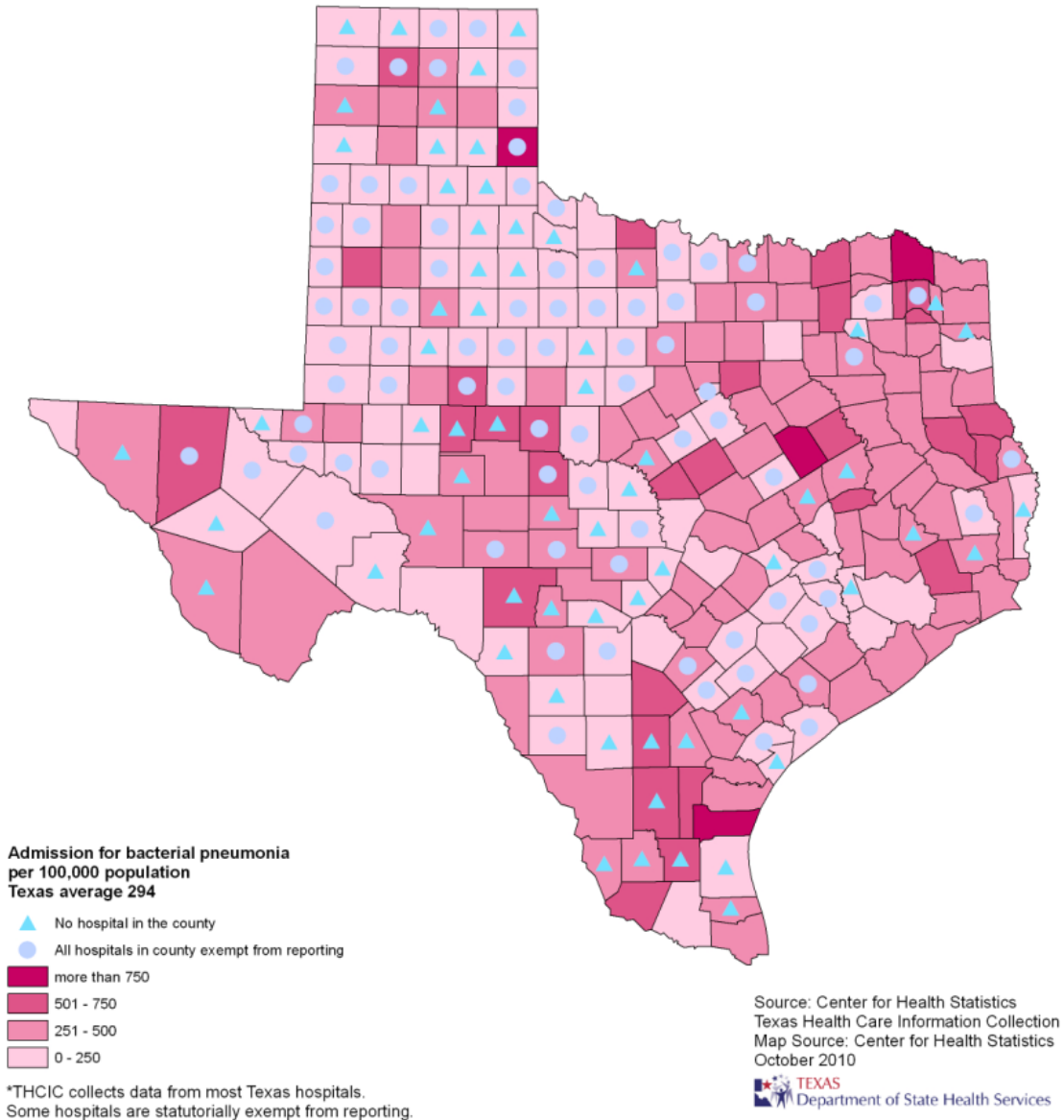


1. Bacterial Pneumonia

Pneumonia is a serious inflammation of the lungs caused by an infection. It is a common, often serious illness that affects about 3-4 million people a year in the United States. Many different organisms can cause pneumonia, including bacteria, viruses and fungi. Bacterial pneumonias tend to be the most serious. In adults, *Streptococcus pneumoniae* (pneumococcus) bacteria are the most common cause of pneumonia. Pneumonia that is caused by pneumococcus or other bacteria must be treated with antibiotics. Hospital admission for pneumonia is relatively common, even though there is a vaccine to help prevent pneumococcal pneumonia.



