Health and Disease Summary

December 2018

SOUTH DAKOTA DEPARTMENT OF HEALTH

SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

South Dakota Infectious Disease Summary 2018

Disease/Agent	Cases YTD	Rate	5-Year Median YTD	Percent change
Campylobacter	528	60.7	347	+52%
Carbapenem-resistant Enterobacteriaceae	46	5.3	37	+24%
Chlamydia	4,435	510.0	4,130	+7%
Coccidiodomycosis	3	0.2‡	--	--
Cryptosporidiosis	177	20.4	163	+9%
Cyclosporiasis	30	3.4	1	2900%
E. coli, shiga toxin-producing	202	23.2	62	+226%
Ehrlichiosis	4	0.5‡	1	+300%
Giardiasis	112	12.9	116	-3%
Gonorrhea	1,696	195.0	950	+79%
Haemophilus influenzae, invasive	30	3.4	--	--
Hepatitis A	1	0.1‡	2	-50%
Hepatitis B, chronic	46	5.3	53	-13%
Hepatitis C, acute and chronic	539	62.0	569	-5%
HIV, including Stage III (AIDS)	33	3.8	36	-8%
Legionellosis	33	3.8	9	+267%
Listeriosis	1	0.1‡	0	--
Lyme disease	7	0.8‡	5	+40%

YTD: Year-to-Date Rate: Cases per 100,000 population 5-Year Median: 2013–2017

‡ Unstable rate based on <20 observations

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South Dakota Infectious Disease Summary 2018

SOUTH DAKOTA DEPARTMENT OF HEALTH

Disease/Agent	Cases YTD	Rate	5-Year Median YTD	Percent change
Malaria	9	1.0‡	5	+80%
MRSA, invasive	172	19.8	124	+39%
Pertussis	149	17.1	16	+831%
Pneumococcal disease, invasive	106	12.2	110	-4%
Q fever	12	1.4‡	5	+140%
Rabies, animal	15	NA	28	-46%
Salmonella	222	25.5	226	-2%
Shigella	26	3.0	190	-86%
Spotted fever Rickettsiosis	14	1.6‡	6	+133%
Syphilis, early	46	5.3	49	-6%
Toxic shock syndrome	1	0.1‡	--	--
Tuberculosis	12	1.4‡	12	-10%
Tularemia	9	1.0‡	13	-31%
Varicella	31	3.6	27	+15%
Vibriosis	9	1.0‡	--	--
West Nile Virus	169	19.4	73	+132%

YTD: Year-to-Date Rate: Cases per 100,000 population 5-Year Median: 2013–2017

‡ Unstable rate based on <20 observations

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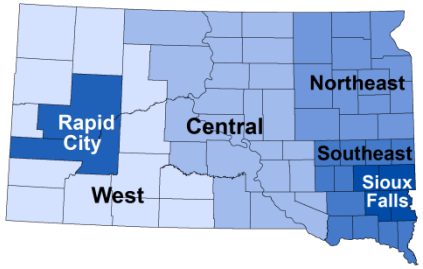
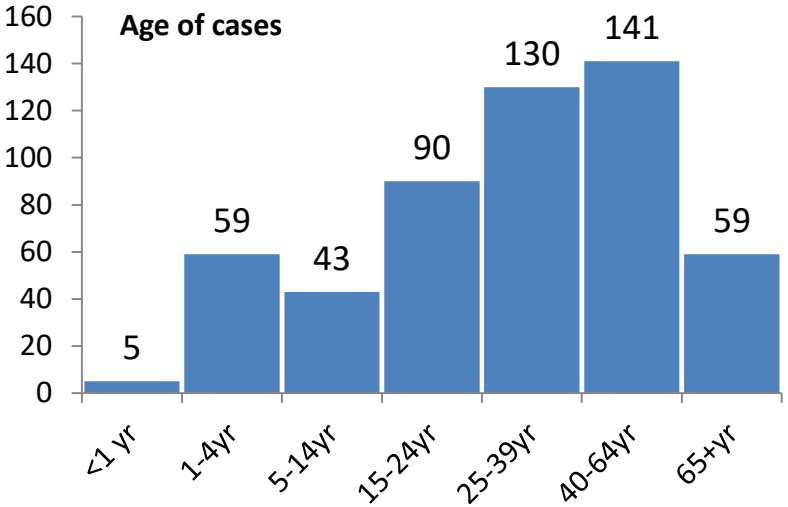
Campylobacteriosis

Symptoms include diarrhea, cramping, abdominal pain, and fever within 2–5 days after exposure.

Regions	Cases	Rate†
Sioux Falls MSA	84	32.0
Rapid City MSA	66	44.2
Northeast	111	60.3
Southeast	96	82.1
Central	89	92.0
West	80	82.7
South Dakota	**526**	**58.0**

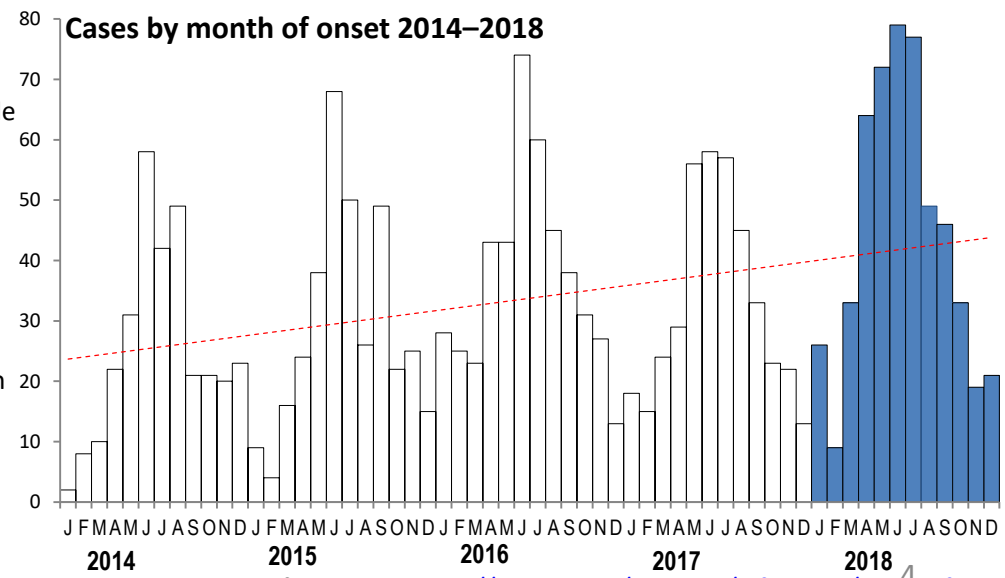
†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.





Counties with cases (* for <5 cases):

Aurora*, Beadle 13, Bennett*, Bon Homme 12, Brookings 5, Brown 16, Brule 9, Butte 10, Campbell 6, Charles Mix 13, Clark 6, Clay 7, Codington 14, Corson*, Custer 7, Davison 18, Day*, Deuel 17, Dewey 7, Douglas 8, Edmunds*, Fall River 9, Faulk*, Grant *, Gregory 9, Haakon*, Hamlin 10, Hand*, Hanson 6, Harding 6, Hughes*, Hutchinson 16, Hyde*, Jackson*, Jerauld*, Kingsbury 8, Lake 5, Lawrence 11, Lincoln 17, Lyman*, Marshall*, McCook 7, McPherson*, Meade 14, Mellette*, Miner 5, Minnehaha 51, Moody 5, Oglala Lakota 8, Pennington 52, Perkins 9, Potter*, Roberts 7, Sanborn 5, Spink 5, Stanley*, Todd 10, Tripp*, Turner 9, Union 5, Walworth 6, Yankton 12, Ziebach*.



Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

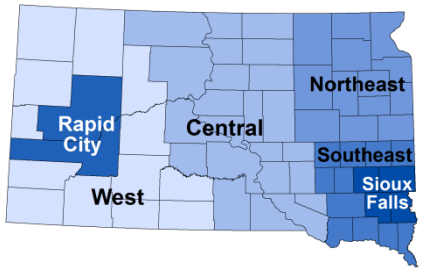
SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

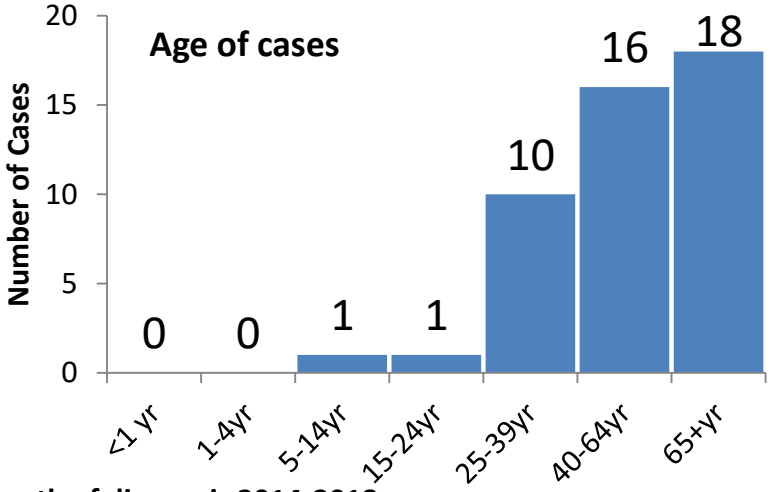
CRE: Carbapenem-resistant Enterobacteriaceae, family of bacteria that are difficult to treat because of high levels of resistance to antibiotics.

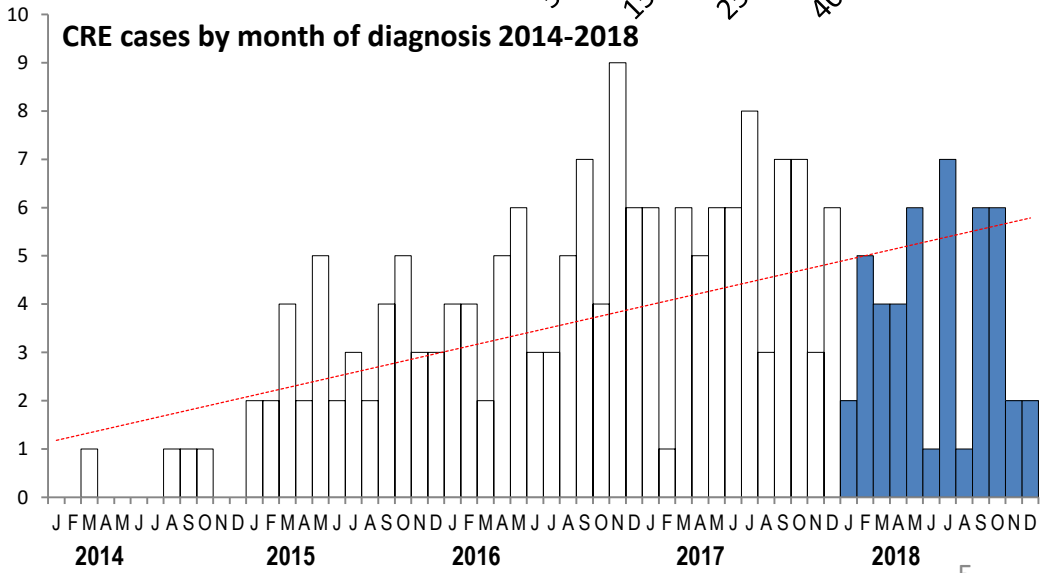
Regions	Cases	Rate†
Sioux Falls MSA	17	6.6‡
Rapid City MSA	7	5.1‡
Northeast	7	2.9‡
Southeast	2	1.8‡
Central	8	8.6‡
West	5	5.4‡
South Dakota	**46**	**5.1**

†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area

Counties with cases (* for <5 cases):
Beadle*, Brown*, Charles Mix*, Codington*, Davison*, Dewey*, Edmunds*, Lawrence*, Lincoln 5, Marshall*, Meade*, Minnehaha 11, Oglala Lakota*, Pennington 6, Roberts*, Todd*, Turner*, Yankton*.







‡ Unstable rates based on <20 observations

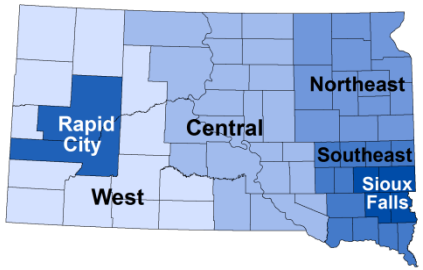
South Dakota healthcare associated infections: http://doh.sd.gov/diseases/hai/

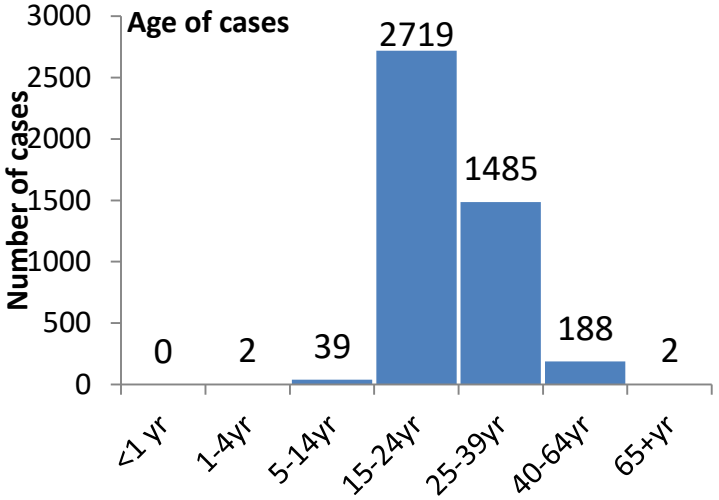
SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Chlamydia

Most people who have chlamydia don't know it since the disease often has no symptoms. Chlamydia is the most commonly reported STD in the United States and South Dakota.

