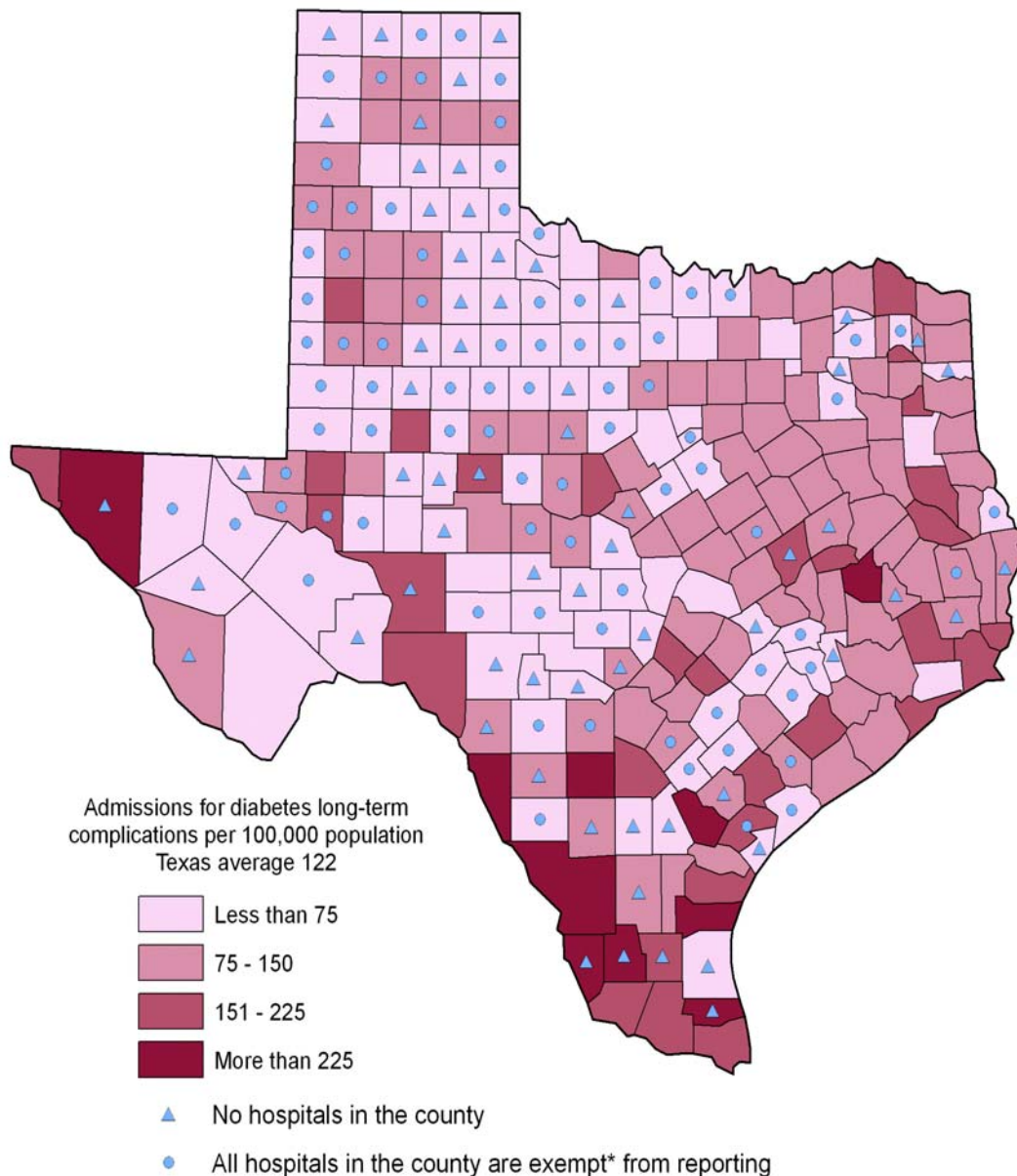


12. Diabetes Long-Term Complication

People with diabetes are at risk of developing long-term complications from the disease including damage to the eyes, kidneys and nerves. They are also at increased risk of developing cardiovascular disease, including coronary heart disease, stroke, and peripheral vascular disease. Long-term diabetes complications are thought to arise from sustained long-term poor control of diabetes.