Texas Health Care Information Collection *Bacterial Pneumonia Admission Rate, 2008*

Rates not calculated for counties with fewer than 5 admissions

* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval

** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
State of Texas	47,433	17,584,200	269.75	261.68	293.65	(291.00, 296.31)
Anderson	150	47,168	318.01	276.32	336.10	(286.25, 385.96)
Andrews	Less than 5					
Angelina	319	62,551	509.98	318.99	466.90**	(426.61, 507.20)
Aransas	64	20,384	313.97	426.32	215.08*	(154.06, 276.10)
Archer	35	7,266	481.70	317.81	442.63**	(324.16, 561.11)
Armstrong	6	1,726	347.62	438.04	231.76	(25.00, 438.52)
Atascosa	172	32,507	529.12	280.67	550.55**	(490.94, 610.17)
Austin	45	20,675	217.65	341.47	186.14*	(118.42, 253.87)
Bailey	5	4,742	105.44	352.53	87.33*	(0.00, 226.47)
Bandera	36	16,468	218.61	345.44	184.81*	(109.33, 260.29)
Bastrop	226	55,236	409.15	261.75	456.50**	(409.13, 503.87)
Baylor	Less than 5					
Bee	94	27,029	347.77	244.89	414.73**	(344.74, 484.71)
Bell	607	183,259	331.23	260.84	370.84**	(344.80, 396.88)
Bexar	2,304	1,157,792	199.00	268.92	216.11*	(205.90, 226.31)
Blanco	18	7,331	245.53	308.44	232.44	(112.76, 352.13)
Borden	Less than 5					
Bosque	23	14,580	157.75	421.82	109.22*	(36.71, 181.73)
Bowie	305	72,389	421.33	313.19	392.88**	(355.08, 430.68)
Brazoria	602	216,445	278.13	240.00	338.44**	(313.44, 363.44)
Brazos	202	127,316	158.66	195.86	236.57*	(200.51, 272.63)
Brewster	35	7,389	473.68	313.60	439.98**	(321.87, 558.10)
Briscoe	Less than 5					
Brooks	51	5,651	902.50	365.10	721.89**	(596.60, 847.18)
Brown	157	30,700	511.40	356.50	418.88**	(364.51, 473.26)
Burleson	70	13,367	523.68	364.45	419.63**	(338.11, 501.15)
Burnet	110	34,925	314.96	427.03	215.39*	(168.83, 261.96)
Caldwell	126	27,907	451.50	296.26	445.05**	(382.46, 507.65)
Calhoun	26	15,538	167.33	331.70	147.32*	(68.02, 226.63)
Callahan	27	10,971	246.10	370.50	193.97*	(104.72, 283.21)
Cameron	778	264,059	294.63	295.30	291.37	(270.99, 311.76)
Camp	72	9,386	767.10	353.68	633.40**	(534.64, 732.16)
Carson	19	5,182	366.65	357.66	299.38	(167.20, 431.57)
Cass	101	24,159	418.06	394.07	309.82	(251.52, 368.13)
Castro	5	5,342	93.60	338.58	80.73*	(0.00, 214.59)

Texas Health Care Information Collection *Bacterial Pneumonia Admission Rate, 2008*

