NEBRASKA DHHS HEALTHCARE-ASSOCIATED INFECTIONS AND ANTIMICROBIAL RESISTANCE PROGRAM

NEBRASKA STATE GRAM-NEGATIVE ANTIBIOGRAM REPORT

YEAR: 2024

Annual Report 2024

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Executive Summary

An antibiogram is a summary report of antimicrobial susceptibilities of local bacterial isolates submitted to a microbiology laboratory over a defined period (usually one year). It shows the percentage of bacterial pathogens that are susceptible to various antibiotics and is typically presented in a table format.

Antibiograms are a critical tool for clinicians, pharmacists, and infection preventionists. They help guide empiric antibiotic therapy decisions—especially before culture results are available—by providing insight into local resistance patterns.

In addition to informing treatment, antibiograms also play a key role in antibiotic stewardship by promoting the selection of narrow-spectrum agents when appropriate and helping reduce inappropriate antibiotic use, which can drive resistance.

Purpose of the Report

Antibiograms are valuable tools for tracking changes in antimicrobial resistance patterns over time. Public health departments can utilize antibiogram data to monitor susceptibility and resistance profiles across jurisdictions.

Facilities should continue to develop and use their own institutional antibiograms. Statewide antibiograms offer a broader view and can provide insight on trends in a particular jurisdiction.

This information is vital for understanding the epidemiology of antimicrobial resistance and informing public health interventions to combat its spread at the local health jurisdiction and state level.

Regional antibiograms, which aggregate data from multiple facilities in a region, can be used to benchmark local data and identify regional differences in resistance patterns.

What's Included in the Report

- Nebraska Statewide Gram-Negative Antibiogram
- Local Health Department Gram-Negative Antibiograms
- Antibiotic Susceptibility Heat Maps of Significant Gram-Negative Drug-Bug Combinations
- Trends in Gram-Negative Susceptibility in Nebraska, 2020-2024

Disclaimers and Limitations

- The data to create the antibiograms found within this report was retrieved from electronic lab reports submitted to the Nebraska Electronic Disease Surveillance System (NEDSS).
- The report contains only the first isolate submitted per patient in 2024 and includes specimens from all locations (inpatient and outpatient) and all sources (e.g. urine, respiratory, blood, etc.).
- Please note, some laboratories choose to suppress certain antibiotic susceptibility results for some organisms for antibiotic stewardship purposes. Therefore, not all isolates will have results for all antibiotics available. For a particular organism, if the number of isolates tested for a specific drug is much lower than the total isolates tested for other drugs, the results may not be reflecting the true susceptibility pattern and may overcall resistance or susceptibility.
- Data are the result of single microorganism-antimicrobial combinations and, therefore, do not show trends in cross-resistance of microorganisms to other drugs (multi-drug resistance), nor do they reveal synergistic properties of antimicrobials used in combination.
- Additional limitations of antibiograms include potential sampling biases, incomplete data extraction, and variations in data collection and interpretation methodologies across different institutions.

Important! Interpreting Antibiograms

- Antibiogram layout
  - Antibiotics are grouped by class and are listed vertically across the top
  - Bacterial isolates are listed horizontally and arranged alphabetically
  - The total number of isolates that were included in this report for a specific bacteria are listed in the second column
  - The percentage of isolates that are **susceptible** is listed first, followed by the number of isolates tested for the drug-bug combination
    - Note: not all antibiotic susceptibilities are available for all drug-bug combinations
  - Spaces that are blank indicate that the drug-bug combination is not routinely tested
  - "R" indicates that the bug is intrinsically resistant to the antibiotic
- Antibiogram Interpretation
  - Usually, a susceptibility rate over 90% indicates more susceptible options and will be represented by a green highlight.
  - On the other hand, susceptibility rate of less than 70% may indicate highly resistant options and are represented by a red highlight
  - Review Organism Distribution: Note the total number of isolates mentioned in parenthesis for different bacterial species to understand common pathogens.
    - Use caution interpreting susceptibility results:
      - With <30 isolates, which is indicated by a ^
      - Gray boxes indicate not enough data to interpret as less than 70% of susceptibility data is available for the drug-bug combination
  - Interpretation Key:

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available	Blanks = Indicate drug not routinely tested R = Intrinsically resistant ^ = Use caution interpreting results with < 30 isolates reported

Nebraska Statewide Antibiogram

Nebraska Statewide Antibiogram

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Escherichia coli	28,035	59.5% (27964)	58.3% (19662)	83.3% (12080)	93.4% (20344)	86.5% (18489)	83% (10104)	90.4% (8924)	93.9% (26507)	99.2% (12302)	92.7% (18114)	99.5% (8724)	99.9% (14922)	99.9% (13252)	92.9% (27519)	89.5% (14926)	81.3% (25342)	79.6% (27890)	97.3% (25845)	78% (9468)
Acinetobacter baumannii	53	R	96.2% (52)	R		R	R	R		85.4% (41)	96.9% (32)		R	100% (31)	95.1% (41)	100% (42)	95.5% (44)	97.5% (40)	R	95.5% (22)^
Citrobacter freundii	720	R	R	R	90.6% (563)	R	R	R	79.6% (540)	93.5% (431)	98.3% (699)		97.7% (486)	99.2% (476)	94.7% (719)	93.5% (508)	91.2% (692)	86.8% (638)	93.7% (663)	82.7% (398)
Citrobacter koseri	558	R	98.5% (264)	98.8% (342)	99.4% (532)	96.2% (397)	89.9% (287)	96.7% (241)	98.9% (524)	99.3% (297)	99.7% (399)	99.3% (151)	100% (382)	100% (359)	99.8% (556)	100% (353)	99.4% (534)	99.2% (512)	76.8% (495)	98.2% (281)
Enterobacter cloacae complex	1,255	R	R	R	83.3% (966)	R	R	R	69.8% (755)	79% (734)	95.2% (1241)		90.2% (766)	99.6% (715)	98.1% (1240)	97.1% (805)	95.1% (1173)	91.5% (1250)	32% (925)	89.9% (611)
Haemophilus influenzae	76	66.7% (75)		84.8% (46)					100% (62)					100% (17)^			100% (45)	71.9% (57)		82.9% (41)
Klebsiella aerogenes	993	R	R	R	85.6% (834)	R	R	R	79.9% (730)	92.1% (572)	98.3% (978)	100% (25)^	97.2% (662)	99.7% (504)	98.9% (983)	98.5% (573)	96.9% (926)	97.7% (988)	23.3% (847)	93.7% (434)
Klebsiella oxytoca	1,302	R	70.7% (1178)	91% (774)	92.7% (1067)	48.9% (1135)	81.7% (612)	92% (588)	93.1% (1244)	97.9% (798)	93.4% (978)	99.3% (416)	99.8% (875)	100% (844)	96.7% (1272)	95.7% (806)	96.9% (1242)	92.6% (1273)	88.7% (1011)	89.2% (609)
Klebsiella pneumoniae	5,824	R	86.4% (5283)	93.4% (3104)	94.1% (5515)	88.6% (4047)	86.3% (2452)	90.6% (2327)	94.1% (5568)	97.3% (3171)	92.9% (4093)	99.3% (1531)	99.7% (3806)	99.9% (3543)	97% (5759)	95.3% (3222)	91.2% (5632)	90.8% (5773)	41.8% (5202)	84.3% (2439)
Morganella morganii	121	R	R	R	96.3% (109)	R	R		92.9% (42)	91.7% (24)^	96.9% (98)		100% (18)^	100% (21)^	90.2% (112)	82.9% (41)	72.5% (102)	79.1% (115)	R	
Proteus mirabilis	2,814	82.1% (2786)	86.6% (1840)	94.7% (1512)	97.2% (1930)	68.5% (1837)	95.3% (1267)	96.2% (1275)	95.1% (2519)	99.2% (1591)	94.2% (1721)	99.9% (860)	99.9% (1633)	99.9% (1124)	92% (2786)	89.1% (1638)	82.5% (2613)	83.8% (2767)	R	R
Providencia spp.	97	27.9% (43)	58.8% (34)	46.2% (13)^	100% (91)	22.2% (45)	83.3% (6)^		89.7% (39)	87% (23)^	98.9% (90)		92.3% (13)^	100% (10)^	70.2% (94)	41.3% (46)	72.3% (83)	90.8% (87)	7.5% (80)	
Pseudomonas aeruginosa	3,647	R	R	R	94.5% (3344)	R	R	R	R	97.3% (2548)	95.6% (3396)	99.8% (1429)	R	92.6% (2424)		97.3% (2560)	84% (3413)	R		R
Serratia marcescens	495	R	R	R	86.4% (324)	R	R	R	80.1% (346)	97.1% (312)	99.6% (480)	99% (203)	98.6% (291)	98.4% (308)	98.1% (476)	93.2% (322)	93.8% (469)	95.2% (418)	R	29.3% (222)
Stenotrophomonas maltophilia	75	R	R	R		R	R	R	R				R	R	R	R	86.8% (68)	93.7% (63)	R	

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Local Health Department Antibiograms

Central District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	35	R	R	R	96.2% (26)^	R	R	R	82.4% (17)^	100% (9)^	100% (35)		100% (15)^	100% (16)^	88.6% (35)	75% (12)^	88.6% (35)	82.1% (28)^	93.9% (33)	87.5% (8)^
Citrobacter koseri	16	R	100% (5)^	100% (6)^	100% (16)^	100% (8)^	100% (4)^	100% (3)^	100% (16)^	100% (6)^	100% (10)^	100% (3)^	100% (8)^	100% (8)^	93.8% (16)^	100% (9)^	100% (16)^	100% (14)^	93.3% (15)^	100% (4)^
Enterobacter cloacae complex	40	R	R	R	76.9% (26)^	R	R	R	60% (10)^	81.8% (11)^	97.4% (38)	R	78.6% (14)^	100% (11)^	97.4% (39)	92.3% (13)^	89.7% (39)	85% (40)	23.3% (30)	75% (8)^
Escherichia coli	1237	57.5% (1232)	58.3% (908)	83.2% (374)	93.8% (968)	80.9% (726)	82.6% (270)	89.7% (261)	93.1% (1224)	99.3% (445)	90.7% (789)	99.6% (262)	100% (719)	100% (611)	92.7% (1231)	86.6% (492)	76% (1230)	75.6% (1225)	95.8% (1170)	79.8% (277)
Klebsiella aerogenes	30	R	R	R	87% (23)^	R	R	R	76.5% (17)^	100% (11)^	96.7% (30)	100% (1)^	94.1% (17)^	100% (9)^	100% (30)	100% (11)^	96.7% (30)	96.7% (30)	16% (25)^	100% (8)^
Klebsiella oxytoca	60	R	83.6% (55)	95.8% (24)^	100% (42)	61.4% (44)	84.6% (13)^	100% (13)^	91.5% (59)	91.7% (24)^	90% (40)	100% (14)^	100% (33)	100% (30)	95% (60)	88.5% (26)^	96.6% (59)	93.3% (60)	84.8% (46)	85.7% (14)^
Klebsiella pneumoniae	234	R	86.9% (214)	93.4% (61)	96.9% (227)	88.4% (86)	77.5% (40)	94.7% (38)	93% (230)	97.1% (69)	89.2% (130)	100% (39)	100% (119)	100% (102)	92.3% (234)	85.4% (82)	84.2% (234)	90.6% (233)	37.4% (214)	81.4% (43)
Proteus mirabilis	125	63.6% (121)	76.7% (73)	100% (33)	97.6% (82)	76.9% (52)	100% (29)^	100% (28)^	89.2% (120)	97.4% (39)	83.1% (65)	100% (29)^	98.4% (61)	100% (50)	86.2% (123)	72% (50)	72.4% (123)	70.7% (123)	R	R
Pseudomonas aeruginosa	185	R	R	R	97.7% (172)	R	R	R	R	100% (99)	97.6% (169)	100% (72)	R	92.1% (114)		97.8% (137)	88.8% (179)	R		R
Serratia marcescens	18	R	R	R	85.7% (7)^	R	R	R	100% (9)^	100% (7)^	93.8% (16)^	100% (7)^	100% (7)^	77.8% (9)^	100% (15)^	100% (6)^	100% (16)^	92.9% (14)^	R	40% (5)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