* 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 Hospital Inpatient Discharge Public Use Data File, 2005.*

Table 12. Diabetes Long-Term Complication Admission Rate

Includes data from most Texas hospitals. Some hospitals are statutorily exempt from reporting to Department of State Health Services.

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	20,592	16,501,931	124.79	105.61	122.23	
Anderson	64	45,261	141.40	106.19	137.75	(108.5, 167.0)
Andrews	Less Than Five					
Angelina	112	60,254	185.88	119.23	161.27**	(137.4, 185.2)
Aransas	17	19,078	89.11	149.99	61.46*	(23.60, 99.31)
Archer	5	7,091	70.51	124.52	58.57	(0.00, 126.7)
Armstrong	Less Than Five					
Atascosa	69	30,686	224.86	111.55	208.52	(173.9, 243.1)
Austin	13	19,570	66.43	127.26	53.99*	(13.41, 94.57)
Bailey	Less Than Five					
Bandera	13	15,486	83.95	135.88	63.91*	(19.76, 108.1)
Bastrop	79	51,151	154.44	107.69	148.35	(121.1, 175.6)
Baylor	Less Than Five					
Bee	72	26,360	273.14	95.19	296.83**	(256.4, 337.3)
Bell	154	175,017	87.99	99.82	91.19*	(75.86, 106.5)
Bexar	1,634	1,092,266	149.60	107.02	144.60**	(138.7, 150.5)
Blanco	Less Than Five					
Borden	Less Than Five					
Bosque	5	14,055	35.57	145.49	25.29*	(0.00, 70.07)
Bowie	97	69,675	139.22	119.49	120.52	(98.33, 142.7)
Brazoria	215	199,288	107.88	103.43	107.90*	(93.79, 122.0)
Brazos	86	124,256	69.21	74.52	96.08*	(75.03, 117.1)
Brewster	5	7,357	67.96	118.65	59.25	(0.00, 127.8)
Briscoe	Less Than Five					
Brooks	15	5,509	272.28	133.41	211.12**	(136.4, 285.8)
Brown	58	29,107	199.26	130.13	158.40**	(125.5, 191.3)
Burleson	17	13,003	130.74	132.50	102.07	(53.28, 150.9)
Burnet	27	31,775	84.97	143.66	61.19*	(31.21, 91.16)
Caldwell	56	26,939	207.88	110.94	193.83**	(156.8, 230.9)
Calhoun	14	15,022	93.20	128.66	74.93*	(28.87, 121.0)
Callahan	15	10,446	143.60	137.69	107.88	(54.48, 161.3)
Cameron	524	249,884	209.70	109.18	198.68**	(186.4, 210.9)
Camp	21	8,877	236.57	133.33	183.54**	(124.7, 242.4)
Carson	8	4,904	163.13	134.53	125.44	(46.59, 204.3)
Cass	24	23,437	102.40	140.91	75.17*	(39.94, 110.4)
Castro	5	5,364	93.21	127.24	75.78	(0.00, 153.3)
Chambers	12	21,167	56.69	105.30	55.69*	(12.79, 98.60)
Cherokee	37	36,027	102.70	124.61	85.25*	(55.03, 115.5)
Childress	Less Than Five					
Clay	Less Than Five					
Cochran	Less Than Five					
Coke	7	2,946	237.61	160.95	152.71	(59.73, 245.7)
Coleman	13	6,904	188.30	157.40	123.75	(62.32, 185.2)
Collin	268	460,207	58.23	90.83	66.32*	(56.42, 76.23)
Collingsworth	Less Than Five					
Colorado	11	16,002	68.74	137.74	51.63*	(8.49, 94.76)
Comal	68	71,006	95.77	124.46	79.59*	(58.05, 101.1)

* 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.

