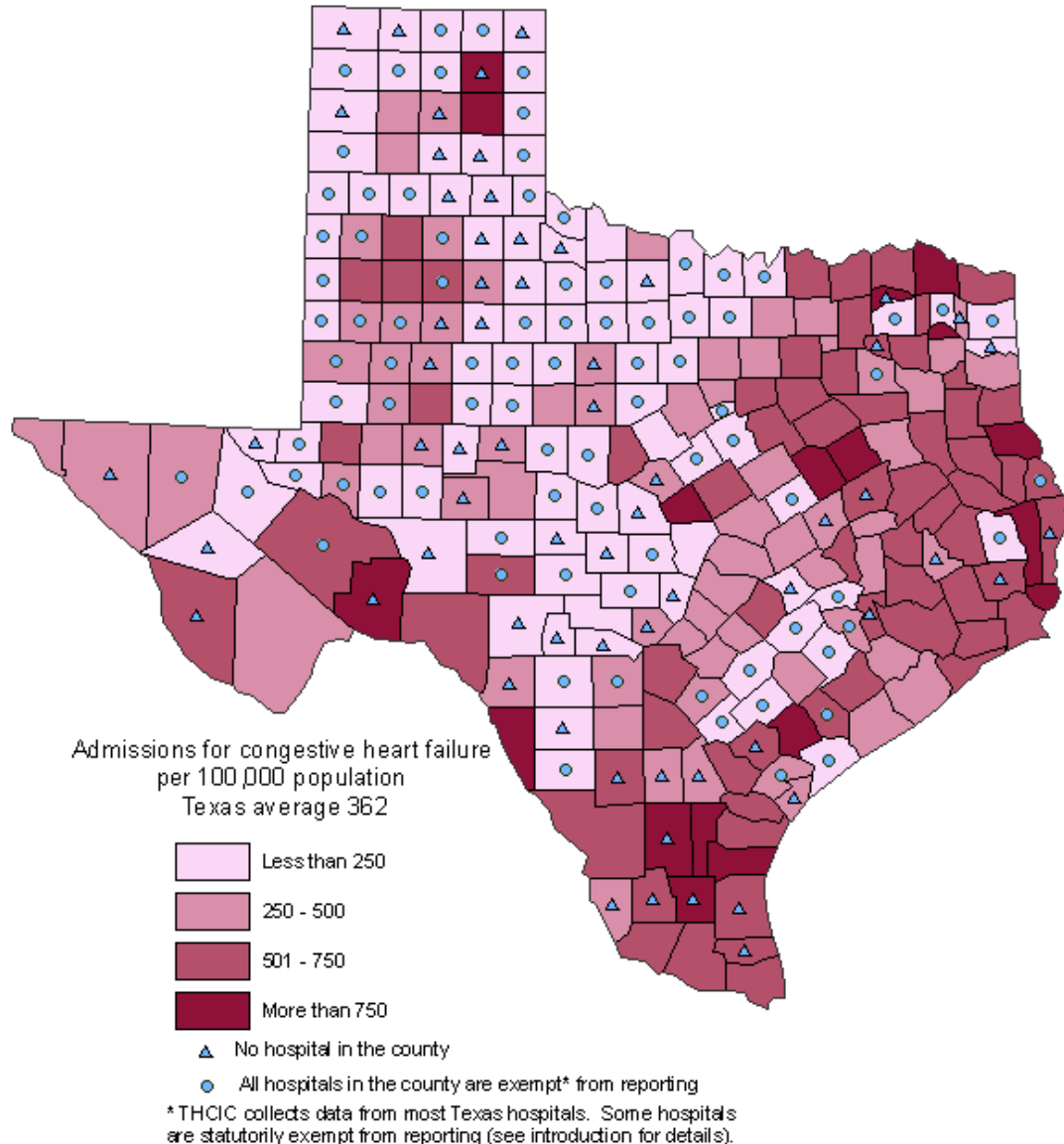


## 8. Congestive Heart Failure

CHF is one of the most common and severe heart diseases affecting Americans, and one of the most common reasons for hospitalization. Congestion is the presence of an abnormal amount of fluid in the tissues, usually because of limitations in the body's ability to return the flow of blood from the arms or legs to the heart and lungs. Though CHF has many possible underlying causes, the end result is an inability of the heart muscle to function well enough to meet the demands of the rest of the body. Nonetheless, it is a serious disorder that may lead to a reduced life expectancy. Hospitalization may be required if symptoms such as shortness of breath and leg swelling are severe or unstable.



