Texas TB Surveillance Report

2017 Annual Report

Epidemiology and Supplemental Projects Group
Prepared August, 2018

TEXAS Health and Human Services

Texas Department of State Health Services

The Texas TB Surveillance Report is an annual report generated by:

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Important Notes on the Data:

This report describes Tuberculosis (TB) cases reported to the Texas Department of State Health Services Surveillance Program from January 1 to December 31, 2017, as well as historical data.

Population numbers used to calculate rates for 2012-2016 data are from the National Center for Health Statistics [Intercensal estimates of the resident population of the United States for July 1, 2000-July 1, 2009, by year, county, single-year of age (0, 1, 2, .., 85 years and over), bridged race, Hispanic origin, and sex].

Population numbers used to calculate rates for 2017 data are from the National Center for Health Statistics [Estimates of the April 1, 2017 resident population of the United States, by county, single-year of age (0, 1, 2, …, 85 years and over), bridged race, Hispanic origin, and sex].

Population numbers used to calculate rates for 2011-2017 data are from the National Center for Health Statistics [Vintage 2017 postcensal estimates of the resident population of the United States April 1, 2013, July 1, 2013-July 1, 2017, by year, county, single-year of age (0, 1, 2, .., 85 years and over), bridged race, Hispanic origin, and sex].

Data on gender identity is not standardized in the Texas TB surveillance system. The sex of persons represented in this data may or may not reflect their current gender identity. DSHS is working to improve data collection on this population.

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Definitions

Tuberculosis (TB) infection is determined by a positive result from an Interferon-Gamma Release Assay (IGRA) test such as T-Spot TB® or QuantiFERON® - TB GOLD In-Tube (QFT-G) or a tuberculin skin test (TST), a normal chest radiograph with no presenting symptoms of TB disease.

Tuberculosis disease, is a contagious and an often severe airborne disease caused by *Mycobacterium tuberculosis.* TB typically affects the lungs, but it also may affect any other organ of the body. It is usually treated with a regimen of drugs taken for 6 months to 2 years, depending on the severity of the disease.

TB is used as an abbreviation for tuberculosis throughout the report.

Reporting Rules

The rules and regulations for reporting Tuberculosis have been adopted in the Texas Administrative Code, Chapter 97. The provisions for this chapter are issued under the Communicable Disease Prevention and Control Act, Health and Safety Code, Chapter 81, which provides the Board of Health with the authority to adopt rules concerning the reporting of communicable diseases; and §12.001, which provides the Texas Board of Health with the authority to adopt rules for the performance of every duty imposed by law on the Texas Board of Health, the Texas Department of State Health Services, and the Commissioner of Health. A copy of the rules can be obtained from the Texas Department of State Health Services at:

http://www.dshs.texas.gov/idcu/disease/tb/reporting/

Information on how to report Tuberculosis cases can be obtained by calling your local or regional health department, or by calling 1-800-705-8868.

Tuberculosis: Brief Overview and Quick Facts

Description and Background

Tuberculosis (TB) is a disease caused by bacteria that spread from person to person through the air. TB usually affects the lungs, but it can also affect other parts of the body, such as the brain, the kidneys or the spine. A person with TB can die if treatment is not provided.

Not everyone infected with the bacteria becomes sick. Persons who do have symptoms – such as a cough, fever, night sweats, weight loss, chest pain, or fatigue – are most likely suffering from TB disease. Those with TB disease may be infectious. Prompt treatment is essential to end symptoms and prevent disability or death. Those who are infected with TB bacteria but do not have any symptoms and have a normal chest x-ray have latent TB infection (LTBI). Those with LTBI still require treatment to decrease the risk of future TB disease.

Tuberculosis Screening and Treatment*

There are two tests that can be used to help detect TB infection: a skin test or a special TB blood test. The Mantoux tuberculin skin test is performed by injecting a small amount of fluid (called tuberculin) into the skin in the lower part of the arm. A person given the tuberculin skin test must return within 48 to 72 hours to have a trained health care worker look for a reaction on the arm. The special TB blood test measures how the patient's immune system reacts to the germs that cause TB.

