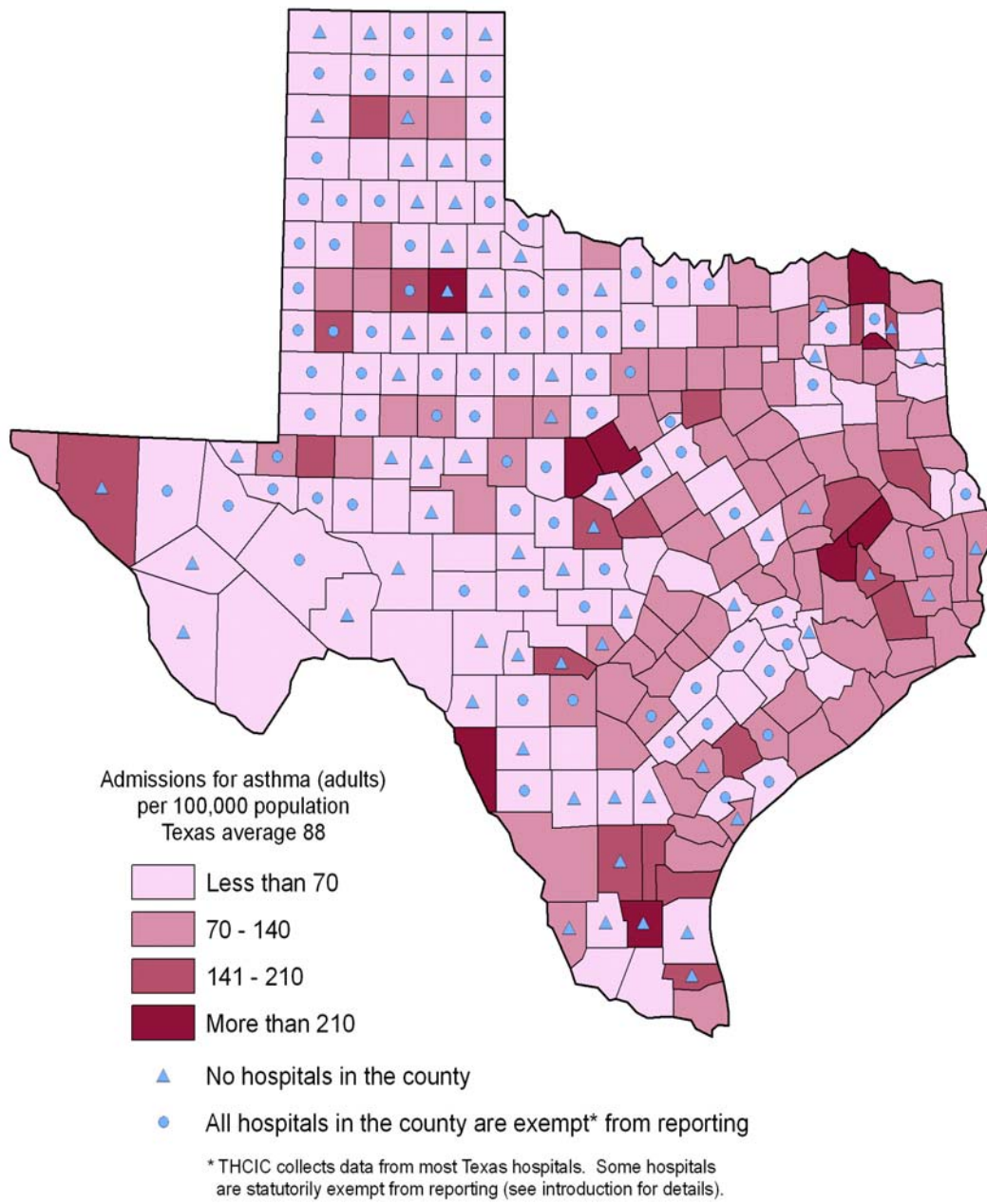


9. Adult Asthma

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.