Regions	Cases	Rate†
Sioux Falls MSA	1,252	450.0
Rapid City MSA	839	562.4
Northeast	565	309.9
Southeast	345	276.5
Central	542	546.5
West	884	878.8
South Dakota	**4,427**	**473.7**

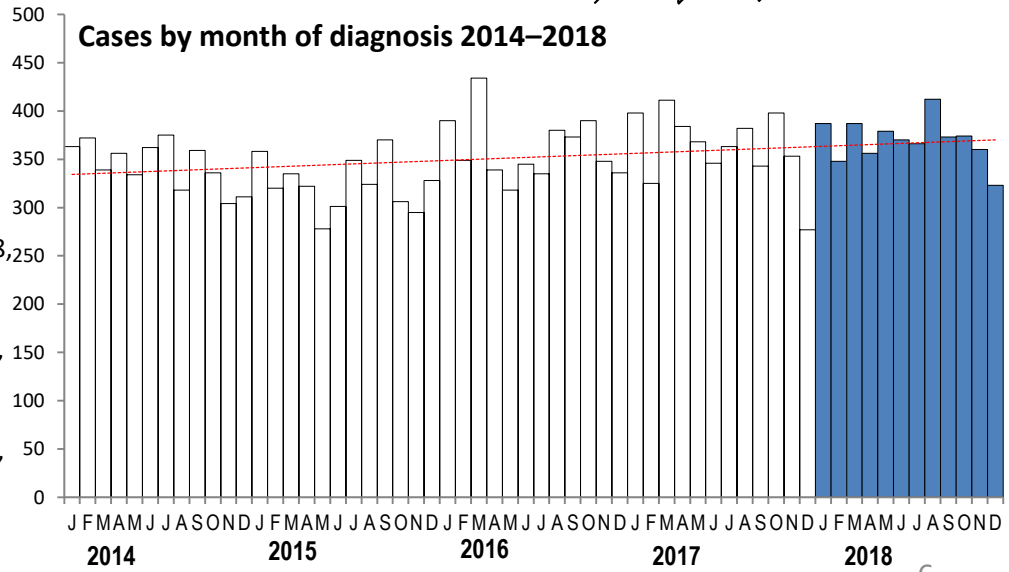




†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Aurora 12, Beadle 47, Bennett 43, Bon Homme 11, Brookings 138, Brown 154, Brule 18, Buffalo 38, Butte 35, Campbell*, Charles Mix 59, Clark 6, Clay 70, Codington 68, Corson 78, Custer 24, Davison 81, Day 18, Deuel 6, Dewey 150, Douglas 5, Edmunds*, Fall River 14, Faulk*, Grant 13, Gregory 7, Haakon*, Hamlin 15, Hand*, Hanson*, Harding*, Hughes 67, Hutchinson 5, Hyde*, Jackson 28, Kingsbury*, Lake 25, Lawrence 92, Lincoln 139, Lyman 37, Marshall*, McCook 6, Meade 81, Mellette 17, Miner*, Minnehaha 1,102, Moody 15, Oglala Lakota 347, Pennington 758, Perkins*, Potter 6, Roberts 84, Sanborn*, Spink 8, Stanley 7, Sully*, Todd 255, Tripp 27, Turner 5, Union 34, Walworth 18, Yankton 93, Ziebach 21.

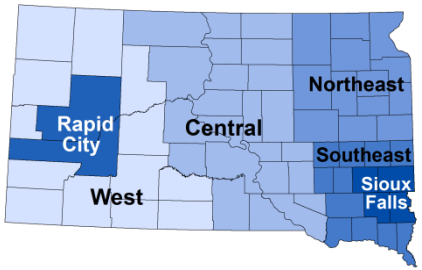


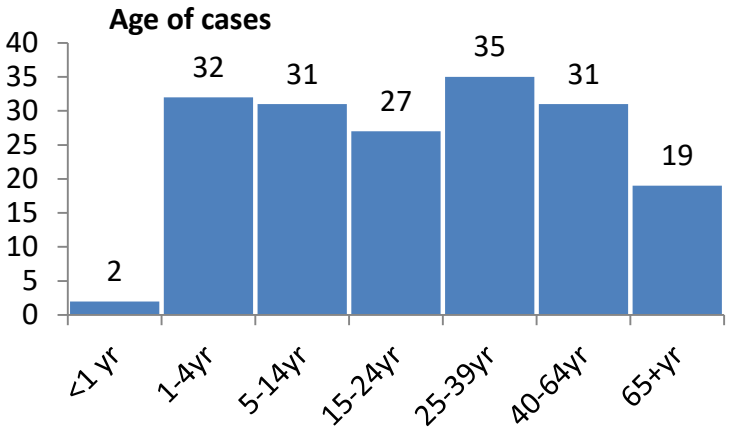
SD STD: http://doh.sd.gov/diseases/infectious/std/

Cryptosporidiosis

Cryptosporidiosis is a diarrheal disease caused by microscopic parasites that can live in the intestine of humans and animals and is passed in the stool of an infected person or animal.

Regions	Cases	Rate†
Sioux Falls MSA	47	17.8
Rapid City MSA	4	1.4‡
Northeast	48	26.6
Southeast	51	43.3
Central	18	19.3‡
West	9	8.6‡
South Dakota	**177**	**19.4**

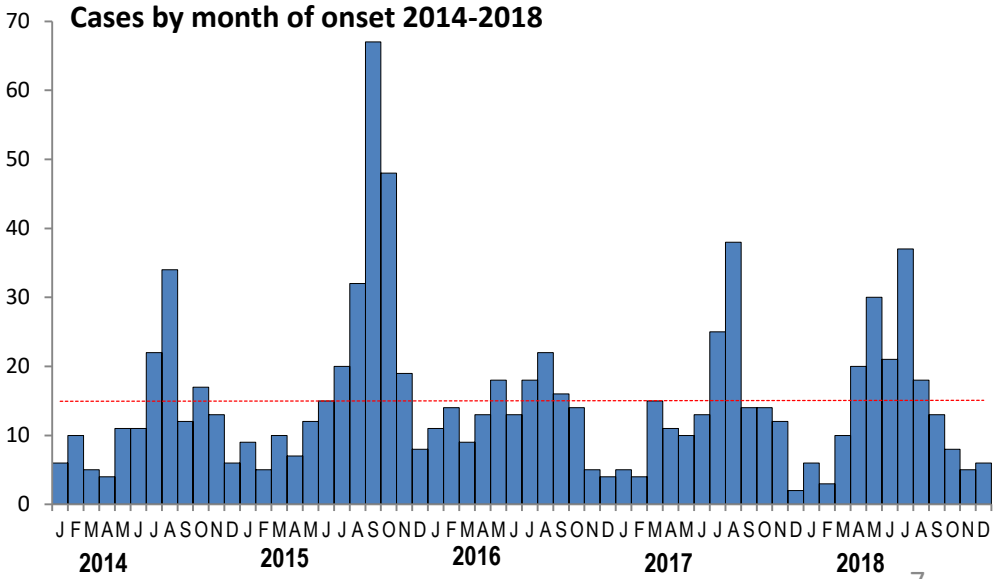




†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Aurora*, Beadle 7, Bon Homme*, Brookings 10, Brown*, Butte*, Clark*, Clay 7, Codington 10, Davison 5, Day*, Deuel*, Douglas*, Edmunds*, Fall River*, Grant*, Gregory*, Hamlin 8, Hand*, Hughes*, Hutchinson 9, Jerauld*, Lake*, Lawrence*, Lincoln 9, Lyman*, Marshall*, McCook 6, McPherson*, Miner*, Minnehaha 30, Moody*, Pennington*, Sanborn*, Todd 5, Tripp*, Turner*, Union 5, Yankton 15.



‡ Unstable rates based on <20 observations

Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

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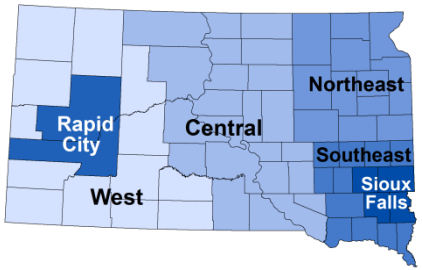
Cyclosporiosis

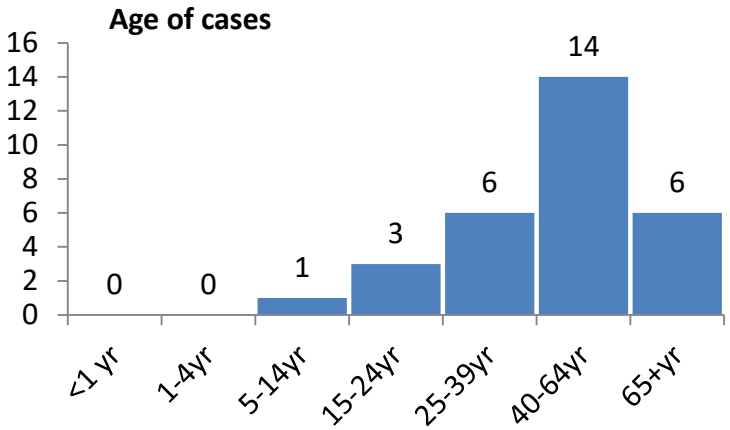
Cyclosporiasis is a diarrheal disease caused by a parasite that can live in the intestine of humans. Not transmitted person-to-person. Outbreaks occur when fruits and vegetables are contaminated with feces.

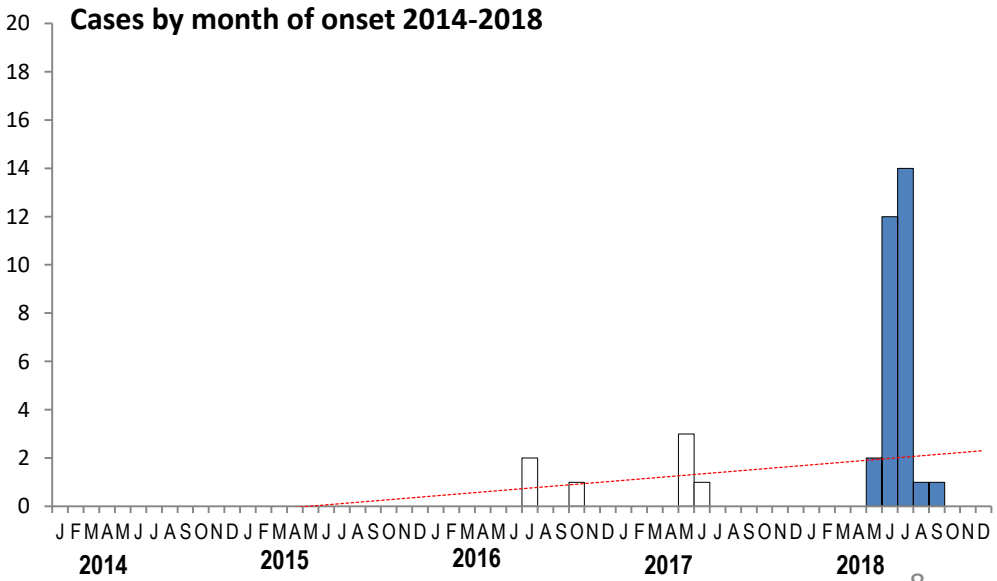
Regions	Cases	Rate†
Sioux Falls MSA	7	2.7‡
Rapid City MSA	15	10.9‡
Northeast	0	0.0‡
Southeast	3	2.6‡
Central	4	4.3‡
West	1	1.1‡
South Dakota	**30**	**3.4**

†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):
Gregory*, Lawrence*, Lincoln*, McCook*, Meade*, Minnehaha*, Pennington 13, Tripp*, Yankton*.







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E. coli, shiga toxin-producing (STEC)

Infections often include severe stomach cramps, diarrhea (often bloody), and vomiting, some may develop severe illness and hemolytic uremic syndrome (HUS).

Regions	Cases	Rate†
Sioux Falls MSA	53	20.8
Rapid City MSA	25	17.4
Northeast	27	15.1
Southeast	52	45.0
Central	27	28.9
West	18	18.3‡
South Dakota	**202**	**22.9**

†Rate: cases per 100,000 population.
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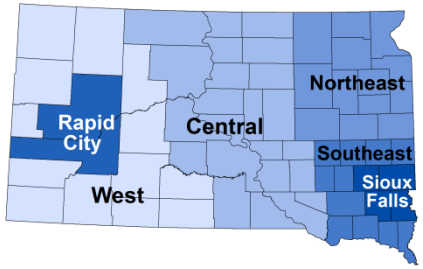
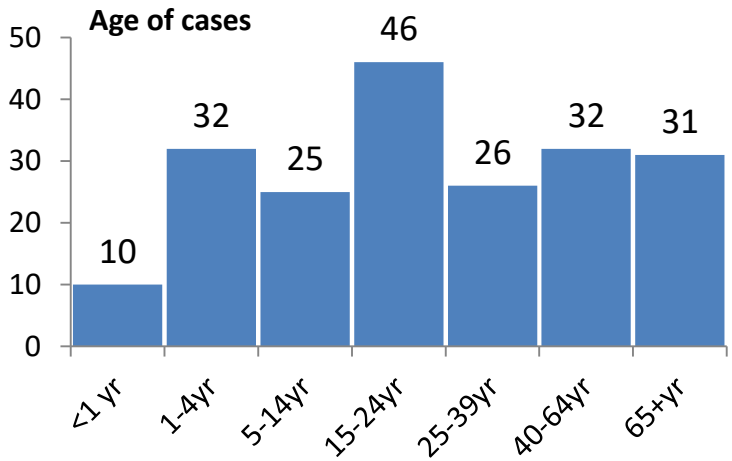
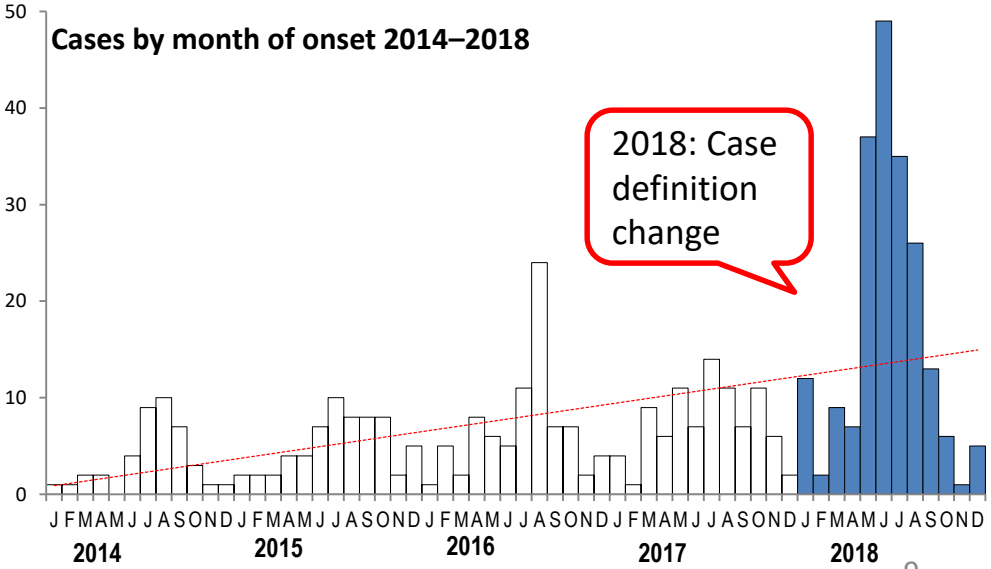




Counties with cases (* for <5 cases):

Aurora*, Beadle*, Brookings*, Brown*, Brule*, Butte*, Clark*, Clay 7, Codington*, Corson 5, Custer*, Davison 21, Day*, Deuel*, Dewey*, Douglas*, Edmunds*, Gregory*, Hamlin*, Hanson*, Hughes*, Hutchinson 5, Kingsbury 5, Lake*, Lawrence 5, Lincoln 12, Marshall*, McCook*, McPherson*, Meade 6, Minnehaha 36, Oglala Lakota*, Pennington 19, Perkins*, Potter*, Roberts*, Sanborn*, Stanley* Todd*, Turner*, Union*, Walworth*, Yankton 9.