Rates not calculated for counties with fewer than 5 admissions

* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval

** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Chambers	84	22,357	375.72	245.72	446.52**	(369.65, 523.40)
Cherokee	161	37,336	431.22	334.69	376.27**	(325.37, 427.17)
Childress	Less than 5					
Clay	20	9,045	221.12	325.68	198.28	(93.37, 303.18)
Cochran	7	2,321	301.59	353.24	249.34	(50.58, 448.10)
Coke	27	2,959	912.47	501.81	531.03**	(383.50, 678.57)
Coleman	14	7,057	198.38	459.48	126.09*	(26.25, 225.93)
Collin	983	524,278	187.50	201.30	272.01*	(254.46, 289.57)
Collingsworth	40	2,272	1,760.56	467.34	1,093.90**	(919.97, 1,267.83)
Colorado	11	16,592	66.30	402.30	48.13*	(0.00, 117.74)
Comal	249	80,520	309.24	315.04	286.66	(250.92, 322.40)
Comanche	64	10,947	584.64	428.13	398.79**	(315.73, 481.86)
Concho	18	3,247	554.36	290.36	557.56**	(372.23, 742.89)
Cooke	127	30,030	422.91	335.49	368.14**	(311.44, 424.83)
Coryell	185	56,070	329.94	187.54	513.80**	(458.23, 569.37)
Cottle	Less than 5					
Crane	Less than 5					
Crockett	11	2,999	366.79	338.96	315.91	(137.40, 494.43)
Crosby	8	4,782	167.29	369.81	132.11*	(0.00, 267.40)
Culberson	15	1,912	784.52	314.67	727.72**	(495.52, 959.91)
Dallam	6	4,425	135.59	274.85	144.07	(0.00, 307.39)
Dallas	3,392	1,729,044	196.18	235.72	243.05*	(234.13, 251.98)
Dawson	13	11,112	116.99	319.27	107.01*	(11.48, 202.55)
Deaf Smith	6	13,002	46.15	315.11	42.76*	(0.00, 131.69)
Delta	23	4,472	514.31	373.00	402.41	(263.19, 541.64)
Denton	887	440,803	201.22	182.35	322.26**	(302.14, 342.38)
Dewitt	26	16,338	159.14	383.93	121.04*	(49.23, 192.85)
Dickens	5	2,226	224.62	381.99	171.72	(0.00, 366.68)
Dimmit	6	7,442	80.62	317.74	74.10*	(0.00, 191.12)
Donley	Less than 5					
Duval	70	9,340	749.46	344.67	634.95**	(534.67, 735.23)
Eastland	36	14,769	243.75	405.96	175.34*	(101.89, 248.79)
Ector	273	92,876	293.94	276.79	310.02	(274.50, 345.53)
Edwards	8	1,482	539.81	274.60	574.08	(291.68, 856.49)
Ellis	267	105,148	253.93	247.46	299.67	(264.36, 334.98)
El Paso	1,080	519,684	207.82	271.01	223.94*	(208.77, 239.12)

Texas Health Care Information Collection *Bacterial Pneumonia Admission Rate, 2008*

Rates not calculated for counties with fewer than 5 admissions

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** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Erath	106	27,307	388.18	306.29	370.12**	(307.92, 432.33)
Falls	22	13,490	163.08	368.95	129.09*	(48.46, 209.71)
Fannin	193	27,025	714.15	354.66	588.06**	(529.95, 646.17)
Fayette	15	18,435	81.37	455.96	52.11*	(0.00, 114.12)
Fisher	Less than 5					
Floyd	12	5,127	234.06	395.73	172.69	(46.43, 298.96)
Foard	Less than 5					
Fort Bend	463	371,048	124.78	200.97	181.33*	(160.45, 202.21)
Franklin	67	8,401	797.52	387.66	600.81**	(501.12, 700.50)
Freestone	114	15,280	746.07	334.58	651.22**	(571.63, 730.80)
Frio	13	12,350	105.26	287.00	107.10*	(11.50, 202.71)
Gaines	6	10,549	56.88	280.89	59.13*	(0.00, 163.74)
Galveston	738	218,670	337.49	275.71	357.48**	(334.29, 380.68)
Garza	13	3,722	349.27	323.88	314.94	(151.03, 478.85)
Gillespie	105	19,623	535.09	498.87	313.24	(255.79, 370.69)
Glasscock	Less than 5					
Goliad	26	5,801	448.20	372.81	351.10	(228.74, 473.46)
Gonzales	26	14,777	175.95	369.27	139.15*	(62.15, 216.14)
Gray	115	17,400	660.92	389.51	495.54**	(426.45, 564.63)
Grayson	514	93,065	552.30	339.03	475.75**	(443.72, 507.79)
Gregg	400	89,252	448.17	313.77	417.14**	(383.12, 451.15)
Grimes	73	20,431	357.30	313.15	333.21	(262.05, 404.37)
Guadalupe	242	83,867	288.55	285.72	294.93	(258.15, 331.72)
Hale	137	26,393	519.08	309.59	489.66**	(426.70, 552.62)
Hall	Less than 5					
Hamilton	11	6,665	165.04	461.21	104.50*	(1.98, 207.03)
Hansford	Less than 5					
Hardeman	Less than 5					
Hardin	167	40,163	415.81	293.77	413.36**	(360.93, 465.79)
Harris	4,993	2,851,478	175.10	224.97	227.30*	(220.19, 234.42)
Harrison	120	49,779	241.07	303.23	232.17*	(185.83, 278.51)
Hartley	Less than 5					
Haskell	Less than 5					
Hays	232	103,183	224.84	206.96	317.26	(278.27, 356.25)
Hemphill	Less than 5					
Henderson	299	64,198	465.75	365.93	371.70**	(334.58, 408.83)