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Douglas County Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Acinetobacter baumannii	17	R	94.1% (17)^	R		R	R	R		100% (10)^	100% (11)^		R	100% (9)^	91.7% (12)^	100% (15)^	83.3% (12)^	100% (17)^	R	88.9% (9)^
Citrobacter freundii	166	R	R	R	86.6% (164)	R	R	R	77.4% (124)	91.9% (123)	98.2% (165)		96.8% (126)	99.2% (124)	93.4% (166)	92.1% (126)	90.9% (165)	86.1% (166)	91.4% (152)	84.6% (123)
Citrobacter koseri	180	R	97.2% (109)	100% (119)	100% (175)	96.8% (125)	91% (122)	96.3% (108)	100% (179)	100% (109)	99.2% (122)	98.1% (54)	100% (118)	100% (118)	100% (178)	100% (119)	100% (174)	99.4% (180)	69.7% (155)	96.6% (116)
Escherichia coli	7884	56.4% (7871)	50.1% (4991)	82.8% (3380)	91.6% (5065)	88.4% (3637)	83.1% (3585)	89.8% (3105)	92.5% (7841)	99.8% (3130)	86.8% (3945)	99.4% (3103)	99.8% (3439)	99.9% (3120)	92.2% (7584)	85.4% (3754)	81.2% (7363)	77.9% (7849)	97% (7024)	77% (3110)
Haemophilus influenzae	17	70.6% (17)^		100% (4)^					100% (12)^	100% (2)^				100% (9)^			100% (1)^	33.3% (9)^		100% (1)^
Klebsiella aerogenes	331	R	R	R	85.2% (325)	R	39.5% (215)	7.6% (118)	79.4% (223)	91.9% (209)	97.5% (326)	100% (9)^	95.6% (228)	100% (209)	98.5% (328)	97.6% (211)	98.4% (323)	97.3% (331)	25.2% (270)	94.2% (205)
Klebsiella oxytoca	362	R	67.6% (339)	90.1% (242)	93.6% (343)	50% (326)	83.3% (240)	92.8% (235)	93.7% (351)	98.3% (239)	92.9% (255)	99.2% (131)	99.6% (246)	100% (239)	97.4% (350)	96.3% (240)	96.5% (347)	91.8% (354)	89.2% (277)	88.9% (234)
Enterobacter cloacae complex	347	R	R	R	81.6% (316)	R	R	R	69.4% (219)	75.1% (217)	93.9% (346)	R	89.2% (231)	100% (227)	97.4% (340)	95.5% (247)	95% (338)	91.6% (347)	27.3% (260)	88.6% (236)
Klebsiella pneumoniae	1802	R	85.8% (1692)	92.6% (1081)	93.1% (1728)	87.7% (1106)	86.8% (1092)	90.9% (1062)	92.9% (1777)	96.7% (1071)	89.2% (1156)	99.2% (529)	99.6% (1120)	99.9% (1071)	96.3% (1769)	93.8% (1114)	90.3% (1758)	89.6% (1788)	39.9% (1611)	85.7% (1063)
Morganella morganii	26	R	100% (1)^		96% (25)^				100% (3)^		100% (23)^		100% (2)^	100% (1)^	80.8% (26)^	25% (4)^	69.2% (26)^	69.2% (26)^	R	R
Proteus mirabilis	994	85.5% (989)	90.5% (640)	97.3% (585)	98.6% (660)	53.6% (586)	97.1% (581)	97.3% (584)	97% (974)	100% (586)	95.9% (607)	99.7% (327)	100% (604)	100% (332)	94.4% (983)	91.7% (605)	85.5% (983)	86% (984)	R	R
Providencia spp.	26		100% (1)^		100% (26)^				50% (2)^		96% (25)^		100% (2)^		69.2% (26)^		69.2% (26)^	80.8% (26)^		
Pseudomonas aeruginosa	947	R	R	R	94.4% (913)	R	R	R	R	97.9% (607)	95.4% (909)	99.7% (364)	R	92.1% (635)		97.5% (685)	82.6% (868)	R		R
Serratia marcescens	152	R	R	R	85.1% (101)	R	R	R	77.2% (101)	97% (101)	100% (148)	98.6% (74)	98% (98)	100% (97)	98.7% (150)	94.1% (101)	93.4% (151)	96.7% (150)	R	30.6% (85)

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

East Central District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Enterobacter cloacae complex	31	R	R	R	91.7% (24)^	R	R	R	73.9% (23)^	78.3% (23)^	92.9% (28)^	R	93.1% (29)^	100% (28)^	96.8% (31)	96% (25)^	96.8% (31)	87.1% (31)	55.6% (18)^	100% (22)^
Escherichia coli	546	60.4% (538)	60.1% (454)	80% (300)	90.8% (458)	86.8% (409)	85.4% (376)	87% (262)	92.9% (534)	99.5% (391)	89.4% (320)	99.2% (262)	100% (419)	100% (379)	92.6% (542)	87.6% (299)	84.1% (542)	78% (542)	96.1% (511)	72% (386)
Klebsiella aerogenes	19	R	R	R	89.5% (19)^	R	R	R	92.9% (14)^	100% (14)^	100% (19)^	100% (5)^	100% (15)^	100% (14)^	100% (19)^	100% (14)^	100% (19)^	100% (19)^	58.8% (17)^	92.3% (13)^
Klebsiella oxytoca	34	R	80% (25)^	80% (25)^	91.2% (34)	56.3% (32)	83.3% (24)^	100% (9)^	91.2% (34)	100% (28)^	100% (18)^	100% (9)^	100% (25)^	100% (27)^	100% (34)	100% (23)^	97.1% (34)	97.1% (34)	100% (31)	80% (15)^
Klebsiella pneumoniae	109	R	86% (86)	97.1% (68)	96.3% (107)	93.1% (87)	88% (75)	83.9% (31)	96.3% (108)	98.8% (83)	92.2% (51)	100% (29)^	100% (85)	100% (79)	95.4% (109)	96.8% (63)	91.7% (108)	89% (109)	38.2% (89)	85.5% (62)
Proteus mirabilis	57	88.9% (54)	89.6% (48)	97.1% (35)	98% (49)	84.8% (46)	95.3% (43)	96.4% (28)^	96.2% (52)	100% (45)	100% (34)	100% (25)^	100% (47)	100% (40)	88.9% (54)	83.3% (36)	80% (55)	85.2% (54)	R	R
Pseudomonas aeruginosa	72	R	R	R	96.5% (57)	R	R	R	R	97.7% (44)	96.7% (60)	100% (28)^	R	93.8% (48)		95.3% (43)	83.6% (67)	R		R
Serratia marcescens	15	R	R	R	83.3% (12)^	R	R	R	69.2% (13)^	100% (12)^	100% (13)^	100% (7)^	92.3% (13)^	100% (12)^	100% (15)^	100% (11)^	80% (15)^	92.3% (13)^	R	18.2% (11)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

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Elkhorn Logan Valley Public Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	22	R	R	R	86.7% (15)^	R	R	R	78.9% (19)^	75% (12)^	95.5% (22)^		100% (19)^	100% (19)^	90.9% (22)^	88.9% (18)^	90.9% (22)^	90.9% (22)^	100% (16)^	100% (10)^
Enterobacter cloacae complex	59	R	R	R	85.7% (49)	R	R	R	65.2% (46)	76.1% (46)	94.9% (59)	R	92% (50)	97.9% (48)	98.3% (59)	97.8% (46)	94.9% (59)	88.1% (59)	44.4% (36)	100% (16)^
Escherichia coli	193	63.2% (190)	58.7% (121)	89.1% (64)	93% (129)	83.2% (107)	78.9% (57)	90.6% (32)	95.2% (189)	98.7% (77)	91.4% (93)	96.9% (32)	100% (102)	100% (70)	94.2% (189)	89.7% (68)	82.1% (184)	80.7% (192)	97.7% (176)	67.8% (59)
Klebsiella aerogenes (organism)	27	R	R	R	76% (25)^	R	R	R	70.8% (24)^	78.3% (23)^	100% (26)^		91.7% (24)^	95.6% (23)^	100% (26)^	100% (23)^	96.1% (26)^	100% (26)^	33.3% (24)^	100% (6)^
Klebsiella oxytoca	55	R	66.7% (51)	90.9% (44)	95.9% (49)	37.3% (51)	75% (8)^	85.7% (7)^	96.1% (51)	97.8% (46)	95.7% (46)	100% (6)^	100% (47)	100% (47)	98% (50)	97.6% (42)	96.3% (54)	96% (50)	92.9% (42)	75% (12)^
Klebsiella pneumoniae	163	R	85% (153)	94.7% (131)	96.8% (154)	90.3% (145)	94.4% (18)^	77.8% (18)^	93.6% (156)	96.3% (134)	95% (139)	100% (14)^	100% (142)	100% (140)	96.2% (157)	96.1% (128)	93.8% (160)	87.9% (157)	58.8% (131)	68.2% (22)^
Proteus mirabilis	26	92.3% (26)^	100% (17)^	100% (16)^	100% (19)^	62.5% (16)^	100% (11)^	100% (12)^	90.9% (22)^	100% (17)^	86.7% (15)^	100% (5)^	100% (19)^	100% (6)^	84% (25)^	83.3% (12)^	80% (25)^	84% (25)^	R	R
Pseudomonas aeruginosa	116	R	R	R	88.2% (102)	R	R	R	R	93.8% (96)	88.7% (106)	100% (17)^	R	92% (100)		98.9% (87)	87.5% (112)	R		R