‡ Unstable rates based on <20 observations

Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

Giardiasis

Symptoms include: diarrhea, gas, flatulence, greasy stool that can float, abdominal cramps, upset stomach or nausea, dehydration.

Regions	Cases	Rate†
Sioux Falls MSA	30	11.2
Rapid City MSA	5	3.6‡
Northeast	20	9.3‡
Southeast	21	18.5
Central	23	24.6
West	13	12.9‡
South Dakota	**112**	**12.2**

†Rate: cases per 100,000 population.
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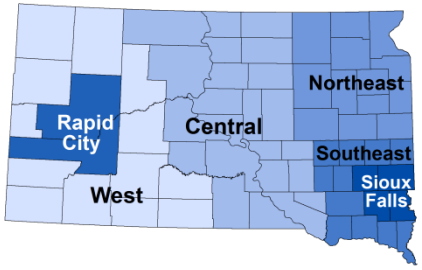
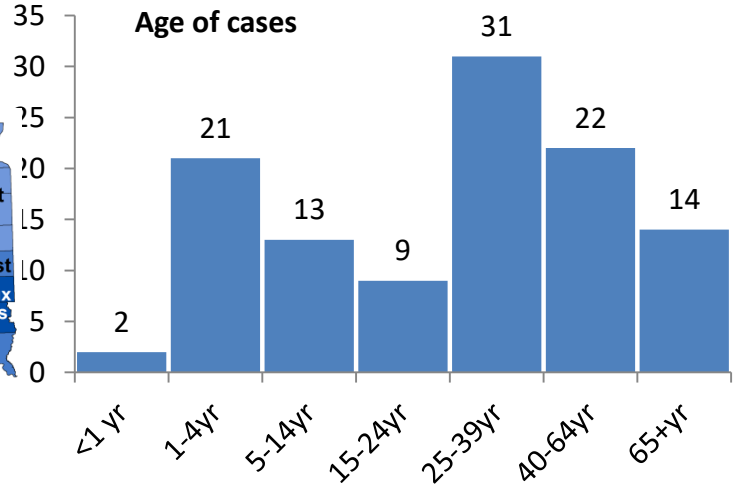
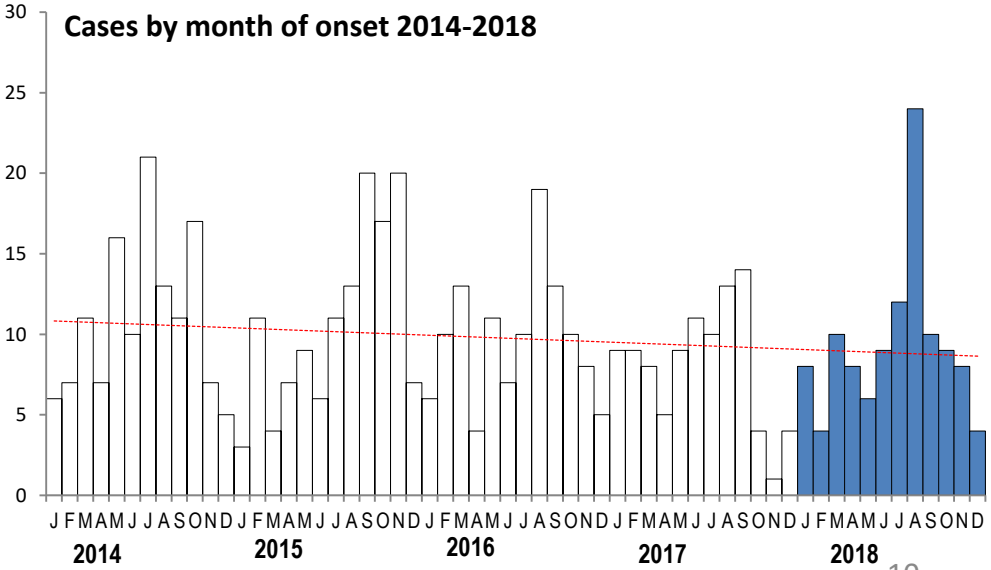




Counties with cases (* for <5 cases):
Beadle*, Brookings 6, Brown*, Brule*, Charles Mix*, Clark*, Clay 5, Codington*, Custer*, Davison*, Dewey*, Edmunds*, Hamlin*, Hughes 13, Lake*, Lawrence 6, Lincoln 6, McCook*, Minnehaha 22, Oglala Lakota 5, Pennington 5, Roberts*, Sanborn*, Spink*, Todd*, Tripp*, Union*, Yankton 11.



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Gonorrhea

Symptoms vary depending on what part of the body is infected (anus, eyes, mouth, genitals, or throat). Gonorrhea can impact an individual's ability to have children if left untreated.

Regions	Cases	Rate†
Sioux Falls MSA	404	144.0
Rapid City MSA	429	295.3
Northeast	77	40.0
Southeast	71	60.9
Central	259	262.0
West	451	429.7
South Dakota	**1,691**	**179.8**

†Rate: cases per 100,000 population.
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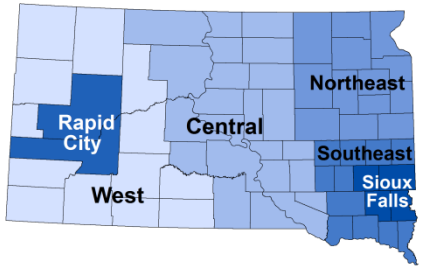
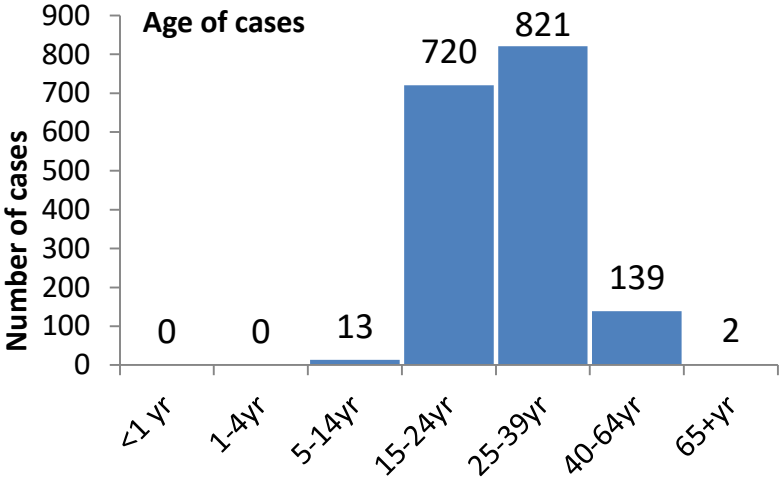
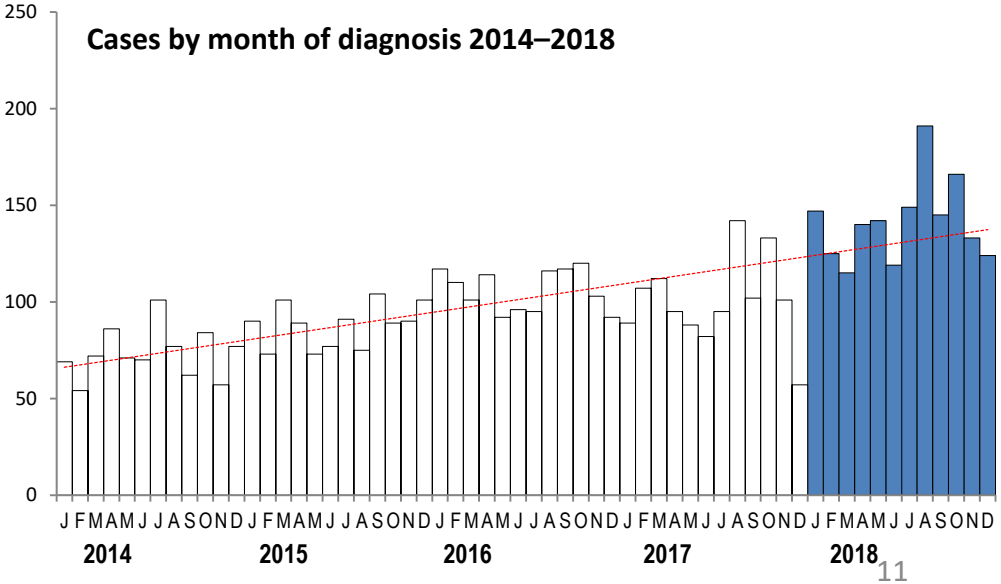




Counties with cases (* for <5 cases):

Aurora*, Beadle 5, Bennett 29, Bon Homme 5, Brookings 9, Brown 20, Brule 8, Buffalo 12, Butte 7, Charles Mix 21, Clark *, Clay 8, Codington 14, Corson 59, Custer 6, Davison 25, Day*, Dewey 89, Douglas*, Fall River*, Hamlin*, Hanson*, Hughes 16, Hutchinson*, Jackson 11, Lake*, Lawrence 7, Lincoln 16, Lyman 21, McCook*, Meade 8, Mellette 9, Minnehaha 387, Moody*, Oglala Lakota 224, Pennington 421, Potter*, Roberts 21, Spink*, Stanley*, Todd 144, Tripp 12, Union 7, Walworth 13, Yankton 16, Ziebach 11.



‡ Unstable rates based on <20 observations

SD STD: http://doh.sd.gov/diseases/infectious/std/

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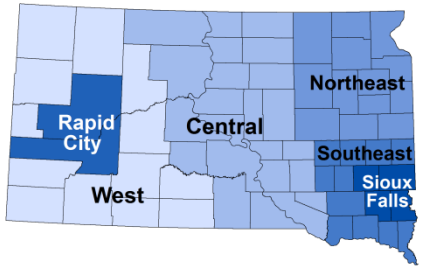
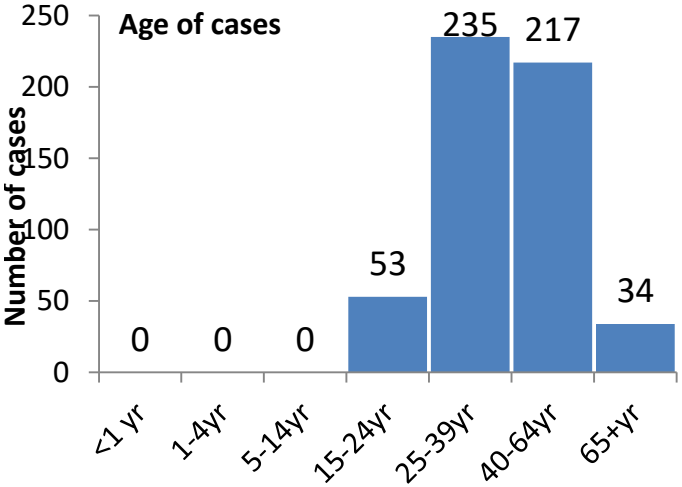
Hepatitis C, acute and chronic

Hepatitis C virus infection is the most common bloodborne infection in the United States and South Dakota.

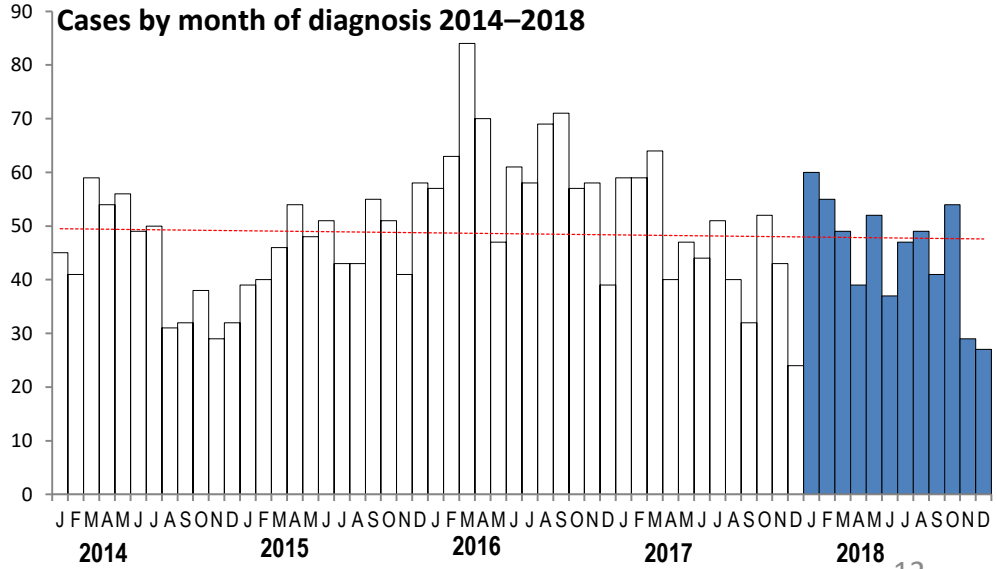
Regions	Cases	Rate†
Sioux Falls MSA	161	56.7
Rapid City MSA	101	67.3
Northeast	60	33.6
Southeast	35	29.1
Central	119	121.9
West	63	64.5
South Dakota	**539**	**58.1**





†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):
Beadle*, Bennett*, Bon Homme*, Brookings 8, Brown 16, Brule 7, Buffalo 16, Butte 5, Charles Mix 5, Clay*, Codington 8, Corson 27, Custer*, Davison 9, Day*, Dewey 19, Fall River*, Grant*, Hand*, Hughes 18, Hutchinson*, Jones*, Kingsbury*, Lake*, Lawrence 11, Lincoln 8, Lyman 16, Marshall*, McCook*, Meade 15, Mellette*, Minnehaha 148, Moody 11, Oglala Lakota 13, Pennington 86, Roberts 15, Sanborn*, Spink*, Todd 16, Tripp*, Turner*, Union*, Walworth 7, Yankton*, Ziebach 5.



