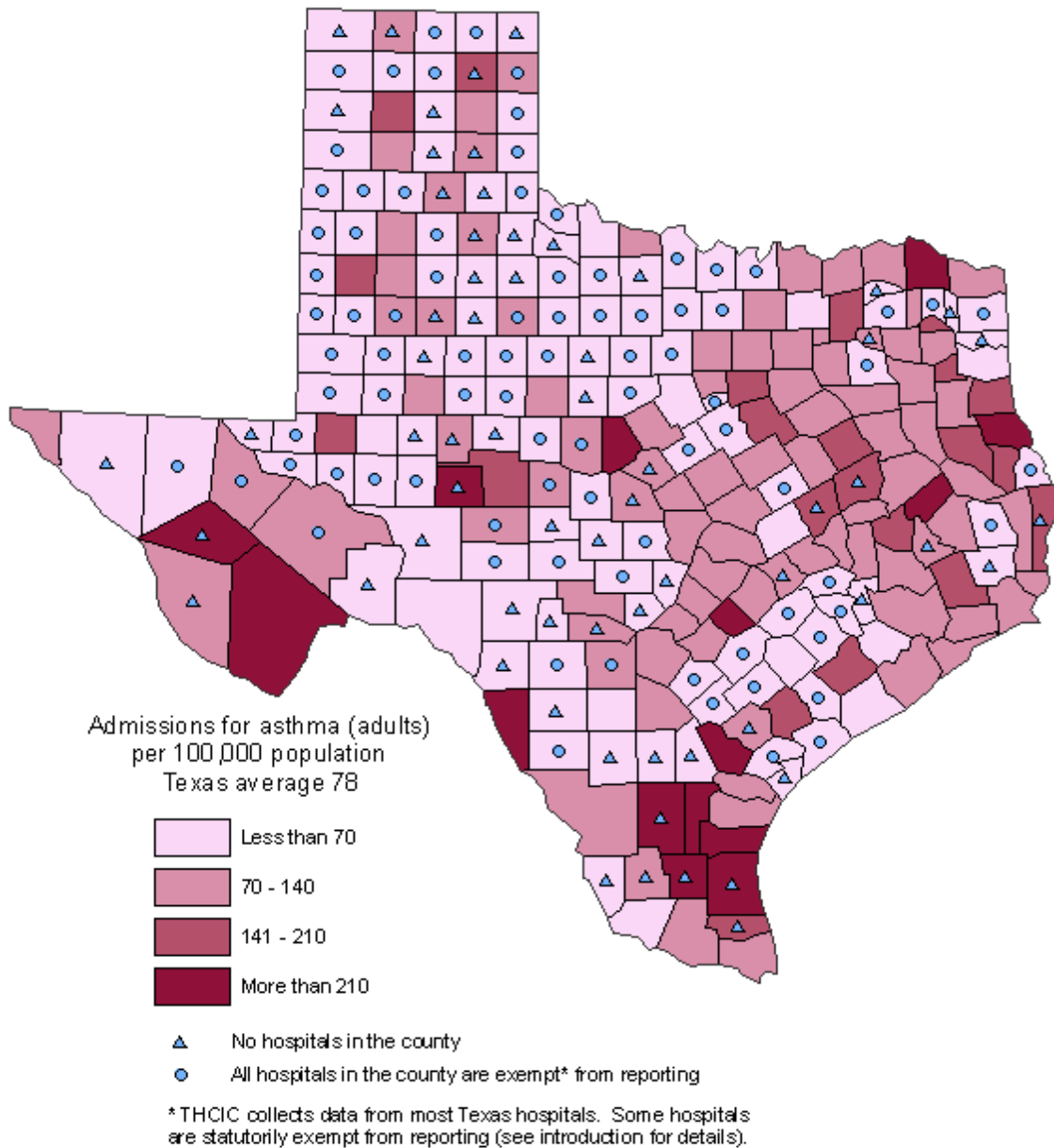# 10. Adult asthma

Asthma is a chronic condition that occurs when the main air passages of the lungs become inflamed and narrowed and breathing becomes difficult. Asthma symptoms can range from mild to very severe and include coughing, wheezing, and in severe cases, gasping for air. Asthma is treatable, and most flare-ups and deaths can be prevented through the use of medications. Asthma "flares" (also called attacks) actually develop over time, involving a complicated process of increasing airway obstruction. With the help of their doctors, many people with asthma have learned to recognize their own particular warning signs of asthma attacks. Treating symptoms early can result in prevented or less severe attacks.

