

The Center for Acute disease Epidemiology

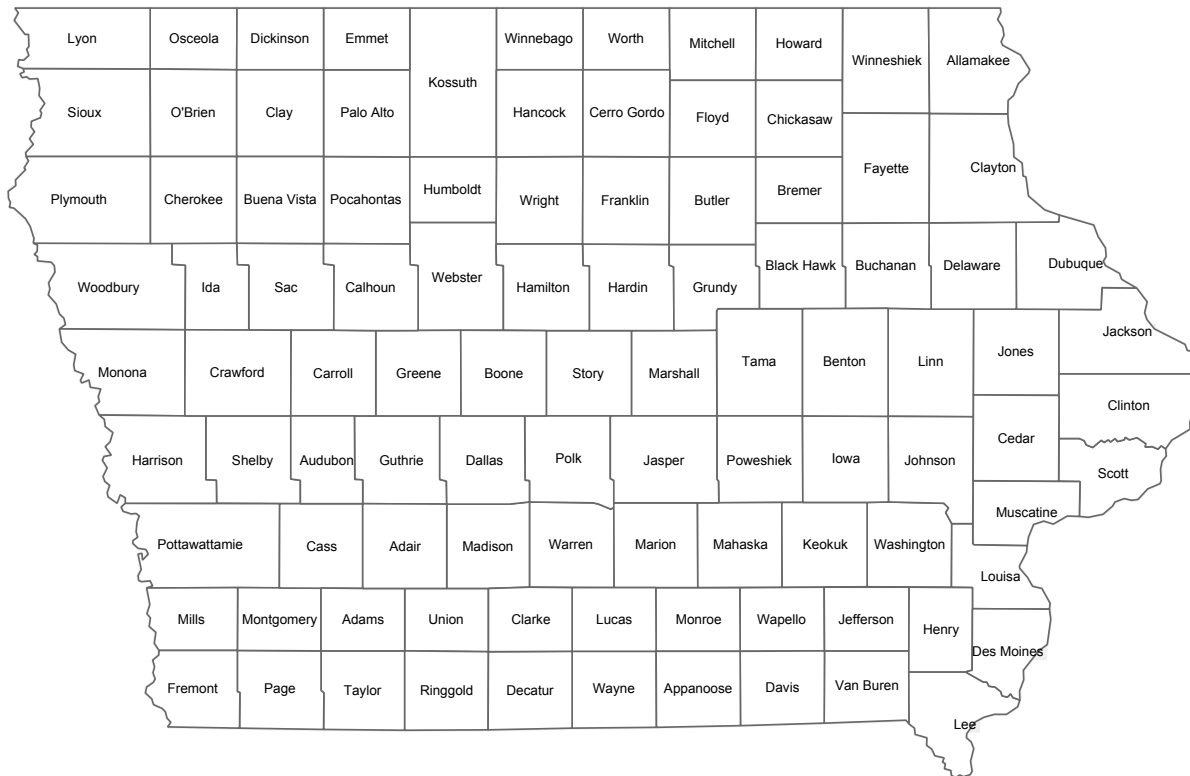
# Report for the Fourth Quarter, 2018

Iowa Department of Public Health



# Iowa County Boundaries and Population

2010 Census Data



April 1, 2010 population estimates

Adair	7,682	Floyd	16,303	Monona	9,243
Adams	4,029	Franklin	10,680	Monroe	7,970
Allamakee	14,330	Fremont	7,441	Montgomery	10,740
Appanoose	12,887	Greene	9,336	Muscatine	42,745
Audubon	6,119	Grundy	12,453	O'Brien	14,398
Benton	26,076	Guthrie	10,954	Osceola	6,462
Black Hawk	131,090	Hamilton	15,673	Page	15,932
Boone	26,306	Hancock	11,341	Palo Alto	9,421
Bremer	24,276	Hardin	17,534	Plymouth	24,986
Buchanan	20,958	Harrison	14,928	Pocahontas	7,310
Buena Vista	20,260	Henry	20,145	Polk	430,640
Butler	14,867	Howard	9,566	Pottawattamie	93,158
Calhoun	9,670	Humboldt	9,814	Poweshiek	18,914
Carroll	20,816	Ida	7,089	Ringgold	5,131
Cass	13,956	Iowa	16,355	Sac	10,350
Cedar	18,499	Jackson	19,848	Scott	165,224
Cerro Gordo	44,151	Jasper	36,842	Shelby	12,167
Cherokee	12,072	Jefferson	16,843	Sioux	33,704
Chickasaw	12,439	Johnson	130,882	Story	89,542
Clarke	9,286	Jones	20,638	Tama	17,767
Clay	16,667	Keokuk	10,511	Taylor	6,317
Clayton	18,129	Kossuth	15,543	Union	12,534
Clinton	49,116	Lee	35,862	Van Buren	7,570
Crawford	17,096	Linn	211,226	Wapello	35,625
Dallas	66,135	Louisa	11,387	Warren	46,225
Davis	8,753	Lucas	8,898	Washington	21,704
Decatur	8,457	Lyon	11,581	Wayne	6,403
Delaware	17,764	Madison	15,679	Webster	38,013
Des Moines	40,325	Mahaska	22,381	Winnebago	10,866
Dickinson	16,667	Marion	33,309	Winneshiek	21,056
Dubuque	93,653	Marshall	40,648	Woodbury	102,172
Emmet	10,302	Mills	15,059	Worth	7,598
Fayette	20,880	Mitchell	10,772	Wright	13,229

# Case Counts for 4th Qtr (Oct-Dec) 2018

## Counties A-H

### Confirmed, Probable, and Suspect Cases

Note: Only counties and diseases that occurred in the timeframe specified will appear in the table.

	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute/chronic)	Hepatitis E	Legionellosis	Listeria	Lyme	Mumps	Pertussis	Salmonellosis	Shigellosis	Total
Adair														1					1
Allamakee	4		2											1					7
Appanoose	2					2	1										1		6
Audubon	2							1											3
Benton			4				1							1			2		8
Black Hawk	12		1			1	1					1			1		2		19
Boone			1			1	1									3		1	7
Bremer	2		2							1						1	1		7
Buchanan	4		6			1	1							1					13
Buena Vista	1	1	1				1												4
Butler	1						1											2	4
Calhoun	2					3		1									1		7
Carroll	5		2			1										1			9
Cass	1																		1
Cedar	1												1				1	1	4
Cerro Gordo	5		3		1					1									10
Cherokee			1				1										1		3
Chickasaw																	1	1	2
Clarke	3																		3
Clay	2		1															1	4
Clayton	4		1			3													8
Clinton	3			1							1						3		8
Crawford						2										1			3
Dallas	11					2				3				1	1	2	4	1	25
Davis																	1		1
Decatur	3																		3
Delaware	3		2				1									6	1		13
Des Moines	4		4														5		13
Dickinson																	1		1
Dubuque	14		5			3	1			2				2	1	2	3		33
Fayette	4	2	1			1								2					10
Floyd		1													1				2
Franklin	3											1							4
Fremont	1																1		2
Greene	1		1				1										1		4
Grundy	1					2													3
Guthrie	1														1				2
Hamilton	2																	1	3
Hancock																3			3
Hardin	3																		3
Harrison	1		1													1	3		6
Howard	1															1			2
Humboldt	2					1	1										1		5

# Case Counts for 4th Qtr (Oct-Dec) 2018

## Counties I-W

### Confirmed, Probable, and Suspect Cases

Note: Only counties and diseases that occurred in the timeframe specified will appear in the table.

	Anaplasmosis/Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute/chronic)	Hepatitis D	Hepatitis E	Legionellosis	Listeria	Lyme	Malaria	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Total	
Ida																						1		1	
Iowa							1									1									2
Jackson		7	1				2				1											1		12	
Jasper		1	1				2				1											1		6	
Jefferson		3																	4					7	
Johnson		10						5			11	1				5			12			3	1	48	
Jones		1		1			1															1		4	
Keokuk		1					1																	2	
Kossuth		2					2															1		5	
Lee		2												1								1		4	
Linn	1	16	1	4		1	3	4			14	1		3		4			13			17	4	86	
Louisa							1															2		3	
Lucas							1																	1	
Lyon			1																1					2	
Madison		1																						1	
Mahaska		3														1						1	1	6	
Marion		2																				1		3	
Marshall		2						1			2											1		6	
Mills							1							1									1	3	
Mitchell		3		1			3															2		9	
Monona		2		1			1															1		5	
Monroe							1																	1	
Montgomery		2					1																	3	
Muscatine		1					1				1											1	1	5	
O'Brien		1	1	1																				3	
Page		2						1														1		4	
Palo Alto		4		2			1																	7	
Plymouth				1			1												4					6	
Pocahontas		2					1	1														1		5	
Polk		60		8			13	7		1	15			1		1		2	1	1		12	3	125	
Pottawattamie		8		1				1			1											2		13	
Poweshiek		3					1				1												1	6	
Ringgold				1																		1		2	
Sac		1		1																				2	
Scott		8		1		1	2	2			3			1				1	3			4		26	
Shelby		1		1																		3		5	
Sioux		10		5				2															1	18	
Story		10		2			4				1				1							3		21	
Tama		1						1														1		3	
Taylor		3		1																		1		5	
Union		3									1											1		5	
Van Buren																						2		2	
Wapello	1	3		3			2	2									1					3		15	
Warren		6					2				1											1		10	
Washington			1					1											7			1		10	
Wayne		3																				1		4	
Webster		5					1	1						1							1	5		14	
Winneshiek	1	1		1			1											1						5	
Woodbury		5						1			4											4		14	
Worth																						1		1	
Wright		2	1			1																		4	
<b>Total</b>	<b>3</b>	<b>310</b>	<b>11</b>	<b>75</b>	<b>1</b>	<b>4</b>	<b>74</b>	<b>42</b>	<b>1</b>	<b>2</b>	<b>64</b>	<b>2</b>	<b>1</b>	<b>10</b>	<b>2</b>	<b>21</b>	<b>1</b>	<b>10</b>	<b>65</b>	<b>1</b>	<b>1</b>	<b>117</b>	<b>21</b>	<b>839</b>	

# YTD (Jan-Dec) Case Counts (Counties A-I)

## Confirmed, Probable, and Suspect Cases

Note: Only counties and diseases that occurred in the timeframe specified will appear in the table.