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Four Corners Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	20	R	R	R	100% (8)^	R	R	R	89.5% (19)^	100% (5)^	95% (20)^		100% (18)^	100% (13)^	85% (20)^	90% (10)^	90% (20)^	78.6% (14)^	94.1% (17)^	62.5% (8)^
Citrobacter koseri	12	R	100% (2)^	100% (8)^	100% (12)^	100% (10)^	50% (2)^	80% (5)^	100% (12)^	100% (3)^	100% (11)^	100% (2)^	100% (11)^	100% (7)^	100% (12)^	100% (6)^	100% (12)^	100% (4)^	63.6% (11)^	100% (7)^
Enterobacter cloacae complex	30	R	R	R	100% (9)^	R	R	R	78.3% (23)^	100% (7)^	100% (30)	R	96.2% (26)^	100% (12)^	100% (30)	100% (14)^	89.7% (29)^	93.3% (30)	45.5% (22)^	93.8% (16)^
Escherichia coli	592	62% (589)	69% (451)	86.2% (275)	93.7% (397)	83.6% (548)	72.3% (137)	88.7% (265)	94.7% (588)	100% (165)	95.3% (559)	99.3% (135)	100% (553)	100% (348)	94.2% (588)	95% (298)	77.7% (591)	81.5% (588)	97.7% (566)	79% (243)
Klebsiella aerogenes	17	R	R	R	100% (8)^	R	R	R	82.4% (17)^	100% (8)^	100% (17)^		100% (16)^	100% (7)^	100% (17)^	100% (9)^	88.2% (17)^	100% (17)^	30.8% (13)^	81.8% (11)^
Klebsiella oxytoca	34	R	60% (30)	88.5% (26)^	95.8% (24)^	38.7% (31)	68.4% (19)^	85% (20)^	91.2% (34)	95.7% (23)^	90.9% (33)	100% (19)^	100% (32)	100% (30)	91.2% (34)	91.3% (23)^	91.2% (34)	85.3% (34)	79.2% (24)^	83.3% (24)^
Klebsiella pneumoniae	141	R	83.2% (95)	95.6% (91)	94.8% (115)	92.8% (125)	81.1% (37)	94.7% (57)	95.7% (141)	100% (50)	97.1% (136)	100% (37)	100% (134)	100% (93)	98.6% (141)	98.6% (69)	92.2% (141)	90.6% (138)	46.3% (121)	77.2% (79)
Proteus mirabilis	44	90.9% (44)	88.6% (35)	96.8% (31)	97.5% (40)	89.7% (39)	100% (24)^	100% (30)	100% (42)	100% (25)^	100% (41)	100% (23)^	100% (41)	100% (29)^	93.2% (44)	90.3% (31)	79.1% (43)	85.7% (42)	R	R
Pseudomonas aeruginosa	70	R	R	R	93.9% (66)	R	R	R	R	100% (39)	93.8% (65)	100% (36)	R	92% (50)		97.3% (37)	83.6% (67)	R		R
Serratia marcescens	14	R	R	R	91.7% (12)^	R	R	R	84.6% (13)^	90% (10)^	100% (14)^	100% (10)^	100% (13)^	100% (12)^	100% (14)^	100% (11)^	85.7% (14)^	92.3% (13)^	R	30% (10)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Lincoln-Lancaster County Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	101	R	R	R	83.1% (59)	R	R	79.7% (64)	91.9% (37)	98.9% (88)		96.5% (57)	100% (53)	98% (100)	95.3% (43)	89% (100)	88% (100)	90.8% (98)	83.9% (31)
Citrobacter koseri	96	R	95% (20)^	95.7% (46)	97.9% (96)	92.7% (82)	92% (25)^	97.9% (96)	100% (40)	100% (84)	100% (19)^	100% (84)	100% (64)	100% (96)	100% (45)	97.9% (96)	97.9% (94)	83.9% (87)	100% (25)^
Enterobacter cloacae complex	163	R	R	R	88.5% (96)	R	R	64.4% (59)	77.2% (57)	96.3% (162)	R	95.8% (95)	100% (80)	99.4% (161)	98.6% (71)	94.3% (159)	90.7% (162)	32.8% (137)	93.6% (47)
Klebsiella aerogenes	192	R	R	R	82.5% (114)	R	R	81.2% (159)	94.2% (69)	98.4% (190)	100% (3)^	97.3% (148)	100% (46)	100% (191)	100% (69)	95.8% (192)	97.4% (192)	14.4% (173)	94.7% (38)
Morganella morganii	14	R	66.7% (3)^	100% (1)^	92.3% (13)^	30% (10)^		75% (4)^		91.7% (12)^		100% (4)^	100% (4)^	100% (12)^		85.7% (14)^	92.3% (13)^	R	R
Stenotrophomonas maltophilia	25	R	R	R		R	R	R				R	R	R	R	95.7% (23)^	100% (20)^	R	
Escherichia coli	5047	61.2% (5025)	65.2% (4231)	84.3% (1778)	95.3% (4313)	78.7% (3871)	79.6% (909)	95.7% (4993)	98.6% (1772)	95.7% (3957)	99.2% (924)	99.9% (3941)	99.9% (3000)	93.8% (5027)	90.2% (1866)	81.8% (5012)	81.3% (5003)	97.8% (4802)	78.7% (927)
Klebsiella oxytoca	172	R	73.1% (160)	91.5% (71)	90.1% (111)	38.1% (160)	76.7% (43)	92.1% (165)	97.3% (74)	92.2% (141)	100% (44)	100% (134)	100% (104)	95.3% (170)	92.1% (76)	95.8% (167)	92.1% (165)	88.7% (142)	90.9% (44)
Klebsiella pneumoniae	997	R	87.8% (948)	94.2% (313)	92.5% (976)	83.2% (754)	85.2% (149)	94.5% (985)	96.6% (320)	94.3% (784)	99.4% (166)	99.6% (780)	100% (601)	97.2% (992)	94.6% (333)	90.2% (994)	91.3% (989)	38.7% (915)	83.7% (153)
Proteus mirabilis	315	76.6% (308)	80.5% (190)	93.3% (120)	97.5% (202)	68.6% (191)	100% (87)	94.7% (300)	95.2% (126)	92.7% (191)	100% (92)	100% (192)	100% (147)	90.5% (315)	84.7% (131)	85.4% (309)	86.1% (303)	R	R
Pseudomonas aeruginosa	578	R	R	R	95.3% (529)	R	R	R	97.9% (433)	97% (537)	99.7% (378)	R	92.4% (459)		96.2% (448)	82.7% (560)	R		R
Serratia marcescens	55	R	R	R	91.9% (37)	R	R	78.9% (38)	96.6% (29)^	98% (51)	95% (20)^	100% (37)	93.8% (32)	95.9% (49)	93.5% (31)	88.7% (53)	85.7% (49)	R	47.1% (17)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Loup Basin Public Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates Reported)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Enterobacter cloacae complex	15	R	R	R	72.7% (11)^	R	R	R	44.4% (9)^	55.6% (9)^	100% (15)^	R	80% (10)^	100% (8)^	100% (15)^	100% (10)^	100% (15)^	100% (15)^	100% (15)^	50% (12)^	90.9% (11)^
Escherichia coli	266	66.2% (263)	67.7% (192)	88.8% (143)	94.9% (216)	92.4% (185)	89.6% (144)	93.7% (95)	95.4% (262)	100% (137)	94.9% (178)	98.9% (95)	99.4% (167)	100% (164)	92.4% (264)	89.9% (158)	81.7% (262)	80.4% (260)	82.3% (266)	98% (245)	81.1% (143)
Klebsiella oxytoca	13	R	54.5% (11)^	100% (7)^	90% (10)^	60% (10)^	100% (6)^	100% (3)^	92.3% (13)^	100% (7)^	100% (9)^	100% (3)^	100% (6)^	100% (8)^	100% (11)^	100% (9)^	90.9% (11)^	90.9% (11)^	92.3% (13)^	100% (7)^	100% (5)^
Klebsiella pneumoniae	54	R	89.6% (48)	96.2% (26)^	96.2% (52)	93.5% (31)	86.4% (22)^	100% (18)^	100% (53)	100% (23)^	100% (33)	100% (18)^	100% (31)	100% (33)	100% (54)	100% (28)^	98.1% (53)	94.4% (54)	98.1% (54)	55.6% (45)	96% (25)^
Proteus mirabilis	20	90% (20)^	100% (13)^	100% (9)^	100% (14)^	80% (15)^	90% (10)^	100% (8)^	100% (20)^	100% (11)^	100% (11)^	100% (8)^	100% (12)^	100% (13)^	95% (20)^	90% (10)^	75% (20)^	78.9% (19)^	85% (20)^	R	R
Pseudomonas aeruginosa	60	R	R	R	94.6% (56)	R	R	R	R	97.6% (41)	96.4% (55)	100% (22)^	R	95.5% (44)		96.4% (28)^	91.4% (58)	86% (57)	R		R

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

North Central District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	23	R	R	R	94.1% (17)^	R	R	R	88.2% (17)^	93.8% (16)^	95.7% (23)^		94.1% (17)^	95.5% (22)^	100% (23)^	95% (20)^	90.9% (22)^	94.4% (18)^	95% (20)^	91.7% (12)^
Citrobacter koseri	10	R	100% (6)^	87.5% (8)^	100% (10)^	87.5% (8)^	100% (5)^	85.7% (7)^	88.9% (9)^	85.7% (7)^	100% (9)^	100% (5)^	100% (8)^	100% (9)^	100% (10)^	100% (8)^	100% (10)^	100% (9)^	90% (10)^	100% (7)^
Enterobacter cloacae complex	34	R	R	R	87% (23)^	R	R	R	82.4% (17)^	82.4% (17)^	90.6% (32)	R	88.2% (17)^	100% (16)^	100% (34)	100% (23)^	96.2% (26)^	94.1% (34)	34.8% (23)^	81.8% (11)^
Escherichia coli	598	64.2% (598)	70.4% (561)	85.4% (212)	96.3% (562)	85.3% (543)	91% (200)	83.6% (220)	95.9% (587)	98.7% (473)	95.8% (474)	100% (198)	100% (232)	100% (468)	91.9% (594)	91.8% (352)	85.6% (514)	84% (593)	98.6% (563)	79.6% (221)
Klebsiella aerogenes	26	R	R	R	83.3% (12)^	R	R	R	90% (10)^	100% (10)^	100% (25)^		100% (10)^	100% (10)^	100% (25)^	100% (15)^	100% (22)^	100% (26)^	31.6% (19)^	71.4% (7)^
Klebsiella oxytoca	39	R	66.7% (39)	89.5% (19)^	88.5% (26)^	32.4% (34)	91.7% (12)^	76.9% (13)^	92.3% (39)	97% (33)	94.3% (35)	91.7% (12)^	100% (20)^	100% (33)	94.9% (39)	100% (27)^	96.7% (30)	89.7% (39)	85.7% (28)^	100% (12)^
Klebsiella pneumoniae	156	R	90.7% (150)	93.4% (61)	98.7% (151)	92.1% (139)	100% (36)	97.6% (41)	96.7% (151)	97.5% (121)	96.9% (129)	100% (34)	100% (65)	100% (124)	97.4% (153)	94.5% (91)	94.8% (134)	92.1% (152)	54.3% (140)	94.9% (39)
Proteus mirabilis	69	92.8% (69)	95.4% (65)	87.5% (16)^	98.5% (65)	57.4% (61)	93.8% (16)^	87.5% (16)^	98.5% (65)	100% (52)	98.1% (52)	100% (14)^	100% (18)^	100% (49)	98.5% (68)	97.2% (36)	86.4% (59)	94% (67)	R	R
Pseudomonas aeruginosa	99	R	R	R	95.3% (86)	R	R	R	R	98.7% (77)	95.9% (73)	100% (25)^	R	95.5% (66)		93.2% (59)	77.6% (76)	R		R

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Northeast Nebraska Public Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Minocycline	Tetracycline
Citrobacter freundii	11	R	R	R	87.5% (8)^	R	R	R	87.5% (8)^	83.3% (6)^	100% (11)^		100% (8)^	100% (9)^	90.9% (11)^	90.9% (11)^	100% (9)^	90% (10)^	100% (10)^		100% (2)^
Enterobacter cloacae complex	13	R	R	R	62.5% (8)^	R	R	R	33.3% (6)^	66.7% (6)^	84.6% (13)^	R	85.7% (7)^	100% (6)^	100% (13)^	100% (9)^	83.3% (12)^	84.6% (13)^	55.6% (9)^	100% (3)^	100% (3)^
Escherichia coli	102	54.9% (102)	64% (100)	63.6% (11)^	92% (100)	82.3% (96)	54.5% (11)^	55.6% (9)^	94.1% (101)	96.8% (63)	94% (67)	100% (9)^	100% (14)^	98.5% (65)	92.1% (101)	90.6% (53)	75.4% (69)	79.4% (102)	100% (93)	100% (9)^	80% (10)^
Klebsiella oxytoca	11	R	80% (10)^	100% (7)^	100% (7)^	20% (10)^	100% (1)^	100% (1)^	100% (10)^	100% (10)^	100% (10)^	100% (1)^	100% (7)^	100% (10)^	100% (11)^	100% (7)^	100% (10)^	90% (10)^	100% (5)^	100% (1)^	100% (1)^
Klebsiella pneumoniae	41	R	87.5% (40)	96.3% (27)^	97.5% (40)	91.9% (37)	60% (5)^	50% (4)^	95.1% (41)	97.2% (36)	94.6% (37)	100% (4)^	100% (26)^	100% (39)	90% (40)	90.6% (32)	97.2% (36)	87.8% (41)	60% (35)	75% (4)^	50% (4)^
Pseudomonas aeruginosa	39	R	R	R	97.2% (36)	R	R	R	R	97.1% (35)	100% (30)	100% (4)^	R	87.1% (31)		95.2% (21)^	82.4% (34)	R		R	R

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Panhandle Public Health District

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	21	R	R	100% (2)^	95.2% (21)^	R	R	90.5% (21)^	95.2% (21)^	100% (21)^	100% (1)^	100% (3)^	100% (1)^	95.2% (21)^	95.2% (21)^	100% (5)^	92.9% (14)^	89.5% (19)^	100% (1)^
Citrobacter koseri	14	R	100% (1)^	R	100% (2)^	100% (12)^	75% (4)^	100% (3)^	100% (1)^	100% (2)^	R	100% (1)^	100% (3)^	100% (14)^	100% (14)^	100% (5)^	100% (3)^	92.3% (13)^	100% (3)^
Enterobacter cloacae complex	55	R	R		74.4% (43)	R	R	71.2% (52)	76.9% (52)	100% (54)		100% (2)^	100% (7)^	100% (55)	100% (55)	95.7% (23)^	98.2% (55)	22.5% (40)	75% (8)^
Escherichia coli	1918	61.9% (1916)	24.3% (604)	70.7% (600)	89.1% (601)	93.8% (1834)	78.1% (64)	92.4% (1014)	96% (960)	99.3% (970)	100% (22)^	100% (45)	100% (54)	93.2% (1918)	93.4% (1910)	53.8% (295)	79.9% (1914)	96.8% (1814)	56.5% (46)
Klebsiella aerogenes	34	R	R	R	87.5% (24)^	R	R	88.2% (34)	88.2% (34)	100% (34)	100% (2)^		100% (3)^	100% (34)	100% (34)	83.3% (6)^	100% (34)	20% (30)	100% (3)^
Klebsiella oxytoca	24	R	80% (5)^	100% (11)^	100% (5)^	87% (23)^	100% (3)^	95.8% (24)^	95.5% (22)^	100% (23)^	100% (3)^	100% (3)^	100% (3)^	100% (24)^	100% (24)^	100% (6)^	87.5% (24)^	93.8% (16)^	100% (3)^
Klebsiella pneumoniae	103	R	75% (8)^	R	87.5% (8)^	93% (100)	85.7% (14)^	95% (101)	96.6% (89)	98.9% (90)	100% (4)^	100% (4)^	83.3% (6)^	99% (102)	98% (100)	91.3% (23)^	95% (101)	42.4% (92)	62.5% (8)^
Proteus mirabilis	180	85.5% (180)	59.6% (52)	82% (50)	92.4% (53)	96.1% (153)	66.7% (6)^	85.7% (56)	98.1% (54)	94.4% (54)		100% (6)^	83.3% (6)^	91.1% (180)	91% (179)	38.7% (31)	86.6% (180)	R	R
Pseudomonas aeruginosa	207	R	R	R	93.9% (164)	R	R	R	94.5% (203)	95.2% (206)		R	87% (23)^		98.1% (207)	83.3% (203)	R		R
Serratia marcescens	13	R	R		100% (10)^	R	R	92.3% (13)^	100% (13)^	100% (13)^		100% (1)^	100% (1)^	100% (13)^	84.6% (13)^	100% (2)^	100% (8)^	R	

