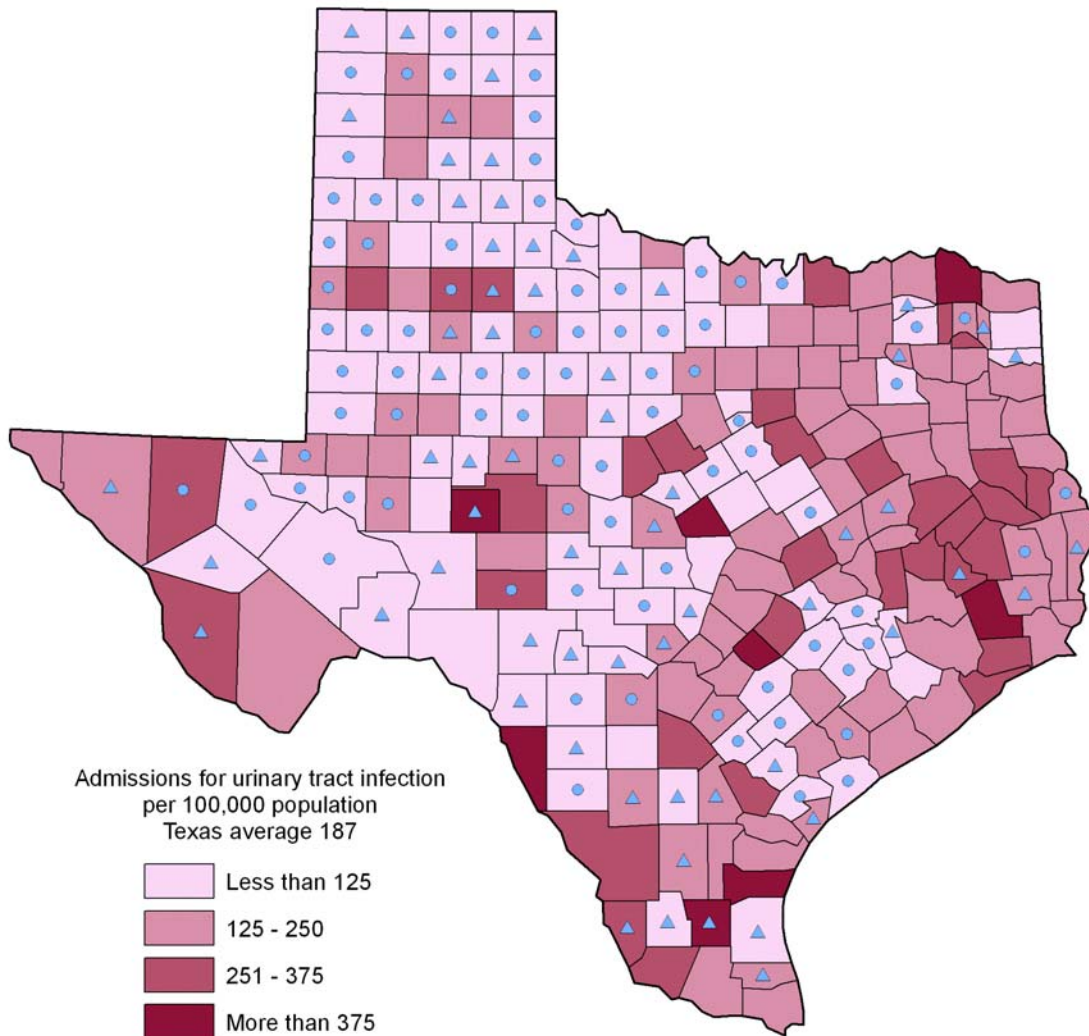


3. Urinary Tract Infection

Urinary tract infection (UTI) is usually caused when bacteria enter the bladder and cause inflammation and infection. It is a very common condition, with older adults at highest risk. Left untreated, an infection has the potential to cause more serious, even life-threatening difficulties and permanent damage to the urinary tract. In most cases, an uncomplicated UTI can be treated with proper antibiotics in outpatient settings.



