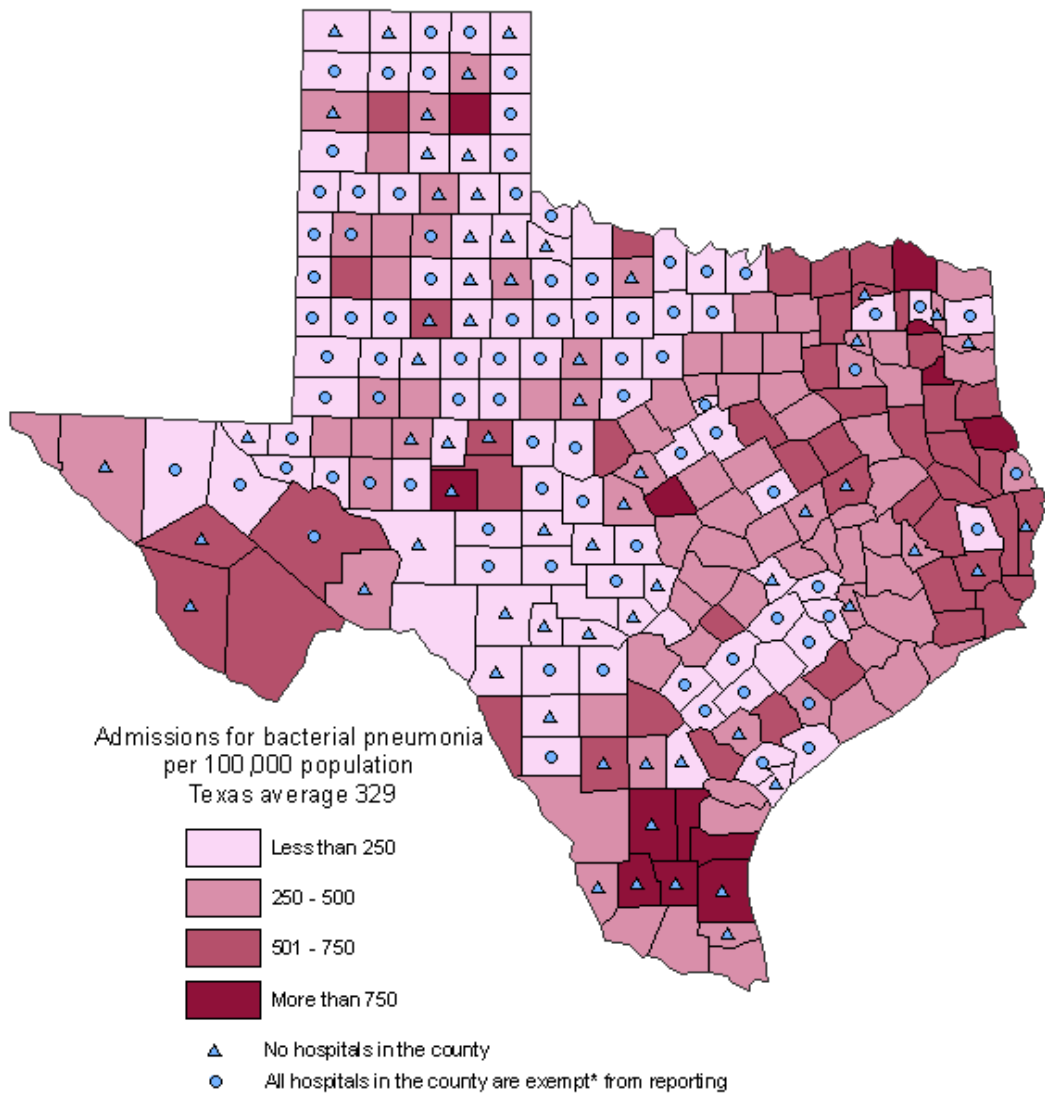


1. Bacterial Pneumonia

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.



*THCIC collects data from most Texas hospitals. Some hospitals are statutorily exempt from reporting (see introduction for details).