Table 12. Diabetes Long-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	20,592	16,501,931	124.79	105.61	122.23	
Comanche	22	10,508	209.36	148.66	145.68	(94.45, 196.9)
Concho	5	3,261	153.33	108.31	146.44	(38.68, 254.2)
Cooke	10	29,069	34.40	125.80	28.29*	(0.00, 61.78)
Coryell	43	56,205	76.51	77.05	102.72	(71.94, 133.5)
Cottle	Less Than Five					
Crane	5	2,798	178.70	120.80	153.02	(42.86, 263.2)
Crockett	7	2,972	235.53	130.34	186.92	(84.03, 289.8)
Crosby	8	4,815	166.15	137.95	124.59	(46.01, 203.2)
Culberson	Less Than Five					
Dallam	Less Than Five					
Dallas	1,956	1,666,566	117.37	98.15	123.70	(118.7, 128.7)
Dawson	9	11,076	81.26	121.21	69.35	(14.08, 124.6)
Deaf Smith	12	12,689	94.57	118.87	82.30	(30.15, 134.4)
Delta	Less Than Five					
Denton	244	391,729	62.29	84.76	76.02*	(64.90, 87.13)
De Witt	9	16,112	55.86	136.21	42.42*	(0.00, 85.65)
Dickens	Less Than Five					
Dimmit	6	7,162	83.78	120.00	72.22	(3.14, 141.3)
Donley	Less Than Five					
Duval	15	9,317	161.00	125.02	133.21	(73.88, 192.6)
Eastland	8	14,523	55.09	144.65	39.39*	(0.00, 83.57)
Ector	155	89,041	174.08	111.79	161.09**	(140.8, 181.4)
Edwards	Less Than Five					
Ellis	126	94,353	133.54	104.00	132.83	(112.4, 153.3)
El Paso	851	496,822	171.29	106.77	165.96**	(157.2, 174.8)
Erath	19	26,212	72.49	111.94	66.98*	(29.60, 104.4)
Falls	18	13,251	135.84	131.92	106.52	(58.08, 155.0)
Fannin	33	25,857	127.63	127.67	103.40	(68.16, 138.7)
Fayette	11	17,871	61.55	148.60	42.85*	(3.55, 82.14)
Fisher	Less Than Five					
Floyd	7	5,215	134.23	137.37	101.07	(25.42, 176.7)
Foard	Less Than Five					
Fort Bend	239	323,125	73.97	93.06	82.22*	(70.54, 93.90)
Franklin	10	7,985	125.23	137.80	94.01	(32.96, 155.1)
Freestone	16	14,739	108.56	124.92	89.89	(42.69, 137.1)
Frio	33	12,097	272.79	109.08	258.70**	(202.9, 314.5)
Gaines	Less Than Five					
Galveston	423	204,871	206.47	113.18	188.70**	(175.4, 202.0)
Garza	Less Than Five					
Gillespie	8	18,299	43.72	163.23	27.71*	(0.00, 64.75)
Glasscock	Less Than Five					
Goliad	9	5,559	161.90	138.12	121.26	(48.17, 194.3)
Gonzales	12	14,299	83.92	131.11	66.21*	(19.44, 113.0)
Gray	29	16,764	172.99	137.10	130.52	(88.28, 172.8)
Grayson	105	89,043	117.92	125.72	97.03*	(77.89, 116.2)
Gregg	158	85,788	184.17	118.98	160.13**	(140.1, 180.2)

* 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.