* 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 3. Urinary Tract Infection Admission Rate

Includes data from most Texas hospitals. Some hospitals are statutorily exempt from reporting to Department of State 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	29,840	16,501,931	180.83	143.51	187.42	
Anderson	85	45,261	187.80	143.72	194.37	(158.4, 230.4)
Andrews	Less Than 5					
Angelina	236	60,254	391.68	169.60	343.51	(314.8, 372.3)
Aransas	46	19,078	241.12	211.39	169.66	(123.9, 215.4)
Archer	9	7,091	126.92	164.74	114.60	(29.57, 199.6)
Armstrong	Less Than 5					
Atascosa	116	30,686	378.02	152.88	367.80**	(325.4, 410.2)
Austin	13	19,570	66.43	186.89	52.87*	(4.84, 100.9)
Bailey	Less Than 5					
Bandera	21	15,486	135.61	176.07	114.56*	(58.91, 170.2)
Bastrop	147	51,151	287.38	138.65	308.30**	(273.8, 342.8)
Baylor	Less Than 5					
Bee	70	26,360	265.55	129.65	304.66**	(255.0, 354.4)
Bell	218	175,017	124.56	143.43	129.17*	(110.8, 147.5)
Bexar	1,738	1,092,266	159.12	150.19	157.59*	(150.4, 164.8)
Blanco	6	7,051	85.09	175.84	71.98*	(0.00, 154.5)
Borden	Less Than 5					
Bosque	Less Than 5					
Bowie	147	69,675	210.98	172.28	182.16	(155.6, 208.7)
Brazoria	400	199,288	200.71	128.13	233.00**	(214.8, 251.2)
Brazos	142	124,256	114.28	119.68	142.04*	(118.2, 165.9)
Brewster	14	7,357	190.29	167.25	169.24	(86.40, 252.1)
Briscoe	Less Than 5					
Brooks	29	5,509	526.41	188.03	416.43**	(326.2, 506.7)
Brown	134	29,107	460.37	196.73	348.08**	(309.7, 386.5)
Burleson	28	13,003	215.33	196.54	162.97	(105.5, 220.4)
Burnet	43	31,775	135.33	216.91	92.80*	(57.82, 127.8)
Caldwell	124	26,939	460.30	160.54	426.48**	(382.3, 470.7)
Calhoun	9	15,022	59.91	167.59	53.18*	(0.00, 111.1)
Callahan	11	10,446	105.30	194.37	80.58*	(16.11, 145.1)
Cameron	596	249,884	238.51	160.55	220.98**	(206.5, 235.5)
Camp	30	8,877	337.95	190.81	263.45**	(192.9, 334.0)
Carson	11	4,904	224.31	193.16	172.73	(78.35, 267.1)
Cass	35	23,437	149.34	212.76	104.41*	(63.28, 145.5)
Castro	Less Than 5					
Chambers	46	21,167	217.32	128.30	251.95**	(196.2, 307.7)
Cherokee	78	36,027	216.50	185.08	174.00	(138.4, 209.6)
Childress	Less Than 5					
Clay	8	8,887	90.02	173.78	77.05*	(3.11, 151.0)
Cochran	6	2,392	250.84	196.89	189.50	(55.67, 323.3)
Coke	10	2,946	339.44	249.83	202.10	(95.07, 309.1)
Coleman	8	6,904	115.87	259.45	66.43*	(0.00, 135.0)
Collin	575	460,207	124.94	106.18	175.04	(161.9, 188.2)
Collingsworth	Less Than 5					
Colorado	6	16,002	37.50	217.67	25.62*	(0.00, 74.82)
Comal	119	71,006	167.59	173.80	143.43*	(117.3, 169.6)