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Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

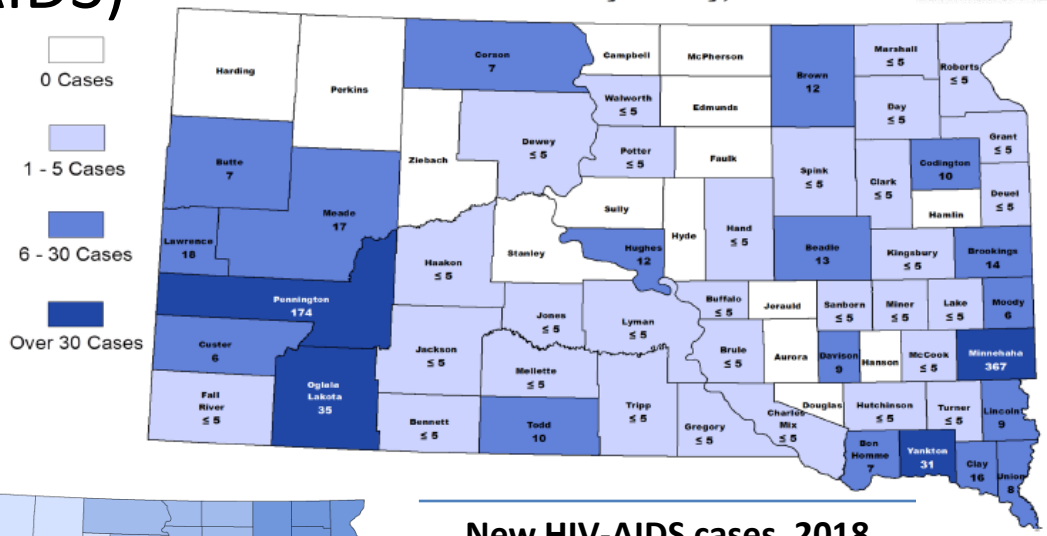
HIV (including Stage III AIDS)

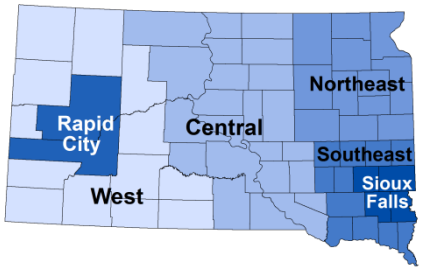
New HIV-AIDS cases, 2018

Regions	Cases	Rate†
Sioux Falls MSA	15	5.8‡
Rapid City MSA	5	3.6‡
Northeast	3	1.7‡
Southeast	5	4.4‡
Central	2	2.1‡
West	3	3.2‡
South Dakota	**33**	**3.8**

†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

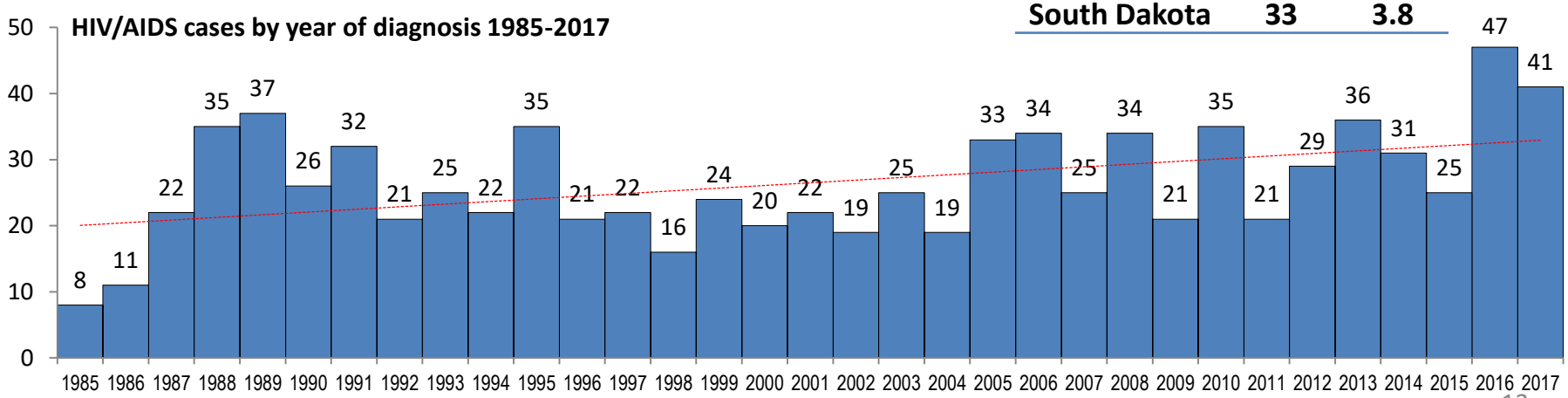
South Dakota Residents Infected with HIV/AIDS
Cumulative Cases by County, 1985 - 2017





New HIV-AIDS cases, 2018

Regions	Cases	Rate†
East River	25	4.1
West River	8	3.1‡
South Dakota	**33**	**3.8**



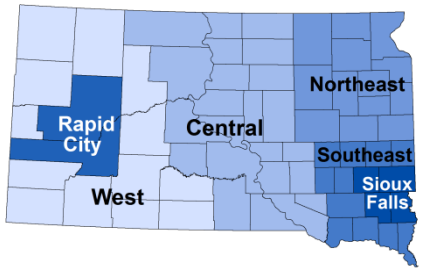
‡ Unstable rates based on <20 observations

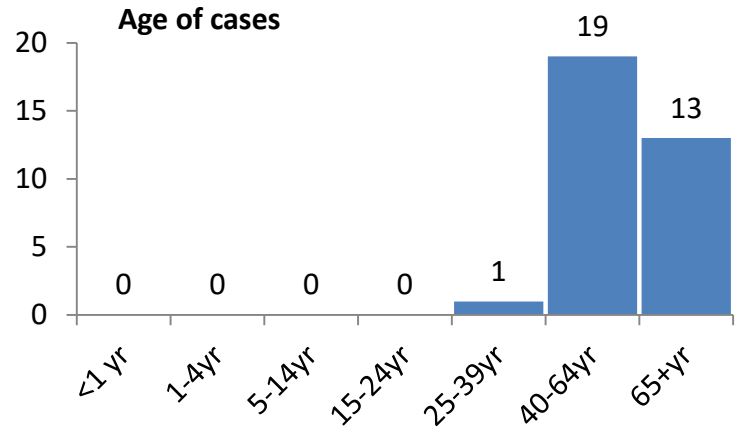
SD HIV: http://doh.sd.gov/diseases/infectious/aids-hiv/HIV-AIDS-Prev.aspx

Legionellosis

Legionellosis is a bacteria that can cause pneumonia. Not transmitted person-to-person. Symptoms may include cough, fever, chills, shortness of breath, muscle aches & headaches.

Regions	Cases	Rate†
Sioux Falls MSA	19	7.3‡
Rapid City MSA	6	3.6‡
Northeast	1	0.6‡
Southeast	1	0.9‡
Central	1	1.1‡
West	5	3.2‡
South Dakota	**33**	**3.4**

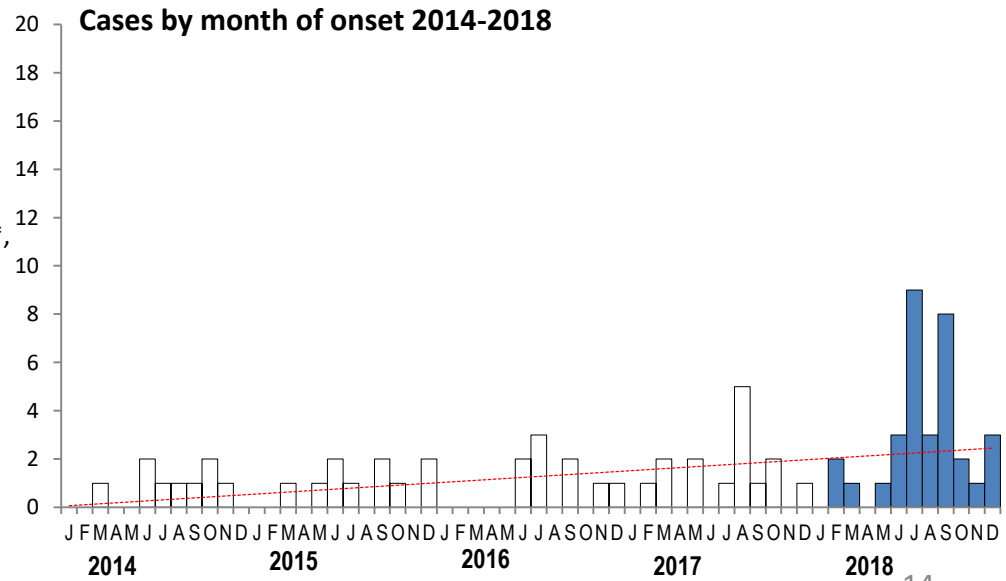




†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Bon Homme *, Brookings*, Custer*, Edmunds*, Lawrence*, Lincoln*, McCook*, Meade*, Minnehaha 14, Oglala Lakota*, Pennington 5, Todd*, Turner *.



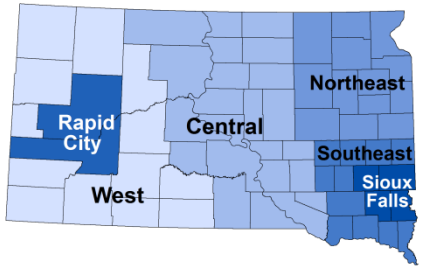
‡ Unstable rates based on <20 observations

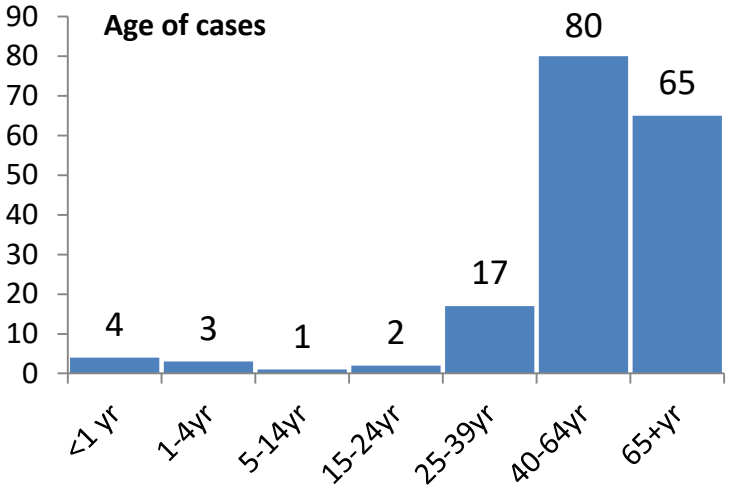
Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

MRSA, invasive

Invasive infections of methicillin-resistant *Staphylococcus aureus* (MRSA).

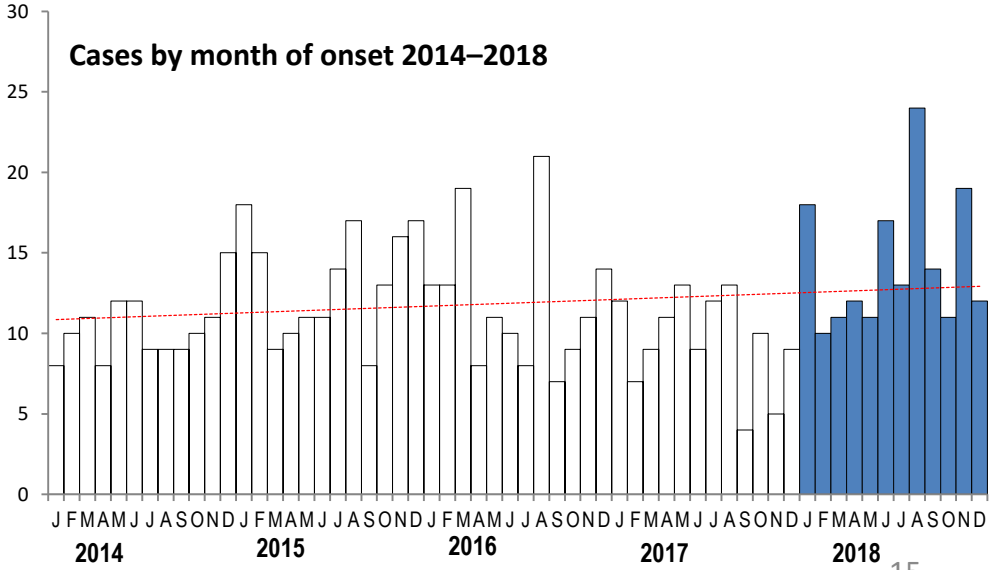
Regions	Cases	Rate†
Sioux Falls MSA	44	16.6
Rapid City MSA	29	19.5
Northeast	28	16.2
Southeast	14	11.5‡
Central	28	23.5
West	29	29.0
South Dakota	**172**	**18.4**





†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):
Beadle 5, Bennett*, Brown 5, Brule*, Buffalo*, Butte*, Charles Mix 5, Clay*, Codington 6, Corson*, Custer*, Davison 9, Day*, Deuel*, Dewey*, Edmunds*, Fall River*, Gregory*, Hamlin*, Hughes 7, Jackson*, Lawrence*, Lincoln*, Marshall*, McCook*, Meade*, Mellette*, Minnehaha 35, Moody*, Oglala Lakota 8, Pennington 27, Potter*, Roberts*, Sanborn*, Spink*, Todd 9, Tripp*, Turner*, Walworth*, Yankton*.