Texas Health Care Information Collection *Bacterial Pneumonia Admission Rate, 2008*

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** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Hidalgo	981	466,319	210.37	267.81	229.40*	(213.29, 245.51)
Hill	145	28,081	516.36	364.94	413.21**	(357.02, 469.41)
Hockley	90	17,139	525.12	303.91	504.46**	(425.60, 583.32)
Hood	130	40,068	324.45	368.10	257.41	(210.55, 304.27)
Hopkins	23	26,199	87.79	334.49	76.65*	(15.86, 137.44)
Houston	87	18,831	462.00	386.29	349.28	(282.58, 415.97)
Howard	110	25,829	425.88	322.27	385.90**	(323.52, 448.27)
Hudspeth	8	2,413	331.54	294.54	328.72	(115.08, 542.37)
Hunt	378	65,251	579.30	294.84	573.79**	(532.74, 614.84)
Hutchinson	72	17,222	418.07	357.27	341.74	(269.20, 414.28)
Irion	6	1,506	398.41	324.77	358.25	(100.93, 615.57)
Jack	12	7,517	159.64	328.03	142.12*	(27.53, 256.72)
Jackson	41	11,015	372.22	364.70	298.06	(208.31, 387.82)
Jasper	149	27,498	541.86	348.18	454.49**	(396.32, 512.67)
Jeff Davis	5	1,891	264.41	390.86	197.14	(0.00, 406.12)
Jefferson	712	189,562	375.60	319.25	343.58**	(320.45, 366.72)
Jim Hogg	18	3,740	481.28	367.67	382.28	(228.85, 535.72)
Jim Wells	184	30,247	608.32	308.18	576.47**	(517.51, 635.42)
Johnson	518	114,276	453.29	253.31	522.60**	(489.11, 556.08)
Jones	20	16,233	123.21	304.24	118.26*	(37.28, 199.23)
Karnes	13	12,624	102.98	305.46	98.45*	(6.85, 190.06)
Kaufman	241	71,115	338.89	248.15	398.82**	(355.94, 441.70)
Kendall	41	23,950	171.19	328.98	151.97*	(87.83, 216.10)
Kenedy	Less than 5					
Kent	Less than 5					
Kerr	218	38,710	563.16	499.50	329.26	(288.38, 370.13)
Kimble	15	3,756	399.36	395.70	294.74	(147.15, 442.34)
King	Less than 5					
Kinney	5	2,700	185.19	487.09	111.03*	(0.00, 267.81)
Kleberg	165	23,062	715.46	278.04	751.42**	(680.32, 822.51)
Knox	Less than 5					
Lamar	200	38,769	515.88	367.08	410.31**	(362.64, 457.99)
Lamb	21	10,686	196.52	396.87	144.61*	(57.29, 231.93)
Lampasas	122	16,455	741.42	340.07	636.63**	(560.56, 712.69)
La Salle	5	4,500	111.11	289.01	112.27*	(0.00, 270.15)
Lavaca	61	15,284	399.11	472.44	246.71	(179.82, 313.59)

Texas Health Care Information Collection *Bacterial Pneumonia Admission Rate, 2008*