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Public Health Solutions District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	32	R	R	R	100% (18)^	R	R	R	76.2% (21)^	96.3% (27)^	100% (30)		100% (31)	100% (21)^	93.8% (32)	100% (18)^	87.5% (32)	86.4% (22)^	96.8% (31)	83.3% (18)^
Citrobacter koseri	22	R	100% (10)^	100% (14)^	100% (22)^	95.2% (21)^	100% (10)^	100% (10)^	100% (15)^	100% (18)^	100% (21)^	100% (10)^	100% (20)^	100% (13)^	100% (22)^	100% (12)^	100% (22)^	100% (13)^	57.9% (19)^	100% (10)^
Enterobacter cloacae complex	57	R	R	R	79.3% (29)^	R	R	R	75% (32)	87.2% (39)	93% (57)	R	95.7% (46)	96% (25)^	96.5% (57)	95.8% (24)^	98.1% (52)	92.9% (56)	28.9% (45)	92% (25)^
Escherichia coli	1159	61.3% (1159)	68.8% (938)	84.2% (646)	93.9% (1137)	90% (1124)	90.8% (415)	83.1% (409)	95.3% (758)	99% (839)	96.9% (1129)	99.5% (411)	99.9% (1128)	100% (692)	93.3% (1159)	94.4% (447)	86.9% (1107)	81.7% (1158)	97.8% (1118)	82.8% (418)
Klebsiella aerogenes	32	R	R	R	94.7% (19)^	R	R	R	82.1% (28)^	100% (16)^	93.5% (31)	100% (2)^	100% (29)^	100% (17)^	93.8% (32)	88.2% (17)^	93.8% (32)	93.5% (31)	26.7% (30)	88.2% (17)^
Klebsiella oxytoca	49	R	87.2% (39)	100% (33)	93.3% (30)	59.6% (47)	100% (22)^	95.5% (22)^	97.5% (40)	100% (35)	97.9% (47)	100% (22)^	100% (46)	100% (32)	100% (48)	100% (26)^	100% (48)	97.9% (48)	84.6% (39)	95.7% (23)^
Klebsiella pneumoniae	238	R	85.9% (199)	96.3% (135)	96.2% (235)	94.3% (227)	96.6% (88)	83% (88)	97.1% (172)	99.4% (163)	97.8% (229)	100% (88)	100% (227)	100% (149)	99.2% (237)	100% (100)	95.6% (226)	94.1% (237)	37.7% (212)	85.4% (89)
Proteus mirabilis	108	84.3% (108)	92.6% (94)	96.4% (55)	98.1% (103)	95% (100)	97.9% (47)	95.7% (47)	93.8% (65)	100% (90)	96.1% (102)	100% (47)	100% (102)	100% (58)	92.6% (108)	91.8% (49)	89.2% (102)	84.1% (107)	R	R
Pseudomonas aeruginosa	149	R	R	R	92.9% (140)	R	R	R	R	97.6% (126)	95.1% (144)	100% (96)	R	95% (119)		98.7% (77)	84.1% (145)	R		R
Serratia marcescens	19	R	R	R	93.3% (15)^	R	R	R	100% (13)^	100% (16)^	100% (19)^	100% (14)^	100% (15)^	93.8% (16)^	100% (16)^	92.9% (14)^	94.7% (19)^	92.3% (13)^	R	36.4% (11)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

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^ = Use caution interpreting results with < 30 isolates reported

Sarpy/Cass Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	81	R	R	R	93.5% (77)	R	R	R	83.9% (62)	96.6% (58)	97.5% (81)		96.8% (62)	98.4% (62)	96.3% (81)	95.2% (62)	93.8% (81)	90.1% (81)	92.9% (70)	82% (61)
Citrobacter koseri	80	R	100% (47)	100% (51)	100% (79)	98.2% (56)	97.9% (47)	90.4% (52)	100% (80)	100% (47)	100% (52)	100% (29)^	100% (51)	100% (51)	100% (80)	100% (51)	100% (78)	98.7% (79)	76.4% (72)	98% (50)
Enterobacter cloacae complex	115	R	R	R	82.1% (106)	R	R	R	69% (71)	80% (70)	95.7% (115)	R	88.9% (72)	100% (72)	96.5% (114)	94.9% (79)	96.4% (112)	91.3% (115)	25.3% (83)	87% (77)
Escherichia coli	3313	57.9% (3311)	53.7% (2232)	83.9% (1612)	92.5% (2212)	89.5% (1758)	91.1% (1478)	84.5% (1693)	94% (3303)	99.9% (1505)	90.9% (1851)	99.7% (1478)	99.8% (1630)	99.9% (1519)	92% (3196)	87% (1740)	83.4% (3092)	79.3% (3303)	97% (2970)	79% (1482)
Klebsiella aerogenes	100	R	R	R	93.9% (98)	R	R	R	90.9% (66)	100% (62)	100% (100)	100% (5)^	100% (63)	100% (61)	100% (98)	100% (62)	98.9% (92)	98% (99)	21.7% (83)	94.5% (55)
Klebsiella oxytoca	147	R	67.2% (137)	92.9% (85)	92.2% (141)	51.5% (134)	90.4% (83)	79.1% (86)	91.6% (143)	96.4% (83)	89% (91)	100% (54)	98.9% (87)	100% (84)	93.7% (143)	90.9% (88)	95.8% (143)	91.7% (145)	80.5% (118)	86.9% (84)
Klebsiella pneumoniae	619	R	85.1% (589)	92.6% (378)	93.9% (592)	89.8% (382)	91.6% (367)	87.5% (376)	94.8% (617)	98.1% (371)	93.4% (392)	98.8% (248)	99.5% (382)	100% (371)	98.4% (611)	96.9% (381)	93.2% (607)	92.1% (618)	42.5% (567)	83.3% (366)
Proteus mirabilis	284	83.7% (283)	89% (191)	94.5% (164)	97.9% (192)	67.5% (169)	97.6% (164)	97.6% (164)	98.2% (281)	100% (165)	97.6% (169)	100% (115)	100% (168)	100% (117)	95% (281)	94.7% (170)	89.6% (278)	86.5% (282)	R	R
Pseudomonas aeruginosa	368	R	R	R	94.5% (346)	R	R	R	R	97.8% (232)	95.2% (353)	99.4% (159)	R	90.3% (247)		98.8% (255)	86.3% (335)	R		R
Serratia marcescens	56	R	R	R	76.2% (42)	R	R	R	73.2% (41)	95.1% (41)	100% (56)	100% (31)	100% (41)	100% (41)	96.4% (55)	92.5% (40)	96.4% (56)	94.4% (54)	R	27.8% (36)

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

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^ = Use caution interpreting results with < 30 isolates reported

Southeast District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Ceftolozane_Tazobactam	Cefepime	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Enterobacter cloacae complex	19	R	R	R	70% (10)^	R	R	R	100% (2)^	100% (3)^	R	94.7% (19)^	100% (8)^	100% (8)^	100% (19)^	100% (9)^	100% (19)^	94.7% (19)^	29.4% (17)^	87.5% (8)^
Klebsiella aerogenes	15	R	R	R	71.4% (14)^	R	R	R	80% (5)^	100% (3)^		100% (15)^	100% (8)^	100% (3)^	93.3% (15)^	100% (3)^	86.7% (15)^	100% (15)^	33.3% (15)^	100% (3)^
Klebsiella oxytoca	22	R	81% (21)^	75% (4)^	95.2% (21)^	47.4% (19)^	50% (4)^	100% (4)^	90.9% (22)^	100% (4)^	100% (5)^	90% (10)^	100% (10)^	100% (10)^	100% (22)^	100% (4)^	95.5% (22)^	100% (22)^	100% (17)^	100% (4)^
Pseudomonas aeruginosa	72	R	R	R	98.3% (58)	R	R	R	R	100% (42)	100% (18)^	98.5% (68)	R	95.2% (42)		100% (56)	89.6% (67)	R		R
Escherichia coli	407	60.7% (405)	52.5% (236)	87.8% (74)	95.1% (243)	85.2% (135)	82.4% (51)	87.5% (48)	94.3% (384)	100% (93)	100% (48)	89.3% (149)	99.3% (146)	100% (86)	91.8% (403)	75.2% (101)	80.2% (399)	78.7% (403)	96.8% (380)	75% (48)
Klebsiella pneumoniae	81	R	89.3% (75)	81.8% (11)^	93.8% (80)	75% (20)^	77.8% (9)^	88.9% (9)^	96.2% (78)	90.9% (11)^	100% (8)^	91.7% (24)^	100% (21)^	100% (17)^	98.8% (81)	100% (12)^	92.6% (81)	93.8% (81)	32.9% (76)	88.9% (9)^
Proteus mirabilis	38	81.6% (38)	85.7% (14)^	88.9% (9)^	93.3% (15)^	42.9% (14)^	100% (6)^	100% (6)^	94.4% (36)	90% (10)^	100% (3)^	86.7% (15)^	100% (15)^	100% (8)^	97.4% (38)	90% (10)^	81.1% (37)	91.9% (37)	R	R

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

South Heartland District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	35	R	R	R	97.1% (34)	R	R	R	78.8% (33)	93.8% (32)	97.1% (35)		100% (27)^	100% (33)	88.6% (35)	90.6% (32)	91.4% (35)	76.5% (34)	100% (35)	65.4% (26)^
Enterobacter cloacae complex	37	R	R	R	88.6% (35)	R	R	R	61.3% (31)	83.3% (30)	91.7% (36)	R	90% (20)^	100% (29)^	100% (36)	100% (31)	97.2% (36)	97.3% (37)	43.3% (30)	85% (20)^
Escherichia coli	984	59.2% (983)	63.6% (944)	85.2% (913)	95.3% (952)	88.2% (930)	91.9% (479)	81.4% (483)	95.5% (979)	99% (911)	96.3% (935)	100% (479)	99.8% (509)	100% (922)	94% (978)	94% (919)	85% (983)	76.4% (979)	98.3% (943)	76.6% (491)
Haemophilus influenzae	41	58.5% (41)	50% (2)^	84.6% (39)	100% (2)^	75% (4)^			100% (41)	100% (2)^	100% (2)^			100% (2)^	100% (4)^	100% (2)^	100% (41)	80.5% (41)	100% (1)^	84.6% (39)
Klebsiella aerogenes	35	R	R	R	96.9% (32)	R	R	R	71.9% (32)	87.5% (32)	97.1% (34)	100% (1)^	100% (19)^	100% (32)	97.1% (32)	96.9% (32)	94.3% (33)	97.1% (32)	29.6% (27)^	94.7% (19)^
Klebsiella oxytoca	38	R	77.8% (36)	91.2% (34)	91.7% (36)	55.6% (36)	88.9% (18)^	66.7% (18)^	91.9% (37)	100% (33)	93.9% (33)	100% (18)^	100% (19)^	100% (32)	94.4% (36)	93.9% (33)	97.3% (37)	97.3% (37)	90.6% (32)	94.7% (19)^
Klebsiella pneumoniae	174	R	86.6% (164)	92.1% (151)	96.4% (169)	91.1% (157)	87.7% (81)	79.5% (83)	94.7% (171)	97.3% (149)	95.6% (159)	98.8% (80)	100% (94)	100% (155)	98.8% (172)	98.7% (150)	87.9% (174)	88.8% (170)	50.3% (157)	85.2% (88)
Proteus mirabilis	103	85.3% (102)	90.3% (93)	94.5% (91)	100% (93)	93.5% (92)	94.7% (38)	100% (38)	100% (100)	100% (92)	100% (92)	100% (37)	100% (40)	100% (89)	95.1% (102)	97.8% (91)	87.1% (101)	88.2% (102)	R	R
Pseudomonas aeruginosa	90	R	R	R	95.1% (81)	R	R	R	R	98.7% (75)	97.5% (80)	100% (42)	R	94.7% (76)		94.1% (51)	83.3% (90)	R		R
Serratia marcescens	20	R	R	R	89.5% (19)^	R	R	R	82.4% (17)^	88.9% (18)^	100% (20)^	100% (7)^	100% (7)^	100% (19)^	100% (19)^	94.4% (18)^	100% (20)^	100% (18)^	R	33.3% (6)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Southwest Nebraska Public Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Enterobacter cloacae complex	20	R	R	R	93.3% (15)^	R	R	R	57.1% (14)^	66.7% (9)^	100% (20)^	R	86.7% (15)^	100% (11)^	95% (20)^	93.8% (16)^	95% (20)^	90% (20)^	41.7% (12)^	92.3% (13)^
Klebsiella aerogenes	12	R	R	R	90.9% (11)^	R	R	R	33.3% (12)^	100% (8)^	100% (11)^		100% (11)^	100% (11)^	100% (12)^	100% (11)^	100% (11)^	91.7% (12)^	63.6% (11)^	100% (9)^
Proteus mirabilis	54	80.8% (52)	80% (45)	95.5% (44)	95.6% (45)	80.9% (47)	86.7% (45)	92.5% (40)	87.5% (48)	100% (40)	90.7% (43)	100% (33)	100% (45)	100% (34)	86.8% (53)	82.2% (45)	71.2% (52)	71.2% (52)	R	R
Citrobacter freundii	26	R	R	R	89.5% (19)^	R	R	R	61.9% (21)^	93.3% (15)^	96.2% (26)^		90.9% (22)^	94.4% (18)^	92.3% (26)^	92% (25)^	96.2% (26)^	82.6% (23)^	95% (20)^	84.2% (19)^
Escherichia coli	586	62.5% (584)	69.5% (501)	86.1% (433)	94.5% (509)	88.6% (537)	84.4% (455)	91.1% (372)	93.6% (580)	100% (342)	94% (503)	99.4% (320)	99.8% (411)	100% (352)	95.4% (584)	96.5% (487)	81.2% (581)	81.9% (585)	98.3% (542)	79.8% (400)
Klebsiella oxytoca	39	R	69.4% (36)	83.9% (31)	79.4% (34)	30.3% (33)	73.3% (30)	82.8% (29)^	84.6% (39)	100% (27)^	86.8% (38)	96% (25)^	100% (32)	100% (28)^	100% (39)	100% (35)	100% (39)	94.9% (39)	100% (27)^	93.3% (30)
Klebsiella pneumoniae	126	R	86.9% (107)	92.8% (111)	94.5% (110)	91.5% (118)	86.5% (111)	90.2% (92)	95.1% (123)	100% (82)	93.3% (105)	100% (63)	100% (98)	100% (84)	96.8% (125)	97.2% (106)	91.2% (125)	91.9% (124)	47.3% (112)	83.5% (97)
Pseudomonas aeruginosa	90	R	R	R	95% (80)	R	R	R	R	98.4% (63)	92.9% (85)	100% (41)	R	96.6% (59)		100% (58)	85.4% (89)	R		R

