting jurisdiction, 2014 (Kentucky to Nevada¹)

Serotype	KY	LA	MA	MD	ME	MI	MN	MO	MS	MT	NC	ND	NE	NH	NJ	NM	NV
<i>boydii</i> 5																	
<i>boydii</i> 10			1	2													
<i>boydii</i> 13			1														
<i>boydii</i> 14																	
<i>boydii</i> 18																	
<i>boydii</i> 20																	
<i>boydii</i> unspecified		2			1		1										
<i>dysenteriae</i> 1															1		
<i>dysenteriae</i> 4																	
<i>dysenteriae</i> 11																	
<i>dysenteriae</i> 12															1		
<i>dysenteriae</i> unspecified				1		1				1				1			
<i>flexneri</i> 1a						2											
<i>flexneri</i> 1b			16	3		2					2						1
<i>flexneri</i> 1 unspecified								1							12		
<i>flexneri</i> 2a			15			19					12						6
<i>flexneri</i> 2b			2														
<i>flexneri</i> 2 unspecified		4						4							14		
<i>flexneri</i> 3a			6	1							3						1
<i>flexneri</i> 3b			6	2		1					2						1
<i>flexneri</i> 3 unspecified		1		44				3			1				8		
<i>flexneri</i> 4a			4	1		3					2						
<i>flexneri</i> 4b			3			1											
<i>flexneri</i> 4 unspecified				4		12		1							4		1
<i>flexneri</i> 6				11							1						
<i>flexneri</i> 88-893			1														
<i>flexneri</i> unspecified	6	11		6	5	4	26		9	2		2	5	6		14	
<i>flexneri</i> variant x											4						
<i>flexneri</i> variant y			1								4						
<i>sonnei</i>	154	91	103	283	18	221	53	1188	114	42	132	9	131	8	168	37	15
Unknown				2		1	1		1				18		1	6	
Total	160	109	159	360	24	267	81	1197	124	45	163	11	154	15	209	57	25

¹The key to state name abbreviations can be found at http://www.census.gov/geo/reference/ansi_statetables.html.

Appendix 2c. Culture-confirmed *Shigella* infections reported to LEDS by serotype and reporting jurisdiction, 2014 (New York to Wyoming¹)

Serogroup	NY	OH	OK	OR	PA	RI	SC	SD	TN	TX	UT	VA	VT	WA	WI	WV	WY
<i>boydii</i> 5															4		
<i>boydii</i> 10														1			
<i>boydii</i> 13																	
<i>boydii</i> 14														1			
<i>boydii</i> 18																	
<i>boydii</i> 20																	
<i>boydii</i> unspecified	2	2	2	2					1	2	1					2	
<i>dysenteriae</i> 1																	
<i>dysenteriae</i> 4																	
<i>dysenteriae</i> 11														1			
<i>dysenteriae</i> 12																	
<i>dysenteriae</i> unspecified	5									2							
<i>flexneri</i> 1a				2													
<i>flexneri</i> 1b				3					1					11			
<i>flexneri</i> 1 unspecified			1		1									2			
<i>flexneri</i> 2a				2					1	1				10			
<i>flexneri</i> 2b																	
<i>flexneri</i> 2 unspecified			1		5										2		
<i>flexneri</i> 3a				4													
<i>flexneri</i> 3b				7										12			
<i>flexneri</i> 3 unspecified															1		
<i>flexneri</i> 4a				1										1			
<i>flexneri</i> 4b																	
<i>flexneri</i> 4 unspecified			1											5			
<i>flexneri</i> 6														5			
<i>flexneri</i> 88-893																	
<i>flexneri</i> unspecified	144	14		1	2	12	9	3	20	99	8	47	2	2	2	1	1
<i>flexneri</i> variant x																	
<i>flexneri</i> variant y										1				3			
<i>sonnei</i>	430	99	10	22	155	32	102	431	654	1348	21	114	2	63	315	6	36
Unknown	1					9				336					1		7
Total	582	115	15	44	163	53	111	434	677	1789	30	161	4	117	325	9	44

¹ The key to state name abbreviations can be found at http://www.census.gov/geo/reference/ansi_statetables.html.