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County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Lee	22	12,717	173.00	358.84	140.79*	(56.59, 224.99)
Leon	89	13,377	665.32	389.84	498.34**	(419.53, 577.14)
Liberty	328	58,057	564.96	262.54	628.43**	(582.29, 674.57)
Limestone	208	17,905	1,161.69	343.39	987.96**	(915.40, 1,060.53)
Lipscomb	Less than 5					
Live Oak	33	9,616	343.18	376.23	266.38	(171.81, 360.95)
Llano	35	15,958	219.33	528.91	121.10*	(59.21, 182.99)
Loving	Less than 5					
Lubbock	751	196,532	382.13	274.71	406.23**	(381.73, 430.73)
Lynn	5	4,616	108.32	343.54	92.08*	(0.00, 235.00)
McCulloch	10	6,278	159.29	416.38	111.72*	(0.47, 222.97)
McLennan	496	173,684	285.58	300.78	277.28	(252.38, 302.17)
McMullen	5	785	636.94	369.18	503.85	(169.62, 838.08)
Madison	71	10,949	648.46	310.07	610.58**	(512.95, 708.21)
Marion	33	9,038	365.13	405.81	262.76	(168.81, 356.71)
Martin	8	3,154	253.65	329.25	224.77	(48.23, 401.30)
Mason	11	3,298	333.54	448.43	217.21	(69.34, 365.09)
Matagorda	111	28,312	392.06	320.42	357.33**	(297.57, 417.10)
Maverick	105	35,112	299.04	284.52	306.93	(249.97, 363.90)
Medina	49	33,796	144.99	303.23	139.63*	(83.40, 195.87)
Menard	9	1,865	482.57	479.68	293.80	(103.72, 483.88)
Midland	221	92,884	237.93	295.22	235.37*	(200.99, 269.75)
Milam	78	19,306	404.02	381.39	309.36	(243.08, 375.65)
Mills	28	4,186	668.90	487.86	400.22	(274.50, 525.94)
Mitchell	50	7,871	635.24	300.13	618.04**	(500.97, 735.11)
Montague	40	15,908	251.45	406.37	180.67*	(109.93, 251.41)
Montgomery	739	303,223	243.72	239.52	297.15	(276.01, 318.30)
Moore	98	14,082	695.92	281.75	721.33**	(630.94, 811.73)
Morris	48	10,398	461.63	384.63	350.46	(260.49, 440.43)
Motley	Less than 5					
Nacogdoches	244	47,729	511.22	286.32	521.42**	(472.74, 570.11)
Navarro	182	38,032	478.54	322.44	433.42**	(382.03, 484.80)
Newton	25	11,322	220.81	322.22	200.13	(105.85, 294.40)
Nolan	10	11,257	88.83	368.62	70.38*	(0.00, 158.71)
Nueces	881	241,491	364.82	289.03	368.61**	(347.06, 390.16)
Ochiltree	Less than 5					

Texas Health Care Information Collection *Bacterial Pneumonia Admission Rate, 2008*

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County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Oldham	5	1,451	344.59	310.19	324.43	(55.94, 592.91)
Orange	294	65,660	447.76	313.80	416.72**	(377.05, 456.39)
Palo Pinto	127	21,712	584.93	347.63	491.39**	(425.89, 556.90)
Panola	102	18,309	557.10	355.76	457.32**	(386.82, 527.83)
Parker	272	83,886	324.25	259.62	364.74**	(326.13, 403.34)
Parmer	7	6,846	102.25	341.52	87.43*	(0.00, 205.10)
Pecos	Less than 5					
Polk	205	38,503	532.43	396.47	392.18**	(346.14, 438.22)
Potter	286	89,198	320.63	296.93	315.36	(280.38, 350.33)
Presidio	31	5,482	565.49	404.43	406.71	(286.19, 527.23)
Rains	18	9,507	189.33	348.05	158.87*	(59.91, 257.82)
Randall	219	87,242	251.03	265.23	276.40	(238.95, 313.84)
Reagan	Less than 5					
Real	10	2,552	391.85	438.20	261.15	(91.05, 431.25)
Red River	186	10,920	1,703.30	424.87	1,170.78**	(1,087.30, 1,254.27)
Reeves	8	8,602	93.00	346.75	78.30*	(0.00, 182.48)
Refugio	17	6,005	283.10	376.42	219.60	(99.92, 339.28)
Roberts	Less than 5					
Robertson	44	12,368	355.76	373.98	277.79	(194.14, 361.43)
Rockwall	151	52,789	286.04	231.18	361.35**	(309.77, 412.94)
Runnels	70	8,315	841.85	432.24	568.38**	(473.57, 663.19)
Rusk	114	38,637	295.05	336.54	256.04	(206.14, 305.94)
Sabine	55	8,669	634.44	465.65	397.85**	(308.35, 487.36)
San Augustine	75	7,175	1,045.30	458.84	665.12**	(566.04, 764.20)
San Jacinto	65	19,904	326.57	327.25	291.43	(220.87, 361.99)
San Patricio	195	50,607	385.32	290.92	386.77**	(339.84, 433.70)
San Saba	12	4,625	259.46	415.33	182.36	(52.64, 312.08)
Schleicher	10	2,166	461.68	376.41	358.20	(158.96, 557.44)
Scurry	14	12,717	110.09	330.37	97.31*	(9.53, 185.09)
Shackelford	Less than 5					
Shelby	132	20,343	648.87	349.96	540.73**	(473.34, 608.11)
Sherman	6	2,178	275.48	326.61	246.32	(32.95, 459.69)
Smith	481	150,121	320.41	329.53	283.96	(258.37, 309.54)
Somervell	11	6,114	179.91	341.16	154.01*	(29.43, 278.60)
Starr	255	40,125	635.51	271.90	681.91**	(627.43, 736.39)
Stephens	Less than 5					