* 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 3. Urinary Tract Infection 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	29,840	16,501,931	180.83	143.51	187.42	
Comanche	44	10,508	418.73	231.57	268.96**	(210.1, 327.8)
Concho	5	3,261	153.33	148.34	153.75	(21.71, 285.8)
Cooke	32	29,069	110.08	184.35	88.82*	(49.14, 128.5)
Coryell	43	56,205	76.51	109.60	103.83*	(66.78, 140.9)
Cottle	Less Than 5					
Crane	Less Than 5					
Crockett	Less Than 5					
Crosby	17	4,815	353.06	207.41	253.20	(161.3, 345.1)
Culberson	6	1,953	307.22	155.91	293.11	(126.5, 459.7)
Dallam	Less Than 5					
Dallas	2,632	1,666,566	157.93	129.41	181.53	(175.3, 187.8)
Dawson	7	11,076	63.20	173.90	54.06*	(0.00, 120.2)
Deaf Smith	Less Than 5					
Delta	Less Than 5					
Denton	579	391,729	147.81	101.44	216.74**	(202.1, 231.3)
De Witt	5	16,112	31.03	210.51	21.93*	(0.00, 71.78)
Dickens	11	2,253	488.24	202.64	358.39**	(222.6, 494.2)
Dimmit	8	7,162	111.70	174.34	95.30*	(13.08, 177.5)
Donley	Less Than 5					
Duval	19	9,317	203.93	184.36	164.53	(94.45, 234.6)
Eastland	14	14,523	96.40	226.92	63.19*	(12.61, 113.8)
Ector	229	89,041	257.18	154.17	248.14**	(223.3, 272.9)
Edwards	Less Than 5					
Ellis	179	94,353	189.71	138.50	203.74	(178.3, 229.2)
El Paso	1,104	496,822	222.21	148.65	222.36**	(211.7, 233.1)
Erath	62	26,212	236.53	177.27	198.47	(155.9, 241.1)
Falls	21	13,251	158.48	212.26	111.06*	(56.30, 165.8)
Fannin	74	25,857	286.19	188.33	226.04	(184.4, 267.7)
Fayette	Less Than 5					
Fisher	Less Than 5					
Floyd	Less Than 5					
Foard	Less Than 5					
Fort Bend	294	323,125	90.99	108.69	124.52*	(109.0, 140.0)
Franklin	34	7,985	425.80	199.87	316.89**	(244.2, 389.6)
Freestone	67	14,739	454.58	183.41	368.67**	(312.8, 424.5)
Frio	10	12,097	82.67	150.32	81.80*	(13.66, 149.9)
Gaines	Less Than 5					
Galveston	619	204,871	302.14	148.35	302.95**	(286.3, 319.6)
Garza	9	3,689	243.97	172.72	210.11	(95.04, 325.2)
Gillespie	18	18,299	98.37	266.05	55.00*	(13.39, 96.60)
Glasscock	Less Than 5					
Goliad	7	5,559	125.92	197.65	94.76*	(7.13, 182.4)
Gonzales	23	14,299	160.85	200.86	119.12*	(64.93, 173.3)
Gray	39	16,764	232.64	216.91	159.53	(111.4, 207.7)
Grayson	308	89,043	345.90	186.37	276.08**	(253.5, 298.6)
Gregg	213	85,788	248.29	171.98	214.74**	(190.8, 238.7)