Source: Department of State Health Services, Center for Health Statistics, Texas Health Care Information Collection. Texas Inpatient Hospital Discharge Data, 2002.

1. Bacterial Pneumonia, page 2

Includes data from most Texas hospitals. Some hospitals are statutorily exempt from reporting to THIC.

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Anderson	237	54,585	434.2	440.0 **	(373.8, 506.3)
Andrews	13	12,951	100.4	110.2 *	(42.0, 178.4)
Angelina	508	80,582	630.4	623.3 **	(558.4, 688.1)
Aransas	82	22,928	357.6	242.7 *	(166.6, 318.7)
Archer	31	8,996	344.6	331.1	(189.3, 472.8)
Armstrong	Less than 5	2,145			
Atascosa	251	40,948	613.0	645.7 **	(553.1, 738.4)
Austin	60	24,596	243.9	191.8 *	(126.6, 257.1)
Bailey	8	6,480	123.5	72.9 *	(0.0, 151.3)
Bandera	53	19,153	276.7	216.4 *	(137.9, 295.0)
Bastrop	185	63,934	289.4	339.1	(285.3, 393.0)
Baylor	8	3,929	203.6	0.0 *	(0.0, 0.0)
Bee	149	32,277	461.6	507.4 **	(414.9, 600.0)
Bell	604	244,668	246.9	304.4 *	(278.3, 330.4)
Bexar	4,048	1,446,333	279.9	318.6 *	(307.6, 329.5)
Blanco	14	8,866	157.9	79.3 *	(9.3, 149.2)
Borden	Less than 5	701			
Bosque	35	17,535	199.6	37.8 *	(3.4, 72.1)
Bowie	456	89,894	507.3	476.5 **	(422.7, 530.2)
Brazoria	812	257,256	315.6	383.6	(355.0, 412.1)
Brazos	366	156,099	234.5	324.0 *	(290.4, 357.7)
Brewster	68	9,009	754.8	716.3 **	(508.4, 924.2)
Briscoe	7	1,716	407.9	305.4	(0.0, 617.2)
Brooks	140	7,766	1802.7	1773.7 **	(1423.2, 2124.1)
Brown	258	37,957	679.7	603.5 **	(510.5, 696.6)
Burleson	78	16,874	462.2	394.2	(281.3, 507.0)
Burnet	130	36,889	352.4	262.6 *	(200.3, 325.0)
Caldwell	178	35,050	507.8	509.7 **	(420.7, 598.7)
Calhoun	26	20,595	126.2	116.2 *	(60.6, 171.7)
Callahan	56	12,762	438.8	365.3	(240.4, 490.3)
Cameron	1,490	353,561	421.4	450.5 **	(424.1, 476.9)
Camp	146	11,643	1254.0	1194.3 **	(958.7, 1429.8)
Carson	23	6,582	349.4	284.0	(130.5, 437.5)
Cass	76	30,133	252.2	140.0 *	(89.6, 190.4)
Castro	18	8,075	222.9	218.8 *	(97.1, 340.5)
Chambers	130	27,244	477.2	538.8 **	(435.0, 642.6)
Cherokee	267	47,450	562.7	512.4 **	(435.7, 589.1)