Admissions for asthma (adults) per 100,000 population
Texas average 78

- Less than 70
- 70 - 140
- 141 - 210
- More than 210

△ No hospitals in the county

○ All hospitals in the county are exempt* from reporting

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

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10. Adult asthma, page 2

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

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State of Texas	13,824	15,678,989	88.2	95.2	
Anderson	42	43,138	97.4	115.5	(77.2, 153.7)
Andrews	Less than 5	9,026			
Angelina	60	58,616	102.4	106.0	(74.5, 137.4)
Aransas	13	17,723	73.4	67.7	(22.0, 113.4)
Archer	Less than 5	6,641			
Armstrong	0	1,594	0.0	0.0 *	(0.0, 0.0)
Atascosa	32	28,584	112.0	118.6	(70.9, 166.2)
Austin	8	18,205	43.9	42.1 *	(6.5, 77.6)
Bailey	Less than 5	4,544			
Bandera	17	14,679	115.8	115.2	(49.7, 180.7)
Bastrop	47	46,630	100.8	109.0	(73.3, 144.8)
Baylor	0	3,037	0.0	0.0 *	(0.0, 0.0)
Bee	51	24,775	205.9	231.5 **	(160.1, 302.9)
Bell	135	170,238	79.3	89.1	(72.2, 106.0)
Bexar	919	1,035,771	88.7	94.3	(87.2, 101.4)
Blanco	Less than 5	6,775			
Borden	0	531	0.0	0.0 *	(0.0, 0.0)
Bosque	Less than 5	13,430			
Bowie	81	67,967	119.2	123.3	(91.8, 154.8)
Brazoria	116	185,574	62.5	70.7 *	(56.3, 85.1)
Brazos	130	119,106	109.1	129.7 **	(105.3, 154.1)
Brewster	20	6,956	287.5	301.1 **	(147.4, 454.9)
Briscoe	Less than 5	1,239			
Brooks	13	5,331	243.8	250.6	(90.4, 410.8)
Brown	78	28,238	276.2	285.7 **	(211.4, 360.0)
Burleson	11	12,417	88.6	86.8	(24.9, 148.6)
Burnet	26	28,101	92.5	89.9	(48.1, 131.8)
Caldwell	55	25,382	216.7	227.5 **	(157.5, 297.4)
Calhoun	0	14,758	0.0	0.0 *	(0.0, 0.0)
Callahan	7	9,632	72.7	68.2	(6.0, 130.5)
Cameron	232	235,345	98.6	103.8	(88.2, 119.3)
Camp	12	8,511	141.0	142.1	(46.6, 237.7)
Carson	Less than 5	4,845			
Cass	7	23,061	30.4	23.0 *	(0.0, 46.3)
Castro	Less than 5	5,473			
Chambers	16	19,839	80.7	87.2	(38.2, 136.3)
Cherokee	28	35,003	80.0	82.1	(46.3, 117.9)

 * 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.

10. Adult asthma, 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 of Texas	13,824	15,678,989	88.2	95.2	
Childress	0	5,850	0.0	8.4 *	(0.0, 36.6)
Clay	Less than 5	8,736			
Cochran	Less than 5	2,464			
Coke	0	2,918	0.0	0.0 *	(0.0, 0.0)
Coleman	7	6,797	103.0	94.1	(7.1, 181.1)
Collin	189	407,343	46.4	55.4 *	(46.8, 64.0)
Collingsworth	Less than 5	2,327			
Colorado	Less than 5	15,221			
Comal	64	64,269	99.6	99.6	(70.5, 128.7)
Comanche	10	10,189	98.1	93.0	(22.4, 163.7)
Concho	Less than 5	3,242			
Cooke	8	27,637	28.9	26.9 *	(3.8, 49.9)
Coryell	42	53,703	78.2	94.4	(63.4, 125.4)
Cottle	0	1,359	0.0	0.0 *	(0.0, 0.0)
Crane	Less than 5	2,726			
Crockett	Less than 5	2,792			
Crosby	0	4,788	0.0	0.0 *	(0.0, 0.0)
Culberson	0	1,949	0.0	0.0 *	(0.0, 0.0)
Dallam	Less than 5	4,214			
Dallas	1,541	1,643,801	93.7	103.9 **	(98.0, 109.7)
Dawson	Less than 5	11,000			
Deaf Smith	0	12,328	0.0	0.0 *	(0.0, 0.0)
Delta	Less than 5	4,042			
Denton	276	353,299	78.1	90.6	(78.7, 102.4)
DeWitt	Less than 5	15,462			
Dickens	Less than 5	2,222			
Dimmit	0	6,983	0.0	0.0 *	(0.0, 0.0)
Donley	Less than 5	2,968			
Duval	22	9,215	238.7	250.5 **	(128.6, 372.3)
Eastland	5	13,945	35.9	27.7 *	(0.0, 60.7)
Ector	152	85,954	176.8	185.7 **	(151.3, 220.0)
Edwards	0	1,499	0.0	0.0 *	(0.0, 0.0)
Ellis	93	85,378	108.9	116.8	(89.5, 144.2)
El Paso	493	477,015	103.4	109.1 **	(97.9, 120.3)
Erath	13	24,840	52.3	57.0 *	(21.6, 92.5)
Falls	6	13,263	45.2	37.9 *	(0.0, 77.5)
Fannin	28	24,427	114.6	120.0	(68.2, 171.9)
Fayette	Less than 5	17,323			