In recent years, blood tests known as Interferon Gamma Release Assays (IGRAs) have been developed to screen for tuberculosis (TB). White blood cells release interferon gamma (IFN-g) in response to contact with TB antigens. If the test result is positive, there is an immune response indicating the presence of TB bacteria.

There are currently two Federal Drug Administration (FDA) approved blood tests on the market: the QuantiFERON®–TB Gold In-Tube test (QFT-GIT) and the T-SPOT®.TB test (T-Spot). The Department of State Health Services Laboratory Services Section Molecular and Serological Analysis Group processes specimens for the QFT-GIT test. Although the tuberculin skin test has been the conventional screening method in Texas, regional and local tuberculosis programs are adopting the IGRA test as the standard tool to screen for TB.

Treating TB disease generally requires up to four medications given for six months. Treating individuals with drug-resistant TB requires costly medications that may be used for an extended period of time. LTBI is generally treated with one medication for 9-12 months. Treatment of suspects varies according to the outcome of their diagnostic tests.

2017 Texas Tuberculosis Quick Facts

Number of reported Tuberculosis cases:	1127
Tuberculosis rate per 100,000 Texas residents:	4.0
Percent change in Tuberculosis rate from 2016:	-9.8%

Table 1: TB Case Count and Rate by Sex, Race/Ethnicity and Age Group, 2013-2017										
	2013		2014		2015		2016		2017	
	Count	Rate*	Count	Rate*	Count	Rate*	Count	Rate*	Count	Rate*
Sex										
Male	798	6	840	6.2	857	6.2	819	5.8	734	5.2
Female	423	3.2	428	3.2	476	3.5	427	3.1	393	2.8
Race/Ethnicity										
White	173	1.5	123	1	143	1.2	110	0.9	96	0.8
Black	229	7.2	222	6.9	250	7.5	235	6.9	213	6.1
Hispanic	623	6.1	690	6.6	671	6.3	666	6.1	593	5.3
API†	196	16.4	231	18.4	266	20	238	17.1	225	15.5
AIAN‡	0	0	3	3	3	3	1	1	0	0
Age Group										
0-5	55	2.4	52	2.2	49	2.1	48	2	38	1.6
6-13	15	0.5	20	0.6	27	0.8	19	0.6	16	0.5
14-17	28	1.8	25	1.6	31	1.9	29	1.8	28	1.7
18-24	129	4.8	116	4.2	112	4.1	130	4.7	84	3
25-34	202	5.3	213	5.4	231	5.7	204	5	173	4.2
35-44	163	4.5	201	5.5	211	5.7	192	5.1	196	5.2
45-54	223	6.5	213	6.1	220	6.3	218	6.2	179	5
55-64	198	6.9	216	7.3	225	7.4	194	6.2	187	5.9
65-74	106	6.1	117	6.4	119	6.2	118	5.9	118	5.6
75+	102	8.3	96	7.6	108	8.3	98	7.3	108	7.8
Total	1221	4.6	1269	4.7	1333	4.9	1250	4.5	1127	4

* Rates represent cases per 100,000 population.

† API: Asian/Pacific Islander

‡ AIAN: American Indian/Alaska Native

Note: Transgender persons may be included in male, female, or unknown sex categories

Table 2: TB Case Count and Rate by Age Group, 2017										
	White		Black		Hispanic		API†		AIAN‡	
Age Group	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
0-5	0	0	5	1.7	27	2.2	6	5.3	0	0
6-13	0	0	4	1	8	0.5	4	2.6	0	0
14-17	2	0.4	2	1	19	2.4	5	6.6	0	0
18-24	1	0.1	9	2.4	50	3.9	24	18.8	0	0
25-34	10	0.6	40	7.2	90	5.2	33	13	0	0
35-44	14	0.9	46	9.6	106	6.8	30	11.8	0	0
45-54	19	1.2	42	9.5	87	6.9	31	15.5	0	0
55-64	25	1.4	40	10.5	81	9.1	41	29.3	0	0
65-74	11	0.9	17	8.3	65	13.2	25	28.1	0	0
75+	14	1.5	8	7.1	60	20	26	55.9	0	0
Total	96	-	213	-	593	-	225	-	0	-