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

1. Bacterial Pneumonia, page 3

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Childress	Less than 5	7,571			
Clay	10	11,396	87.8	29.6 *	(0.0, 67.3)
Cochran	9	3,482	258.5	215.8	(31.8, 399.8)
Coke	30	3,844	780.4	587.8	(299.3, 876.3)
Coleman	22	8,906	247.0	33.7 *	(0.0, 79.2)
Collin	967	566,798	170.6	294.3 *	(277.4, 311.1)
Collingsworth	8	3,103	257.8	50.9 *	(0.0, 145.7)
Colorado	32	20,384	157.0	44.5 *	(9.9, 79.1)
Comal	234	85,109	274.9	228.5 *	(190.2, 266.8)
Comanche	60	13,565	442.3	280.3	(174.1, 386.5)
Concho	6	3,854	155.7	102.8 *	(0.0, 223.6)
Cooke	52	37,634	138.2	98.0 *	(60.2, 135.7)
Coryell	185	74,495	248.3	367.7	(315.8, 419.6)
Cottle	Less than 5	1,797			
Crane	Less than 5	3,874			
Crockett	10	3,807	262.7	234.6	(51.1, 418.1)
Crosby	20	6,865	291.3	221.8 *	(88.9, 354.7)
Culberson	Less than 5	2,839			
Dallam	6	6,184	97.0	139.2 *	(28.3, 250.2)
Dallas	5,681	2,283,953	248.7	325.8 *	(317.0, 334.6)
Dawson	24	14,712	163.1	124.8 *	(56.7, 192.9)
Deaf Smith	27	18,396	146.8	145.2 *	(79.5, 210.9)
Delta	40	5,362	746.0	666.0 **	(406.1, 926.0)
Denton	887	488,481	181.6	311.6 *	(293.0, 330.3)
DeWitt	31	20,067	154.5	33.8 *	(3.4, 64.1)
Dickens	5	2,702	185.0	28.2 *	(0.0, 103.7)
Dimmit	14	10,200	137.3	134.4 *	(49.5, 219.3)
Donley	10	3,887	257.3	85.5 *	(0.0, 195.2)
Duval	176	12,811	1373.8	1342.8 **	(1104.8, 1580.7)
Eastland	42	18,210	230.6	83.7 *	(33.6, 133.9)
Ector	553	122,312	452.1	482.9 **	(436.5, 529.3)
Edwards	5	2,081	240.3	204.4	(0.0, 436.1)
Ellis	464	120,052	386.5	445.1 **	(400.1, 490.0)
El Paso	2,046	697,562	293.3	343.1 *	(326.8, 359.5)
Erath	160	33,077	483.7	453.0	(366.6, 539.4)
Falls	42	18,091	232.2	144.4 *	(78.4, 210.5)
Fannin	239	31,672	754.6	694.1 **	(584.9, 803.3)
Fayette	21	22,304	94.2	0.0 *	(0.0, 0.0)

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** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

1. Bacterial Pneumonia, page 4

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Fisher	13	4,246	306.2	92.5 *	(0.0, 201.7)
Floyd	26	7,455	348.8	269.5	(129.0, 410.0)
Foard	Less than 5	1,545			
Fort Bend	668	399,537	167.2	285.3 *	(265.5, 305.0)
Franklin	63	9,699	649.6	540.2	(366.0, 714.4)
Freestone	154	18,595	828.2	742.6 **	(595.3, 889.9)
Frio	51	16,249	313.9	346.3	(238.4, 454.1)
Gaines	12	14,312	83.8	121.4 *	(53.3, 189.6)
Galveston	961	261,219	367.9	393.4	(364.8, 422.1)
Garza	38	4,976	763.7	743.1 **	(458.2, 1027.9)
Gillespie	8	21,607	37.0	0.0 *	(0.0, 0.0)
Glasscock	5	1,369	365.2	408.6	(5.1, 812.0)
Goliad	32	7,075	452.3	360.7	(193.9, 527.5)
Gonzales	29	18,884	153.6	85.4 *	(35.6, 135.1)
Gray	365	22,088	1652.5	1540.1 **	(1346.2, 1733.9)
Grayson	743	113,860	652.6	601.8 **	(548.1, 655.4)
Gregg	873	113,255	770.8	753.9 **	(693.7, 814.0)
Grimes	98	24,740	396.1	376.9	(285.8, 468.1)
Guadalupe	270	94,215	286.6	306.4 *	(264.2, 348.5)
Hale	171	35,900	476.3	457.6 **	(374.2, 540.9)
Hall	Less than 5	3,662			
Hamilton	14	8,079	173.3	0.0 *	(0.0, 0.0)
Hansford	5	5,288	94.6	27.0 *	(0.0, 79.8)
Hardeman	Less than 5	4,490			
Hardin	311	48,988	634.8	646.0 **	(561.3, 730.7)
Harris	9,263	3,557,055	260.4	348.8 *	(341.5, 356.2)
Harrison	190	62,534	303.8	295.3 *	(244.6, 346.1)
Hartley	Less than 5	5,464			
Haskell	15	5,909	253.9	0.0 *	(0.0, 0.0)
Hays	226	109,570	206.3	292.6 *	(254.4, 330.8)
Hemphill	6	3,332	180.1	119.2 *	(0.0, 259.1)
Henderson	500	75,797	659.7	568.1 **	(504.2, 632.0)
Hidalgo	2,257	614,474	367.3	422.7 **	(403.4, 442.1)
Hill	222	33,701	658.7	567.7 **	(471.9, 663.5)
Hockley	164	22,838	718.1	708.4 **	(578.5, 838.2)
Hood	169	44,149	382.8	299.7 *	(238.9, 360.6)
Hopkins	36	32,299	111.5	61.4 *	(29.1, 93.6)
Houston	127	23,225	546.8	437.4	(336.1, 538.8)