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

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Three Rivers Public Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter freundii	20	R	R	R	94.4% (18)^	R	R	R	92.3% (13)^	100% (12)^	100% (20)^		100% (13)^	100% (12)^	100% (20)^	100% (13)^	90% (20)^	84.2% (19)^	95% (20)^	75% (12)^
Citrobacter koseri	33	R	100% (17)^	100% (18)^	100% (32)	95% (20)^	100% (8)^	100% (9)^	100% (25)^	100% (17)^	100% (12)^	100% (1)^	100% (19)^	100% (19)^	100% (33)	100% (7)^	100% (32)	100% (33)	67.9% (28)^	100% (7)^
Enterobacter cloacae complex	93	R	R	R	86.8% (91)	R	R	R	75.9% (83)	82.9% (82)	91.3% (92)	R	84.5% (84)	98.8% (82)	96.8% (93)	93.8% (32)	92.1% (89)	87% (92)	27.9% (61)	85.7% (28)^
Klebsiella aerogenes	47	R	R	R	76.6% (47)	R	50% (10)^	R	72.7% (33)	71.9% (32)	95.7% (46)		97.1% (35)	100% (32)	100% (47)	100% (10)^	95.7% (47)	100% (47)	15.9% (44)	100% (10)^
Klebsiella oxytoca	81	R	53.2% (79)	89.1% (55)	94.8% (77)	49.3% (71)	95.2% (21)^	89.5% (38)	96.8% (62)	96.4% (56)	95.1% (41)	100% (7)^	100% (57)	100% (58)	97.5% (80)	95.7% (23)^	98.8% (80)	94.9% (79)	90.6% (64)	91.7% (24)^
Escherichia coli	672	59.4% (670)	50.4% (361)	86.1% (151)	93.7% (383)	87.1% (209)	84.7% (137)	90.2% (123)	93.2% (665)	99.3% (142)	84.7% (242)	98.4% (122)	98.2% (228)	99.4% (174)	90.9% (658)	72% (200)	79.9% (652)	82.2% (668)	97.1% (623)	82.9% (123)
Klebsiella pneumoniae	308	R	87.3% (300)	94.5% (235)	94.1% (304)	89.1% (220)	88.4% (86)	84.3% (115)	91.6% (190)	96.2% (234)	87.9% (124)	100% (29)^	100% (241)	100% (238)	96.7% (307)	93.3% (90)	92.8% (305)	92.2% (307)	41% (273)	78.8% (85)
Proteus mirabilis	179	79.5% (176)	87.9% (132)	96% (125)	99.3% (138)	47.9% (117)	97.2% (36)	93.5% (77)	94.5% (127)	97.6% (126)	93% (86)	100% (8)^	100% (127)	100% (17)^	90.3% (175)	83.3% (42)	82.9% (175)	79.9% (174)	R	R
Pseudomonas aeruginosa	195	R	R	R	91.8% (184)	R	R	R	R	91.5% (141)	93.3% (180)	100% (28)^	R	93.8% (145)		95.3% (85)	82.4% (182)	R		R
Serratia marcescens	32	R	R	R	88.5% (26)^	R	R	R	88% (25)^	100% (26)^	100% (32)	100% (5)^	96% (25)^	100% (25)^	96.9% (32)	100% (11)^	100% (31)	100% (20)^	R	

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Two Rivers Public Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Citrobacter koseri	14	R	100% (5)^	100% (7)^	100% (14)^	100% (6)^	100% (7)^	80% (5)^	92.9% (14)^	100% (5)^	100% (8)^	100% (3)^	100% (7)^	100% (7)^	100% (14)^	100% (7)^	100% (14)^	100% (12)^	83.3% (12)^	100% (7)^
Escherichia coli	1484	60.6% (1483)	56% (811)	82.6% (724)	92.9% (1074)	86.8% (841)	83.3% (719)	90.4% (446)	92.7% (1474)	99.8% (470)	90.3% (928)	99.8% (446)	100% (851)	99.9% (816)	93.1% (1456)	89.2% (770)	79.4% (1440)	81.3% (1473)	97.2% (1356)	78.2% (687)
Klebsiella oxytoca	70	R	77.8% (54)	93.3% (45)	90.6% (53)	59.6% (52)	83.3% (42)	93.5% (31)	91.3% (69)	100% (34)	94.6% (56)	100% (25)^	100% (52)	100% (50)	97.1% (69)	95.8% (48)	100% (69)	89.9% (69)	91.4% (58)	90.5% (42)
Enterobacter cloacae complex	66	R	R	R	82.2% (45)	R	R	R	74.1% (27)^	88% (25)^	98.4% (64)	R	84% (25)^	100% (28)^	100% (63)	100% (41)	98.4% (63)	90.8% (65)	36.5% (52)	94.9% (39)
Klebsiella aerogenes	37	R	R	R	76% (25)^	R	61.1% (18)^	R	80% (25)^	100% (10)^	100% (36)		100% (22)^	100% (9)^	97.3% (37)	100% (19)^	97.1% (35)	94.6% (37)	18.8% (32)	88.9% (18)^
Klebsiella pneumoniae	269	R	87.5% (208)	95% (141)	96.2% (260)	91.3% (138)	87.5% (136)	89.8% (88)	94.3% (265)	97.9% (94)	92.9% (170)	97.3% (73)	99.4% (164)	99.4% (163)	98.5% (266)	95.8% (144)	90.6% (267)	90.9% (265)	37.1% (240)	88.4% (138)
Proteus mirabilis	154	71.7% (152)	80% (75)	93% (71)	91.8% (97)	77.6% (76)	89.4% (66)	97.8% (46)	91.9% (148)	98% (51)	90.2% (82)	100% (37)	100% (78)	100% (68)	88.9% (153)	84% (81)	70.7% (150)	75.5% (151)	R	R
Pseudomonas aeruginosa	190	R	R	R	94.2% (173)	R	R	R	R	95.6% (90)	95.2% (168)	100% (65)	R	92.5% (120)		95.5% (133)	82% (172)	R		R
Serratia marcescens	24	R	R	R	80% (10)^	R	R	R	50% (10)^	100% (9)^	100% (23)^	100% (7)^	100% (10)^	100% (10)^	95.8% (24)^	72.7% (11)^	91.7% (24)^	100% (24)^	R	40% (10)^
Citrobacter freundii	42	R	R	R	93.5% (31)	R	R	R	79.3% (29)^	100% (19)^	100% (41)		100% (26)^	100% (28)^	97.6% (42)	96.4% (28)^	97.6% (41)	96.8% (31)	100% (41)	92.6% (27)^

Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

West Central District Health Department

Includes Inpatient and Outpatient isolates, first isolate per patient
Data Displayed as: % Susceptible (Number of Available Isolates)

	Total_Isolates	Ampicillin	Ampicillin_Sulbactam	Amoxicillin_Clavulanate	Piperacillin_Tazobactam	Cefazolin	Cefuroxime	Cefoxitin	Ceftriaxone	Ceftazidime	Cefepime	Ceftolozane_Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Levofloxacin	Trimethoprim_Sulfa	Nitrofurantoin	Tetracycline
Enterobacter cloacae complex	40	R	R	R	100% (15)^	R	R	R	80% (15)^	100% (15)^	100% (40)	R	100% (13)^	100% (14)^	100% (40)	100% (39)	97.5% (40)	97.4% (39)	47.8% (23)^	100% (14)^
Klebsiella oxytoca	51	R	88% (50)	94.4% (18)^	91.3% (23)^	66.7% (21)^	88.9% (18)^	94.4% (18)^	98% (51)	100% (19)^	98% (51)	100% (18)^	100% (18)^	100% (18)^	98% (51)	98% (51)	98% (51)	92% (50)	86.8% (38)	83.3% (18)^
Klebsiella pneumoniae	202	R	84.1% (201)	88.1% (67)	92.5% (201)	89.3% (169)	80.6% (67)	89.4% (66)	92.6% (202)	100% (67)	94.5% (201)	100% (66)	100% (69)	100% (74)	98% (202)	97.4% (192)	93% (201)	88.6% (202)	51.5% (165)	77.3% (66)
Proteus mirabilis	54	63% (54)	66.7% (54)	75.9% (54)	75.9% (54)	68.5% (54)	72.2% (54)	75.9% (54)	72.2% (54)	100% (54)	72.2% (54)	100% (53)	100% (54)	100% (53)	61.1% (54)	61.1% (54)	57.4% (54)	55.6% (54)	R	R
Pseudomonas aeruginosa	102	R	R	R	96.8% (94)	R	R	R	R	98.9% (93)	98.9% (93)	100% (27)^	R	94.3% (35)		98.8% (81)	91.8% (98)	R		R
Citrobacter freundii	39	R	R	R	100% (16)^	R	R	R	78.9% (38)	100% (15)^	100% (39)		100% (15)^	100% (17)^	94.9% (39)	97.4% (38)	82.1% (39)	75% (16)^	94.4% (36)	66.7% (15)^
Escherichia coli	1021	64.6% (1019)	72.8% (1012)	88.7% (382)	95.5% (1011)	91.3% (977)	85% (380)	94.1% (374)	94.9% (1017)	100% (379)	96.3% (1016)	99.7% (374)	100% (381)	100% (407)	94.4% (1021)	94.6% (988)	81.3% (1018)	81.7% (1021)	97.7% (928)	81.1% (375)
Serratia marcescens	23	R	R	R	100% (1)^	R	R	R	85% (20)^	100% (1)^	100% (23)^	100% (1)^	100% (1)^	100% (5)^	95.7% (23)^	94.4% (18)^	100% (23)^	75% (4)^	R	100% (1)^

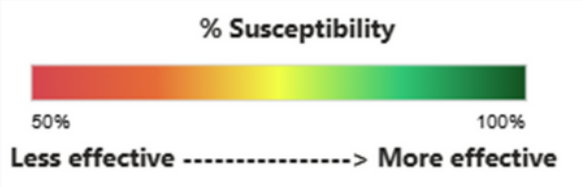
Percent Susceptible Key:	100-90	89.9-70	<70	Not enough data to interpret, <70% of susceptibility data available

Blanks = Indicate drug not routinely tested
R = Intrinsically resistant
^ = Use caution interpreting results with < 30 isolates reported