Table 12. Diabetes Long-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	20,592	16,501,931	124.79	105.61	122.23	
Grimes	32	19,655	162.81	121.48	138.63	(97.19, 180.1)
Guadalupe	97	74,721	129.82	113.99	117.80	(95.86, 139.7)
Hale	32	25,744	124.30	117.54	109.39	(72.57, 146.2)
Hall	Less Than Five					
Hamilton	Less Than Five					
Hansford	Less Than Five					
Hardeman	Less Than Five					
Hardin	60	38,176	157.17	119.29	136.29	(106.3, 166.3)
Harris	3,223	2,632,813	122.42	97.50	129.87**	(125.9, 133.9)
Harrison	55	47,735	115.22	119.99	99.33	(72.57, 126.1)
Hartley	Less Than Five					
Haskell	Less Than Five					
Hays	118	92,698	127.30	87.57	150.37**	(127.9, 172.9)
Hemphill	Less Than Five					
Henderson	72	61,565	116.95	135.47	89.30*	(67.13, 111.5)
Hidalgo	828	433,294	191.09	101.19	195.35**	(185.7, 205.0)
Hill	43	26,862	160.08	132.69	124.80	(90.88, 158.7)
Hockley	29	16,910	171.50	115.08	154.16	(108.2, 200.1)
Hood	26	36,742	70.76	139.86	52.34*	(24.09, 80.59)
Hopkins	12	25,281	47.47	125.77	39.04*	(3.13, 74.96)
Houston	22	18,513	118.84	137.14	89.63	(49.44, 129.8)
Howard	51	25,582	199.36	121.76	169.37**	(133.1, 205.7)
Hudspeth	6	2,254	266.19	115.60	238.19	(112.7, 363.7)
Hunt	72	62,074	115.99	115.75	103.66	(79.77, 127.6)
Hutchinson	18	17,004	105.86	132.57	82.60	(39.95, 125.3)
Irion	Less Than Five					
Jack	Less Than Five					
Jackson	20	10,866	184.06	129.46	147.08	(93.08, 201.1)
Jasper	43	26,996	159.28	129.72	127.02	(92.80, 161.2)
Jeff Davis	Less Than Five					
Jefferson	436	188,775	230.96	119.30	200.27**	(186.8, 213.8)
Jim Hogg	16	3,654	437.88	134.84	335.93**	(244.7, 427.2)
Jim Wells	46	29,243	157.30	116.34	139.86	(105.1, 174.6)
Johnson	137	106,780	128.30	106.76	124.31	(105.3, 143.3)
Jones	9	16,216	55.50	114.06	50.33*	(3.24, 97.42)
Karnes	8	12,461	64.20	111.47	59.58*	(5.24, 113.9)
Kaufman	90	63,271	142.25	106.56	138.09	(113.4, 162.8)
Kendall	20	20,816	96.08	126.23	78.73*	(39.23, 118.2)
Kenedy	Less Than Five					
Kent	Less Than Five					
Kerr	35	36,392	96.17	159.26	62.47*	(35.87, 89.07)
Kimble	Less Than Five					
King	Less Than Five					
Kinney	6	2,609	229.97	167.92	141.67	(44.93, 238.4)
Kleberg	60	23,524	255.06	104.39	252.74**	(211.9, 293.6)
Knox	Less Than Five					

* 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.