Appendix 3. Culture-confirmed *Shigella* infections reported to LEDS by species, serotype, and year, 2004–2014

Species	Serotype	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
<i>S. boydii</i>	<i>boydii 1</i>	10	8	9	3	11	5	3	5	2			56
	<i>boydii 2</i>	20	11	15	14	14	15	18	16	5	2		130
	<i>boydii 3</i>									1			1
	<i>boydii 4</i>	15	4	3	1	16	7	7	4	4	4		65
	<i>boydii 5</i>	3			2		1		1			4	11
	<i>boydii 7</i>										1		1
	<i>boydii 8</i>	2	1	1	3	1	1	1	4	1	1		16
	<i>boydii 9</i>						3						3
	<i>boydii 10</i>	3	2	1		1	2	1	2	1		4	17
	<i>boydii 11</i>						1						1
	<i>boydii 12</i>	1		2	2	3	1	2	2		1		14
	<i>boydii 13</i>				1						1	1	3
	<i>boydii 14</i>	3	3	6	7		5	3	3	1	2	1	34
	<i>boydii 15</i>		2										2
	<i>boydii 16</i>							2					2
	<i>boydii 18</i>		1	2		1	1					1	6
	<i>boydii 19</i>						2	1		1			4
	<i>boydii 20</i>	1	2		1	3	3	2	1	11	3	2	29
	<i>boydii unspecified</i>	65	56	63	28	29	19	34	45	41	29	22	431
Subtotal		123	90	102	62	79	66	74	83	68	44	35	826

Species	Serotype	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
<i>S. dysenteriae</i>	<i>dysenteriae 1</i>	4	3	2	3	1	1		1			1	16
	<i>dysenteriae 2</i>	4	5	4	4	7	8	5	2	2	5		46
	<i>dysenteriae 3</i>	4	4	2	3	1	1	2	1	1			19
	<i>dysenteriae 4</i>	1	4	3	1	4	6	1		2		1	23
	<i>dysenteriae 6</i>		1				1						2
	<i>dysenteriae 7</i>			1				1					2
	<i>dysenteriae 8</i>						1		1				2
	<i>dysenteriae 9</i>						1						1
	<i>dysenteriae 11</i>											1	1
	<i>dysenteriae 12</i>	2	1	2		1		3		2		1	12
	<i>dysenteriae 13</i>			1				1					2
	<i>dysenteriae 3162-96</i>								1	3			4
	<i>dysenteriae unspecified</i>	16	22	24	10	14	17	22	7	21	12	13	178
	Subtotal		31	40	39	21	28	37	35	15	28	17	17

Species	Serotype	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
S. flexneri	<i>flexneri 1a</i>	1	3	12	13	18	12	13	5	5	7	6	95
	<i>flexneri 1b</i>	27	33	38	52	43	54	61	74	70	49	58	559
	<i>flexneri 1 unspecified</i>	98	94	102	93	99	60	46	39	66	29	27	753
	<i>flexneri 2a</i>	89	88	107	123	120	157	125	151	97	137	162	1356
	<i>flexneri 2b</i>	10	17	21	23	13	9	10	2	3	3	2	113
	<i>flexneri 2 unspecified</i>	185	121	152	99	174	134	99	93	81	89	67	1294
	<i>flexneri 3a</i>	53	31	37	31	16	45	39	40	30	20	26	368
	<i>flexneri 3b</i>	13	17	7	16	12	18	22	17	33	31	36	222
	<i>flexneri 3 unspecified</i>	112	62	67	43	61	53	49	25	26	61	79	638
	<i>flexneri 4a</i>	53	47	37	49	45	52	50	44	25	33	32	467
	<i>flexneri 4b</i>		1	5	1		2	1		1	1	4	16
	<i>flexneri 4c</i>				1	2	1	1					5
	<i>flexneri 4 unspecified</i>	69	50	44	43	65	56	51	30	41	39	32	520
	<i>flexneri 5a</i>	2	1			2	1	2	2		1		11
	<i>flexneri 5b</i>			1									1
	<i>flexneri 5 unspecified</i>	3	2	2	2	3	10	2	2		1		27
	<i>flexneri 6</i>	41	28	57	30	45	23	34	32	20	16	19	345
	<i>flexneri 88-893</i>	1		1	3	2	2	7	5	7	3	4	35
	<i>flexneri unspecified</i>	631	565	718	330	357	273	387	386	479	508	548	5182
	<i>flexneri variant x</i>	5	1	3	6		6	5	5	4	1	6	42
<i>flexneri variant y</i>	26	26	22	30	16	24	23	27	27	26	27	274	
Subtotal		1419	1187	1433	988	1093	992	1027	979	1015	1055	1135	12323

Species	Serotype	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
S. sonnei	<i>sonnei</i>	6206	7535	7426	8239	11270	7947	7116	5345	6344	5467	9332	82227

Species	Serotype	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Total
Unknown	<i>Unknown</i>	993	966	1225	1343	2205	1095	643	597	934	358	432	10791
Total		7779	8852	9000	9310	12470	9042	8252	6422	7455	6583	10519	95684

NCEZID Atlanta:

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