Drug-Bug Combinations of Interest

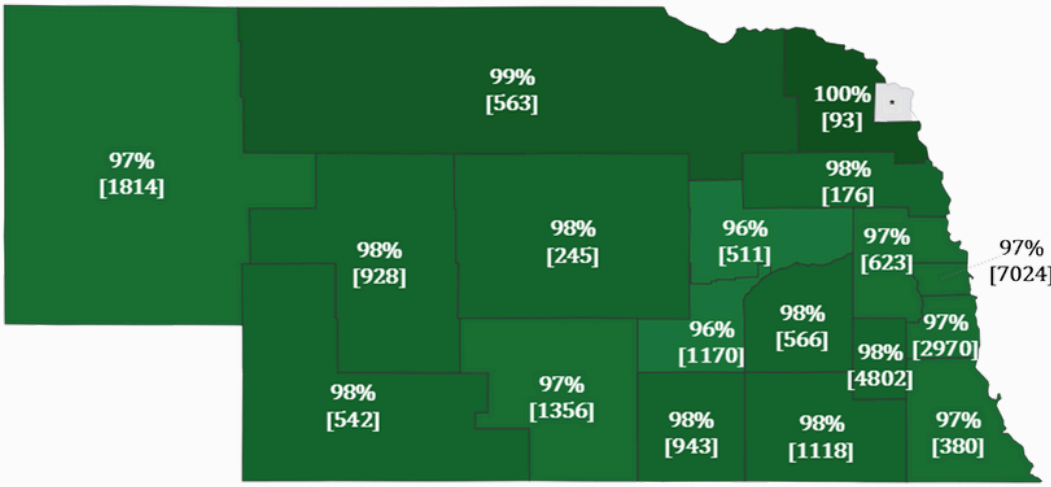
Escherichia coli

The maps below display the percent susceptibility and the number of isolates included by local health department jurisdiction. Red indicates less effective drug-bug combinations, and darker green indicates more effective combinations.
* indicates insufficient data to report (<15 isolates or <50% of susceptibility data available for the drug-bug combination)

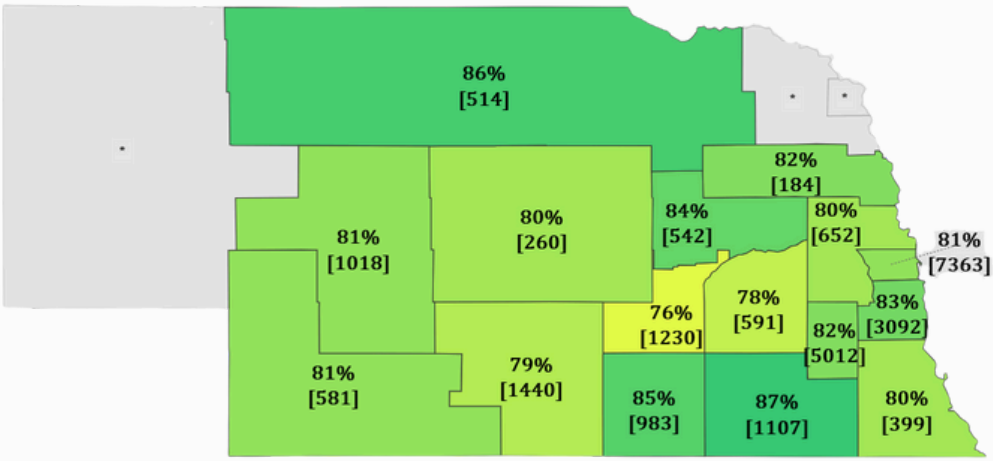


Nitrofurantoin

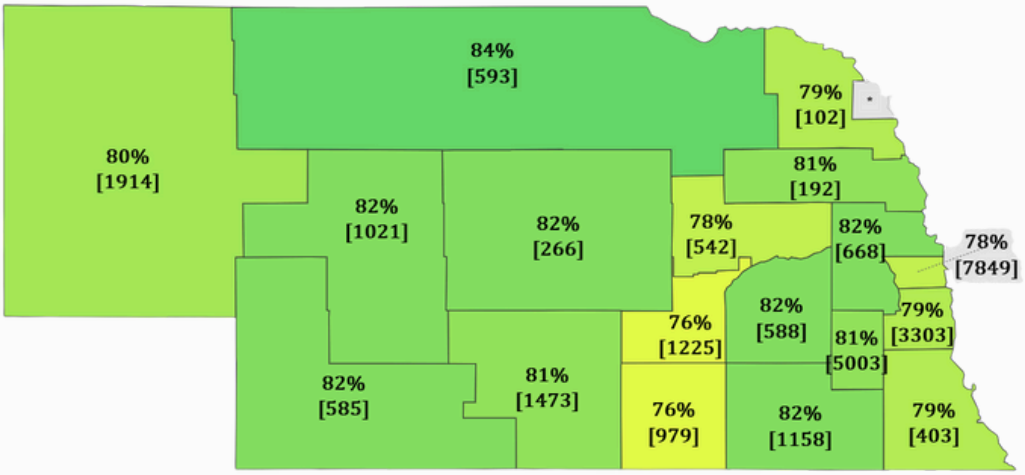
Please note: Nitrofurantoin is for treatment of lower urinary tract infections.



Levofloxacin

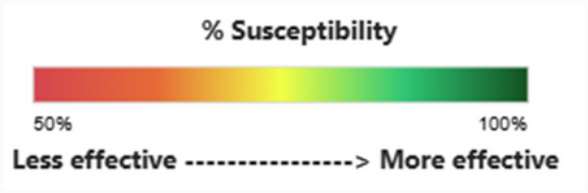


Trimethoprim-Sulfamethoxazole

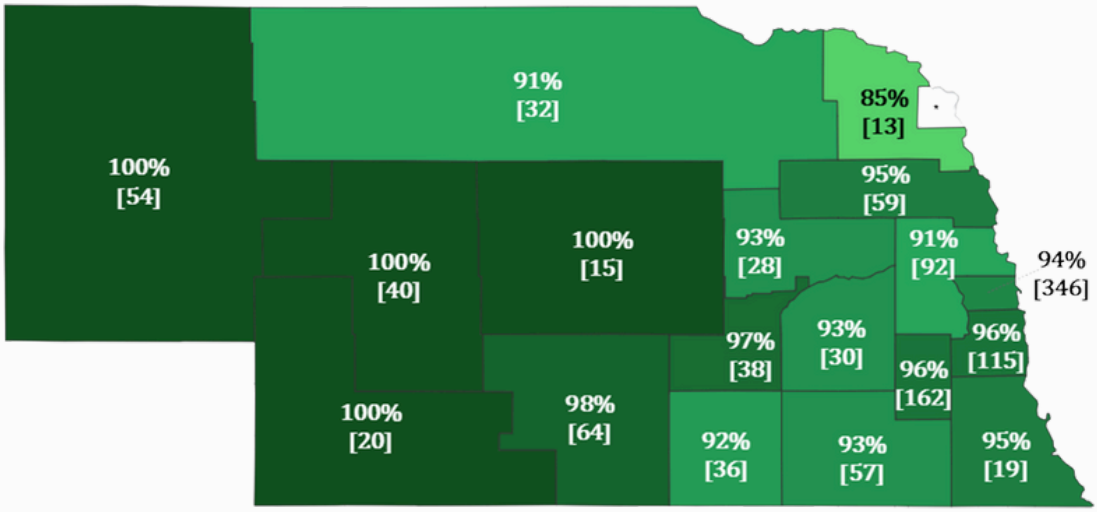


Enterobacter cloacae

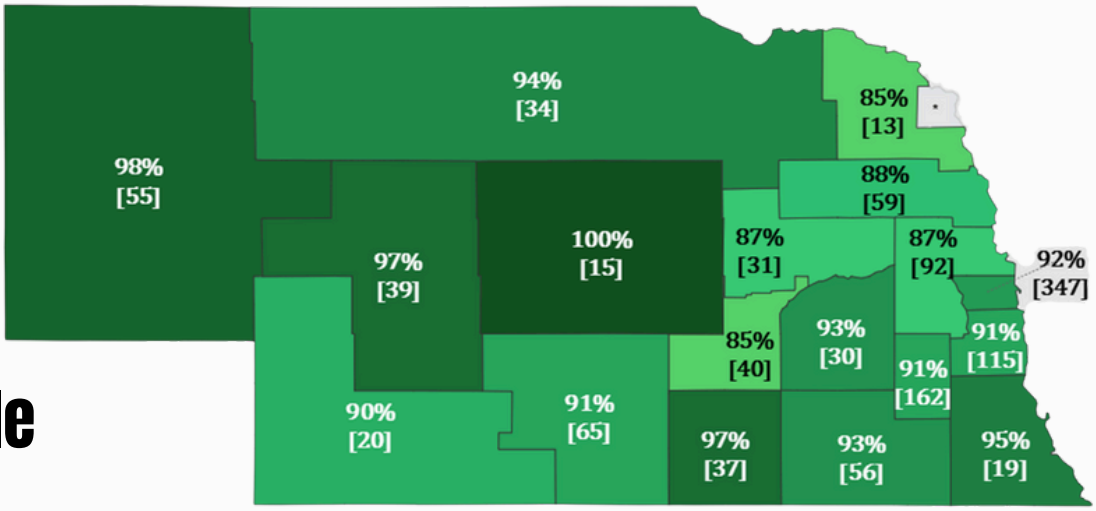
The maps below display the percent susceptibility and the number of isolates included by local health department jurisdiction. Red indicates less effective drug-bug combinations, and darker green indicates more effective combinations.
* indicates insufficient data to report (<15 isolates or <50% of susceptibility data available for the drug-bug combination)



Cefepime

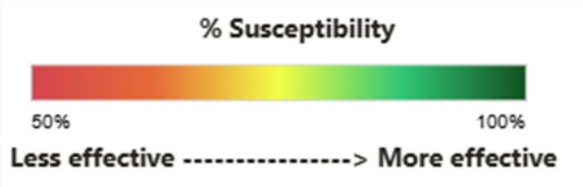


Trimethoprim-Sulfamethoxazole

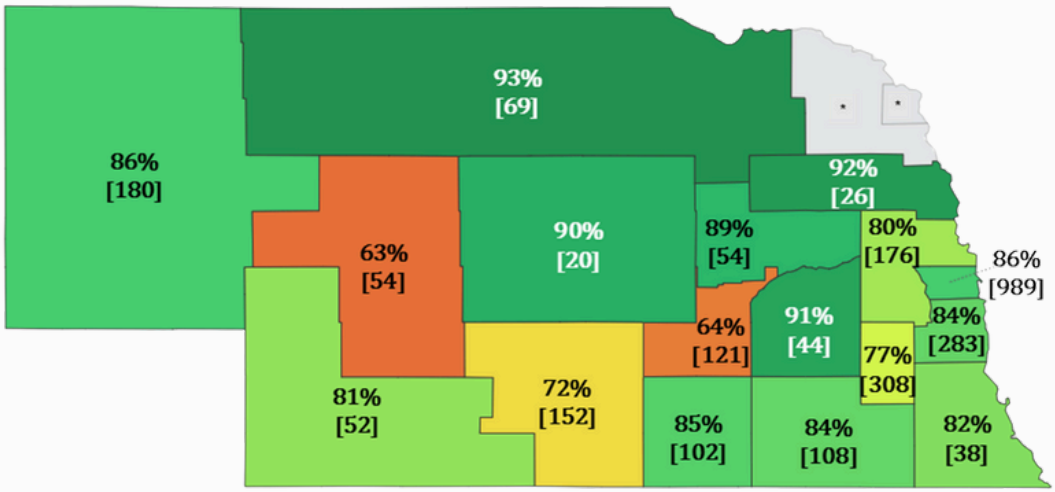


Proteus miribalis

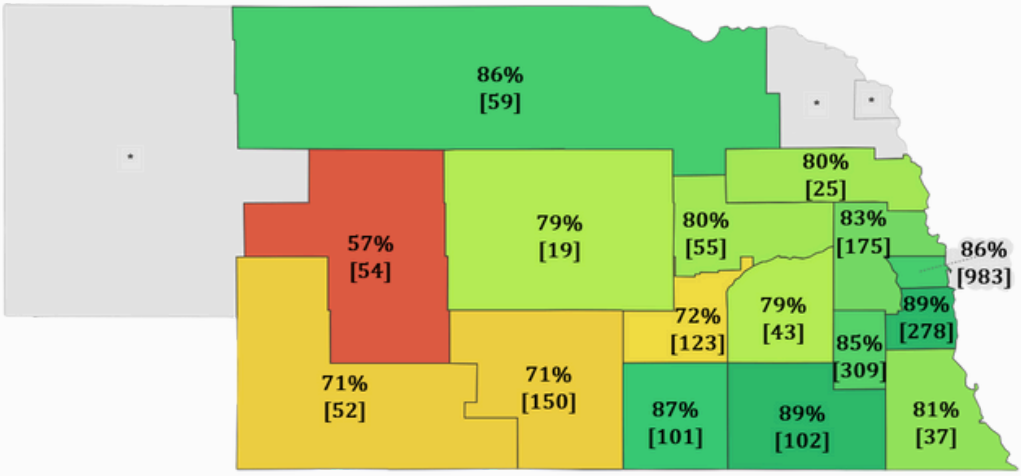
The maps below display the percent susceptibility and the number of isolates included by local health department jurisdiction. Red indicates less effective drug-bug combinations, and darker green indicates more effective combinations.
* indicates insufficient data to report (<15 isolates or <50% of susceptibility data available for the drug-bug combination)