	Anaplasmosis/Ehrlichiosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Hansen's disease	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute/chronic)	Hepatitis E	Legionellosis	Listeria	Lyme	Malaria	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Rubella	Salmonellosis	Shigellosis	West Nile virus	Total
Adair		8		3			3									1							4			19
Adams		1																					1		1	3
Allamakee		31		13	1		6	1								10							9			71
Appanoose		8		4			5	3							1	1			1	1	1		9			34
Audubon		5		1			1	3		1													2		1	14
Benton		11		12	4		13	4						1		4			1				12	1		63
Black Hawk		25	1	4	8		7	3				10	1	8		4	1	4	2				40	4		122
Boone	1	15		9	1		10	2								3			7		1		14	1	1	65
Bremer		5		2	2		2	1				2				1			2	1			15	1	3	37
Buchanan		13		14	9		9	3				1				3		1	1				5			59
Buena Vista		10	6	5	1		3	3				3							1				7	2		41
Butler		5			1		1	2						1									10	2	1	23
Calhoun		11		5	2		10	2			1	1						1					7		2	42
Carroll		17		10			9			1									2				6	1		46
Cass		5		3			2					1				1						1	3			16
Cedar	1	15		1			3	3				1			1	1						1	10	1		37
Cerro Gordo		24	2	8	4	1	1	1				2				2			20				13			78
Cherokee	1	1		3			3	3															2			13
Chickasaw	1	1		1			1									1							5	1	1	12
Clarke	1	15		8			4												1				1	1	1	32
Clay		9		7			1	2				1											6	1		27
Clayton		21		11	1		11	1		1		1				8			5				4			64
Clinton		17		7	4		1					3	1	2		1		1	1				12			50
Crawford		8		4			5				1	5				1	3		1				2	1		31
Dallas	1	40	1	12	8		12	3				6		1		4		3	2		1		26	4	1	125
Davis		2		1												1						1	7			12
Decatur		4	1	3				1								1										10
Delaware		27		21			9	5								1			6				11			80
Des Moines		17		17			2	1					1	2		2				6			21	1	2	66
Dickinson		2		10												2							7			22
Dubuque	1	63		45	4		28	10	1	1		7		2	1	31	1	2	5				25	5		232
Emmet	1	2	1				1	2														1	3		1	12
Fayette		17	2	15	3		7							1		3			17				5		1	71
Floyd		5	1	1	8		2	1										1					3		1	23
Franklin		11		1	1		1							1									4		1	20
Fremont		3		2			1																1			7
Greene		10		2			2	3						1									7		1	27
Grundy		3					2																2			7
Guthrie		8		3								1						1					1	1		15
Hamilton		12		5			2	1				1				1			1				5	1		29
Hancock		2					2	1											3				1			9
Hardin		9		1	2		1																6			19
Harrison		4		2															1				8		3	18
Henry		4		4			1									2					1		4		1	17
Howard		10		1			2					1							1				4			19
Humboldt		14			2		4	3										1					3		2	29
Ida		7		1																			2		1	11
Iowa		5		5			7									3							4	1		25

# YTD (Jan-Dec) Case Counts (Counties J-W)

## Confirmed, Probable, and Suspect Cases

Note: Only counties and diseases that occurred in the timeframe specified will appear in the table.

	AFM	Anaplasmosis/Ehrlichiosis	Botulism	Brucellosis	Campylobacteriosis	CRE	Cryptosporidiosis	Cyclosporiasis	Dengue	E. coli (STEC)	Giardiasis	Hemolytic uremic syndrome	Hepatitis A	Hepatitis B (acute/chronic)	Hepatitis D	Legionellosis	Listeria	Lyme	Malaria	Meningococcal inv. disease	Mumps	Pertussis	Q Fever (acute and chronic)	Rocky Mountain spotted fever	Salmonellosis	Shigellosis	Typhoid/paratyphi	West Nile virus	Zika virus	
Jackson					35	1	11			11	2			2				4							14					
Jasper					24	1	5	3		7	6			1				2							13				1	
Jefferson					6						2			1		1		4	1			8			2					
Johnson		2			54		11	9		29	21		1	27	1	3	2	55	5		1	15			36	8	1	2		
Jones					14		19			5	2							2					1		8	1				
Keokuk					8		1			3						1		1					1		1					
Kossuth					11	1	2	1		2															8				1	
Lee		1			5	2	4			2		1				2		4							1	8				
Linn		1	1	1	97	1	34	21	1	35	13		2	26	3	11	1	47	2		2	28		2	117	9				
Louisa					4		1			1				1										1	6				1	
Lucas					9		6			4	1														4					
Lyon					10	1	7			2	3			1							1				3				8	
Madison					13		2			9	3														10					
Mahaska					7		1			5	1							1							9	1				
Marion		2			19		4	5			2							2		1				1	10				1	
Marshall					8	1	1			4	3			8		1		1							12	1				
Mills					8		1			1	2					1								4	2	1			3	
Mitchell		1			9		11	3		12	1												1		6				1	
Monona					6		3	2		2				1		1									3				1	
Monroe		2			3		3			3	2							2							3	1			1	
Montgomery					3		1			1	2														7				1	
Muscatine		1			11		3			2			1	3		2		5	1		2				19	2				
O'Brien					17	1	4			2											1	1		2	6				1	
Osceola					9		3			4				1											1	1				
Page					6					2	1														4				1	
Palo Alto					11		3	1		1	1						1								1				1	
Plymouth					6		13	6		8	1					1		1					4		12				2	
Pocahontas					9		4	1		3	1			1											6					
Polk	1	2			293	1	64	41		84	50		2	78	2	9		11	7		7	10	1	4	159	22	1	11	11	
Pottawattamie	1				26		3			2	4			7				2						1	21				11	
Poweshiek					7		1			2	2			2				1				1			8	1			1	
Ringgold					7		3			2	2													1	2					
Sac					15		15	1		4	3		1												2	2				
Scott					31		12	7	1	22	9	2	1	10		6		11	1		3	15			34	9			1	
Shelby					7		6			1															12				1	
Sioux					41		24	3		15	5	1		1									4	1	21	2			9	
Story					35		8	30	1	16	6			11			1	1	1		3	2			23	3			4	
Tama					16		3			4	1							2							12	1				
Taylor					4	1	1			2															5					
Union					10		1			1				2									1		12	2				
Van Buren		1			3					2	1												19	1	2				1	
Wapello		2			16		12			3	2			2		1	1	1	1						14	1				
Warren		1			22	1	5			11	3			3		1		2					1		18				3	
Washington					5	1	1			6	2			1				2							11				1	
Wayne					5		1			1	2														2	5			1	
Webster					27		6	1		16	2			1		1		5						1	26					
Winnebago					6		2			3															3					
Winneshiek		4			14		10	3		6	1			2				9			1			3						
Woodbury					29	1	27	4		10	6			19				1	2				1		31				8	
Worth					1		1	1															2		2					
Wright					19	1			1	1	3														5					

## YTD (Jan - Dec, 2018) Totals by Disease and County

Adair	19
Adams	3
Allamakee	71
Appanoose	34
Audubon	14
Benton	63
Black Hawk	122
Boone	65
Bremer	37
Buchanan	59
Buena Vista	41
Butler	23
Calhoun	42
Carroll	46
Cass	16
Cedar	37
Cerro Gordo	78
Cherokee	13
Chickasaw	12
Clarke	32
Clay	27
Clayton	64
Clinton	50
Crawford	31
Dallas	125
Davis	12
Decatur	10
Delaware	80
Des Moines	66
Dickinson	22
Dubuque	232
Emmet	12
Fayette	71
Floyd	23
Franklin	20
Fremont	7
Greene	27
Grundy	7
Guthrie	15
Hamilton	29
Hancock	9
Hardin	19
Harrison	18
Henry	17
Howard	19
Humboldt	29
Ida	11
Iowa	25
Jackson	82
Jasper	63
Jefferson	25
Johnson	283
Jones	52
Keokuk	16
Kossuth	26
Lee	30
Linn	455
Louisia	15
Lucas	24
Lyon	36
Madison	37
Mahaska	25
Marion	47
Marshall	40
Mills	23
Mitchell	45
Monona	19
Monroe	20
Montgomery	15
Muscatine	52
O'Brien	35
Osceola	19
Page	14
Palo Alto	20
Plymouth	54
Pocahontas	25
Polk	860
Pottawattamie	78
Poweshiek	26
Ringgold	17
Sac	43
Scott	175
Shelby	27
Sioux	127
Story	145
Tama	39
Taylor	13
Union	29
Van Buren	30
Wapello	56
Warren	71
Washington	41
Wayne	17
Webster	86
Winnebago	14
Winneshiek	53
Woodbury	139
Worth	7
Wright	30
<b>Total</b>	<b>5,624</b>