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** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

1. Bacterial Pneumonia, page 5

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Howard	162	33,215	487.7	458.0**	(371.3, 544.7)
Hudspeth	10	3,341	299.3	351.4	(111.8, 591.0)
Hunt	401	79,361	505.3	504.8**	(445.9, 563.7)
Hutchinson	49	23,061	212.5	160.0*	(98.4, 221.6)
Irion	16	1,757	910.6	863.3	(346.9, 1379.8)
Jack	6	8,965	66.9	16.8*	(0.0, 48.8)
Jackson	65	14,364	452.5	385.0	(264.1, 505.9)
Jasper	210	35,776	587.0	546.9**	(455.7, 638.1)
Jeff Davis	15	2,211	678.4	586.0	(206.1, 965.8)
Jefferson	1,495	248,890	600.7	576.7**	(541.2, 612.2)
Jim Hogg	47	5,173	908.6	846.6**	(548.5, 1144.6)
Jim Wells	565	39,945	1414.4	1420.8**	(1282.2, 1559.3)
Johnson	585	136,332	429.1	475.3**	(431.7, 518.9)
Jones	44	20,284	216.9	195.1*	(122.6, 267.6)
Karnes	38	15,411	246.6	212.2*	(125.5, 298.9)
Kaufman	482	77,954	618.3	657.9**	(590.2, 725.7)
Kendall	60	25,390	236.3	209.7*	(142.5, 276.9)
Kenedy	Less than 5	419			
Kent	Less than 5	807			
Kerr	170	44,857	379.0	143.6*	(101.8, 185.4)
Kimble	5	4,502	111.1	0.0*	(0.0, 0.0)
King	Less than 5	333			
Kinney	7	3,447	203.1	22.0*	(0.0, 81.0)
Kleberg	367	31,145	1178.4	1202.6**	(1058.1, 1347.1)
Knox	5	4,061	123.1	0.0*	(0.0, 0.0)
Lamar	307	49,079	625.5	550.8**	(472.6, 628.9)
Lamb	52	14,662	354.7	252.5*	(155.5, 349.5)
Lampasas	148	18,846	785.3	751.4**	(604.2, 898.6)
La Salle	39	5,876	663.7	665.8**	(417.6, 914.1)
Lavaca	84	18,935	443.6	237.4*	(154.6, 320.1)
Lee	25	16,329	153.1	114.5*	(52.6, 176.4)
Leon	126	15,885	793.2	673.0**	(521.2, 824.8)
Liberty	481	73,739	652.3	696.9**	(625.2, 768.6)
Limestone	164	22,263	736.6	672.3**	(544.2, 800.5)
Lipscomb	Less than 5	3,103			
Live Oak	32	12,014	266.4	182.4*	(91.3, 273.4)
Llano	23	17,758	129.5	0.0*	(0.0, 0.0)
Loving	0	64	0.0	0.0*	(0.0, 0.0)

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** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