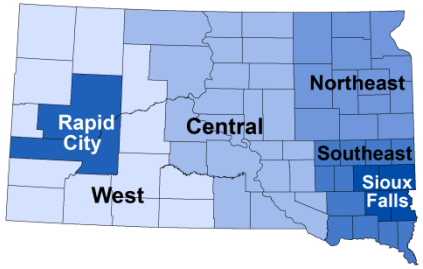
‡ Unstable rates based on <20 observations

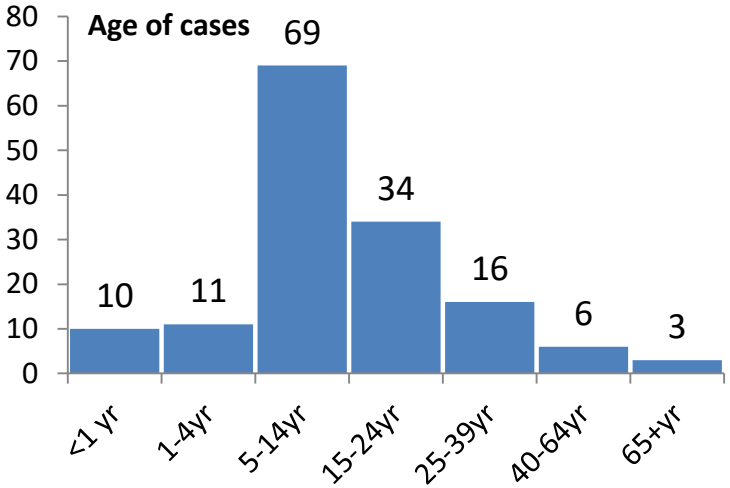
Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

Pertussis (Whooping cough)

Bacterial infection of the respiratory tract characterized by sudden spasm of coughing.

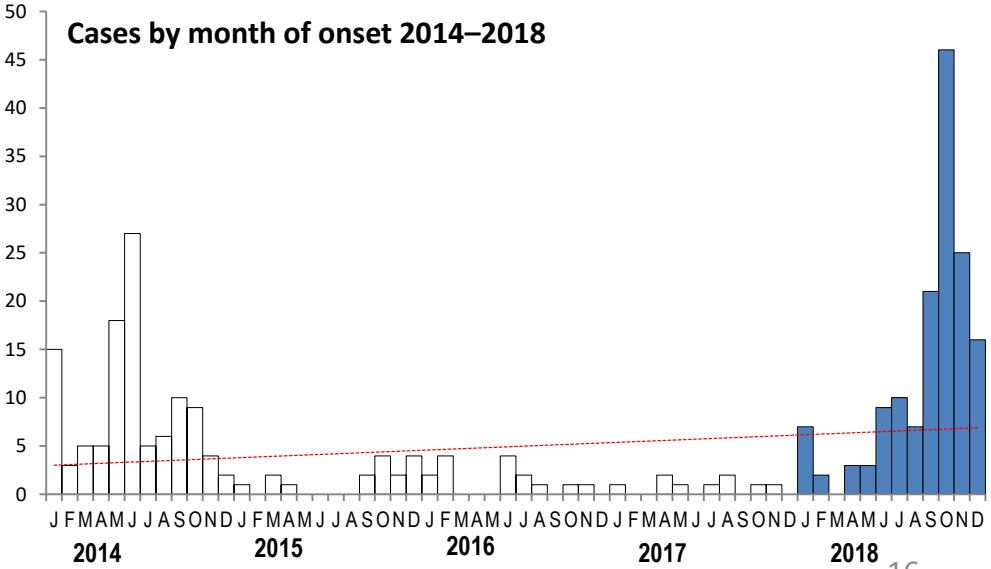
Regions	Cases	Rate†
Sioux Falls MSA	14	5.4‡
Rapid City MSA	8	5.1‡
Northeast	46	24.9
Southeast	3	2.6‡
Central	71	52.4
West	4	4.3‡
South Dakota	**149**	**13.8**





†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):
Bon Homme*, Brown 18, Brule*, Buffalo 7, Butte*, Charles Mix*, Codington*, Corson*, Davison*, Dewey*, Edmunds 21, Grant*, Gregory*, Hughes 11, Lincoln*, Lyman 15, McPherson*, Meade*, Minnehaha 15, Pennington 7, Potter*, Roberts*, Spink 19, Todd*.



‡ Unstable rates based on <20 observations

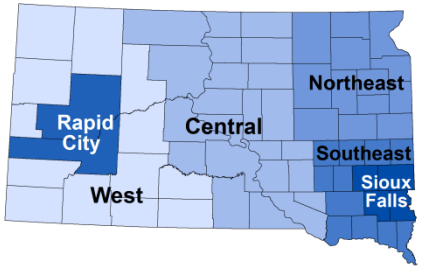
Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

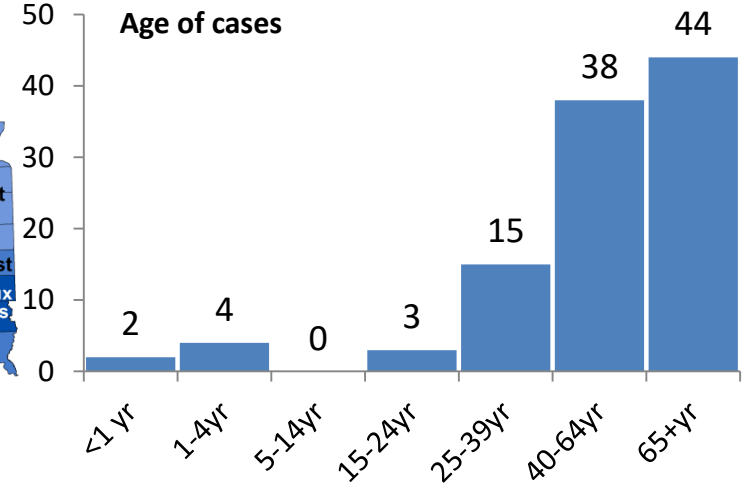
SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Pneumococcal Disease, invasive

Death occurs in 14% of hospitalized adults with invasive disease.
Neurologic sequelae and learning disabilities can occur in meningitis patients.

Regions	Cases	Rate†
Sioux Falls MSA	32	10.8
Rapid City MSA	9	6.5‡
Northeast	27	13.9
Southeast	13	8.8‡
Central	19	16.0‡
West	6	6.4‡
South Dakota	**106**	**10.6**

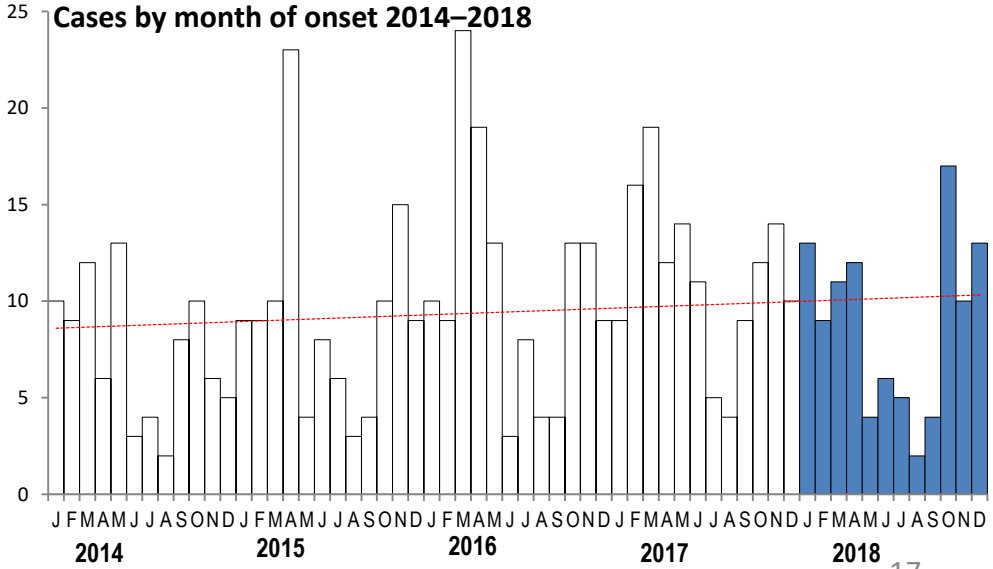




†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Aurora*, Beadle*, Brookings*, Brown 10, Brule*, Buffalo*, Butte*, Charles Mix*, Clay*, Corson*, Custer*, Davison*, Day*, Deuel*, Dewey*, Fall River*, Gregory*, Hanson*, Hughes*, Hutchinson*, Kingsbury*, Lake*, Lincoln 5, Marshall*, McCook*, Minnehaha 23, Oglala Lakota*, Pennington 9, Roberts*, Spink*, Stanley*, Todd*, Tripp*, Turner*, Union*, Walworth*, Yankton*.



‡ Unstable rates based on <20 observations

Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

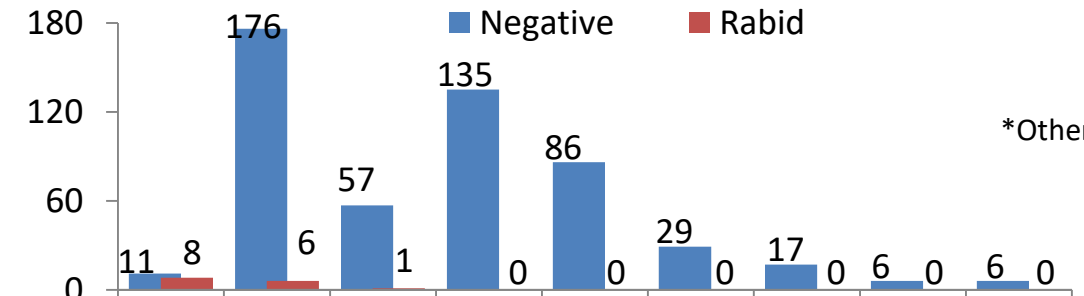
SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Rabies

Rabies is a fatal, but preventable, disease of mammals most often transmitted through the bite of a rabid animal.

Counties

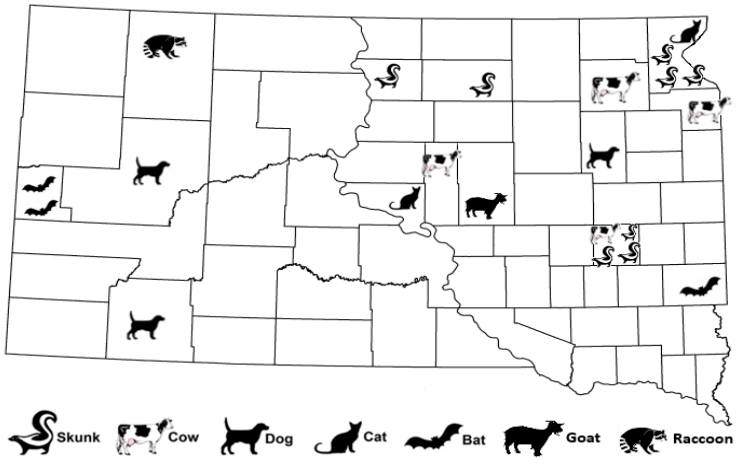
Brookings:	Bat (2)
Clark:	Skunk (1)
Day:	Skunk (1)
Douglas:	Skunk (1)
Hand:	Skunk (1)
Lawrence:	Skunk (1)
Marshall:	Skunk (2)
Minnehaha:	Bat (4)
Roberts:	Skunk (1)
Sanborn:	Cow (1)

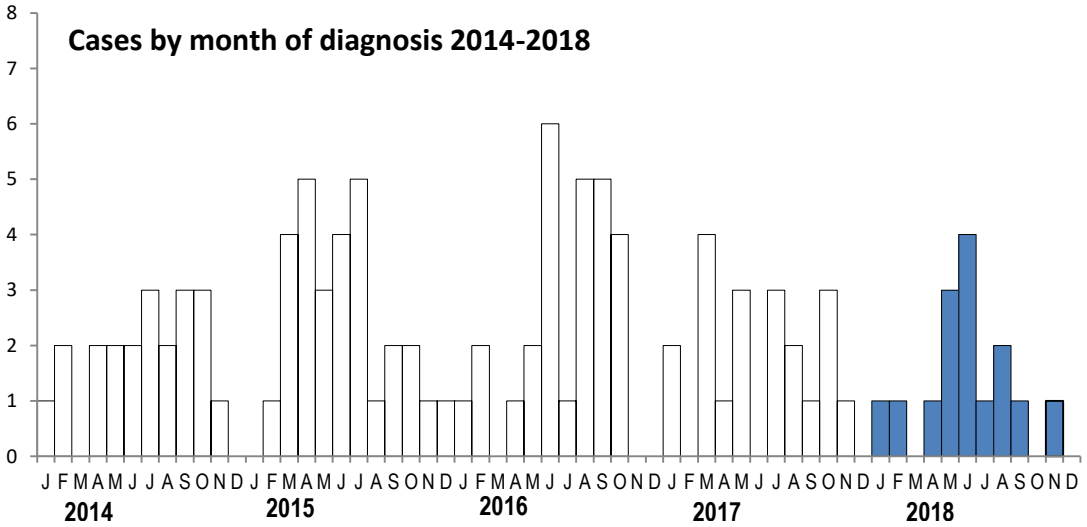


	Skunk	Bat	Cow	Cat	Dog	Raccoon	Other*	Squirrel	Horse
Negative	11	176	57	135	86	29	17	6	6
Rabid	8	6	1	0	0	0	0	0	0

*Other: ferret (1), fox (1), goat (2), gopher (1), mouse (2), mink (2), muskrat (2), opossum (1) rabbit (1), rat (1), sheep (2), shrew (1)

Animal Rabies in South Dakota, 2017 (N=22)



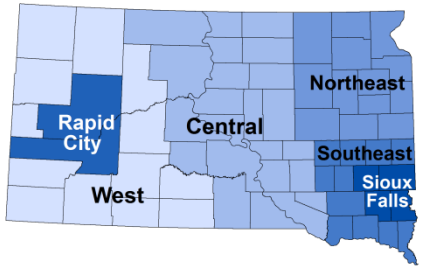


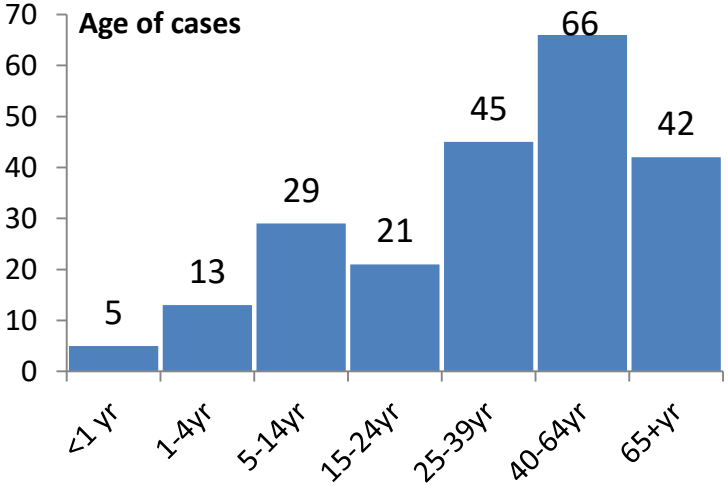
SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Salmonella

Most persons develop diarrhea, fever, and abdominal cramps 12 to 72 hours after infection. The illness usually lasts 4 to 7 days, and most persons recover without treatment.