AFM	2
Anaplasmosis/Ehrlichiosis	28
Botulism	1
Brucellosis	1
Campylobacteriosis	1,623
CRE	30
Cryptosporidiosis	651
Cyclosporiasis	210
Dengue	5
E. coli (STEC)	573
Giardiasis	239
Hansen's disease	1
Hemolytic uremic syndrome	8
Hepatitis A	10
Hepatitis B (acute/chronic)	259
Hepatitis D	6
Hepatitis E	3
Legionellosis	63
Listeria	9
Lyme	272
Malaria	26
Meningococcal inv. disease	1
Mumps	38
Pertussis	204
Q Fever (acute and chronic)	9
Rocky Mountain spotted fever	26
Rubella	1
Salmonellosis	1,121
Shigellosis	98
Typhoid/paratyphi	2
West Nile virus	103
Zika virus	1
<b>Total</b>	<b>5,624</b>

# Campylobacter

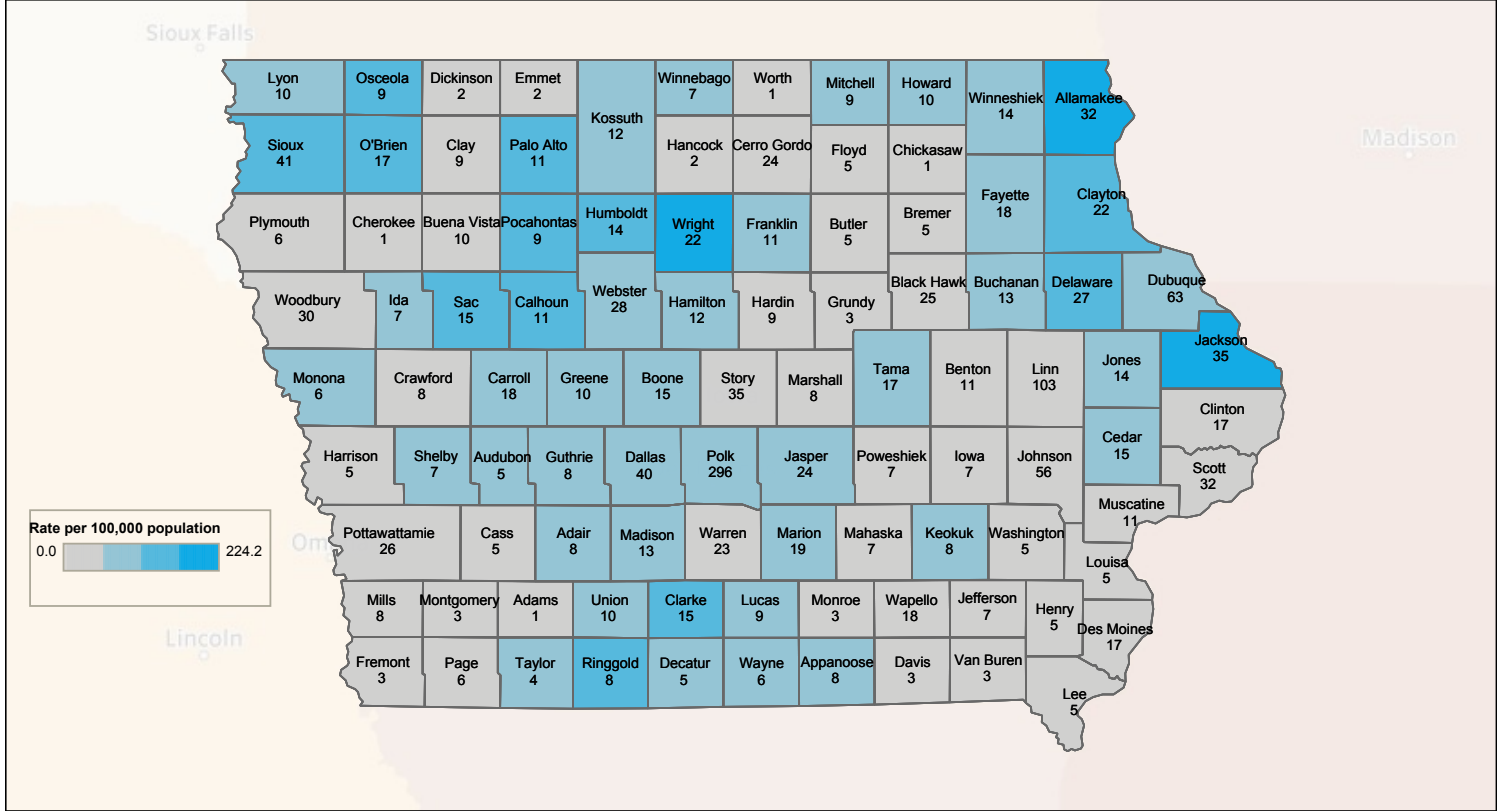
Number of cases in the 4th Qtr 2018

310

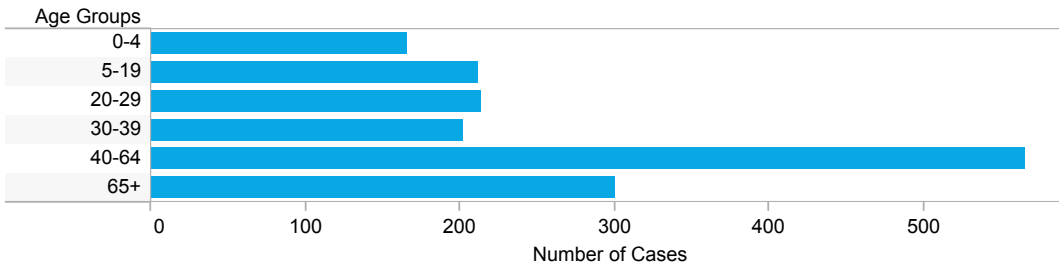
Number of cases in the past 12 months

1,623

Reported campylobacteriosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



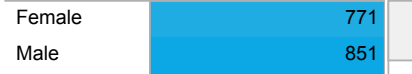
Campylobacteriosis cases by age in the past 12 months. A third of all cases occurred in the 40-64 year old age group.



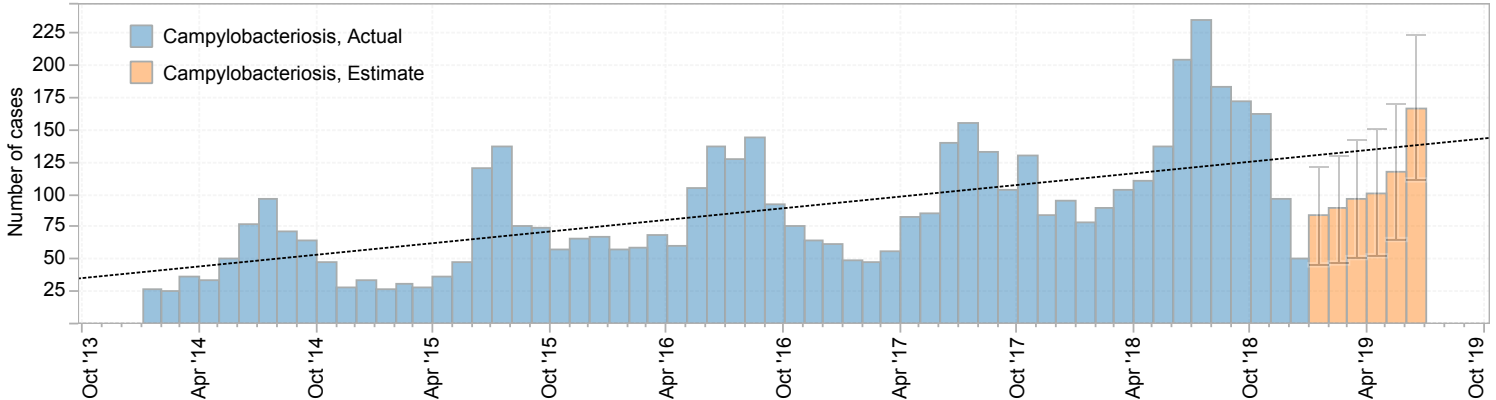
Hospitalizations in the past 12 months

128 (8%)

Campylobacteriosis cases by gender in the past 12 months



Reported campylobacteriosis cases by date of onset or first lab report and 6 month forecast