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

10. Adult asthma, 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 of Texas	13,824	15,678,989	88.2	95.2	
Fisher	0	3,293	0.0	0.0*	(0.0, 0.0)
Floyd	Less than 5	5,153			
Foard	0	1,160	0.0	0.0*	(0.0, 0.0)
Fort Bend	148	280,801	52.7	59.8*	(49.0, 70.6)
Franklin	7	7,503	93.3	89.9	(8.9, 170.9)
Freestone	24	14,342	167.3	173.8	(92.4, 255.2)
Frio	Less than 5	11,665			
Gaines	Less than 5	9,500			
Galveston	202	192,663	104.8	108.8	(91.2, 126.4)
Garza	Less than 5	3,592			
Gillespie	5	17,152	29.2	16.2*	(0.0, 38.9)
Glasscock	0	948	0.0	2.2*	(0.0, 37.6)
Goliad	5	5,395	92.7	90.0	(0.0, 185.6)
Gonzales	6	13,762	43.6	42.5*	(1.4, 83.6)
Gray	22	16,812	130.9	132.2	(66.6, 197.8)
Grayson	94	85,244	110.3	110.8	(84.2, 137.5)
Gregg	122	83,114	146.8	150.9**	(119.4, 182.4)
Grimes	24	18,780	127.8	137.9	(74.6, 201.3)
Guadalupe	57	68,383	83.4	87.0	(60.6, 113.4)
Hale	19	25,011	76.0	80.3	(38.4, 122.2)
Hall	0	2,673	0.0	0.0*	(0.0, 0.0)
Hamilton	Less than 5	6,224			
Hansford	0	3,785	0.0	0.0*	(0.0, 0.0)
Hardeman	0	3,381	0.0	0.0*	(0.0, 0.0)
Hardin	24	36,046	66.6	67.9	(35.8, 100.0)
Harris	2,071	2,536,612	81.6	90.9	(86.5, 95.4)
Harrison	22	46,213	47.6	46.9*	(23.3, 70.4)
Hartley	Less than 5	4,347			
Haskell	Less than 5	4,562			
Hays	81	81,634	99.2	114.0	(86.4, 141.6)
Hemphill	Less than 5	2,493			
Henderson	46	57,676	79.8	76.1	(49.2, 103.0)
Hidalgo	262	399,745	65.5	72.7*	(62.7, 82.7)
Hill	42	25,148	167.0	169.2**	(108.5, 229.8)
Hockley	27	16,286	165.8	173.5**	(97.2, 249.8)
Hood	30	34,183	87.8	84.3	(47.6, 121.1)
Hopkins	9	24,081	37.4	35.8*	(7.3, 64.3)
Houston	13	18,038	72.1	74.1	(26.7, 121.5)