1. Bacterial Pneumonia, page 6

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Lubbock	1,156	247,574	466.9	489.1 **	(456.3, 521.9)
Lynn	7	6,325	110.7	86.3 *	(0.0, 172.8)
McCulloch	12	7,885	152.2	8.2 *	(0.0, 32.0)
McLennan	758	217,713	348.2	335.8 *	(306.8, 364.8)
McMullen	5	856	584.1	450.2	(0.0, 985.7)
Madison	66	13,105	503.6	464.5	(325.6, 603.5)
Marion	42	11,081	379.0	258.2	(145.4, 371.0)
Martin	18	4,673	385.2	363.4	(157.4, 569.3)
Mason	0	3,771	0.0	0.0 *	(0.0, 0.0)
Matagorda	127	37,954	334.6	333.4	(264.2, 402.6)
Maverick	248	48,651	509.8	565.1 **	(485.6, 644.7)
Medina	97	40,924	237.0	233.8 *	(177.9, 289.6)
Menard	Less than 5	2,329			
Midland	366	117,669	311.0	324.9 *	(286.1, 363.7)
Milam	98	24,880	393.9	312.3	(229.5, 395.1)
Mills	32	5,133	623.4	381.1	(179.8, 582.3)
Mitchell	9	9,348	96.3	52.0 *	(0.0, 107.2)
Montague	25	19,237	130.0	3.7 *	(0.0, 14.0)
Montgomery	1,098	328,449	334.3	404.5 **	(378.6, 430.4)
Moore	23	20,350	113.0	149.6 *	(86.2, 213.0)
Morris	50	13,240	377.6	290.8	(181.3, 400.3)
Motley	Less than 5	1,336			
Nacogdoches	344	59,514	578.0	578.4 **	(505.7, 651.2)
Navarro	203	46,792	433.8	400.3	(332.0, 468.6)
Newton	79	14,946	528.6	502.0	(366.7, 637.2)
Nolan	17	15,172	112.0	24.4 *	(0.0, 54.0)
Nueces	1,136	314,696	361.0	380.6	(354.9, 406.3)
Ochiltree	8	9,048	88.4	107.6 *	(27.0, 188.3)
Oldham	6	2,156	278.3	299.2	(23.9, 574.4)
Orange	636	84,364	753.9	749.2 **	(679.8, 818.7)
Palo Pinto	22	27,306	80.6	3.9 *	(0.0, 12.7)
Panola	166	22,734	730.2	664.1 **	(538.1, 790.2)
Parker	328	94,618	346.7	384.6	(337.5, 431.7)
Parmer	11	9,877	111.4	90.7 *	(19.8, 161.6)
Pecos	118	16,421	718.6	732.0 **	(576.3, 887.7)
Polk	286	44,449	643.4	554.5 **	(472.1, 636.9)
Potter	608	116,093	523.7	527.5 **	(477.8, 577.3)
Presidio	47	7,681	611.9	575.9 **	(373.8, 777.9)