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

Table 9. Adult Asthma 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	15,424	16,501,931	93.47		87.88	
Anderson	41	45,261	90.59		93.93	(63.33, 124.5)
Andrews	Less Than 5					
Angelina	92	60,254	152.69	119.27	136.38**	(111.8, 161.0)
Aransas	27	19,078	141.52	129.96	116.01	(74.11, 157.9)
Archer	5	7,091	70.51	121.01	62.07	(0.00, 133.3)
Armstrong	Less Than 5					
Atascosa	45	30,686	146.65	115.35	135.44**	(100.4, 170.5)
Austin	11	19,570	56.21	122.07	49.05	(6.37, 91.74)
Bailey	Less Than 5					
Bandera	35	15,486	226.01	124.89	192.78**	(145.3, 240.2)
Bastrop	65	51,151	127.07	112.53	120.30**	(92.80, 147.8)
Baylor	Less Than 5					
Bee	34	26,360	128.98	98.16	139.99**	(98.97, 181.0)
Bell	175	175,017	99.99	110.38	96.50	(81.49, 111.5)
Bexar	883	1,092,266	80.84	115.17	74.78*	(68.90, 80.66)
Blanco	Less Than 5					
Borden	Less Than 5					
Bosque	7	14,055	49.80	129.58	40.95	(0.00, 89.83)
Bowie	62	69,675	88.98	118.69	79.87	(56.93, 102.8)
Brazoria	152	199,288	76.27	110.57	73.49*	(59.43, 87.54)
Brazos	106	124,256	85.31	94.39	96.29	(77.02, 115.6)
Brewster	Less Than 5					
Briscoe	Less Than 5					
Brooks	16	5,509	290.43	125.69	246.17**	(166.9, 325.4)
Brown	85	29,107	292.03	123.35	252.22**	(217.4, 287.0)
Burleson	20	13,003	153.81	125.14	130.94	(79.22, 182.7)
Burnet	21	31,775	66.09	129.19	54.50*	(21.94, 87.06)
Caldwell	38	26,939	141.06	115.77	129.80**	(92.44, 167.2)
Calhoun	Less Than 5					
Callahan	13	10,446	124.45	127.26	104.18	(46.96, 161.4)
Cameron	271	249,884	108.45	116.03	99.57	(87.32, 111.8)
Camp	28	8,877	315.42	124.82	269.21**	(206.5, 331.9)
Carson	5	4,904	101.96	126.04	86.18	(2.26, 170.1)
Cass	10	23,437	42.67	129.59	35.08*	(0.00, 72.93)
Castro	Less Than 5					
Chambers	20	21,167	94.49	112.68	89.33	(46.61, 132.1)
Cherokee	43	36,027	119.35	120.02	105.94	(74.21, 137.7)
Childress	Less Than 5					
Clay	Less Than 5					
Cochran	Less Than 5					
Coke	Less Than 5					
Coleman	6	6,904	86.91	136.04	68.05	(0.00, 136.1)
Collin	337	460,207	73.23	108.28	72.05*	(62.70, 81.39)
Collingsworth	Less Than 5					
Colorado	Less Than 5					
Comal	72	71,006	101.40	121.23	89.11	(66.62, 111.6)