# Cryptosporidium

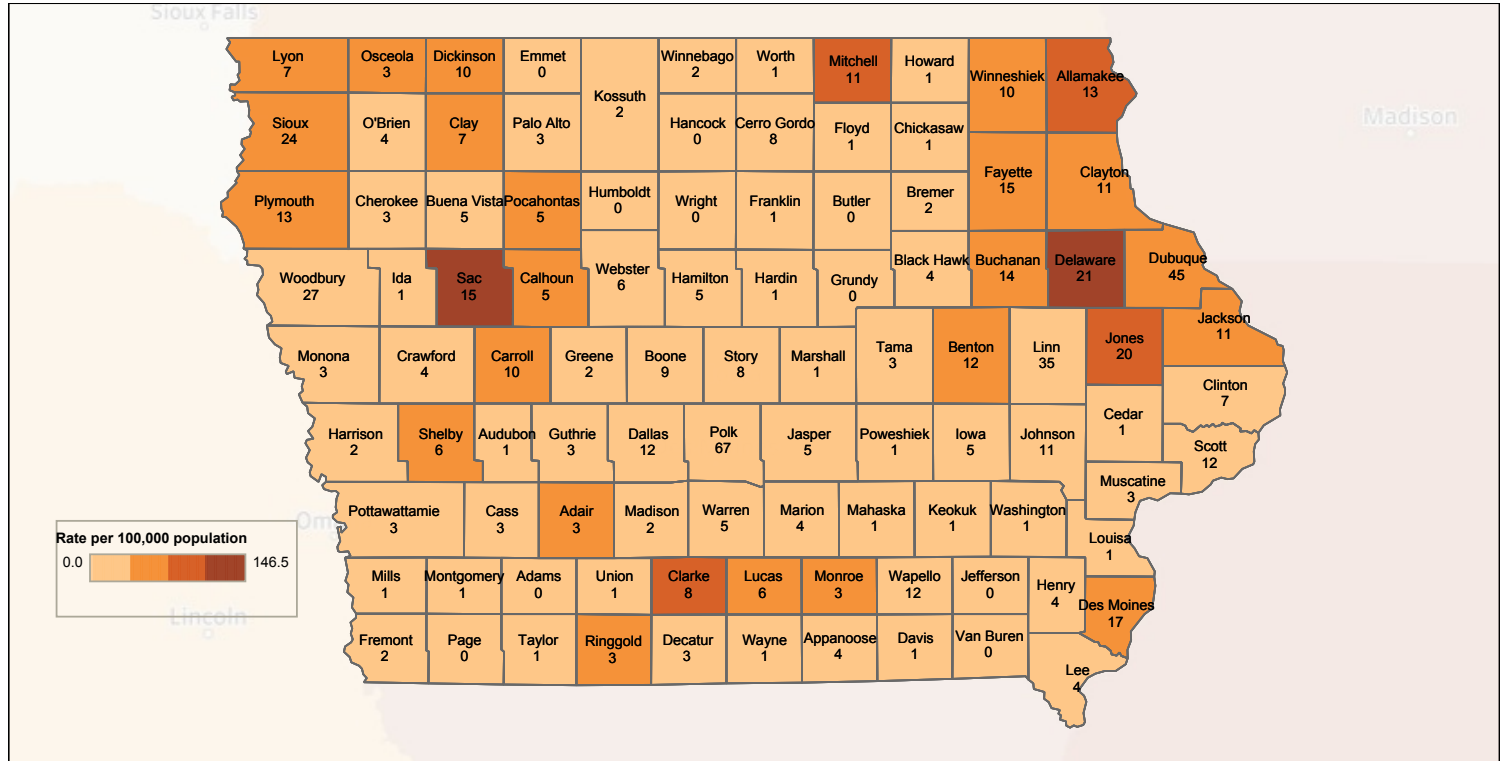
Number of cases in the 4th Qtr 2018

75

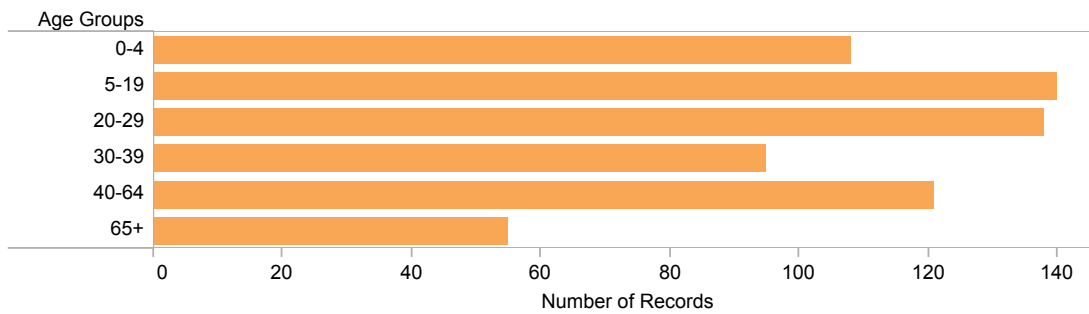
Number of cases in the past 12 months

651

Reported cryptosporidiosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Cryptosporidiosis cases by age past 12 months



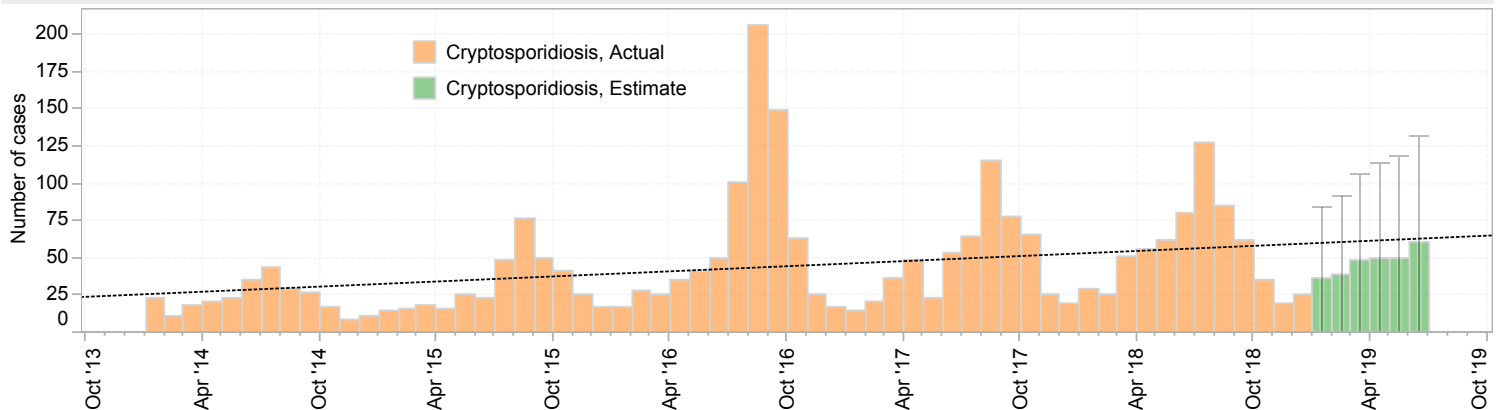
Hospitalizations in the past 12 months

38 (6%)

Cryptosporidiosis cases by gender past 12 months



Reported cryptosporidiosis cases by date of onset or first lab result and 6 month forecast



# E. coli (STEC)

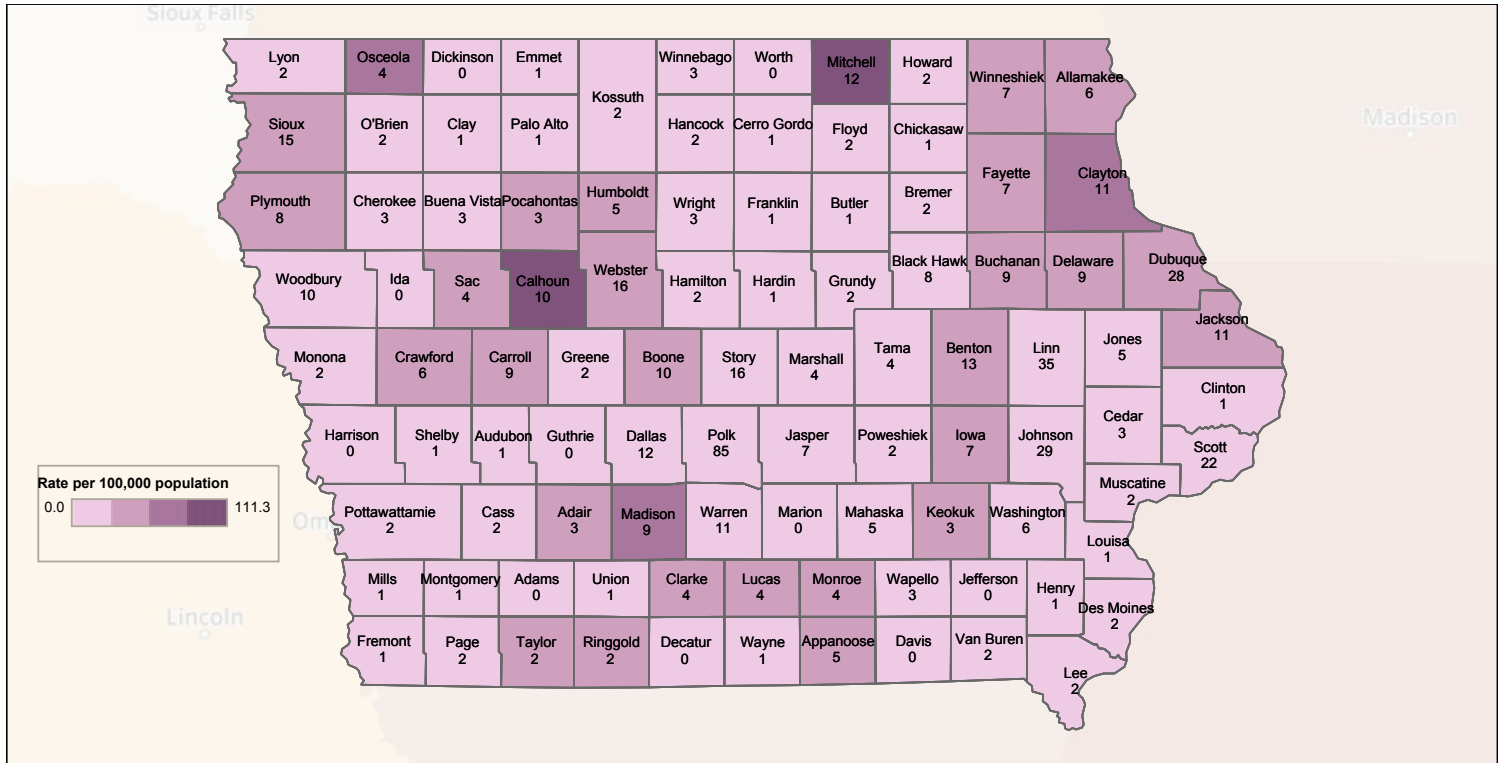
Number of cases in the 4th Qtr 2018

74

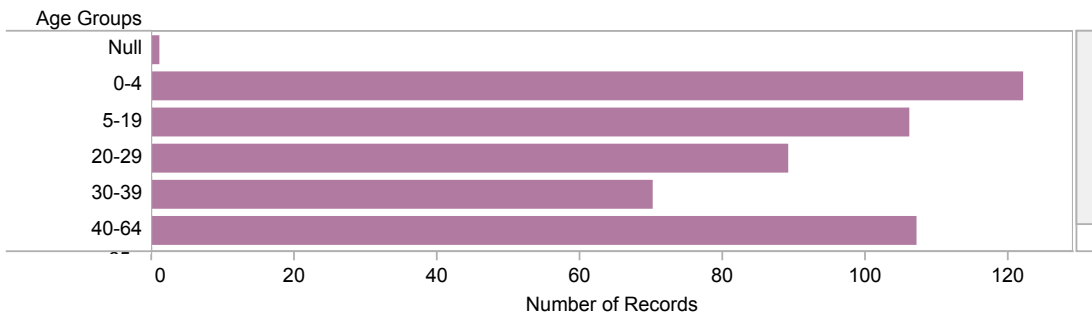
Number of cases in the past 12 months

573

Reported E. coli (STEC) cases and incidence rates per 100,000 population by county of residence for the past 12 months