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

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Anderson	167	43,138	387.1	441.6	(366.9, 516.3)
Andrews	20	9,026	221.6	206.9 *	(95.0, 318.8)
Angelina	368	58,616	627.8	630.5 **	(554.0, 707.0)
Aransas	90	17,723	507.8	321.2 *	(221.8, 420.7)
Archer	18	6,641	271.1	238.2 *	(98.2, 378.2)
Armstrong	7	1,594	439.0	122.9 *	(0.0, 328.2)
Atascosa	176	28,584	615.7	678.2 **	(564.6, 791.7)
Austin	89	18,205	488.9	406.3	(295.9, 516.6)
Bailey	15	4,544	330.1	211.5 *	(52.0, 371.0)
Bandera	47	14,679	320.2	225.3 *	(133.7, 316.9)
Bastrop	206	46,630	441.8	544.5	(464.7, 624.2)
Baylor	Less than 5				
Bee	142	24,775	573.2	699.1 **	(575.2, 822.9)
Bell	478	170,238	280.8	395.4 *	(359.8, 431.0)
Bexar	4,464	1,035,771	431.0	511.0	(494.6, 527.4)
Blanco	10	6,775	147.6	13.5 *	(0.0, 46.5)
Borden	Less than 5				
Bosque	20	13,430	148.9	0.0 *	(0.0, 0.0)
Bowie	477	67,967	701.8	678.1 **	(604.4, 751.8)
Brazoria	673	185,574	362.7	495.4	(457.2, 533.5)
Brazos	359	119,106	301.4	531.7	(482.3, 581.0)
Brewster	29	6,956	416.9	382.3	(209.2, 555.5)
Briscoe	Less than 5				
Brooks	64	5,331	1200.4	1156.6 **	(813.9, 1499.2)
Brown	195	28,238	690.6	572.8	(467.7, 677.9)
Burleson	60	12,417	483.2	363.3 *	(237.0, 489.7)
Burnet	104	28,101	370.1	226.1 *	(159.8, 292.4)
Caldwell	123	25,382	484.6	499.4	(395.9, 603.0)
Calhoun	27	14,758	182.9	150.8 *	(76.1, 225.5)
Callahan	45	9,632	467.2	338.9 *	(200.4, 477.5)
Cameron	1,299	235,345	552.0	595.1 **	(558.0, 632.2)
Camp	72	8,511	845.9	753.0 **	(533.7, 972.2)
Carson	24	4,845	495.3	372.0	(167.3, 576.6)
Cass	97	23,061	420.6	235.3 *	(160.6, 310.0)
Castro	15	5,473	274.1	221.5 *	(72.8, 370.2)
Chambers	92	19,839	463.7	588.2	(461.2, 715.3)
Cherokee	204	35,003	582.8	506.0	(417.3, 594.8)

\* 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.