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

10. Adult asthma, 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 of Texas	13,824	15,678,989	88.2	95.2	
Howard	27	25,186	107.2	116.3	(66.0, 166.5)
Hudspeth	Less than 5	2,277			
Hunt	88	58,713	149.9	156.4 **	(118.2, 194.6)
Hutchinson	Less than 5	16,843			
Irion	Less than 5	1,332			
Jack	Less than 5	6,865			
Jackson	5	10,541	47.4	45.0 *	(0.0, 93.4)
Jasper	28	26,493	105.7	105.4	(58.8, 152.1)
Jeff Davis	Less than 5	1,715			
Jefferson	182	185,485	98.1	101.9	(84.6, 119.3)
Jim Hogg	Less than 5	3,615			
Jim Wells	73	27,926	261.4	273.4 **	(200.3, 346.5)
Johnson	139	98,667	140.9	149.4 **	(120.6, 178.2)
Jones	0	15,889	0.0	10.8 *	(0.0, 30.1)
Karnes	Less than 5	12,061			
Kaufman	73	56,241	129.8	136.8 **	(100.3, 173.3)
Kendall	5	18,814	26.6	22.3 *	(0.0, 47.8)
Kenedy	Less than 5	301			
Kent	0	654	0.0	0.0 *	(0.0, 0.0)
Kerr	40	34,935	114.5	105.7	(65.0, 146.4)
Kimble	0	3,493	0.0	0.0 *	(0.0, 0.0)
King	0	226	0.0	1.4 *	(0.0, 60.4)
Kinney	Less than 5	2,620			
Kleberg	55	22,497	244.5	261.4 **	(181.8, 341.1)
Knox	0	2,945	0.0	0.0 *	(0.0, 0.0)
Lamar	46	36,376	126.5	125.6	(82.2, 169.1)
Lamb	5	10,482	47.7	43.4 *	(0.0, 91.1)
Lampasas	15	13,929	107.7	109.6	(44.0, 175.3)
La Salle	0	4,194	0.0	4.7 *	(0.0, 29.6)
Lavaca	7	14,531	48.2	38.4 *	(0.4, 76.4)
Lee	9	11,738	76.7	78.6	(18.1, 139.1)
Leon	21	12,162	172.7	171.2	(83.5, 259.0)
Liberty	72	53,939	133.5	140.9 **	(103.1, 178.7)
Limestone	13	16,720	77.8	79.0	(28.2, 129.8)
Lipscomb	0	2,300	0.0	0.0 *	(0.0, 0.0)
Live Oak	Less than 5	9,489			
Llano	Less than 5	14,886			
Loving	0	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.

10. Adult asthma, 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 of Texas	13,824	15,678,989	88.2	95.2	
Lubbock	206	182,713	112.7	121.2 **	(102.1, 140.2)
Lynn	Less than 5	4,453			
McCulloch	0	5,873	0.0	0.0 *	(0.0, 0.0)
McLennan	128	158,695	80.7	84.6	(67.5, 101.7)
McMullen	0	682	0.0	0.0 *	(0.0, 0.0)
Madison	7	10,290	68.0	82.5	(16.3, 148.7)
Marion	Less than 5	8,649			
Martin	Less than 5	3,187			
Mason	Less than 5	2,966			
Matagorda	17	27,046	62.9	64.4	(28.3, 100.5)
Maverick	68	31,350	216.9	229.9 **	(166.6, 293.2)
Medina	21	29,570	71.0	75.3	(38.0, 112.6)
Menard	0	1,807	0.0	0.0 *	(0.0, 0.0)
Midland	53	83,377	63.6	64.5 *	(43.9, 85.1)
Milam	6	18,176	33.0	28.6 *	(0.0, 58.0)
Mills	5	3,902	128.1	122.1	(0.0, 253.0)
Mitchell	0	7,462	0.0	12.2 *	(0.0, 42.1)
Montague	Less than 5	14,659			
Montgomery	256	235,981	108.5	115.6 **	(99.2, 132.0)
Moore	Less than 5	13,589			
Morris	Less than 5	9,993			
Motley	Less than 5	1,025			
Nacogdoches	71	44,171	160.7	171.9 **	(125.8, 218.0)
Navarro	29	34,083	85.1	87.2	(49.8, 124.7)
Newton	16	11,243	142.3	147.1	(62.5, 231.7)
Nolan	Less than 5	11,127			
Nueces	244	226,363	107.8	112.3 **	(95.9, 128.8)
Ochiltree	0	6,376	0.0	0.4 *	(0.0, 6.0)
Oldham	0	1,447	0.0	0.0 *	(0.0, 0.0)
Orange	72	62,309	115.6	117.9	(85.7, 150.1)
Palo Pinto	7	20,341	34.4	30.3 *	(1.8, 58.9)
Panola	25	17,129	146.0	145.9	(77.6, 214.1)
Parker	49	70,020	70.0	74.5	(50.3, 98.6)
Parmer	0	6,711	0.0	0.0 *	(0.0, 0.0)
Pecos	14	12,025	116.4	130.5	(53.5, 207.6)
Polk	24	34,454	69.7	70.6	(37.1, 104.1)
Potter	121	82,935	145.9	155.0 **	(123.0, 186.9)
Presidio	Less than 5	5,215			