E. coli cases by age past 12 months. Almost half of all cases occur in the 0-19 age groups.



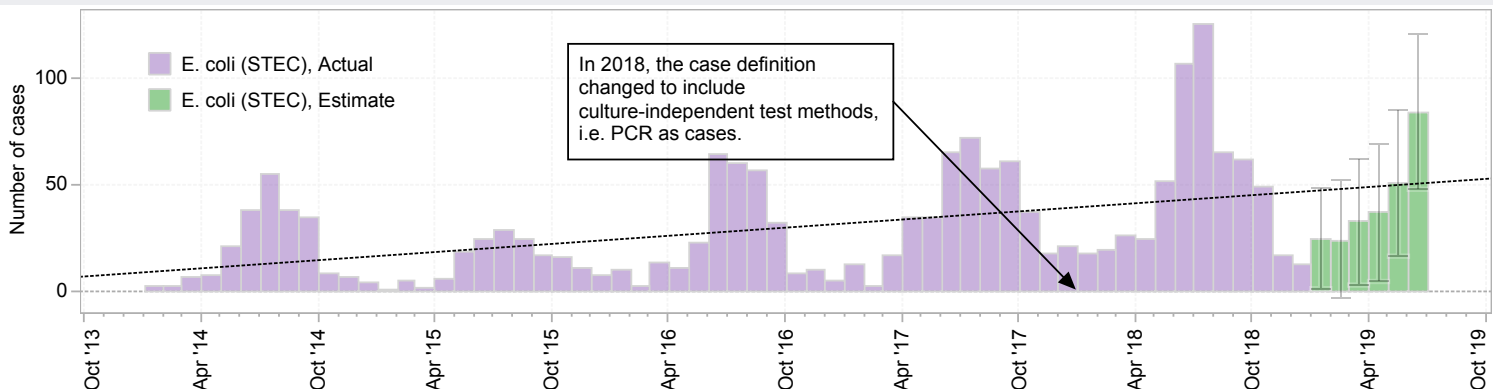
Hospitalizations in the past 12 months

37 (6%)

E. coli cases by gender past 12 months

Female	335
Male	238

Reported E. coli (STEC) cases by date of onset or first lab result and 6 month forecast



# Giardia

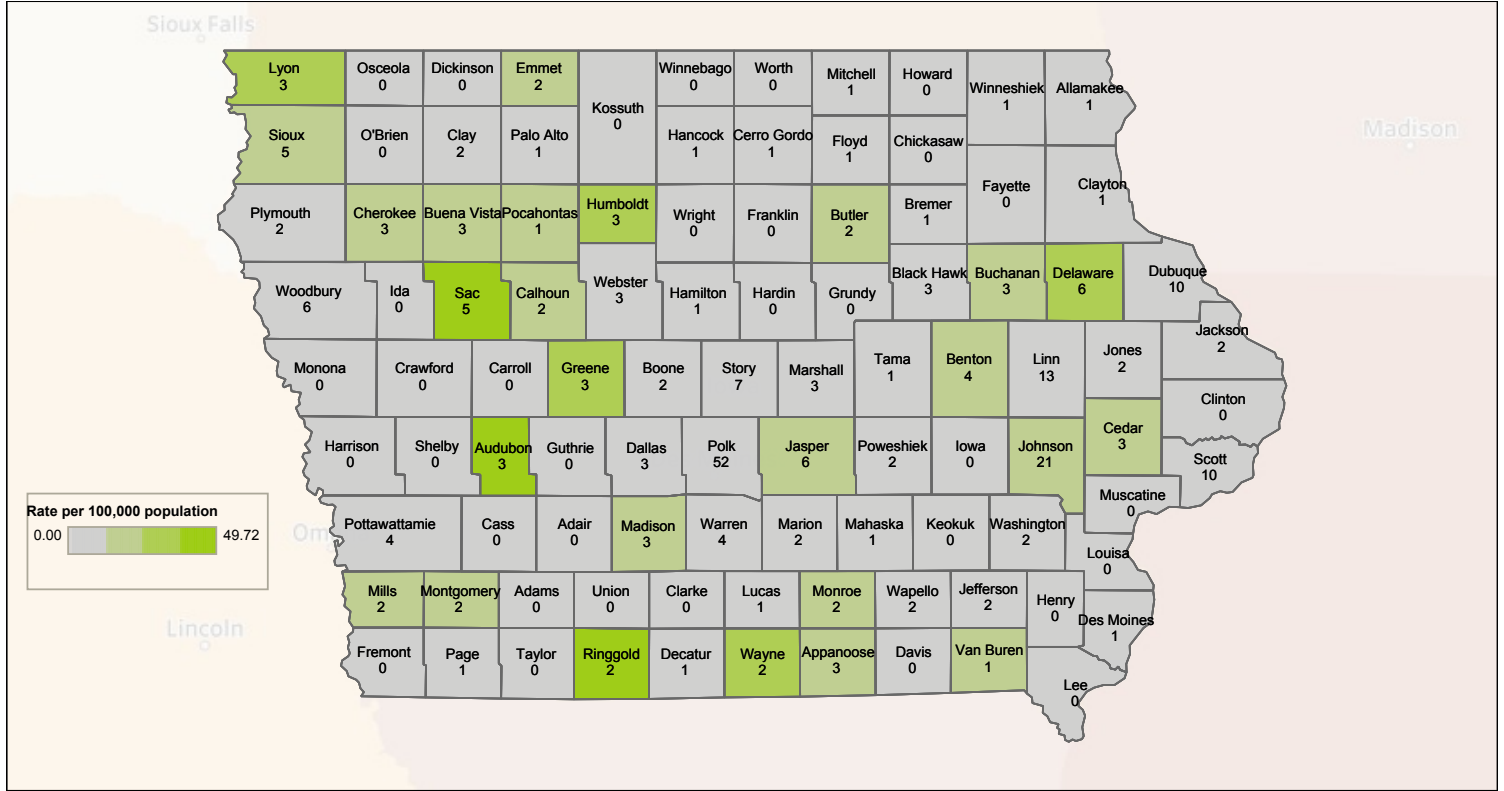
Number of cases in the 4th Qtr 2018

42

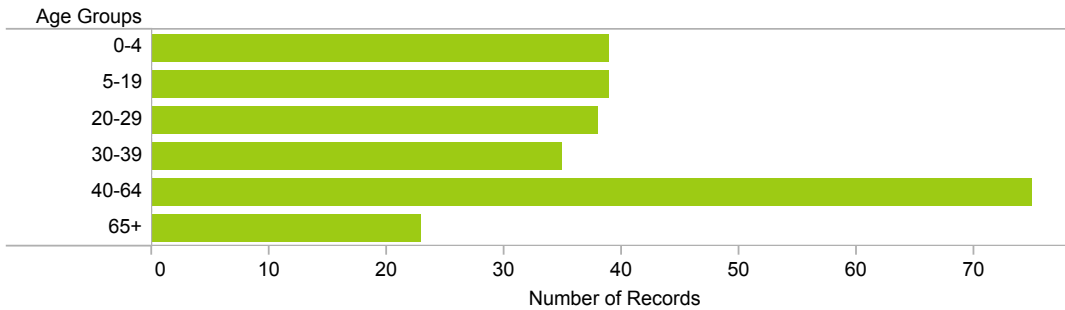
Number of cases in the past 12 months

239

Reported giardiasis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Giardiasis cases by age past 12 months. Nearly a third of all cases occurred in the 40-64 age group.