Table 12. Diabetes Long-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	20,592	16,501,931	124.79	105.61	122.23	
Lamar	46	37,728	121.93	130.56	96.60	(67.75, 125.5)
Lamb	18	10,634	169.27	134.33	130.35	(76.77, 183.9)
Lampasas	22	15,662	140.47	119.01	122.10	(75.19, 169.0)
La Salle	6	4,355	137.77	115.08	123.85	(33.38, 214.3)
Lavaca	26	14,852	175.06	151.43	119.59	(76.89, 162.3)
Lee	10	12,291	81.36	125.74	66.93*	(15.42, 118.4)
Leon	21	12,690	165.48	145.87	117.36	(70.29, 164.4)
Liberty	88	55,891	157.45	107.51	151.49**	(125.4, 177.6)
Limestone	18	17,400	103.45	125.98	84.94	(41.69, 128.2)
Lipscomb	Less Than Five					
Live Oak	9	9,489	94.85	133.34	73.58	(16.65, 130.5)
Llano	17	15,496	109.71	182.28	62.26*	(24.16, 100.4)
Loving	Less Than Five					
Lubbock	238	190,605	124.87	104.54	123.55	(109.2, 137.9)
Lynn	6	4,441	135.10	129.44	107.97	(23.50, 192.4)
McCulloch	7	6,165	113.54	146.16	80.36	(12.90, 147.8)
McClennan	142	167,237	84.91	111.44	78.82*	(63.98, 93.65)
McMullen	Less Than Five					
Madison	20	10,658	187.65	109.67	177.00	(117.8, 236.2)
Marion	7	8,869	78.93	147.74	55.26*	(0.00, 111.2)
Martin	Less Than Five					
Mason	Less Than Five					
Matagorda	33	27,739	118.97	121.14	101.59	(66.65, 136.5)
Maverick	108	33,257	324.74	108.57	309.41**	(275.7, 343.1)
Medina	42	31,593	132.94	117.02	117.52	(84.21, 150.8)
Menard	Less Than Five					
Midland	95	87,632	108.41	115.84	96.81*	(76.71, 116.9)
Milam	23	18,833	122.13	134.02	94.26	(53.95, 134.6)
Mills	6	4,025	149.07	158.77	97.12	(17.02, 177.2)
Mitchell	Less Than Five					
Montague	15	15,260	98.30	146.04	69.62*	(26.73, 112.5)
Montgomery	259	267,434	96.85	104.18	96.16*	(84.03, 108.3)
Moore	20	13,806	144.86	109.75	136.54	(84.51, 188.6)
Morris	13	10,212	127.30	141.50	93.06	(39.79, 146.3)
Motley	Less Than Five					
Nacogdoches	91	46,556	195.46	106.52	189.82**	(161.1, 218.6)
Navarro	61	35,982	169.53	118.98	147.40	(116.4, 178.3)
Newton	12	11,138	107.74	128.09	87.01	(33.39, 140.6)
Nolan	15	11,298	132.77	136.35	100.72	(49.13, 152.3)
Nueces	400	233,894	171.02	113.71	155.58**	(143.2, 168.0)
Ochiltree	Less Than Five					
Oldham	Less Than Five					
Orange	119	64,242	185.24	122.33	156.64**	(133.8, 179.5)
Palo Pinto	37	20,846	177.49	133.29	137.74	(99.33, 176.2)
Panola	25	17,781	140.60	132.02	110.16	(68.37, 152.0)
Parker	66	76,555	86.21	112.19	79.49*	(57.63, 101.3)

* 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.