* 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 9. Adult Asthma 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	15,424	16,501,931	93.47		87.88	
Comanche	40	10,508	380.66	130.54	310.66**	(254.3, 367.0)
Concho	Less Than 5					
Cooke	17	29,069	58.48	121.68	51.20*	(16.12, 86.28)
Coryell	40	56,205	71.17	100.18	75.68	(47.88, 103.5)
Cottle	Less Than 5					
Crane	Less Than 5					
Crockett	Less Than 5					
Crosby	9	4,815	186.92	128.02	155.54	(71.51, 239.6)
Culberson	Less Than 5					
Dallam	Less Than 5					
Dallas	1,895	1,666,566	113.71	110.35	109.77**	(104.9, 114.6)
Dawson	Less Than 5					
Deaf Smith	Less Than 5					
Delta	5	4,279	116.85	124.59	99.91	(9.56, 190.3)
Denton	363	391,729	92.67	104.92	94.09	(83.79, 104.4)
De Witt	Less Than 5					
Dickens	6	2,253	266.31	113.02	251.02**	(120.3, 381.8)
Dimmit	Less Than 5					
Donley	Less Than 5					
Duval	19	9,317	203.93	118.84	182.80**	(120.1, 245.5)
Eastland	8	14,523	55.09	129.67	45.26	(0.00, 93.33)
Ector	202	89,041	226.86	116.88	206.78**	(186.3, 227.2)
Edwards	Less Than 5					
Ellis	100	94,353	105.98	112.75	100.14	(79.91, 120.4)
El Paso	571	496,822	114.93	116.02	105.53**	(96.84, 114.2)
Erath	24	26,212	91.56	113.51	85.94	(47.69, 124.2)
Falls	11	13,251	83.01	128.87	68.62	(18.14, 119.1)
Fannin	19	25,857	73.48	118.67	65.96	(28.30, 103.6)
Fayette	5	17,871	27.98	131.29	22.70*	(0.00, 65.77)
Fisher	Less Than 5					
Floyd	Less Than 5					
Foard	Less Than 5					
Fort Bend	183	323,125	56.63	109.27	55.22*	(44.11, 66.32)
Franklin	15	7,985	187.85	125.82	159.05**	(93.23, 224.9)
Freestone	12	14,739	81.42	118.60	73.13	(23.23, 123.0)
Frio	Less Than 5					
Gaines	Less Than 5					
Galveston	311	204,871	151.80	117.55	137.58**	(124.1, 151.0)
Garza	Less Than 5					
Gillespie	Less Than 5					
Glasscock	Less Than 5					
Goliad	7	5,559	125.92	126.05	106.42	(27.61, 185.2)
Gonzales	5	14,299	34.97	122.33	30.45*	(0.00, 80.34)
Gray	20	16,764	119.30	125.24	101.48	(55.95, 147.0)
Grayson	97	89,043	108.94	122.66	94.62	(74.65, 114.6)
Gregg	114	85,788	132.89	120.26	117.71**	(97.17, 138.3)

* 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 9. Adult Asthma 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	15,424	16,501,931	93.47		87.88	
Grimes	20	19,655	101.76	114.07	95.03	(50.97, 139.1)
Guadalupe	71	74,721	95.02	116.79	86.68	(64.34, 109.0)
Hale	25	25,744	97.11	116.45	88.84	(50.74, 126.9)
Hall	Less Than 5					
Hamilton	Less Than 5					
Hansford	Less Than 5					
Hardeman	Less Than 5					
Hardin	42	38,176	110.02	119.62	97.98	(67.10, 128.9)
Harris	2,028	2,632,813	77.03	110.30	74.40*	(70.52, 78.27)
Harrison	30	47,735	62.85	120.52	55.55*	(28.05, 83.06)
Hartley	Less Than 5					
Haskell	Less Than 5					
Hays	69	92,698	74.44	102.40	77.44	(56.03, 98.86)
Hemphill	Less Than 5					
Henderson	39	61,565	63.35	125.56	53.75*	(30.02, 77.47)
Hidalgo	278	433,294	64.16	111.26	61.43*	(51.93, 70.94)
Hill	36	26,862	134.02	123.26	115.83	(79.58, 152.1)
Hockley	18	16,910	106.45	117.30	96.68	(49.83, 143.5)
Hood	51	36,742	138.81	126.99	116.45	(85.90, 147.0)
Hopkins	7	25,281	27.69	121.76	24.23*	(0.00, 61.83)
Houston	33	18,513	178.25	121.76	155.96**	(112.0, 199.9)
Howard	31	25,582	121.18	114.95	112.30	(73.83, 150.8)
Hudspeth	5	2,254	221.83	118.08	200.13	(72.25, 328.0)
Hunt	91	62,074	146.60	116.70	133.82**	(109.3, 158.3)
Hutchinson	8	17,004	47.05	124.84	40.15*	(0.00, 85.43)
Irion	Less Than 5					
Jack	Less Than 5					
Jackson	12	10,866	110.44	123.23	95.47	(38.46, 152.5)
Jasper	28	26,996	103.72	123.94	89.15	(53.09, 125.2)
Jeff Davis	Less Than 5					
Jefferson	229	188,775	121.31	118.50	109.05**	(95.10, 123.0)
Jim Hogg	Less Than 5					
Jim Wells	65	29,243	222.28	118.25	200.25**	(164.8, 235.7)
Johnson	166	106,780	155.46	113.42	146.02**	(127.1, 165.0)
Jones	Less Than 5					
Karnes	Less Than 5					
Kaufman	86	63,271	135.92	113.97	127.05**	(102.5, 151.6)
Kendall	18	20,816	86.47	122.75	75.05	(33.77, 116.3)
Kenedy	Less Than 5					
Kent	Less Than 5					
Kerr	32	36,392	87.93	136.22	68.77	(39.14, 98.39)
Kimble	Less Than 5					
King	Less Than 5					
Kinney	Less Than 5					
Kleberg	40	23,524	170.04	110.33	164.19**	(123.2, 205.1)
Knox	Less Than 5					