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

10. Adult asthma, 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 of Texas	13,824	15,678,989	88.2	95.2	
Rains	10	7,891	126.7	128.9	(34.4, 223.4)
Randall	61	79,598	76.6	79.2	(55.8, 102.5)
Reagan	0	2,137	0.0	0.0*	(0.0, 0.0)
Real	0	2,314	0.0	0.0*	(0.0, 0.0)
Red River	64	10,665	600.1	613.9**	(436.9, 790.9)
Reeves	6	8,875	67.6	73.5	(6.2, 140.8)
Refugio	Less than 5	5,760			
Roberts	Less than 5	656			
Robertson	18	11,532	156.1	154.9	(69.2, 240.6)
Rockwall	26	36,507	71.2	77.1	(43.1, 111.0)
Runnels	Less than 5	8,259			
Rusk	44	36,131	121.8	125.1	(81.5, 168.6)
Sabine	Less than 5	8,224			
San Augustine	11	6,821	161.3	155.1	(43.6, 266.6)
San Jacinto	20	17,626	113.5	113.6	(54.3, 173.0)
San Patricio	42	46,738	89.9	94.9	(61.6, 128.2)
San Saba	Less than 5	4,509			
Schleicher	Less than 5	2,161			
Scurry	0	11,887	0.0	0.0*	(0.0, 0.0)
Shackelford	Less than 5	2,514			
Shelby	39	18,820	207.2	211.3**	(133.0, 289.6)
Sherman	Less than 5	2,300			
Smith	131	133,789	97.9	98.6	(78.5, 118.6)
Somervell	0	5,302	0.0	0.0*	(0.0, 0.0)
Starr	17	35,840	47.4	52.9*	(24.5, 81.3)
Stephens	Less than 5	7,187			
Sterling	Less than 5	993			
Stonewall	Less than 5	1,199			
Sutton	0	2,975	0.0	0.0*	(0.0, 0.0)
Swisher	Less than 5	5,848			
Tarrant	875	1,099,370	79.6	87.5*	(80.9, 94.1)
Taylor	78	91,077	85.6	89.4	(66.2, 112.6)
Terrell	0	750	0.0	0.0*	(0.0, 0.0)
Terry	6	9,212	65.1	68.7	(4.8, 132.6)
Throckmorton	0	1,308	0.0	0.0*	(0.0, 0.0)
Titus	0	19,781	0.0	0.7*	(0.0, 5.3)
Tom Green	134	75,815	176.7	182.8**	(146.5, 219.1)
Travis	455	642,139	70.9	84.4*	(76.0, 92.9)

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

10. Adult asthma, 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 of Texas	13,824	15,678,989	88.2	95.2	
Trinity	27	10,906	247.6	246.2 **	(135.2, 357.3)
Tyler	Less than 5	16,011			
Upshur	26	27,088	96.0	95.7	(51.8, 139.7)
Upton	0	2,387	0.0	0.0 *	(0.0, 0.0)
Uvalde	Less than 5	18,332			
Val Verde	13	31,441	41.3	43.1 *	(15.7, 70.5)
Van Zandt	22	37,894	58.1	54.9 *	(26.7, 83.0)
Victoria	97	60,919	159.2	165.0 **	(126.5, 203.5)
Walker	61	49,815	122.5	147.6 **	(107.4, 187.9)
Waller	15	24,817	60.4	68.3	(29.5, 107.1)
Ward	Less than 5	7,418			
Washington	6	23,012	26.1	22.2 *	(0.0, 45.1)
Webb	109	132,563	82.2	91.7	(72.3, 111.2)
Wharton	44	29,827	147.5	151.4 **	(98.7, 204.1)
Wheeler	0	3,833	0.0	0.0 *	(0.0, 0.0)
Wichita	94	95,608	98.3	104.9	(80.4, 129.4)
Wilbarger	7	10,173	68.8	65.6	(6.2, 125.0)
Willacy	21	13,805	152.1	163.3	(82.9, 243.7)
Williamson	145	205,348	70.6	79.5 *	(64.9, 94.0)
Wilson	12	24,929	48.1	49.8 *	(16.7, 82.9)
Winkler	Less than 5	4,964			
Wise	10	38,498	26.0	28.9 *	(8.6, 49.2)
Wood	41	29,859	137.3	134.0	(84.4, 183.5)
Yoakum	Less than 5	5,067			
Young	0	13,408	0.0	0.0 *	(0.0, 0.0)
Zapata	5	8,655	57.8	60.0	(0.0, 121.6)
Zavala	Less than 5	7,765			

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

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