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Childress	6	5,850	102.6	10.7 *	(0.0, 42.4)
Clay	18	8,736	206.1	109.9 *	(27.0, 192.9)
Cochran	5	2,464	202.9	78.6 *	(0.0, 210.6)
Coke	18	2,918	616.9	267.1 *	(43.5, 490.7)
Coleman	22	6,797	323.7	0.0 *	(0.0, 0.0)
Collin	734	407,343	180.2	418.3 *	(394.6, 441.9)
Collingsworth	5	2,327	214.9	0.0 *	(0.0, 0.0)
Colorado	52	15,221	341.6	139.6 *	(68.8, 210.4)
Comal	289	64,269	449.7	382.8 *	(325.8, 439.8)
Comanche	53	10,189	520.2	238.9 *	(125.8, 352.1)
Concho	8	3,242	246.8	223.8 *	(29.6, 417.9)
Cooke	72	27,637	260.5	179.4 *	(119.9, 239.0)
Coryell	156	53,703	290.5	542.5	(468.4, 616.7)
Cottle	Less than 5				
Crane	9	2,726	330.2	324.1	(69.3, 578.8)
Crockett	Less than 5				
Crosby	39	4,788	814.5	679.1	(401.3, 956.8)
Culberson	5	1,949	256.6	293.2	(6.6, 579.8)
Dallam	6	4,214	142.4	194.3 *	(35.6, 353.0)
Dallas	6,326	1,643,801	384.8	542.9 **	(529.5, 556.3)
Dawson	42	11,000	381.8	323.4 *	(196.7, 450.0)
Deaf Smith	29	12,328	235.2	192.7 *	(100.2, 285.1)
Delta	43	4,042	1063.7	955.5 **	(597.4, 1313.5)
Denton	750	353,299	212.3	470.2 *	(443.3, 497.1)
DeWitt	35	15,462	226.4	24.7 *	(0.0, 54.2)
Dickens	10	2,222	450.0	258.5	(6.4, 510.6)
Dimmit	9	6,983	128.9	79.9 *	(0.8, 159.0)
Donley	10	2,968	336.9	41.0 *	(0.0, 127.9)
Duval	109	9,215	1182.9	1155.2 **	(894.7, 1415.7)
Eastland	42	13,945	301.2	41.8 *	(1.3, 82.4)
Ector	446	85,954	518.9	577.6 **	(517.1, 638.0)
Edwards	5	1,499	333.5	241.1	(0.0, 537.4)
Ellis	376	85,378	440.4	553.5	(494.1, 612.9)
El Paso	1,639	477,015	343.6	424.9 *	(402.8, 446.9)
Erath	94	24,840	378.4	351.0 *	(263.2, 438.8)
Falls	44	13,263	331.8	161.8 *	(80.1, 243.4)
Fannin	189	24,427	773.7	705.1 **	(579.8, 830.4)
Fayette	24	17,323	138.5	0.0 *	(0.0, 0.0)

\* 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.

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Fisher	Less than 5				
Floyd	32	5,153	620.9	444.9	(228.0, 661.9)
Foard	Less than 5				
Fort Bend	655	280,801	233.3	449.4 *	(419.8, 478.9)
Franklin	53	7,503	706.3	541.8	(343.5, 740.1)
Freestone	147	14,342	1024.9	927.0 **	(739.8, 1114.3)
Frio	33	11,665	282.9	346.1 *	(218.9, 473.4)
Gaines	24	9,500	252.6	280.2 *	(153.3, 407.1)
Galveston	1,252	192,663	649.8	718.5 **	(673.5, 763.6)
Garza	18	3,592	501.2	458.6	(194.8, 722.5)
Gillespie	25	17,152	145.8	0.0 *	(0.0, 0.0)
Glasscock	Less than 5				
Goliad	35	5,395	648.8	510.1	(283.2, 737.1)
Gonzales	34	13,762	247.1	109.5 *	(43.5, 175.5)
Gray	186	16,812	1106.4	948.7 **	(773.8, 1123.7)
Grayson	552	85,244	647.5	579.4 **	(518.6, 640.2)
Gregg	548	83,114	659.3	647.7 **	(582.6, 712.8)
Grimes	81	18,780	431.3	420.4	(309.9, 530.9)
Guadalupe	254	68,383	371.4	410.2 *	(353.0, 467.4)
Hale	185	25,011	739.7	709.0 **	(584.9, 833.2)
Hall	6	2,673	224.5	0.0 *	(0.0, 0.0)
Hamilton	14	6,224	224.9	0.0 *	(0.0, 0.0)
Hansford	7	3,785	185.0	30.7 *	(0.0, 97.3)
Hardeman	8	3,381	236.6	0.0 *	(0.0, 0.0)
Hardin	203	36,046	563.2	596.9	(501.9, 691.8)
Harris	9,640	2,536,612	380.0	556.0 **	(545.1, 567.0)
Harrison	168	46,213	363.5	353.2 *	(288.6, 417.8)
Hartley	.	4,347	0.0	19.0 *	(0.0, 67.9)
Haskell	8	4,562	175.4	0.0 *	(0.0, 0.0)
Hays	172	81,634	210.7	396.2 *	(344.7, 447.6)
Hemphill	Less than 5				
Henderson	371	57,676	643.2	502.5	(433.6, 571.4)
Hidalgo	2,163	399,745	541.1	637.9 **	(608.5, 667.4)
Hill	179	25,148	711.8	567.6	(456.7, 678.4)
Hockley	98	16,286	601.7	590.7	(450.2, 731.3)
Hood	152	34,183	444.7	316.3 *	(245.3, 387.4)
Hopkins	27	24,081	112.1	18.6 *	(0.0, 39.1)
Houston	160	18,038	887.0	733.4 **	(584.7, 882.1)