Regions	Cases	Rate†
Sioux Falls MSA	60	22.4
Rapid City MSA	19	13.0‡
Northeast	47	27.2
Southeast	36	30.9
Central	27	25.7
West	33	34.4
South Dakota	**222**	**24.6**

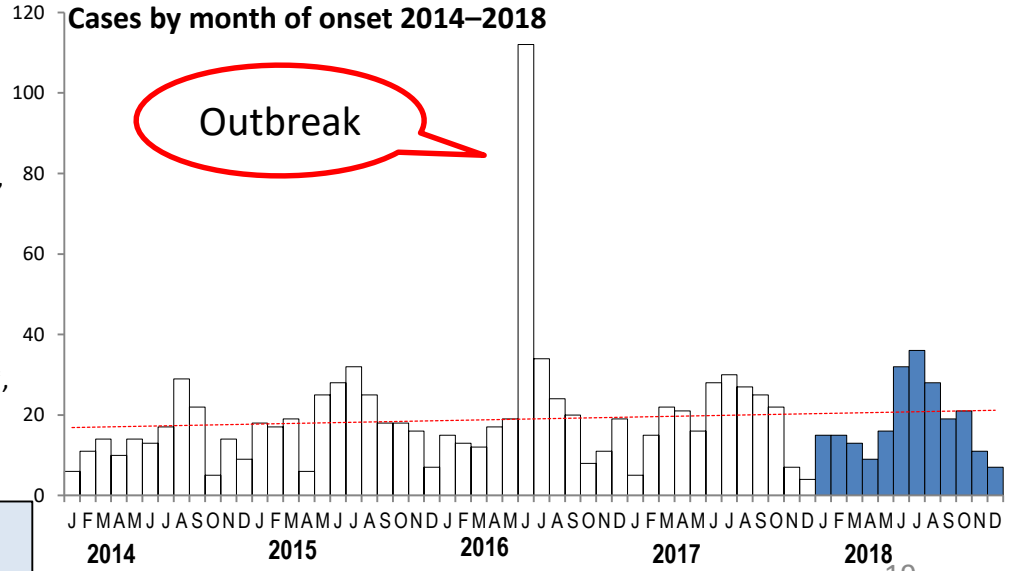




†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):
Aurora*, Beadle*, Bennett*, Bon Homme*, Brookings 6, Brown*, Buffalo*, Butte 6, Campbell*, Charles Mix*, Clark*, Clay*, Codington 19, Corson*, Custer *, Davison*, Day*, Deuel*, Dewey*, Douglas*, Edmunds*, Fall River*, Grant*, Gregory*, Haakon*, Hamlin*, Hand*, Hanson*, Harding*, Hughes*, Hutchinson*, Jackson*, Kingsbury*, Lake 5, Lawrence 5, Lincoln 19, Marshall*, McCook*, McPherson*, Meade*, Mellette*, Miner*, Minnehaha 36, Moody*, Oglala Lakota 6, Pennington 16, Perkins*, Potter*, Roberts*, Spink*, Stanley*, Todd*, Tripp*, Turner*, Union 8, Yankton 7, Ziebach*.

‡ Unstable rates based on <20 observations



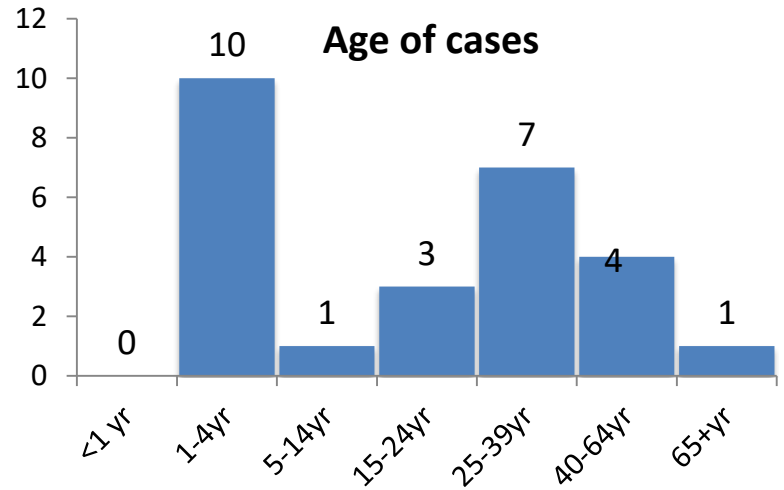
Salmonella serotypes: Typhimurium 52, Enteritidis 29, San Diego 16, Newport 16, Infantis 10, Other or unknown serotypes 99

Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

Shigellosis

Symptoms: diarrhea, fever, and stomach cramps starting a day or two after they are exposed to the bacteria. The diarrhea is often bloody.

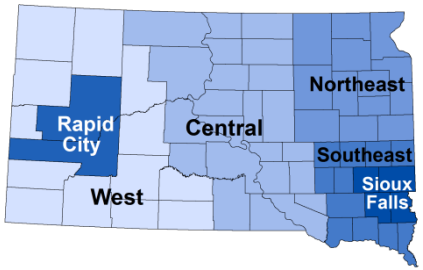
Regions	Cases	Rate†
Sioux Falls MSA	10	3.9‡
Rapid City MSA	3	2.2‡
Northeast	5	2.9‡
Southeast	2	1.8‡
Central	0	0.0‡
West	6	6.4‡
South Dakota	26	3.0‡

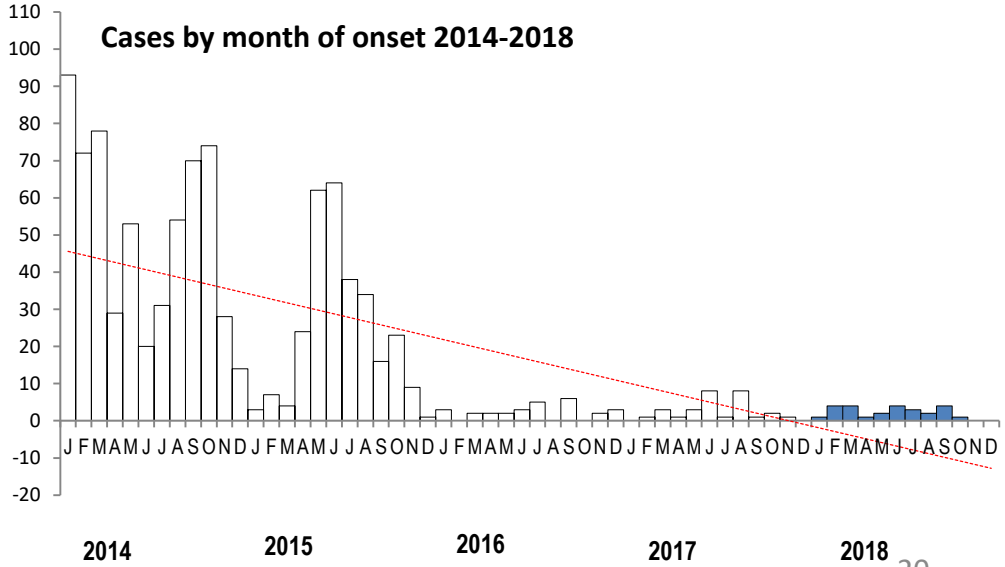


†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Beadle*, Brookings*, Davison*, Fall River*, Harding*, Lincoln*, Meade*, Minnehaha 8, Oglala Lakota*, Pennington*, Todd*, Turner*, Yankton*.





‡ Unstable rates based on <20 observations

Disease fact sheets: http://doh.sd.gov/diseases/infectious/diseasefacts

SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

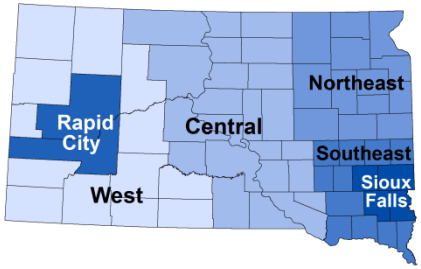
Early Syphilis (primary, secondary, non-primary/secondary)

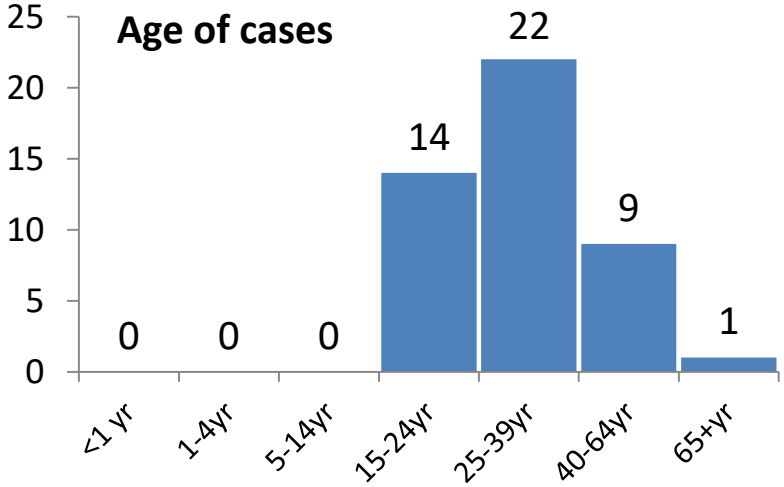
Syphilis is curable in early stages. Signs and symptoms of syphilis include a firm, round, and painless sore on genitals, anus, or mouth; or a rash on the body, including on palms of hands or soles of feet. Later stages include brain damage, heart disease, blindness and death.

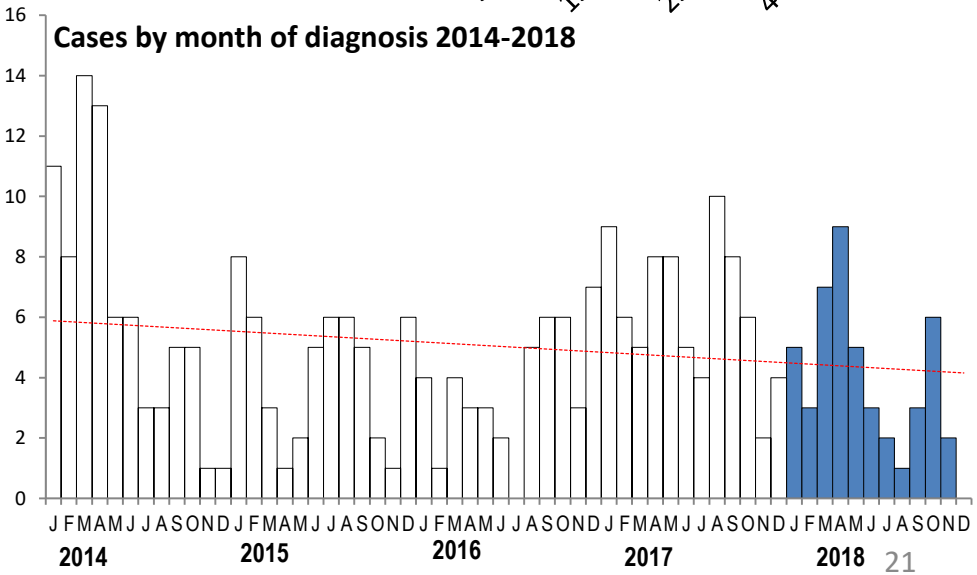
Regions	Cases	Rate†
Sioux Falls MSA	19	6.9‡
Rapid City MSA	6	4.3‡
Northeast	3	1.7‡
Southeast	4	2.6‡
Central	3	3.2‡
West	11	11.8‡
South Dakota	**46**	**5.1**

†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):
Brookings*, Brule*, Clay*, Corson*, Jackson 10, Lake*, Lincoln*, Minnehaha 16, Pennington 6, Perkins*, Walworth*, Yankton*.







‡ Unstable rates based on <20 observations

SD STD: http://doh.sd.gov/diseases/infectious/std/

SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Tuberculosis

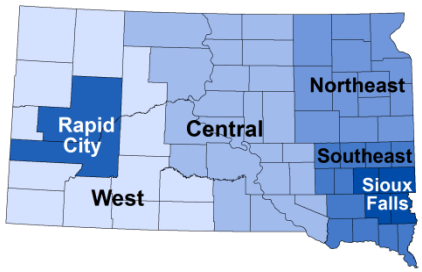
Symptoms of TB disease include: bad cough 3 weeks or longer, pain in the chest, coughing up blood or sputum, weakness or fatigue, weight loss, chills, fever, sweating at night.

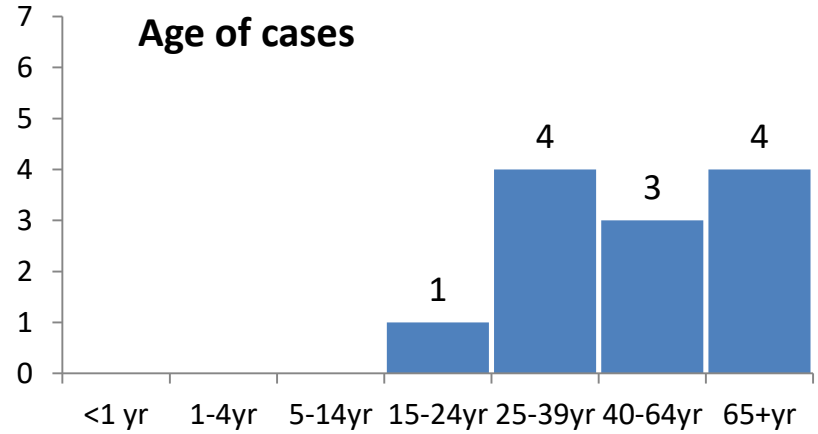
Regions	Cases	Rate†
Sioux Falls MSA	4	1.5‡
Rapid City MSA	1	0.7‡
Northeast	1	0.6‡
Southeast	1	0.9‡
Central	1	1.1‡
West	4	4.3‡
South Dakota	12	1.4‡

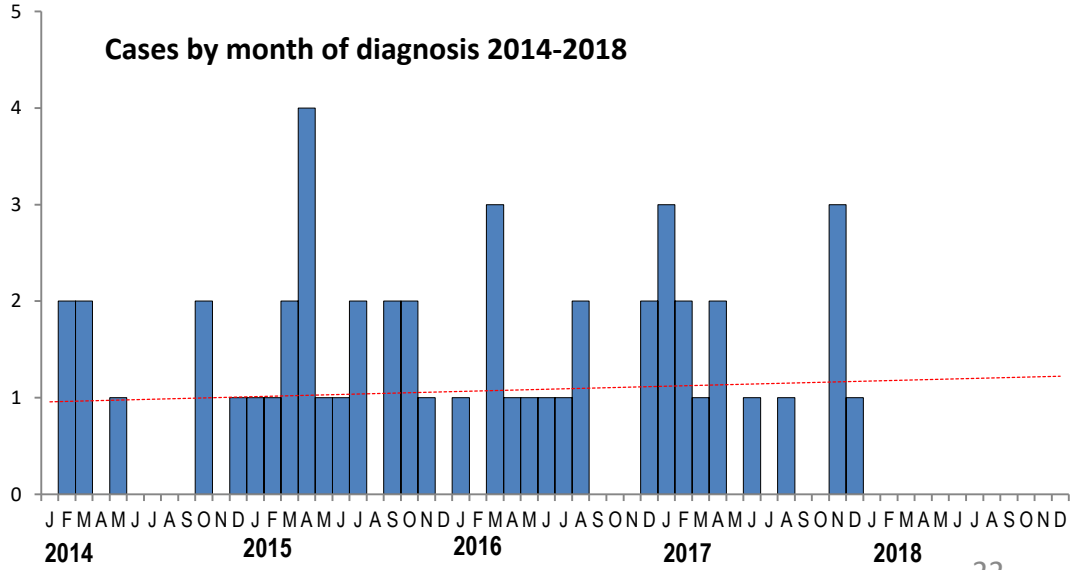
†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Brown*, Charles Mix*, Custer*, McCook*, Minnehaha*, Oglala Lakota*, Pennington*, Ziebach*.