Texas Health Care Information Collection

Bacterial Pneumonia Admission Rate, 2008

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County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Sterling	8	993	805.64	386.51	608.72**	(318.42, 899.02)
Stonewall	Less than 5					
Sutton	14	3,200	437.50	297.70	428.65	(244.28, 613.02)
Swisher	11	5,935	185.34	375.02	144.33*	(23.76, 264.91)
Tarrant	3,203	1,244,658	257.34	236.12	318.28**	(307.77, 328.79)
Taylor	322	95,116	338.53	312.26	316.61	(283.59, 349.63)
Terrell	Less than 5					
Terry	11	9,372	117.37	343.19	99.84*	(0.00, 200.16)
Throckmorton	Less than 5					
Titus	123	21,764	565.15	305.57	540.13**	(470.34, 609.91)
Tom Green	441	80,261	549.46	328.82	487.99**	(452.97, 523.02)
Travis	1,127	713,986	157.85	203.32	226.72*	(211.77, 241.68)
Trinity	87	11,681	744.80	435.52	499.42**	(419.68, 579.17)
Tyler	48	16,784	285.99	367.91	227.01	(154.60, 299.42)
Upshur	141	29,849	472.38	328.73	419.65**	(362.18, 477.13)
Upton	Less than 5					
Uvalde	74	19,615	377.26	333.11	330.75	(260.35, 401.14)
Val Verde	35	34,398	101.75	349.38	85.03*	(33.13, 136.93)
Van Zandt	140	42,097	332.57	359.20	270.38	(224.10, 316.66)
Victoria	324	64,596	501.58	316.60	462.65**	(422.85, 502.46)
Walker	169	54,283	311.33	221.81	409.90**	(358.00, 461.81)
Waller	42	27,291	153.90	245.51	183.07*	(113.48, 252.65)
Ward	5	7,732	64.67	355.09	53.18*	(0.00, 161.79)
Washington	27	25,446	106.11	380.64	81.40*	(23.62, 139.19)
Webb	553	149,300	370.40	240.98	448.80**	(418.77, 478.82)
Wharton	97	31,180	311.10	326.38	278.37	(221.95, 334.79)
Wheeler	12	3,874	309.76	428.85	210.88	(71.39, 350.37)
Wichita	568	96,264	590.04	309.55	556.66**	(523.69, 589.63)
Wilbarger	16	10,671	149.94	352.41	124.24*	(31.47, 217.01)
Willacy	44	14,825	296.80	301.37	287.59	(202.44, 372.74)
Williamson	555	264,138	210.12	231.97	264.52*	(241.51, 287.54)
Wilson	81	30,027	269.76	283.41	277.96	(216.24, 339.69)
Winkler	16	4,980	321.29	343.53	273.02	(135.49, 410.54)
Wise	201	45,104	445.64	264.41	491.42**	(439.30, 543.55)
Wood	205	34,584	592.76	408.83	423.42**	(375.58, 471.26)
Yoakum	Less than 5					

Texas Health Care Information Collection
Bacterial Pneumonia Admission Rate, 2008

Rates not calculated for counties with fewer than 5 admissions

* Risk-adjusted admission rate is significantly lower than state average rate based on 95 percent confidence interval

** Risk-adjusted admission rate is significantly higher than state average rate based on 95 percent confidence interval

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	95% Confidence Interval for Risk-Adjusted Admissions
Young	14	14,276	98.07	403.93	70.90*	(0.00, 145.80)
Zapata	51	9,432	540.71	334.67	471.59**	(370.37, 572.81)
Zavala	7	8,453	82.81	286.28	84.48*	(0.00, 200.21)