\* 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.

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Howard	165	25,186	655.1	631.3 **	(514.5, 748.1)
Hudspeth	7	2,277	307.4	370.7	(72.7, 668.7)
Hunt	377	58,713	642.1	664.0 **	(585.6, 742.5)
Hutchinson	29	16,843	172.2	60.1 *	(15.9, 104.3)
Irion	5	1,332	375.4	300.4	(0.0, 651.3)
Jack	12	6,865	174.8	101.4 *	(11.5, 191.3)
Jackson	72	10,541	683.1	576.7	(404.2, 749.3)
Jasper	224	26,493	845.5	793.6 **	(666.1, 921.2)
Jeff Davis	Less than 5				
Jefferson	1,392	185,485	750.5	736.5 **	(690.0, 782.9)
Jim Hogg	26	3,615	719.2	592.6	(293.9, 891.4)
Jim Wells	252	27,926	902.4	925.1 **	(791.0, 1059.2)
Johnson	536	98,667	543.2	641.1 **	(581.7, 700.6)
Jones	33	15,889	207.7	192.6 *	(111.2, 274.0)
Karnes	20	12,061	165.8	138.6 *	(59.3, 217.8)
Kaufman	370	56,241	657.9	746.0 **	(661.1, 830.9)
Kendall	76	18,814	404.0	357.3 *	(255.5, 459.1)
Kenedy	Less than 5				
Kent	Less than 5				
Kerr	215	34,935	615.4	233.9 *	(173.4, 294.3)
Kimble	Less than 5				
King	.	226	0.0	0.0 *	(0.0, 0.0)
Kinney	17	2,620	648.9	334.6	(70.6, 598.7)
Kleberg	182	22,497	809.0	890.5 **	(743.9, 1037.0)
Knox	6	2,945	203.7	0.0 *	(0.0, 0.0)
Lamar	274	36,376	753.2	639.0 **	(541.3, 736.8)
Lamb	71	10,482	677.4	489.1	(329.6, 648.5)
Lampasas	138	13,929	990.7	960.5 **	(767.1, 1153.9)
La Salle	28	4,194	667.7	686.3	(388.0, 984.6)
Lavaca	104	14,531	715.7	377.6 *	(258.5, 496.7)
Lee	24	11,738	204.5	112.5 *	(40.1, 184.9)
Leon	90	12,162	740.0	552.1	(394.9, 709.3)
Liberty	344	53,939	637.8	741.6 **	(655.1, 828.0)
Limestone	181	16,720	1082.5	1008.8 **	(828.0, 1189.7)
Lipscomb	Less than 5				
Live Oak	54	9,489	569.1	465.3	(301.8, 628.7)
Llano	17	14,886	114.2	0.0 *	(0.0, 0.0)
Loving	.	53	0.0	0.0 *	(0.0, 0.0)

\* 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.