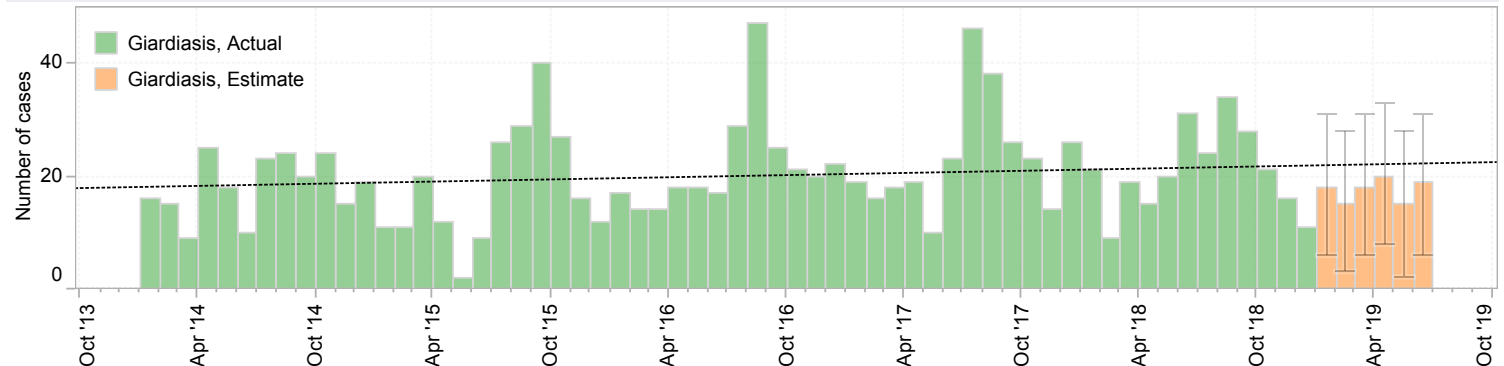
Hospitalizations in the past 12 months

14 (6%)

Giardiasis cases by gender past 12 months

Female	107
Male	132

Reported giardiasis cases by date of onset or first lab result and 6 month forecast



# Lyme disease

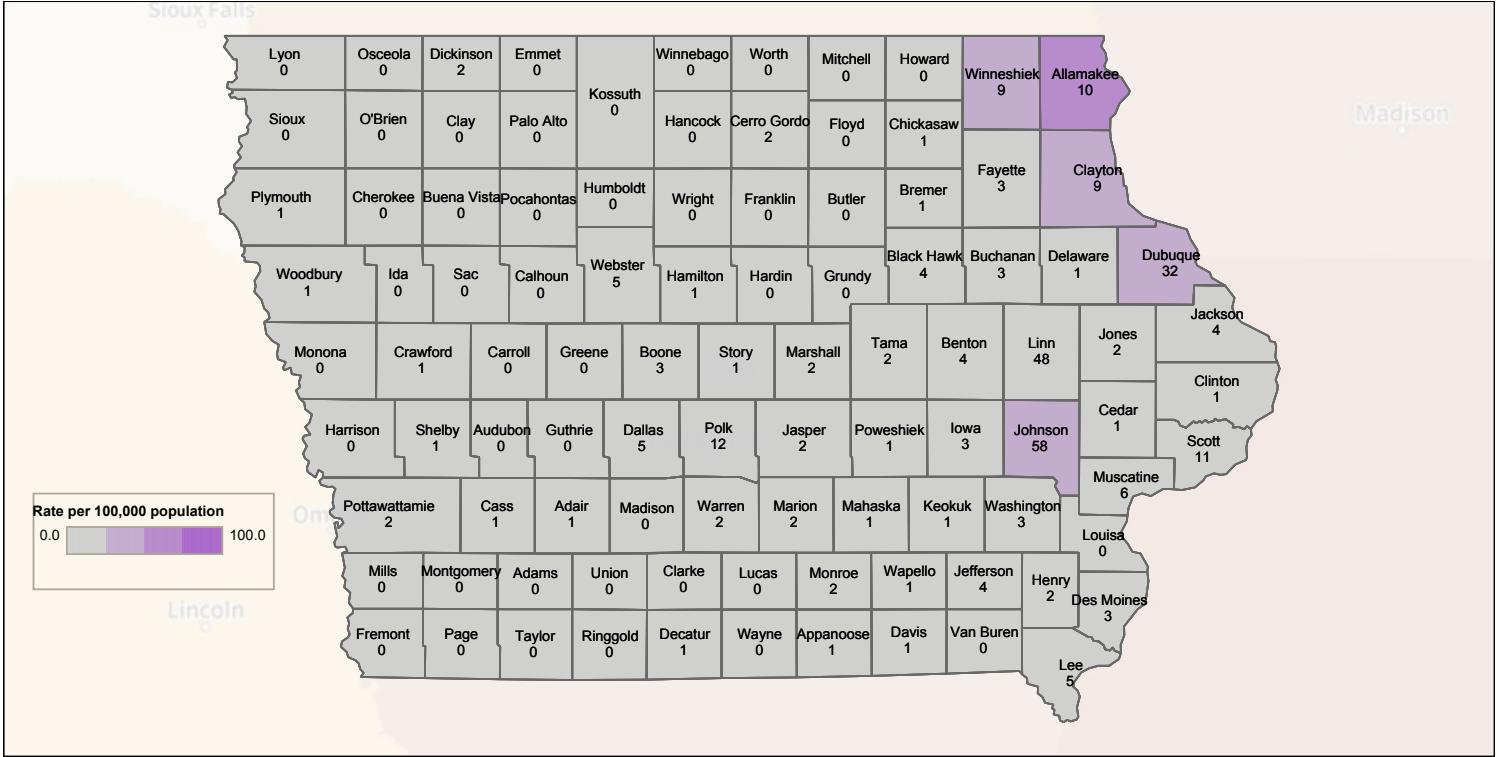
Number of cases in the 4th Qtr 2018

21

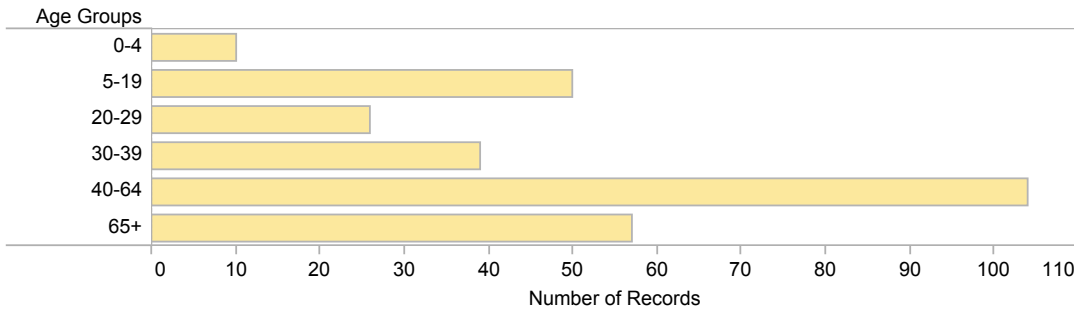
Number of cases in the past 12 months

272

Reported lyme disease cases and incidence rates per 100,000 population by county of residence for the past 12 months



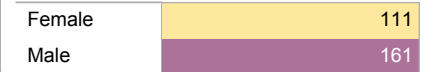
Lyme disease cases by age past 12 months. Over 55 percent of all cases were in the 5-19 and 40-64 year old age groups.



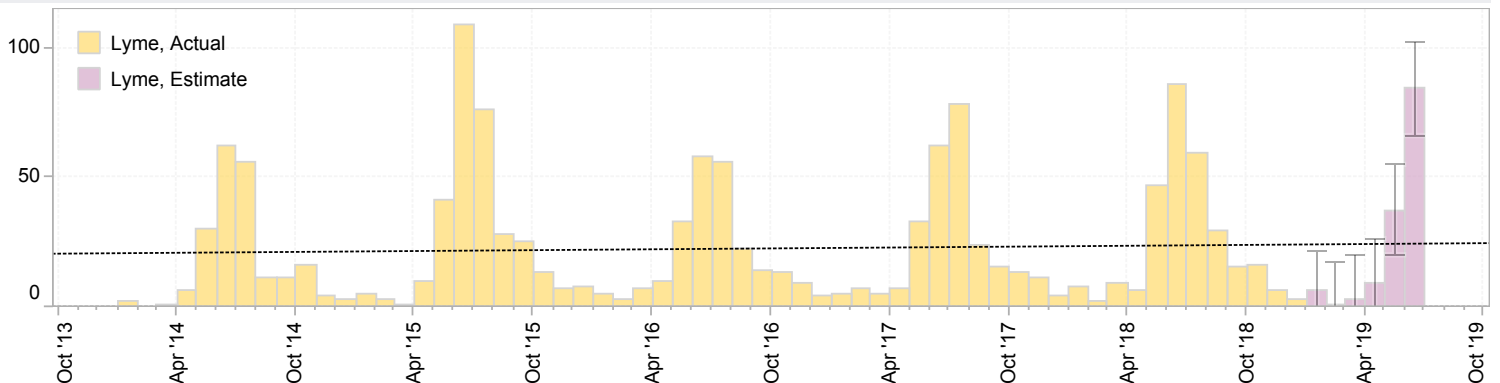
Hospitalizations in the past 12 months

7 (3%)

Lyme disease cases by gender past 12 months



Reported lyme disease cases by date of onset or first lab result and 6 month forecast