‡ Unstable rates based on <20 observations

SD tuberculosis: http://doh.sd.gov/diseases/infectious/TB/

SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Varicella (Chicken pox)

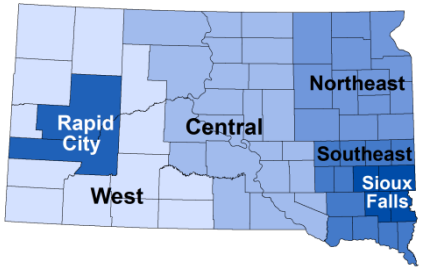
Itchy, blister-like rash that first appears on the chest, back, and face, and then spreads over the entire body. Can cause serious illness in susceptible groups.

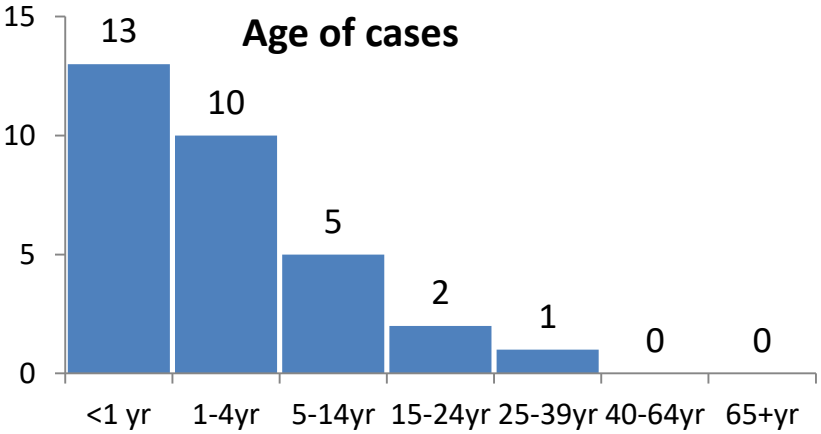
Regions	Cases	Rate†
Sioux Falls MSA	15	5.8†
Rapid City MSA	3	2.2†
Northeast	6	3.5†
Southeast	2	1.8†
Central	4	4.3†
West	1	1.1†
South Dakota	**31**	3.6

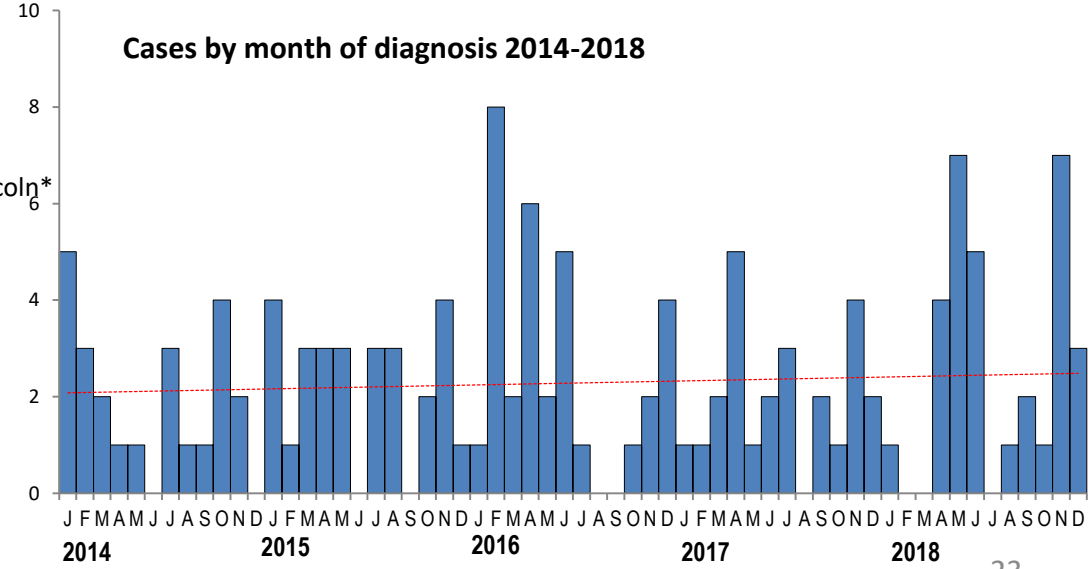
†Rate: cases per 100,000 population.
MSA: Metropolitan Statistical Area.

Counties with cases (* for <5 cases):

Beadle*, Brookings*, Brown*, Davison*, Hughes*, Jackson*, Lincoln*
Marshall*, McCook*, Minnehaha 12, Moody*, Pennington*, .







‡ Unstable rates based on <20 observations

SD varicella: https://doh.sd.gov/diseases/infectious/diseasefacts/chickenpox.aspx

SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

West Nile Virus — South Dakota

Human West Nile Virus (WNV) reported to SD Department of Health (SD-DOH)

Human cases: 169
- Neuroinvasive: 47 (28%)
- West Nile fever: 122 (72%)

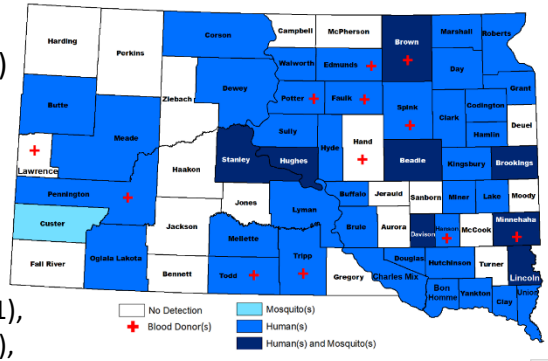
Age: median age 52 years, range 2–89

Sex: female 41%; male 59%

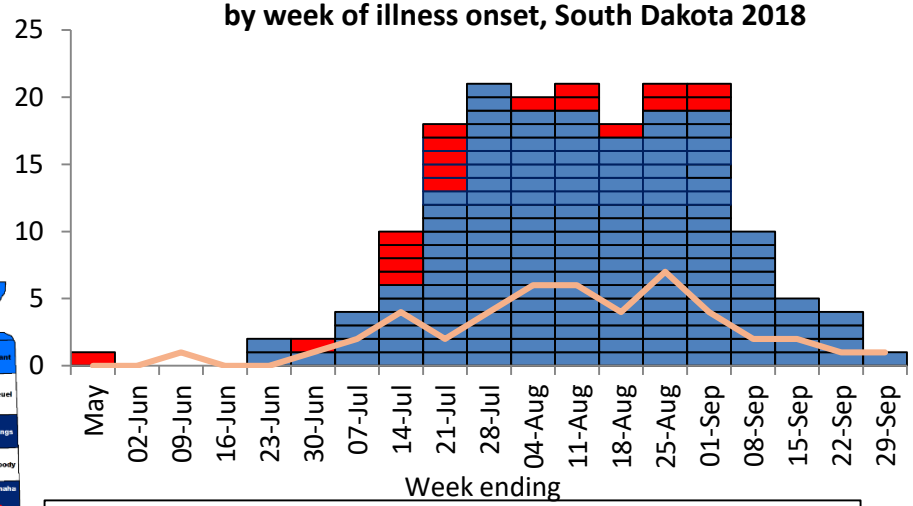
Race: white 85%; American Indian 12%; other 3%

Hospitalized: 60 (35%)

Deaths: 4 (Brown, Dewey, Lincoln, Miner)



West Nile Cases (blue) and blood donors (red) by week of illness onset, South Dakota 2018



SD-DOH: Phone 800-592-1861; westnile.sd.gov

CDC West Nile: cdc.gov/westnile

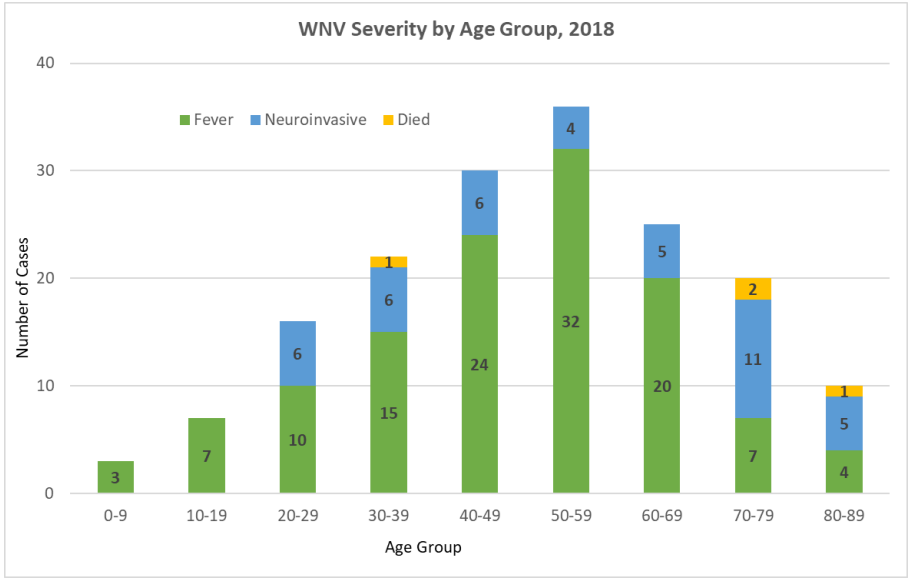
County Counts

Human cases: Beadle (6), Bon Homme (1), Brookings (5), Brown (15), Brule (1), Buffalo (1), Butte (1), Charles Mix (5), Clark (1), Clay (4), Codington (8), Corson (1), Davison (1), Day (3), Dewey (5), Douglas (3), Edmunds (4), Faulk (4), Grant (1), Hamlin (1), Hanson (2), Hughes (10), Hutchinson (3), Hyde (1), Jerauld (1), Kingsbury (2), Lake (2), Lawrence (1), Lincoln (11), Lyman (1), Marshall (3), Meade (2), Mellette (1), Miner (1), Minnehaha (14), Oglala Lakota (1), Pennington (12), Potter (3), Roberts (2), Spink (4), Stanley (1), Sully (2), Todd (1), Tripp (), Union (7), Walworth (2), Yankton (5), Ziebach (1)

Viremic blood donors: Brown (2), Edmunds (2), Faulk (1), Hand (1), Hanson (1), Lawrence (1), Minnehaha (4), Pennington (2), Potter (1), Spink (2), Todd (1), Tripp (1)

WNV positive mosquito detections: Beadle, Brookings, Brown, Custer, Davison, Hughes, Lincoln, Minnehaha, Stanley

WNV positive bird: Hawk (Codington)



SOUTH DAKOTA DEPARTMENT OF HEALTH

Healthcare Associated Infections, South Dakota

- 14 South Dakota hospitals and 19 long-term care facilities participate in the National Healthcare Safety Network (NHSN) report to the SD Dept of Health

- 4 target areas:
  - *Clostridium difficile* infections;
  - Bloodstream MRSA (methicillin-resistant *Staphylococcus aureus*);
  - Central line associated bloodstream infections (CLABSI);
  - Surgical site infection.