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Lubbock	945	182,713	517.2	589.1 **	(547.2, 631.0)
Lynn	24	4,453	539.0	476.8	(235.2, 718.4)
McCulloch	Less than 5				
McLennan	582	158,695	366.7	356.5 *	(321.5, 391.5)
McMullen	Less than 5				
Madison	33	10,290	320.7	301.3 *	(174.9, 427.8)
Marion	33	8,649	381.6	193.9 *	(83.2, 304.5)
Martin	16	3,187	502.1	427.0	(156.7, 697.3)
Mason	5	2,966	168.6	0.0 *	(0.0, 0.0)
Matagorda	108	27,046	399.3	387.7 *	(299.3, 476.1)
Maverick	273	31,350	870.8	970.0 **	(840.5, 1099.5)
Medina	102	29,570	344.9	336.2 *	(257.4, 415.0)
Menard	Less than 5				
Midland	277	83,377	332.2	348.1 *	(300.4, 395.9)
Milam	87	18,176	478.6	327.0 *	(227.9, 426.1)
Mills	27	3,902	692.0	283.0 *	(84.0, 482.0)
Mitchell	16	7,462	214.4	169.1 *	(57.8, 280.4)
Montague	24	14,659	163.7	0.0 *	(0.0, 0.0)
Montgomery	962	235,981	407.7	542.6 **	(507.2, 578.0)
Moore	11	13,589	80.9	106.3 *	(40.9, 171.7)
Morris	48	9,993	480.3	329.9 *	(195.6, 464.1)
Motley	Less than 5				
Nacogdoches	266	44,171	602.2	641.2 **	(552.4, 730.1)
Navarro	211	34,083	619.1	571.7	(476.2, 667.3)
Newton	73	11,243	649.3	623.7	(450.0, 797.5)
Nolan	22	11,127	197.7	24.2 *	(0.0, 58.8)
Nueces	1,268	226,363	560.2	608.3 **	(570.0, 646.5)
Ochiltree	Less than 5				
Oldham	Less than 5				
Orange	496	62,309	796.0	810.0 **	(726.0, 894.1)
Palo Pinto	14	20,341	68.8	0.0 *	(0.0, 0.0)
Panola	121	17,129	706.4	613.6	(474.0, 753.2)
Parker	196	70,020	279.9	352.3 *	(299.9, 404.7)
Parmer	6	6,711	89.4	0.0 *	(0.0, 0.0)
Pecos	76	12,025	632.0	686.9 **	(510.6, 863.1)
Polk	219	34,454	635.6	513.5	(423.4, 603.6)
Potter	330	82,935	397.9	411.1 *	(359.1, 463.1)
Presidio	36	5,215	690.3	607.9	(356.0, 859.8)

\* 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.