* 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 3. Urinary Tract Infection 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	29,840	16,501,931	180.83	143.51	187.42	
Grimes	56	19,655	284.91	164.19	258.11**	(207.0, 309.2)
Guadalupe	103	74,721	137.85	154.76	132.49*	(105.5, 159.5)
Hale	35	25,744	135.95	174.84	115.66*	(72.37, 159.0)
Hall	Less Than 5					
Hamilton	5	6,388	78.27	259.34	44.89*	(0.00, 116.2)
Hansford	Less Than 5					
Hardeman	Less Than 5					
Hardin	67	38,176	175.50	158.60	164.60	(127.3, 202.0)
Harris	4,371	2,632,813	166.02	122.69	201.28**	(196.2, 206.4)
Harrison	93	47,735	194.83	167.73	172.77	(140.3, 205.2)
Hartley	Less Than 5					
Haskell	Less Than 5					
Hays	130	92,698	140.24	121.37	171.87	(144.5, 199.3)
Hemphill	Less Than 5					
Henderson	113	61,565	183.55	192.57	141.77*	(115.1, 168.5)
Hidalgo	815	433,294	188.09	149.19	187.53	(176.1, 199.0)
Hill	98	26,862	364.83	196.77	275.78**	(235.8, 315.7)
Hockley	54	16,910	319.34	167.82	283.04**	(228.5, 337.6)
Hood	31	36,742	84.37	189.61	66.19*	(31.37, 101.0)
Hopkins	21	25,281	83.07	183.80	67.22*	(24.61, 109.8)
Houston	68	18,513	367.31	207.51	263.29**	(216.4, 310.1)
Howard	64	25,582	250.18	173.87	214.03	(170.5, 257.6)
Hudspeth	5	2,254	221.83	146.06	225.91	(65.65, 386.2)
Hunt	163	62,074	262.59	158.75	246.05**	(216.8, 275.3)
Hutchinson	11	17,004	64.69	191.01	50.38*	(0.00, 101.4)
Irion	7	1,374	509.46	179.61	421.90**	(237.0, 606.8)
Jack	Less Than 5					
Jackson	27	10,866	248.48	192.19	192.31	(128.8, 255.9)
Jasper	65	26,996	240.78	178.16	201.02	(159.1, 242.9)
Jeff Davis	Less Than 5					
Jefferson	462	188,775	244.74	174.51	208.60**	(192.6, 224.6)
Jim Hogg	6	3,654	164.20	203.68	119.92	(13.46, 226.4)
Jim Wells	63	29,243	215.44	164.67	194.60	(152.7, 236.5)
Johnson	248	106,780	232.25	136.82	252.50**	(228.4, 276.5)
Jones	Less Than 5					
Karnes	7	12,461	56.18	166.86	50.08*	(0.00, 113.8)
Kaufman	149	63,271	235.49	140.76	248.86**	(218.1, 279.7)
Kendall	35	20,816	168.14	167.93	148.93	(99.78, 198.1)
Kenedy	Less Than 5					
Kent	Less Than 5					
Kerr	69	36,392	189.60	265.01	106.42*	(76.86, 136.0)
Kimble	Less Than 5					
King	Less Than 5					
Kinney	5	2,609	191.64	252.11	113.07	(0.00, 226.3)
Kleberg	105	23,524	446.35	151.82	437.31**	(388.7, 485.9)
Knox	Less Than 5					