# Pertussis

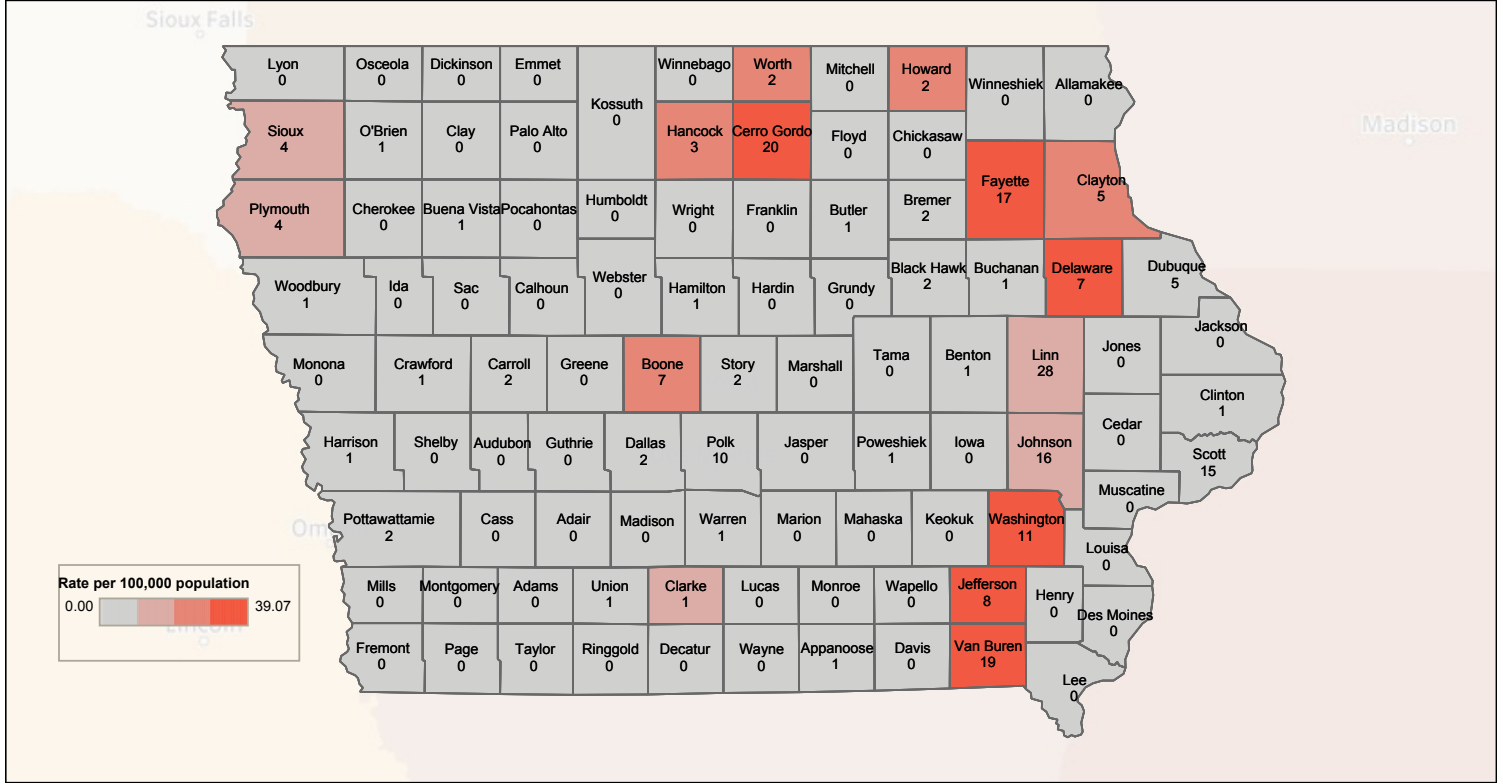
Number of cases in the 4th Qtr 2018

65

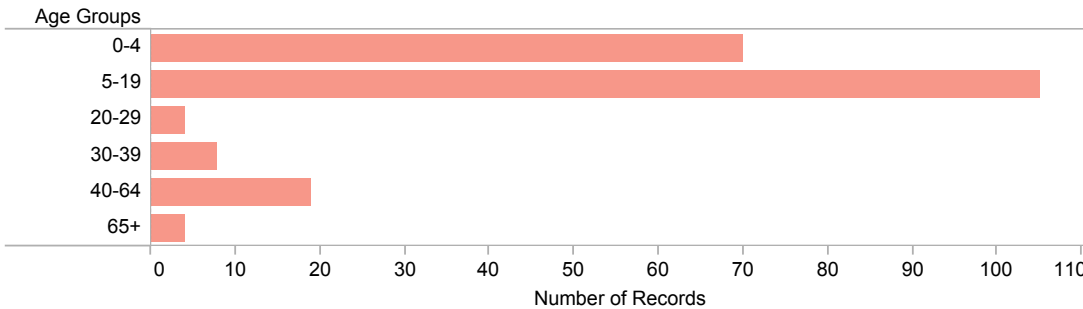
Number of cases in the past 12 months

204

Reported pertussis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Pertussis cases by age past 12 months. Most cases occur in the 0-19 year age group.



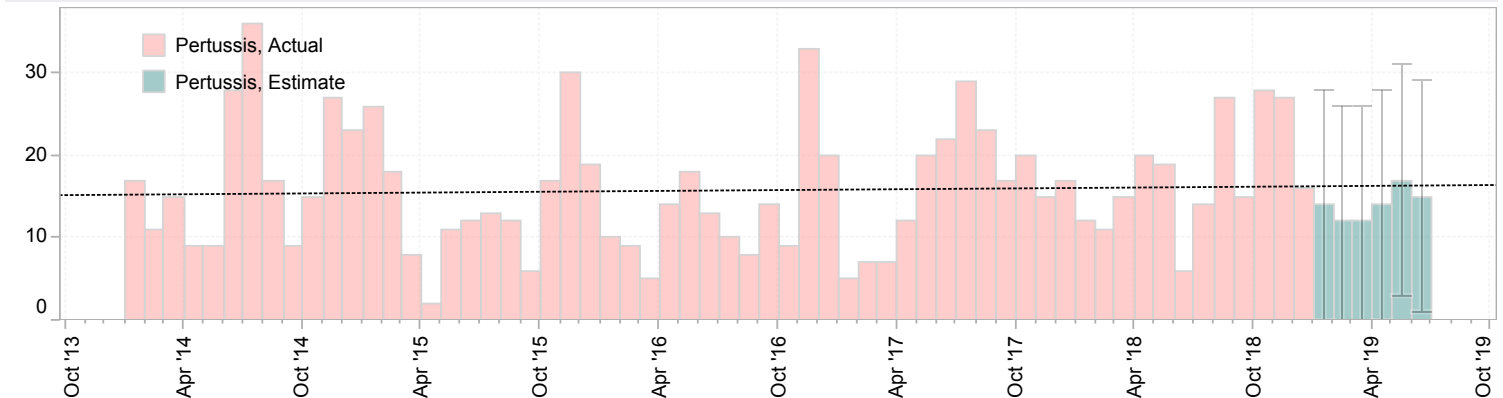
Hospitalizations in the past 12 months

2 (1%)

Pertussis cases by gender past 12 months

Female	103
Male	101

Reported pertussis cases by date of onset or first lab result and 6 month forecast