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Rains	47	7,891	595.6	551.9	(356.7, 747.0)
Randall	191	79,598	240.0	271.6 *	(228.4, 314.7)
Reagan	Less than 5				
Real	6	2,314	259.3	0.0 *	(0.0, 0.0)
Red River	164	10,665	1537.8	1329.5 **	(1070.0, 1589.0)
Reeves	19	8,875	214.1	168.6 *	(66.7, 270.6)
Refugio	27	5,760	468.7	319.9 *	(145.8, 494.0)
Roberts	8	656	1219.1	1164.3	(184.4, 2144.2)
Robertson	71	11,532	615.7	456.2	(309.4, 603.0)
Rockwall	101	36,507	276.7	412.1 *	(333.7, 490.6)
Runnels	17	8,259	205.8	0.0 *	(0.0, 0.0)
Rusk	281	36,131	777.7	692.7 **	(590.6, 794.8)
Sabine	67	8,224	814.7	502.9	(320.4, 685.4)
San Augustine	63	6,821	923.6	629.6	(405.5, 853.7)
San Jacinto	88	17,626	499.3	431.6	(316.1, 547.1)
San Patricio	304	46,738	650.4	720.4 **	(628.9, 812.0)
San Saba	26	4,509	576.7	208.7 *	(49.6, 367.7)
Schleicher	Less than 5				
Scurry	18	11,887	151.4	44.4 *	(0.0, 89.6)
Shackelford	13	2,514	517.0	329.8	(62.3, 597.4)
Shelby	183	18,820	972.4	873.8 **	(715.0, 1032.5)
Sherman	Less than 5				
Smith	717	133,789	535.9	488.4	(443.8, 533.0)
Somervell	Less than 5				
Starr	166	35,840	463.2	581.9	(487.9, 675.9)
Stephens	12	7,187	167.0	0.0 *	(0.0, 0.0)
Sterling	Less than 5				
Stonewall	Less than 5				
Sutton	16	2,975	537.8	541.0	(226.3, 855.7)
Swisher	12	5,848	205.2	40.1 *	(0.0, 101.3)
Tarrant	3,682	1,099,370	334.9	482.2 *	(466.8, 497.7)
Taylor	365	91,077	400.8	394.2 *	(345.6, 442.8)
Terrell	7	750	933.1	823.8	(51.6, 1596.0)
Terry	49	9,212	531.9	448.7	(285.8, 611.6)
Throckmorton	Less than 5				
Titus	25	19,781	126.4	101.8 *	(48.7, 154.8)
Tom Green	336	75,815	443.2	403.9 *	(350.0, 457.8)
Travis	1,446	642,139	225.2	436.5 *	(417.3, 455.8)

\* 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.

## 8. Congestive Heart Failure, 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	64,466	15,678,989	411.2	504.9	
Trinity	96	10,906	880.2	644.0	(464.8, 823.2)
Tyler	57	16,011	356.0	225.5 *	(137.8, 313.3)
Upshur	119	27,088	439.3	390.0 *	(301.4, 478.7)
Upton	7	2,387	293.3	204.4 *	(0.0, 420.7)
Uvalde	23	18,332	125.5	37.2 *	(3.9, 70.5)
Val Verde	166	31,441	528.0	543.4	(446.4, 640.4)
Van Zandt	196	37,894	517.2	395.3 *	(319.9, 470.8)
Victoria	503	60,919	825.7	856.1 **	(768.7, 943.4)
Walker	205	49,815	411.5	570.3	(491.3, 649.2)
Waller	113	24,817	455.3	571.6	(459.6, 683.6)
Ward	14	7,418	188.7	71.2 *	(0.0, 143.7)
Washington	24	23,012	104.3	0.0 *	(0.0, 0.0)
Webb	716	132,563	540.1	705.4 **	(651.6, 759.2)
Wharton	204	29,827	684.0	630.7 **	(523.5, 738.0)
Wheeler	11	3,833	287.0	0.0 *	(0.0, 0.0)
Wichita	425	95,608	444.5	445.5 *	(395.1, 496.0)
Wilbarger	15	10,173	147.4	0.0 *	(0.0, 0.0)
Willacy	78	13,805	565.0	602.0	(447.9, 756.0)
Williamson	457	205,348	222.5	395.7 *	(363.3, 428.1)
Wilson	61	24,929	244.7	266.2 *	(189.8, 342.6)
Winkler	15	4,964	302.2	225.4 *	(67.9, 382.9)
Wise	30	38,498	77.9	149.7 *	(103.6, 195.8)
Wood	225	29,859	753.5	542.5	(443.1, 642.0)
Yoakum	9	5,067	177.6	156.6 *	(26.6, 286.6)
Young	9	13,408	67.1	0.0 *	(0.0, 0.0)
Zapata	41	8,655	473.7	420.0	(257.3, 582.7)
Zavala	10	7,765	128.8	149.7 *	(47.0, 252.4)

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.