- Reports from NHSN:
  - *C. difficile*: 797 cases (193 hospital onset; 137 community onset-health care facility associated)
  - MRSA (bloodstream): 195 (35 hospital onset)
  - CLABSI: 41 cases
  - SSI: 56 cases (49 colon, 7 hysterectomy)

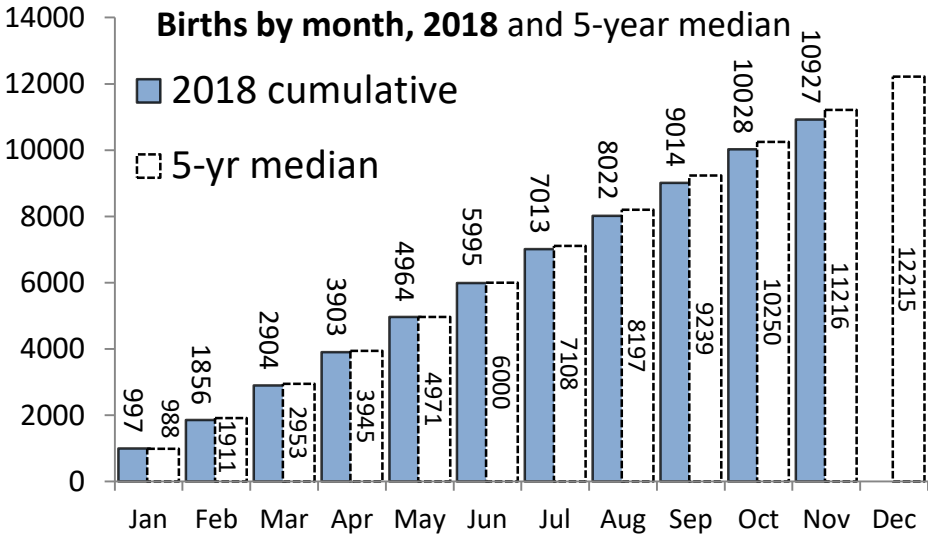
MRSA: methicillin-resistant staphylococcus aureus
CLABSI: central line-associated bloodstream infections
SSI: surgical site infection

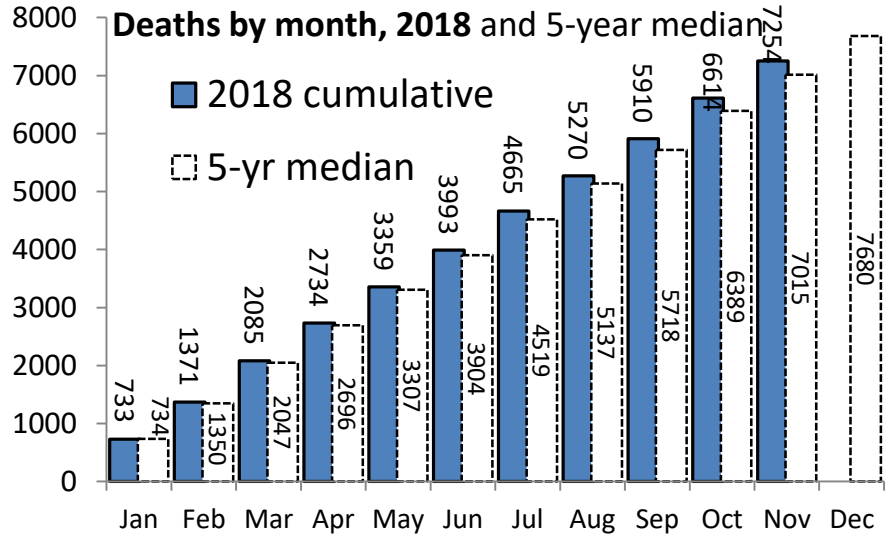
- Long-term Care Facility Reporting Project:
  - 19 long-term care facilities report *C. difficile*: 18 events

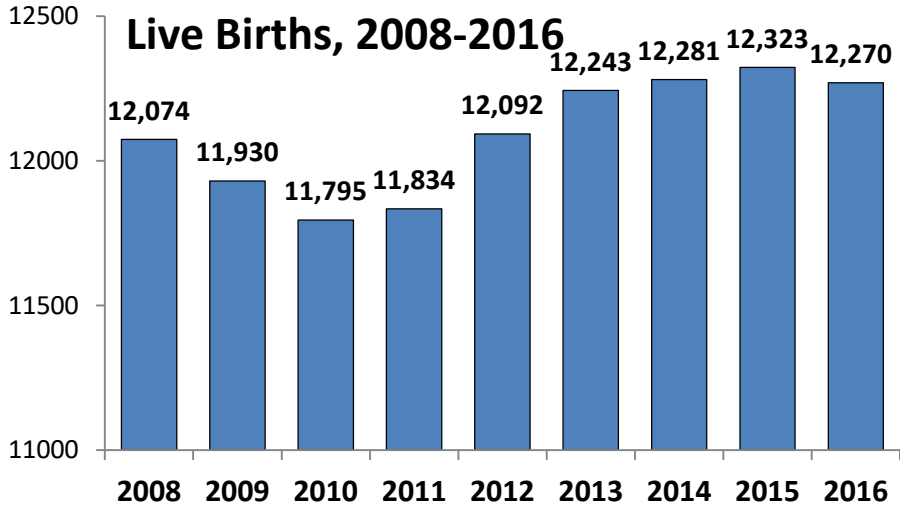
Please see CDC: www.cdc.gov/nhsn
South Dakota healthcare associated infections: http://doh.sd.gov/diseases/hai/

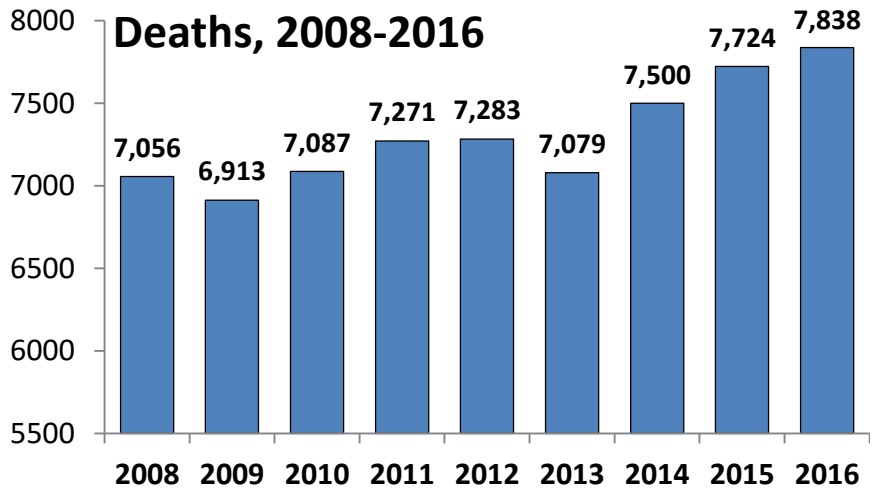
SOUTH DAKOTA: 1 January – 31 December 2018: Provisional Data

Births and Deaths, South Dakota, 2018









Vital Records: http://doh.sd.gov/records/

Infectious Diseases, South Dakota 2008-2017

Reportable diseases	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Median	TOTAL
Babesiosis	0	0	0	0	0	1	1	0	0	0	**0**	**2**
Brucellosis	0	0	0	0	0	1	0	0	0	1	**0**	**2**
Campylobacteriosis	262	300	297	301	276	296	307	346	447	395	**301**	**3,227**
Carbapenem-resist Enter(CRE)	NR	NR	NR	NR	NR	12	3	37	58	64	**37**	**174**
Chlamydia	2,919	3,015	3,187	3,412	3,925	3,947	4,129	3,877	4,337	4,438	**3,901**	**37,186**
Cryptosporidiosis	88	137	108	143	113	175	151	248	158	163	**147**	**1,484**
Cyclosporiasis	1	0	0	0	0	1	0	0	3	4	**0**	**9**
Dengue	0	0	1	0	2	3	0	2	1	0	**1**	**9**
Ehrlichiosis, Anaplasmosis	1	0	0	4	1	1	0	0	1	1	**1**	**9**
Giardiasis	137	113	102	110	144	111	131	129	116	104	**115**	**1,197**
Gonorrhea	382	345	467	602	707	789	880	1,055	1,273	1,290	**748**	**7,790**
Hantavirus pulmonary synd	0	0	0	1	1	0	0	0	0	1	**0**	**3**
Hepatitis A	3	3	1	2	0	4	3	2	2	1	**2**	**21**
Hepatitis B, chronic	48	33	51	51	51	80	58	52	60	52	**52**	**536**
Hepatitis B, acute	0	4	2	2	2	5	3	2	2	2	**2**	**24**
Hepatitis C, acute and chronic	364	384	350	356	392	406	516	570	713	584	**402**	**4,663**
Haemophilus influenzae, invasive	NR	NR	NR	NR	NR	NR	NR	NR	20	21	**21**	**41**
Hemolytic uremic syndrome	3	3	2	0	0	0	1	1	1	3	**1**	**14**
HIV and AIDS	34	21	35	21	29	36	31	24	47	41	**33**	**319**
Legionellosis	3	2	9	2	9	8	9	10	9	15	**9**	**76**
Leprosy (Hanson's disease)	1	0	0	0	0	0	0	0	0	0	**0**	**1**
Listeriosis	1	1	3	1	0	0	0	0	0	2	**1**	**8**
Lyme disease	3	1	1	4	4	4	2	5	11	12	**4**	**47**
Malaria	0	1	3	2	5	7	5	4	4	8	**4**	**39**
Measles	0	0	0	0	0	0	8	2	0	0	**0**	**10**
Meningococcal disease	3	5	0	3	0	4	2	1	1	0	**2**	**19**
Mumps	1	2	2	0	0	0	0	0	2	0	**0**	**7**
Pertussis	67	56	32	37	71	67	109	16	14	9	**47**	**478**
Q fever	1	9	4	1	2	4	5	5	4	5	**4**	**40**
Rabies, animal	24	53	32	40	60	28	21	29	27	33	**31**	**347**
Salmonellosis	154	197	186	162	170	183	164	230	303	226	**185**	**1,975**
Shiga toxin-producing E. coli	53	71	35	41	48	42	41	62	83	91	**51**	**567**
Shigellosis	76	4	7	6	11	190	616	285	28	29	**29**	**1,252**
Spotted fever rickettsiosis	3	0	0	1	1	7	3	2	6	13	**3**	**36**
Staph. Aureus, Methicillin-resistant, invasive (MRSA)	77	94	98	91	89	94	124	159	144	115	**96**	**1,085**
Strep. pneumoniae, invasive	NR	NR	NR	42	97	99	88	110	129	135	**99**	**700**
Syphilis, early (Primary, Secondary, non-primary/secondary)	4	2	4	0	21	49	76	48	42	52	**32**	**298**
Syphilis, congenital	0	0	0	0	0	0	3	0	2	3	**0**	**8**
Toxic shock syndrome	1	0	0	0	0	0	0	3	1	0	**0**	**5**
Tuberculosis	16	18	15	15	19	9	8	17	12	14	**15**	**143**
Tularemia	10	5	11	8	5	7	5	25	14	13	**9**	**103**
Typhoid fever	2	2	1	0	0	3	0	1	2	0	**1**	**11**
Varicella (chicken pox)	55	53	62	67	32	43	23	27	32	24	**38**	**418**
West Nile fever	28	15	16	2	141	92	45	29	116	47	**37**	**531**
West Nile neuroinvasive	11	6	4	0	62	57	12	11	35	26	**12**	**224**
TOTAL	4,836	4,956	5,128	5,530	6,494	6,866	7,583	7,426	8,282	8,037	**6,464**	**65,138**

SOUTH DAKOTA DEPARTMENT OF HEALTH

South Dakota Department of Health

doh.sd.gov/strategicplan

Vision

Healthy People
Healthy Communities
Healthy South Dakota

Mission

To promote, protect and improve the health of every South Dakotan

Guiding Principles

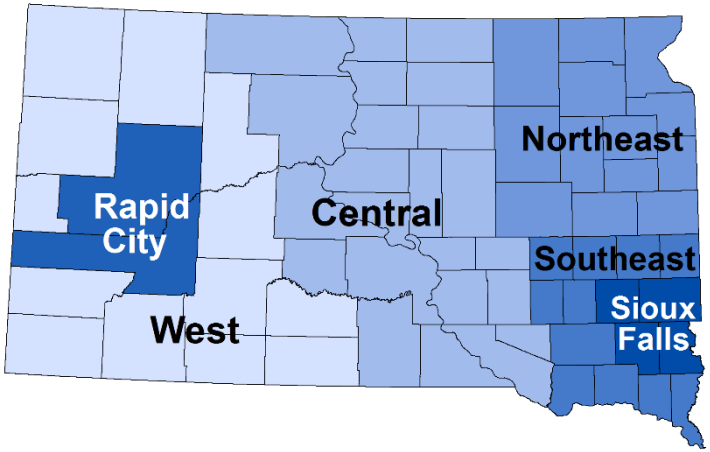
Serve with integrity
Eliminate health disparities
Demonstrate leadership and accountability
Focus on prevention and outcomes
Leverage partnerships
Promote innovation

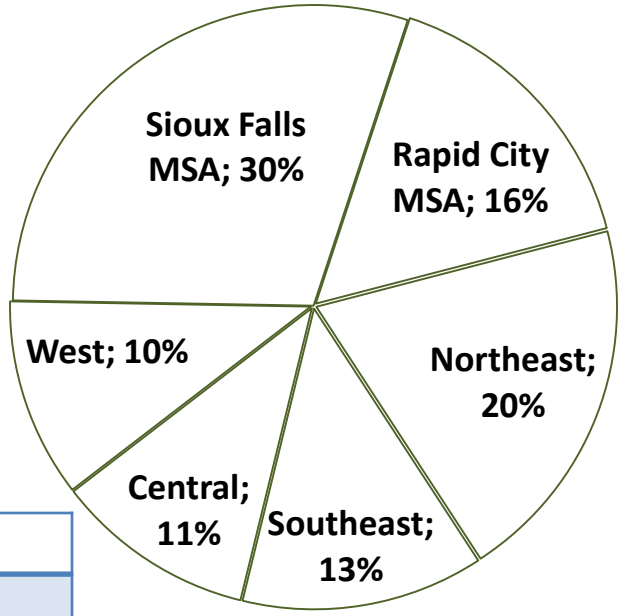
SOUTH DAKOTA DEPARTMENT OF HEALTH

South Dakota Regions

Region	Population	%	Area (sq miles)	Density (people per sq mile)
Sioux Falls MSA*	259,094	29.8%	3,141	82.5
Rapid City MSA*	138,159	15.9%	6,247	22.1
Northeast	172,612	19.8%	12,277	14.1
Southeast	113,216	13.0%	5,863	19.3
Central	93,506	10.8%	24,860	3.8
West	93,079	10.7%	23,508	4.0
South Dakota	869,666	100%	75,896	11.5

*Metropolitan Statistical Area





Age Group	Population	%
<1 year	12,257	1%
1–4 years	49,502	6%
5–14 years	119,675	14%
15–24 years	116,225	13%
25–39 years	168,141	19%
40–64 years	262,242	30%
>65 years	141,624	16%

Region	Population
East River	610,853
West River	258,813

US Census Bureau, 2017 population estimate

SOUTH DAKOTA DEPARTMENT OF HEALTH

Reportable Diseases List

https://doh.sd.gov/diseases/infectious/reporting.aspx

Monthly surveillance reports

http://doh.sd.gov/statistics/surveillance

How to report infectious diseases

1. Secure disease reporting website: http://sd.gov/diseasereport
2. Telephone: **1-800-592-1804** confidential recorder; or
   1-800-592-1861 or **605-773-3737** After hours for Category I diseases or during normal business hours.
3. Fax: **605-773-5509**
4. Mail or courier: Office of Disease Prevention, SD Department of Health, 615 East 4th Street, Pierre, SD 57501; marked *"Confidential Disease Report"*

Department of Health publications

- **Public Health Bulletin:** http://doh.sd.gov/resources/bulletin.aspx
- **Adult Risk Behaviors:** http://doh.sd.gov/statistics/
- **Youth Risk Behaviors** (Dept of Education): http://doh.sd.gov/statistics/YRBS.aspx
- **PRAMS** (Pregnancy risk assessment monitoring system) https://doh.sd.gov/statistics/prams.aspx