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

Table 9. Adult Asthma 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	15,424	16,501,931	93.47		87.88	
Lamar	56	37,728	148.43	125.65	125.84**	(95.54, 156.1)
Lamb	5	10,634	47.02	126.17	39.70	(0.00, 96.66)
Lampasas	26	15,662	166.01	118.87	148.77**	(100.4, 197.1)
La Salle	Less Than 5					
Lavaca	9	14,852	60.60	133.49	48.36	(1.51, 95.21)
Lee	Less Than 5					
Leon	17	12,690	133.96	129.71	110.03	(58.61, 161.5)
Liberty	124	55,891	221.86	115.02	205.48**	(179.5, 231.5)
Limestone	22	17,400	126.44	120.32	111.95	(66.35, 157.5)
Lipscomb	Less Than 5					
Live Oak	5	9,489	52.69	118.31	47.45	(0.00, 109.7)
Llano	11	15,496	70.99	143.71	52.62	(8.42, 96.83)
Loving	Less Than 5					
Lubbock	254	190,605	133.26	112.15	126.58**	(112.3, 140.9)
Lynn	Less Than 5					
McCulloch	Less Than 5					
McClellan	117	167,237	69.96	115.59	64.48*	(49.47, 79.48)
McMullen	Less Than 5					
Madison	8	10,658	75.06	106.13	75.35	(13.31, 137.4)
Marion	6	8,869	67.65	130.75	55.12	(0.00, 116.4)
Martin	Less Than 5					
Mason	Less Than 5					
Matagorda	24	27,739	86.52	119.33	77.24	(40.98, 113.5)
Maverick	85	33,257	255.59	116.45	233.83**	(200.3, 267.4)
Medina	32	31,593	101.29	115.88	93.12	(58.64, 127.6)
Menard	Less Than 5					
Midland	89	87,632	101.56	119.28	90.71	(70.30, 111.1)
Milam	17	18,833	90.27	125.06	76.89	(33.91, 119.9)
Mills	Less Than 5					
Mitchell	6	7,780	77.12	103.60	79.31	(5.81, 152.8)
Montague	13	15,260	85.19	130.51	69.54	(22.79, 116.3)
Montgomery	234	267,434	87.50	112.96	82.52	(70.52, 94.52)
Moore	8	13,806	57.95	113.82	54.23	(1.60, 106.9)
Morris	18	10,212	176.26	129.48	145.02	(87.65, 202.4)
Motley	Less Than 5					
Nacogdoches	78	46,556	167.54	112.00	159.36**	(130.5, 188.2)
Navarro	51	35,982	141.74	118.46	127.47**	(95.51, 159.4)
Newton	10	11,138	89.78	120.39	79.45	(22.47, 136.4)
Nolan	Less Than 5					
Nueces	243	233,894	103.89	117.69	94.05	(81.47, 106.6)
Ochiltree	Less Than 5					
Oldham	Less Than 5					
Orange	88	64,242	136.98	121.01	120.59**	(96.93, 144.3)
Palo Pinto	24	20,846	115.13	125.16	97.99	(57.15, 138.8)
Panola	22	17,781	123.73	125.31	105.18	(60.99, 149.4)
Parker	76	76,555	99.28	115.08	91.90	(69.67, 114.1)