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

Table 3. Urinary Tract Infection 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	29,840	16,501,931	180.83	143.51	187.42	
Lamar	106	37,728	280.96	203.11	205.76	(172.6, 238.9)
Lamb	20	10,634	188.08	215.67	129.72	(69.09, 190.3)
Lampasas	86	15,662	549.10	172.56	473.33**	(417.5, 529.2)
La Salle	8	4,355	183.70	154.16	177.24	(65.10, 289.4)
Lavaca	59	14,852	397.25	253.72	232.90	(185.6, 280.2)
Lee	10	12,291	81.36	185.81	65.13*	(4.35, 125.9)
Leon	32	12,690	252.17	212.33	176.65	(120.7, 232.6)
Liberty	242	55,891	432.99	143.00	450.38**	(417.9, 482.9)
Limestone	45	17,400	258.62	185.06	207.88	(156.7, 259.1)
Lipscomb	Less Than 5					
Live Oak	19	9,489	200.23	185.54	160.53	(91.30, 229.8)
Llano	27	15,496	174.24	277.85	93.28*	(49.02, 137.5)
Loving	Less Than 5					
Lubbock	408	190,605	214.06	154.47	206.13**	(189.2, 223.1)
Lynn	Less Than 5					
McCulloch	7	6,165	113.54	224.08	75.37*	(0.00, 153.5)
McClennan	189	167,237	113.01	171.68	97.91*	(80.77, 115.1)
McMullen	Less Than 5					
Madison	27	10,658	253.33	165.63	227.50	(158.4, 296.6)
Marion	11	8,869	124.03	205.95	89.58*	(21.61, 157.5)
Martin	6	3,086	194.43	184.08	157.11	(35.23, 279.0)
Mason	Less Than 5					
Matagorda	69	27,739	248.75	166.77	221.86	(179.1, 264.6)
Maverick	151	33,257	454.04	152.76	442.10**	(401.3, 482.9)
Medina	58	31,593	183.58	163.38	167.14	(126.7, 207.6)
Menard	Less Than 5					
Midland	123	87,632	140.36	162.13	128.78*	(104.4, 153.2)
Milam	85	18,833	451.34	204.87	327.68**	(280.9, 374.4)
Mills	7	4,025	173.91	261.14	99.06	(9.54, 188.6)
Mitchell	10	7,780	128.53	156.58	122.10	(38.89, 205.3)
Montague	47	15,260	307.99	217.95	210.19	(159.8, 260.6)
Montgomery	564	267,434	210.89	128.89	243.37**	(227.7, 259.0)
Moore	32	13,806	231.78	149.52	230.58	(166.6, 294.5)
Morris	20	10,212	195.85	210.33	138.50	(75.83, 201.2)
Motley	Less Than 5					
Nacogdoches	145	46,556	311.45	165.28	280.29**	(247.2, 313.4)
Navarro	98	35,982	272.36	179.86	225.24**	(189.1, 261.3)
Newton	27	11,138	242.41	165.69	217.62	(150.0, 285.3)
Nolan	Less Than 5					
Nueces	469	233,894	200.52	156.74	190.29	(175.1, 205.5)
Ochiltree	Less Than 5					
Oldham	Less Than 5					
Orange	172	64,242	267.74	163.26	243.94**	(215.6, 272.3)
Palo Pinto	40	20,846	191.88	193.53	147.48	(101.7, 193.2)
Panola	55	17,781	309.32	194.05	237.11**	(187.7, 286.6)
Parker	116	76,555	151.53	140.91	159.95	(132.0, 187.9)

* 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.