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

1. Bacterial Pneumonia, page 7

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Rains	42	10,236	410.3	370.3	(229.8, 510.8)
Randall	411	106,822	384.8	397.1	(352.1, 442.1)
Reagan	6	3,182	188.6	221.4	(26.4, 416.4)
Real	5	2,999	166.7	7.0 *	(0.0, 42.7)
Red River	166	13,941	1190.7	1037.8 **	(836.9, 1238.6)
Reeves	18	12,478	144.3	130.8 *	(55.1, 206.5)
Refugio	25	7,724	323.7	239.8	(109.6, 370.1)
Roberts	Less than 5	857			
Robertson	66	16,044	411.4	325.8	(220.5, 431.1)
Rockwall	174	50,858	342.1	416.1	(349.3, 482.9)
Runnels	44	11,123	395.6	245.7 *	(135.9, 355.5)
Rusk	355	47,541	746.7	679.6 **	(591.5, 767.8)
Sabine	60	10,370	578.6	375.3	(234.8, 515.8)
San Augustine	72	8,922	807.0	623.4 **	(428.4, 818.4)
San Jacinto	124	23,247	533.4	487.8 **	(380.9, 594.7)
San Patricio	244	67,492	361.5	398.1	(341.4, 454.8)
San Saba	35	6,148	569.3	379.0	(195.6, 562.4)
Schleicher	8	2,944	271.7	185.8	(0.1, 371.6)
Scurry	17	15,877	107.1	49.1 *	(8.0, 90.2)
Shackelford	13	3,338	389.5	282.6	(67.6, 497.6)
Shelby	272	25,439	1069.2	999.6 **	(853.6, 1145.5)
Sherman	6	3,285	182.6	148.7 *	(0.0, 306.1)
Smith	726	181,437	400.1	366.2	(333.0, 399.4)
Somervell	11	7,224	152.3	117.9 *	(23.4, 212.3)
Starr	179	56,686	315.8	389.8	(328.6, 451.1)
Stephens	8	9,453	84.6	0.0 *	(0.0, 0.0)
Sterling	0	1,346	0.0	0.0 *	(0.0, 0.0)
Stonewall	Less than 5	1,493			
Sutton	9	4,117	218.6	222.4	(50.6, 394.2)
Swisher	20	8,082	247.5	166.9 *	(60.6, 273.1)
Tarrant	3,612	1,527,366	236.5	310.5 *	(300.0, 321.0)
Taylor	506	125,647	402.7	393.8	(352.5, 435.2)
Terrell	Less than 5	998			
Terry	20	12,723	157.2	109.1 *	(40.6, 177.6)
Throckmorton	Less than 5	1,711			
Titus	16	28,405	56.3	56.2 *	(23.3, 89.1)
Tom Green	628	103,018	609.6	579.5 **	(524.2, 634.8)
Travis	1,391	850,813	163.5	260.5 *	(247.6, 273.5)

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

1. Bacterial Pneumonia, page 8

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	70,156	21,779,893	322.1	367.0	
Trinity	115	14,088	816.3	661.3**	(501.5, 821.1)
Tyler	57	20,743	274.8	189.9*	(119.2, 260.6)
Upshur	194	36,499	531.5	501.0**	(414.5, 587.5)
Upton	10	3,287	304.2	267.5	(56.7, 478.3)
Uvalde	12	26,508	45.3	15.6*	(0.0, 33.5)
Val Verde	106	45,903	230.9	245.2*	(191.1, 299.2)
Van Zandt	255	50,124	508.7	434.1	(365.4, 502.8)
Victoria	593	84,932	698.2	704.7**	(637.5, 771.9)
Walker	268	62,388	429.6	484.9**	(419.8, 550.0)
Waller	91	34,057	267.2	318.4	(247.0, 389.8)
Ward	10	10,507	95.2	53.6*	(0.8, 106.5)
Washington	18	30,626	58.8	0.0*	(0.0, 0.0)
Webb	802	207,611	386.3	476.4**	(441.1, 511.8)
Wharton	248	41,329	600.1	566.1**	(479.8, 652.5)
Wheeler	9	5,022	179.2	0.0*	(0.0, 0.0)
Wichita	769	129,964	591.7	583.9**	(534.4, 633.3)
Wilbarger	26	14,027	185.4	88.5*	(29.7, 147.2)
Willacy	81	19,990	405.2	424.7	(317.0, 532.3)
Williamson	557	289,924	192.1	284.1*	(261.0, 307.2)
Wilson	48	34,548	138.9	154.9*	(105.4, 204.4)
Winkler	5	6,892	72.5	38.9*	(0.0, 94.5)
Wise	60	52,926	113.4	158.0*	(117.6, 198.4)
Wood	238	38,053	625.4	485.3**	(402.0, 568.7)
Yoakum	Less than 5	7,305			
Young	7	17,725	39.5	0.0*	(0.0, 0.0)
Zapata	48	12,788	375.4	358.2	(234.6, 481.8)
Zavala	5	11,556	43.3	76.5*	(16.3, 136.7)

Source: Department of State Health Services, Center for Health Statistics, Texas Health Care Information Collection. Texas Inpatient Hospital Discharge Data, 2002.

* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.