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

Table 9. Adult Asthma 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	15,424	16,501,931	93.47		49.17	
Parmer	Less Than 5					
Pecos	Less Than 5					
Polk	31	36,956	83.88	52.10	69.39	(51.32, 87.47)
Potter	133	85,892	154.85	43.40	53.22	(40.23, 66.21)
Presidio	Less Than 5					
Rains	7	8,875	78.87			
Randall	60	83,576	71.79	43.21	30.27*	(17.07, 43.47)
Reagan	Less Than 5					
Real	Less Than 5					
Red River	55	10,730	512.58	55.66	210.13**	(177.7, 242.6)
Reeves	Less Than 5					
Refugio	Less Than 5					
Roberts	Less Than 5					
Robertson	9	11,902	75.62	53.05	44.89	(13.32, 76.45)
Rockwall	27	43,146	62.58	39.18	23.95	(4.66, 43.24)
Runnels	9	8,273	108.79			
Rusk	47	37,363	125.79	48.83	84.32	(65.75, 102.9)
Sabine	Less Than 5			60.00	55.98	(20.73, 91.23)
San Augustine	5	7,035	71.07	59.81	105.84	(67.18, 144.5)
San Jacinto	45	19,192	234.47	48.55	47.79**	(21.81, 73.78)
San Patricio	45	48,607	92.58	43.29	48.10	(30.81, 65.39)
San Saba	9	4,590	196.08			
Schleicher	Less Than 5					
Scurry	Less Than 5					
Shackelford	Less Than 5					
Shelby	27	19,651	137.40	49.82	78.58	(53.23, 103.9)
Sherman	Less Than 5					
Smith	107	140,371	76.23	47.24	48.23*	(38.49, 57.97)
Somervell	Less Than 5					
Starr	17	38,568	44.08	39.90	44.73*	(24.51, 64.94)
Stephens	Less Than 5					
Sterling	Less Than 5					
Stonewall	Less Than 5					
Sutton	Less Than 5			46.01	144.59	(77.56, 211.6)
Swisher	Less Than 5					
Tarrant	945	1,160,170	81.45	39.00	45.45*	(41.73, 49.18)
Taylor	80	93,623	85.45	44.47	46.67	(34.38, 58.96)
Terrell	Less Than 5					
Terry	15	9,336	160.67			
Throckmorton	Less Than 5					
Titus	8	20,654	38.73	44.77	96.32*	(70.24, 122.4)
Tom Green	109	78,631	138.62	46.38	39.96**	(26.83, 53.10)
Travis	471	665,736	70.75	34.41	37.64*	(32.40, 42.88)
Trinity	44	11,378	386.71	57.25	37.29*	(6.22, 68.36)
Tyler	16	16,610	96.33	50.60	57.81	(30.45, 85.17)
Upshur	26	28,614	90.86	49.04	75.02	(53.84, 96.19)

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

Table 9. Adult Asthma 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	15,424	16,501,931	93.47		87.88	
Upton	Less Than 5					
Uvalde	Less Than 5					
Val Verde	9	33,245	27.07	119.60	24.11*	(0.00, 57.20)
Van Zandt	31	40,144	77.22	125.03	65.80	(36.35, 95.25)
Victoria	113	62,976	179.43	120.22	159.00**	(135.0, 183.0)
Walker	103	52,064	197.83	94.05	224.08**	(194.3, 253.9)
Waller	17	26,459	64.25	108.40	63.14	(24.19, 102.1)
Ward	Less Than 5					
Washington	7	24,315	28.79	122.59	25.02*	(0.00, 63.23)
Webb	136	140,556	96.76	110.19	93.55	(76.78, 110.3)
Wharton	31	30,753	100.80	120.94	88.79	(54.58, 123.0)
Wheeler	Less Than 5					
Wichita	78	96,651	80.70	115.40	74.50	(54.75, 94.26)
Wilbarger	Less Than 5					
Willacy	22	14,289	153.96	113.61	144.37**	(92.59, 196.2)
Williamson	135	230,561	58.55	109.67	56.88*	(43.75, 70.00)
Wilson	24	27,537	87.16	116.77	79.51	(42.72, 116.3)
Winkler	5	4,993	100.14	123.24	86.56	(2.46, 170.7)
Wise	12	41,790	28.72	114.89	26.63*	(0.00, 56.74)
Wood	40	32,512	123.03	128.33	102.13	(69.83, 134.4)
Yoakum	Less Than 5					
Young	Less Than 5					
Zapata	8	9,081	88.10	117.91	79.60	(15.84, 143.4)
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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** Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.