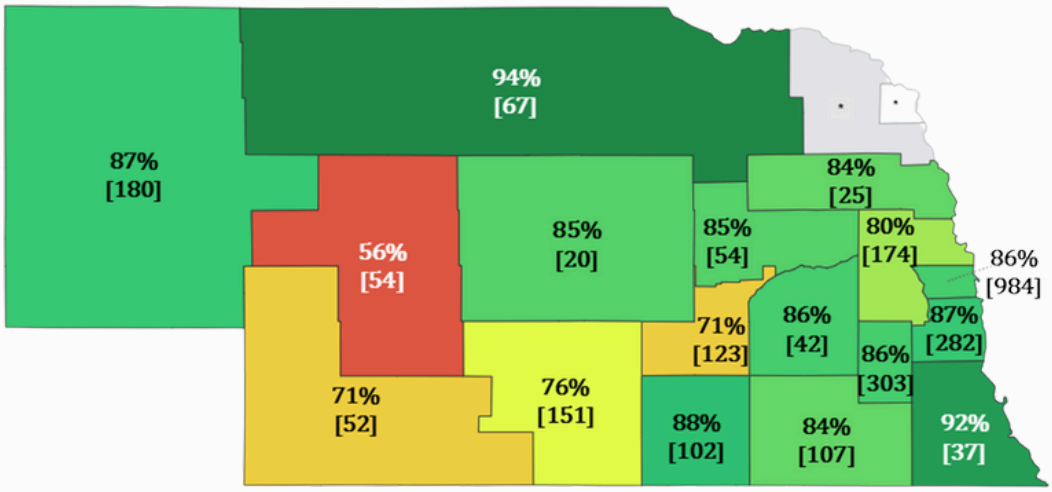
Ampicillin



Levofloxacin



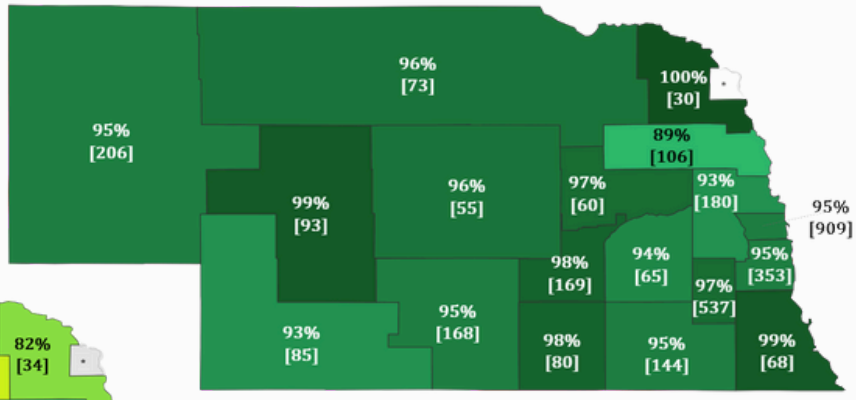
Trimethoprim-Sulfamethoxazole



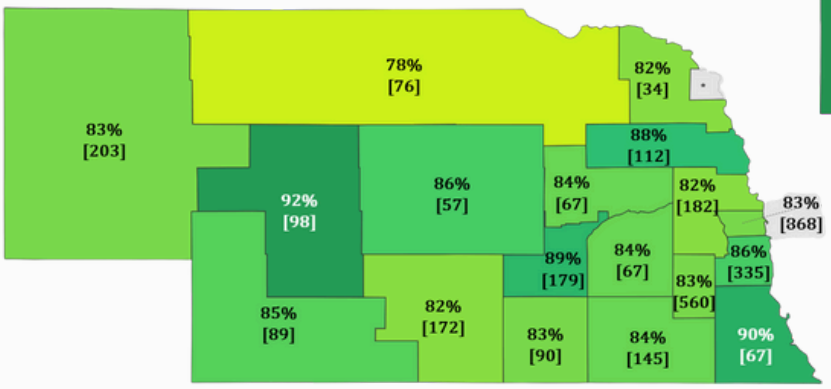
Pseudomonas aeruginosa

The maps below display the percent susceptibility and the number of isolates included by local health department jurisdiction. Red indicates less effective drug-bug combinations, and darker green indicates more effective combinations.
* indicates insufficient data to report (<15 isolates or <50% of susceptibility data available for the drug-bug combination)

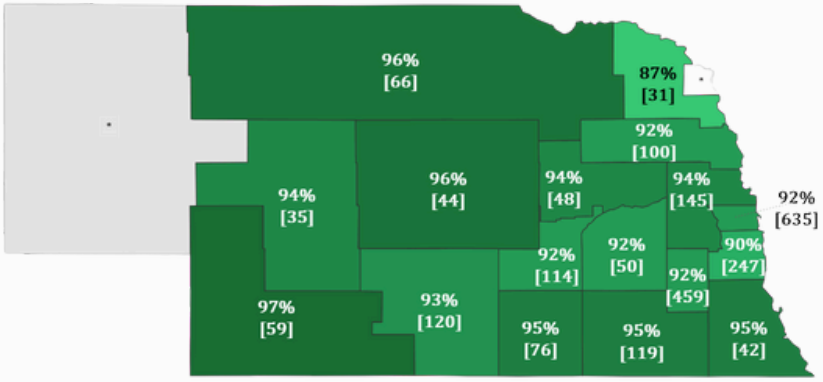
Cefepime



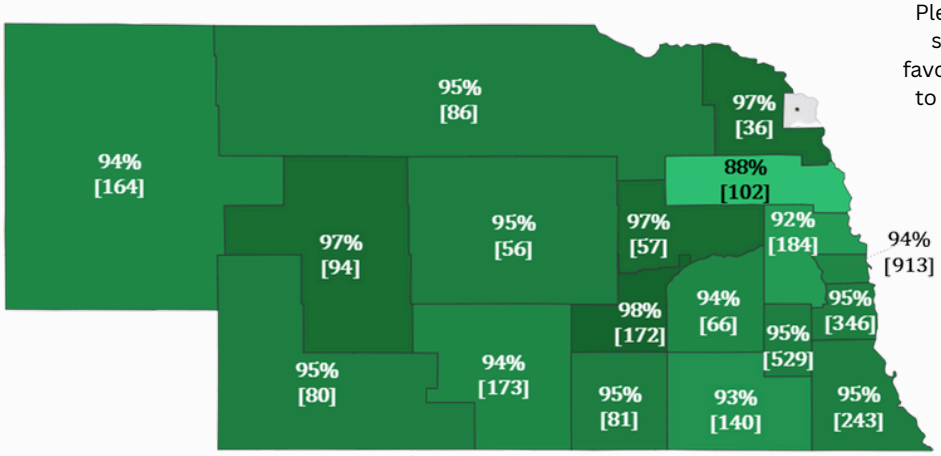
Levofloxacin



Meropenem



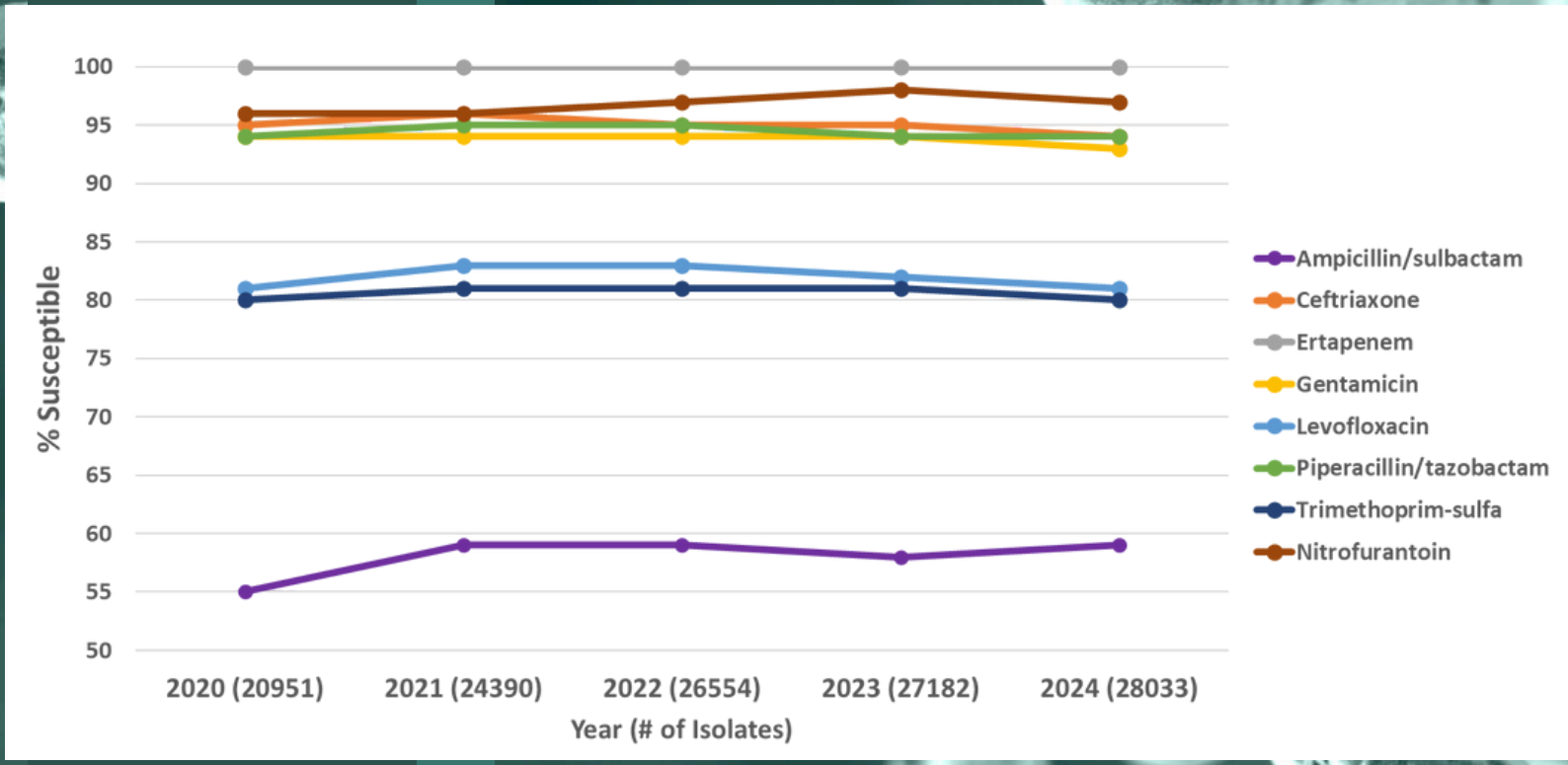
Please note: Even though meropenem shows high rates of susceptibility, cefepime or piperacillin/tazobactam are favored over meropenem to preserve carbapenems and due to the higher risk of acquired resistance with meropenem.