Table 12. Diabetes Long-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	20,592	16,501,931	124.79	105.61	122.23	
Parker	7	6,881	101.73	121.86	86.36	(16.42, 156.3)
Pecos	9	12,212	73.70	109.04	69.91	(14.41, 125.4)
Polk	57	36,956	154.24	139.11	114.69	(86.45, 142.9)
Potter	82	85,892	95.47	110.43	89.43*	(68.63, 110.2)
Presidio	10	5,325	187.79	134.53	144.39	(68.74, 220.1)
Rains	8	8,875	90.14	132.85	70.19*	(11.21, 129.2)
Randall	49	83,576	58.63	112.74	53.80	(32.93, 74.66)
Reagan	Less Than Five					
Real	Less Than Five					
Red River	32	10,730	298.23	144.50	213.50**	(162.1, 264.9)
Reeves	6	8,676	69.16	125.75	56.89*	(0.00, 118.2)
Refugio	13	5,871	221.43	136.36	167.98	(96.40, 239.5)
Roberts	Less Than Five					
Robertson	30	11,902	252.06	137.24	189.99**	(139.9, 240.1)
Rockwall	25	43,146	57.94	102.35	58.56*	(28.08, 89.04)
Runnels	5	8,273	60.44	146.87	42.57*	(0.00, 100.7)
Rusk	32	37,363	85.65	126.97	69.77*	(40.37, 99.18)
Sabine	10	8,437	118.53	166.22	73.76	(19.69, 127.8)
San Augustine	15	7,035	213.22	154.88	142.41	(81.06, 203.8)
San Jacinto	32	19,192	166.74	132.41	130.26	(90.09, 170.4)
San Patricio	57	48,607	117.27	113.04	107.31	(79.99, 134.6)
San Saba	Less Than Five					
Schleicher	Less Than Five					
Scurry	9	12,423	72.45	122.43	61.21*	(9.28, 113.1)
Shackelford	Less Than Five					
Shelby	25	19,651	127.22	128.59	102.35	(62.06, 142.6)
Sherman	Less Than Five					
Smith	187	140,371	133.22	121.96	112.99	(97.51, 128.5)
Somervell	Less Than Five					
Starr	68	38,568	176.31	103.68	175.91**	(143.9, 207.9)
Stephens	5	7,501	66.66	136.51	50.51*	(0.00, 113.8)
Sterling	Less Than Five					
Stonewall	Less Than Five					
Sutton	Less Than Five					
Swisher	Less Than Five					
Tarrant	1,078	1,160,170	92.92	100.18	95.94*	(90.00, 101.9)
Taylor	128	93,623	136.72	113.73	124.35	(104.7, 144.0)
Terrell	Less Than Five					
Terry	9	9,336	96.40	126.11	79.08	(20.06, 138.1)
Throckmorton	Less Than Five					
Titus	17	20,654	82.31	114.75	74.20*	(32.60, 115.8)
Tom Green	114	78,631	144.98	118.95	126.08	(105.1, 147.0)
Travis	550	665,736	82.62	88.38	96.70*	(88.35, 105.1)
Trinity	22	11,378	193.36	153.89	129.97	(81.58, 178.4)
Tyler	29	16,610	174.59	135.71	133.08	(90.43, 175.7)
Upshur	52	28,614	181.73	128.68	146.08	(112.7, 179.5)

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

Table 12. Diabetes Long-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	20,592	16,501,931	124.79	105.61	122.23	
Upton	Less Than Five					
Uvalde	11	18,912	58.16	122.44	49.14*	(7.06, 91.22)
Val Verde	62	33,245	186.49	121.14	159.25**	(127.3, 191.2)
Van Zandt	39	40,144	97.15	134.48	74.73*	(47.17, 102.3)
Victoria	147	62,976	233.42	119.67	201.77**	(178.4, 225.1)
Walker	127	52,064	243.93	90.52	278.76**	(249.3, 308.3)
Waller	15	26,459	56.69	99.63	58.86*	(19.42, 98.31)
Ward	11	7,542	145.85	133.74	112.81	(49.04, 176.6)
Washington	16	24,315	65.80	128.06	53.15*	(16.86, 89.44)
Webb	384	140,556	273.20	94.82	298.06**	(280.5, 315.6)
Wharton	56	30,753	182.10	123.38	152.67	(119.8, 185.6)
Wheeler	7	3,724	187.97	149.03	130.48	(44.52, 216.4)
Wichita	108	96,651	111.74	113.81	101.57*	(82.26, 120.9)
Wilbarger	5	10,467	47.77	128.44	38.47*	(0.00, 93.70)
Willacy	50	14,289	349.92	112.14	322.79**	(272.2, 373.4)
Williamson	151	230,561	65.49	94.89	71.40*	(57.70, 85.09)
Wilson	28	27,537	101.68	114.54	91.83	(55.77, 127.9)
Winkler	9	4,993	180.25	127.77	145.93	(65.75, 226.1)
Wise	9	41,790	21.54	110.85	20.10*	(0.00, 49.86)
Wood	63	32,512	193.77	145.10	138.14	(108.7, 167.6)
Yoakum	Less Than Five					
Young	11	13,926	78.99	144.14	56.69*	(11.49, 101.9)
Zapata	41	9,081	451.49	120.82	386.56**	(325.4, 447.7)
Zavala	8	8,036	99.55	112.62	91.44	(24.12, 158.8)

Source: *Texas Hospital Inpatient Discharge Public Use Data File, 2005*. Texas Department of State Health Services, Center for Health Statistics, Austin, Texas. 2006.

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