# Salmonella

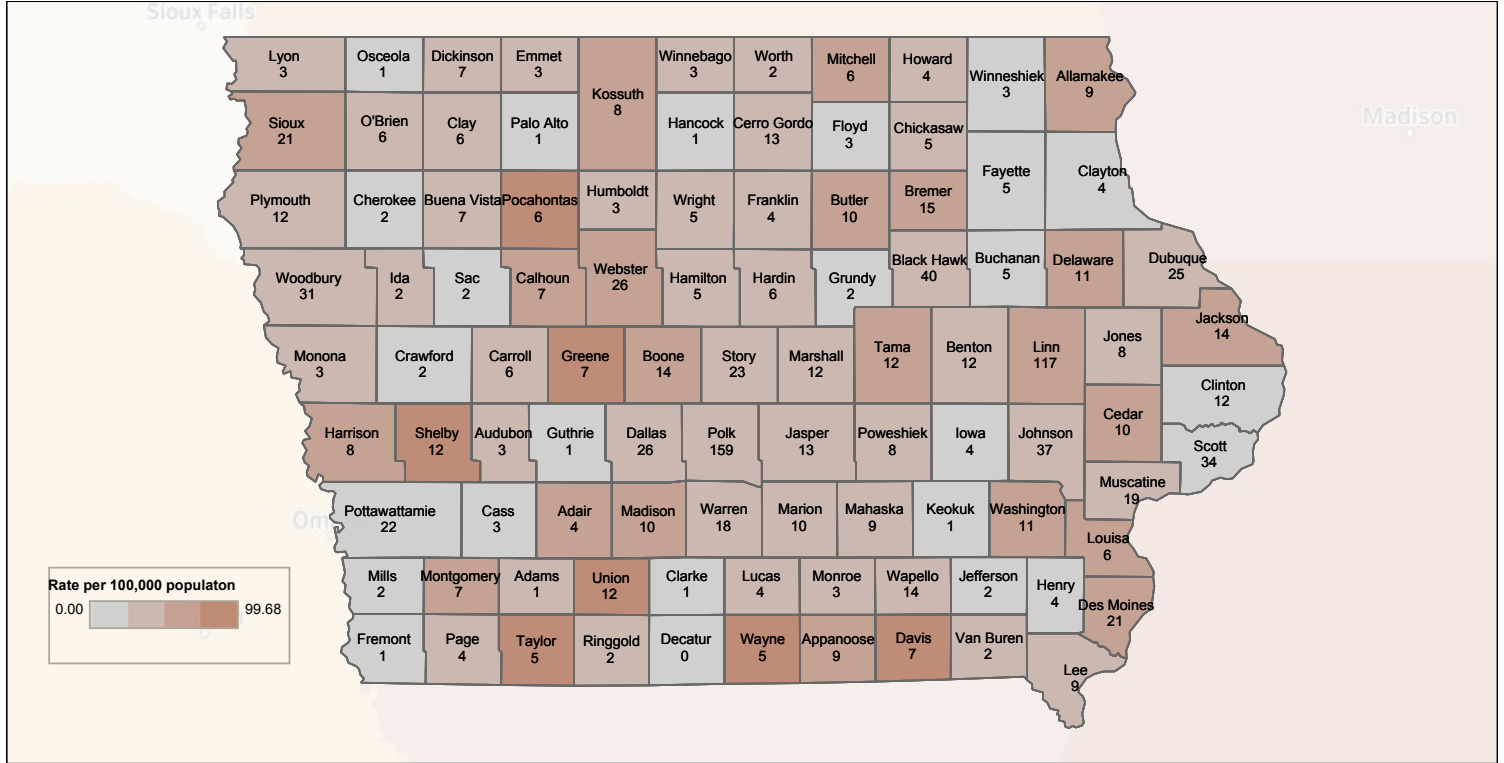
Number of cases in the 4th Qtr 2018

117

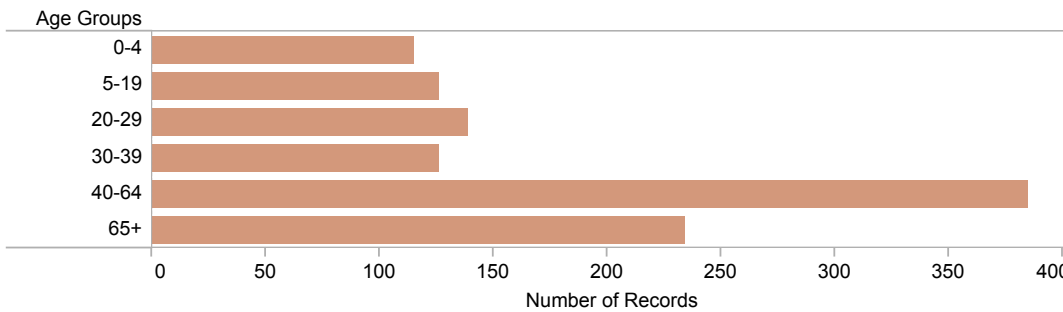
Number of cases in the past 12 months

1,121

Reported salmonellosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Salmonellosis cases by age past 12 months. Over a third of all cases occurred in the 40-64 year age group.



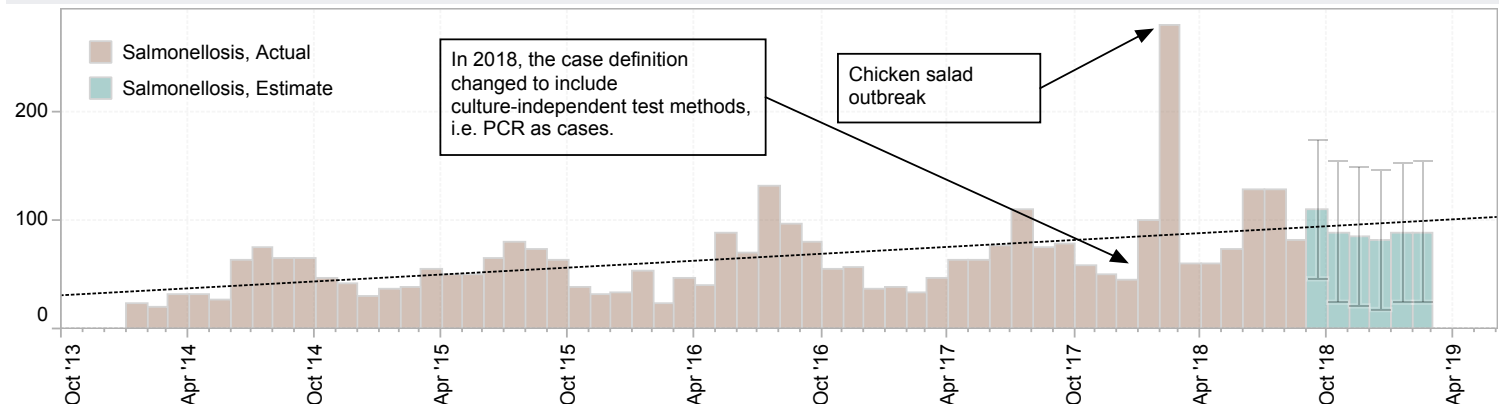
Hospitalizations in the past 12 months

166 (15%)

Salmonellosis cases by gender past 12 months

Female	641
Male	480

Reported salmonellosis cases by date of onset or first lab result and 6 month forecast



# Shigella

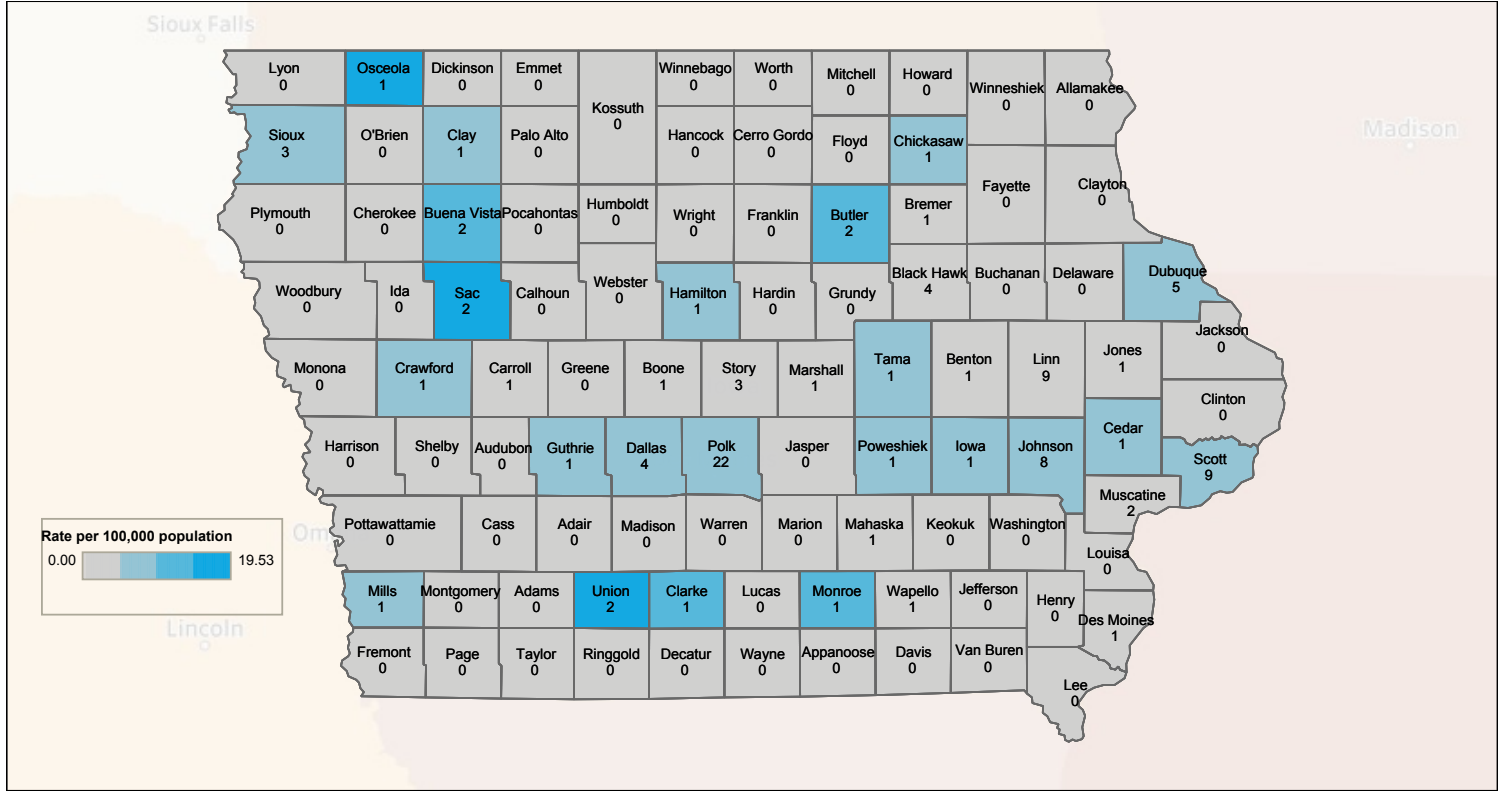
Number of cases in the 4th Qtr 2018

**21**

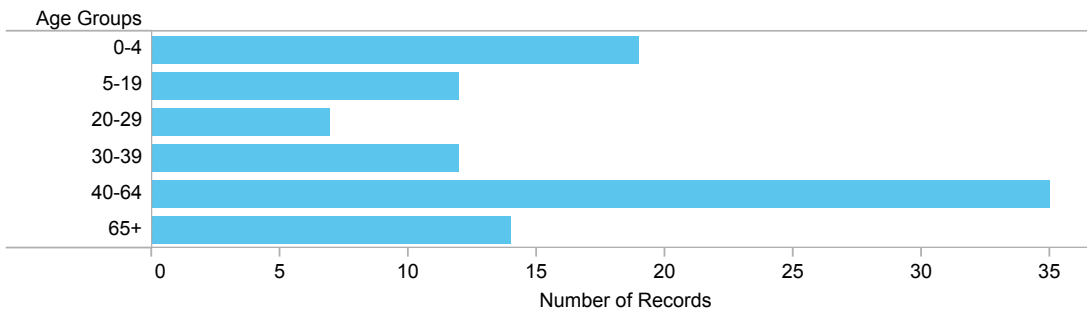
Number of cases in the past 12 months

**98**

Reported shigellosis cases and incidence rates per 100,000 population by county of residence for the past 12 months



Shigellosis cases by age past 12 months. Over 45 percent of all cases occurred in the 0-19 year age groups. An additional 24% of cases were in the 40-64 year age group.



Hospitalizations in the past 12 months

**10 (10%)**

Shigellosis cases by gender past 12 months

Female	48
Male	50

Reported shigellosis cases by date of onset or first lab result and 6 month forecast