Table 3. Urinary Tract Infection 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	15,963	16,501,931	180.83	143.51	187.42	
Parmer	Less Than 5					
Pecos	Less Than 5					
Polk	186	36,956	503.30	203.62	367.66**	(334.2, 401.2)
Potter	158	85,892	183.95	163.34	167.51	(143.0, 192.0)
Presidio	19	5,325	356.81	202.11	262.59	(174.1, 351.1)
Rains	15	8,875	169.01	183.06	137.33	(65.25, 209.4)
Randall	112	83,576	134.01	151.78	131.33*	(105.5, 157.1)
Reagan	Less Than 5					
Real	Less Than 5					
Red River	120	10,730	1118.36	227.59	730.93**	(672.2, 789.7)
Reeves	Less Than 5					
Refugio	Less Than 5					
Roberts	Less Than 5					
Robertson	30	11,902	252.06	206.86	181.24	(122.7, 239.8)
Rockwall	75	43,146	173.83	126.10	205.04	(165.6, 244.5)
Runnels	29	8,273	350.54	236.59	220.39	(154.8, 286.0)
Rusk	100	37,363	267.64	186.14	213.88	(179.1, 248.7)
Sabine	18	8,437	213.35	236.52	134.17	(69.14, 199.2)
San Augustine	40	7,035	568.59	250.99	336.96**	(267.9, 406.0)
San Jacinto	62	19,192	323.05	171.72	279.84**	(229.2, 330.5)
San Patricio	74	48,607	152.24	152.04	148.94*	(115.1, 182.8)
San Saba	13	4,590	283.22	225.59	186.75	(96.53, 277.0)
Schleicher	5	2,116	236.29	198.14	177.39	(35.55, 319.2)
Scurry	Less Than 5					
Shackelford	Less Than 5					
Shelby	61	19,651	310.42	193.51	238.61**	(191.5, 285.7)
Sherman	Less Than 5					
Smith	268	140,371	190.92	179.19	158.49*	(140.2, 176.8)
Somervell	Less Than 5					
Starr	128	38,568	331.88	148.65	332.11**	(293.7, 370.5)
Stephens	6	7,501	79.99	198.31	60.00*	(0.00, 135.3)
Sterling	Less Than 5					
Stonewall	5	1,156	432.53	295.45	217.76	(60.80, 374.7)
Sutton	9	3,043	295.76	158.68	277.25	(145.0, 409.5)
Swisher	Less Than 5					
Tarrant	1,878	1,160,170	161.87	129.76	185.56	(178.1, 193.1)
Taylor	144	93,623	153.81	172.02	133.00*	(110.1, 155.9)
Terrell	Less Than 5					
Terry	14	9,336	149.96	190.11	117.33	(48.40, 186.3)
Throckmorton	Less Than 5					
Titus	39	20,654	188.83	171.57	163.70	(114.9, 212.5)
Tom Green	267	78,631	339.56	181.92	277.64	(253.4, 301.9)
Travis	775	665,736	116.41	114.27	151.54*	(141.0, 162.1)
Trinity	45	11,378	395.50	229.03	256.87**	(200.0, 313.8)
Tyler	41	16,610	246.84	190.93	192.31	(140.7, 243.9)
Upshur	69	28,614	241.14	177.50	202.08	(161.3, 242.9)

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

Table 3. Urinary Tract Infection 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	15,963	16,501,931	180.83	143.51	187.42	
Upton	7	2,356	297.11	181.21	243.88	(103.3, 384.5)
Uvalde	5	18,912	26.44	178.86	21.99	(0.00, 71.94)
Val Verde	31	33,245	93.25	173.05	80.15*	(41.84, 118.5)
Van Zandt	64	40,144	159.43	191.43	123.88*	(90.74, 157.0)
Victoria	168	62,976	266.77	168.17	235.95**	(207.7, 264.2)
Walker	134	52,064	257.38	120.27	318.31	(281.6, 355.0)
Waller	28	26,459	105.82	137.92	114.13	(66.02, 162.3)
Ward	8	7,542	106.07	189.52	83.25	(6.41, 160.1)
Washington	11	24,315	45.24	202.16	33.29*	(0.00, 74.71)
Webb	384	140,556	273.20	135.69	299.49**	(278.4, 320.5)
Wharton	79	30,753	256.89	180.66	211.51	(172.5, 250.5)
Wheeler	Less Than 5					
Wichita	179	96,651	185.20	166.29	165.66	(142.7, 188.6)
Wilbarger	5	10,467	47.77	201.61	35.24*	(0.00, 98.45)
Willacy	28	14,289	195.95	162.11	179.80	(119.4, 240.2)
Williamson	328	230,561	142.26	123.74	171.01	(153.8, 188.2)
Wilson	51	27,537	185.21	151.16	182.25	(137.2, 227.3)
Winkler	15	4,993	300.42	190.56	234.50	(140.3, 328.7)
Wise	21	41,790	50.25	139.46	53.60*	(15.52, 91.68)
Wood	108	32,512	332.19	211.26	233.89**	(198.8, 268.9)
Yoakum	Less Than 5					
Young	15	13,926	107.71	225.08	71.18*	(19.32, 123.0)
Zapata	29	9,081	319.35	183.83	258.40	(187.3, 329.5)
Zavala	Less Than 5					

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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