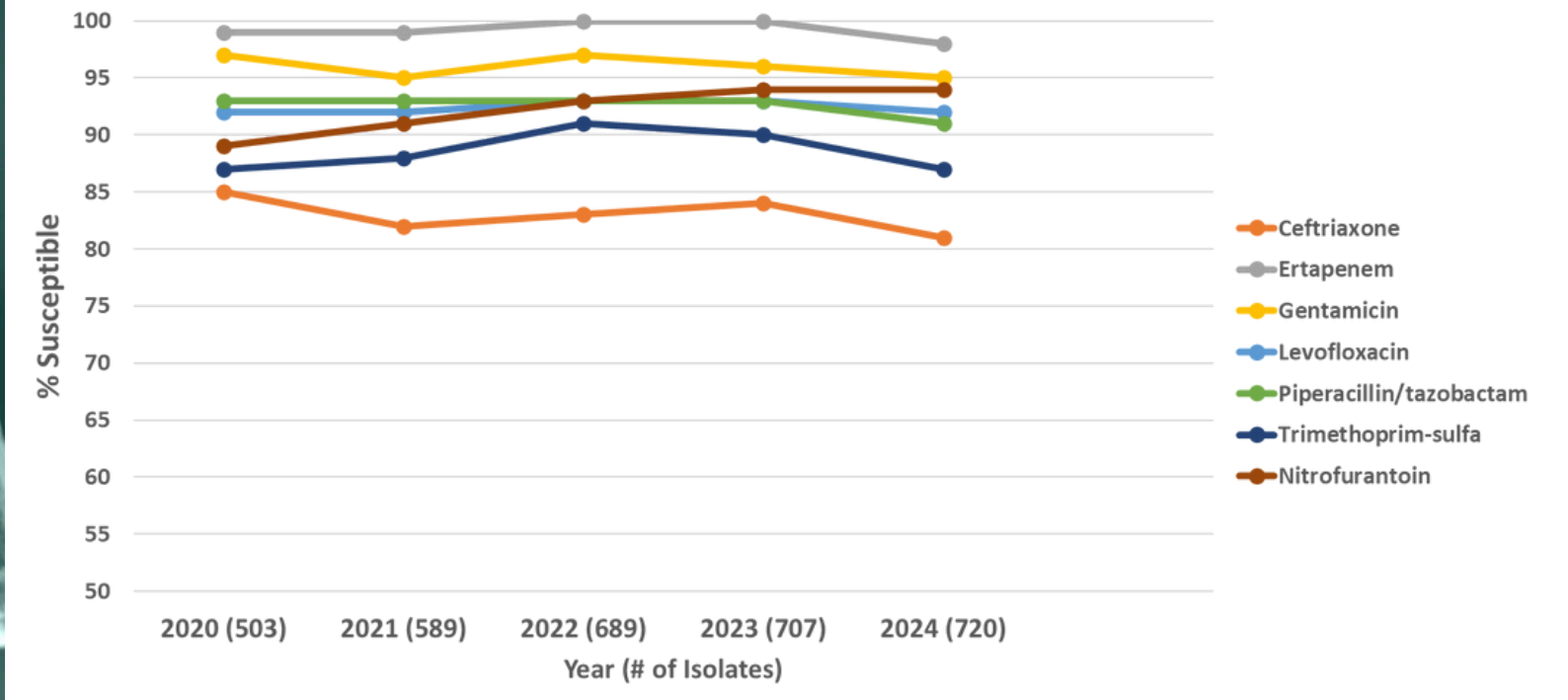
Piperacillin Tazobactam

Gram-Negative Organism Statewide Susceptibility Trends 2020-2024

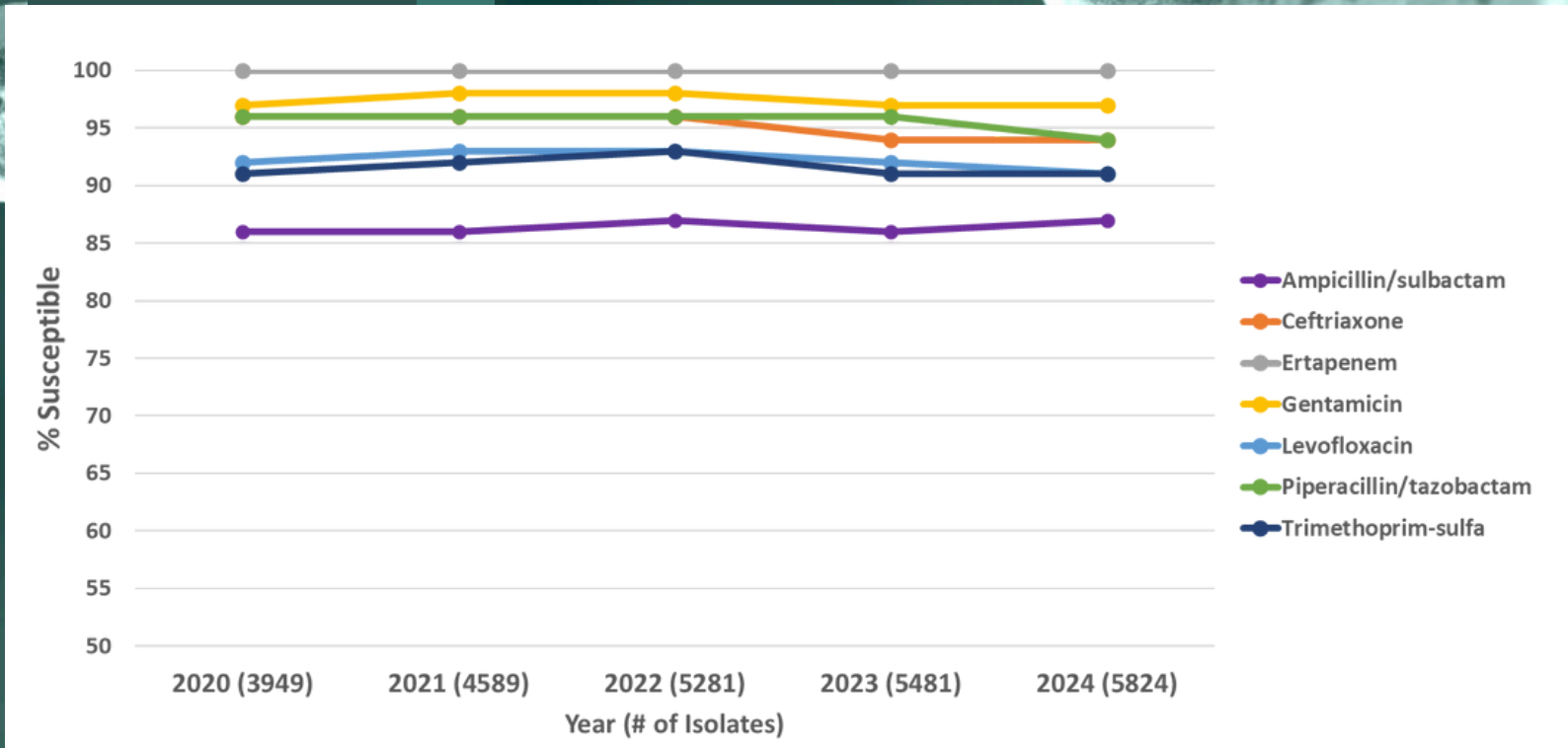
Escherichia coli



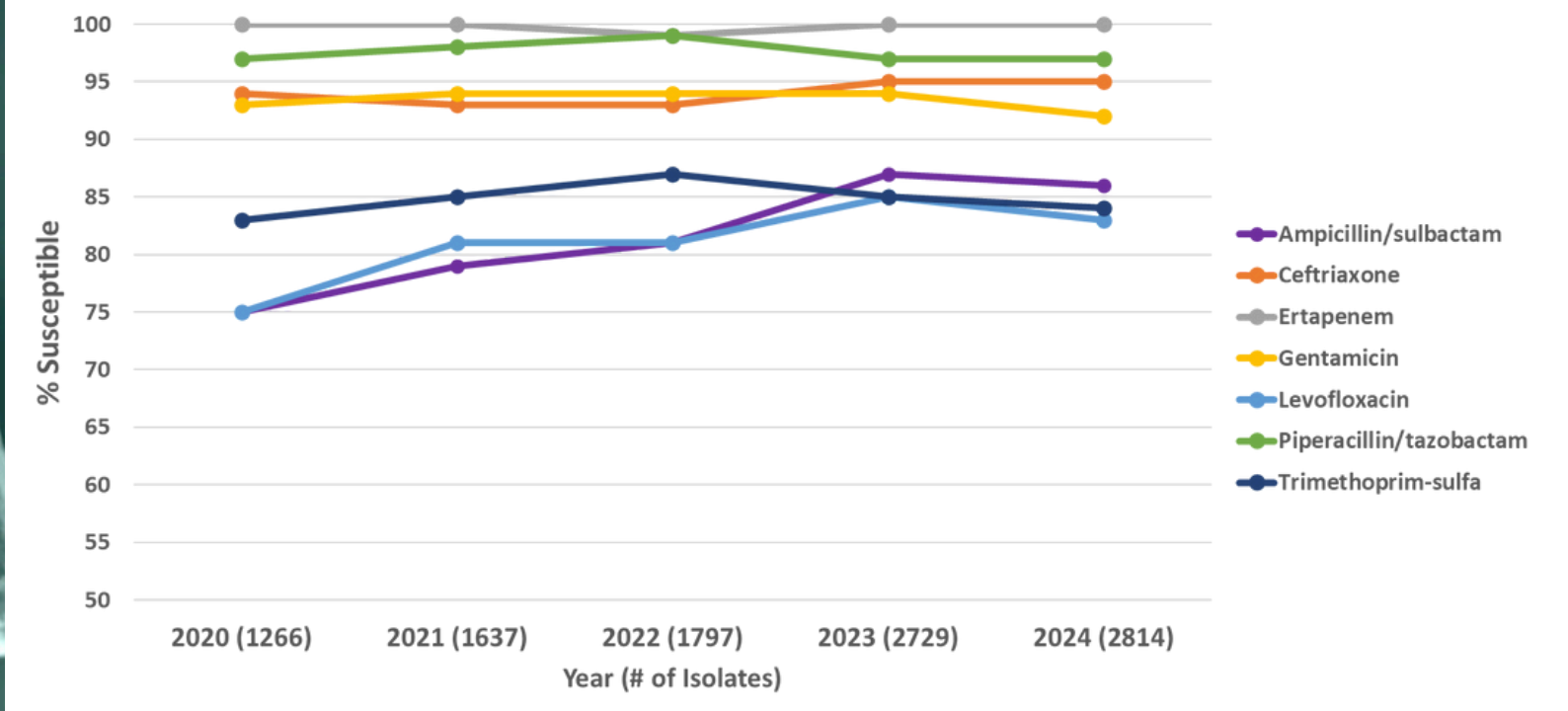
Citrobacter freundii



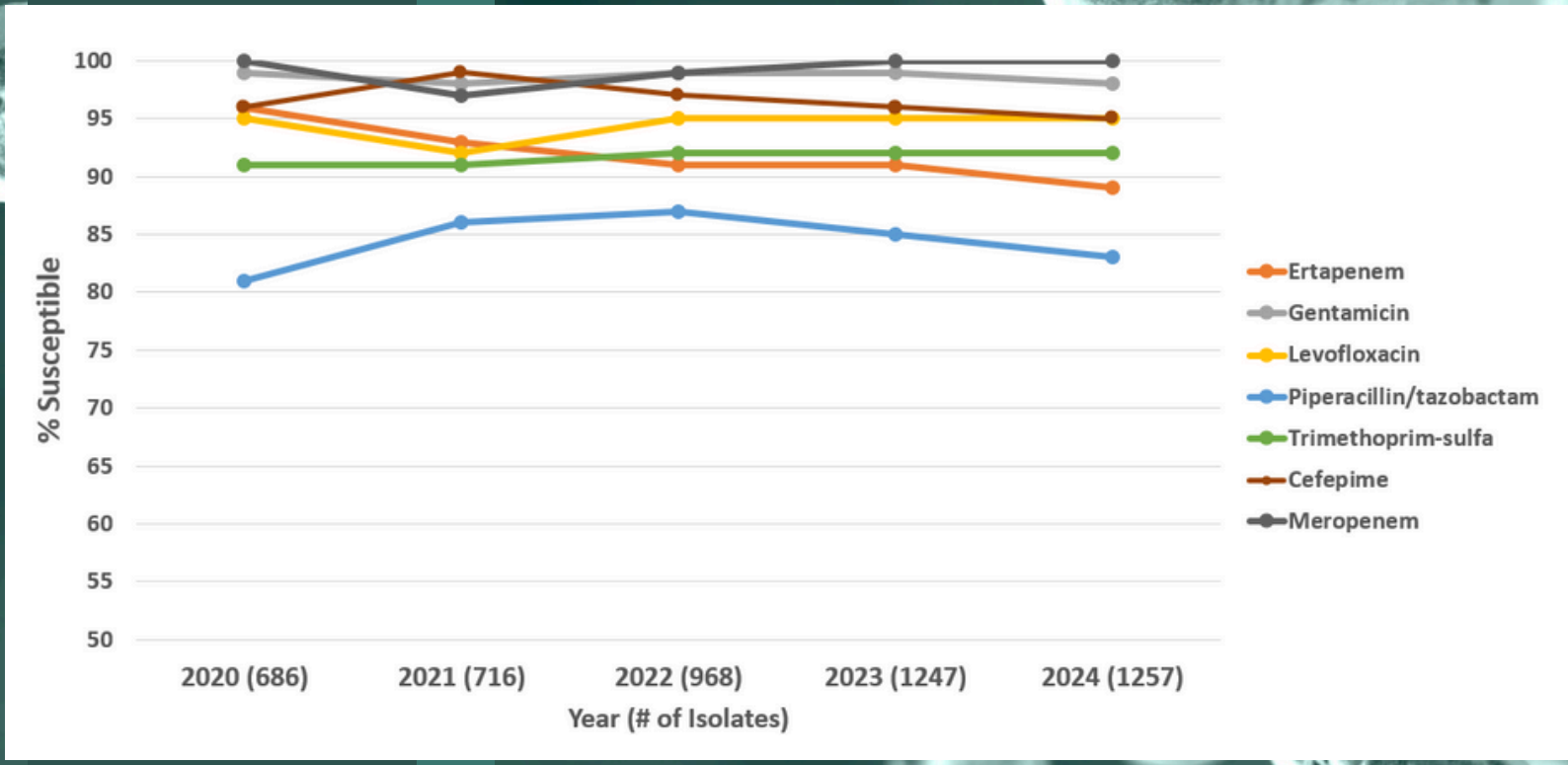
Klebsiella pneumoniae



Proteus mirabilis



Enterobacter cloacae complex



Pseudomonas aeruginosa