* Rates represent cases per 100,000

† API: Asian/Pacific Islander

‡ AIAN: American Indian/Alaska Native

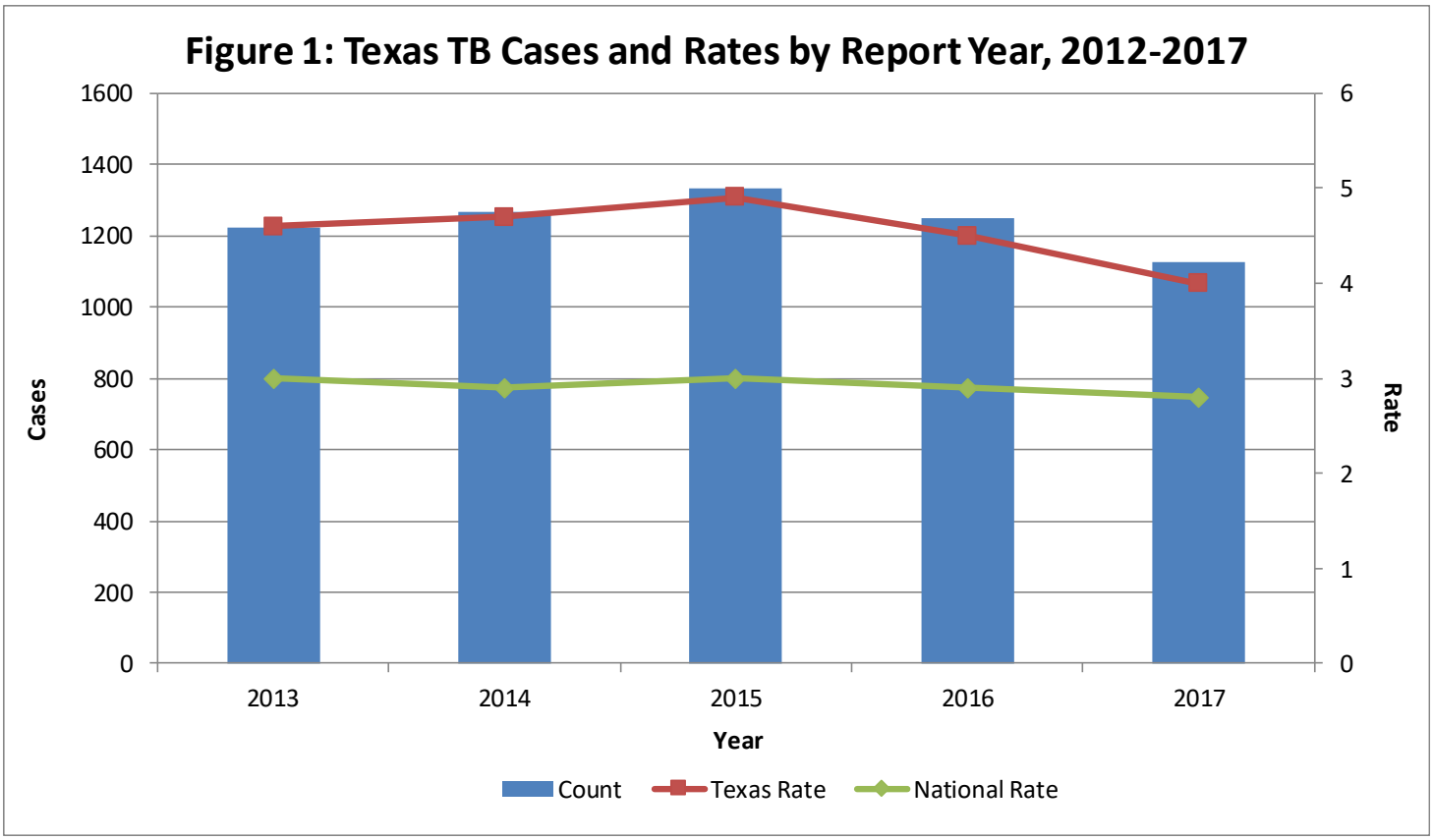
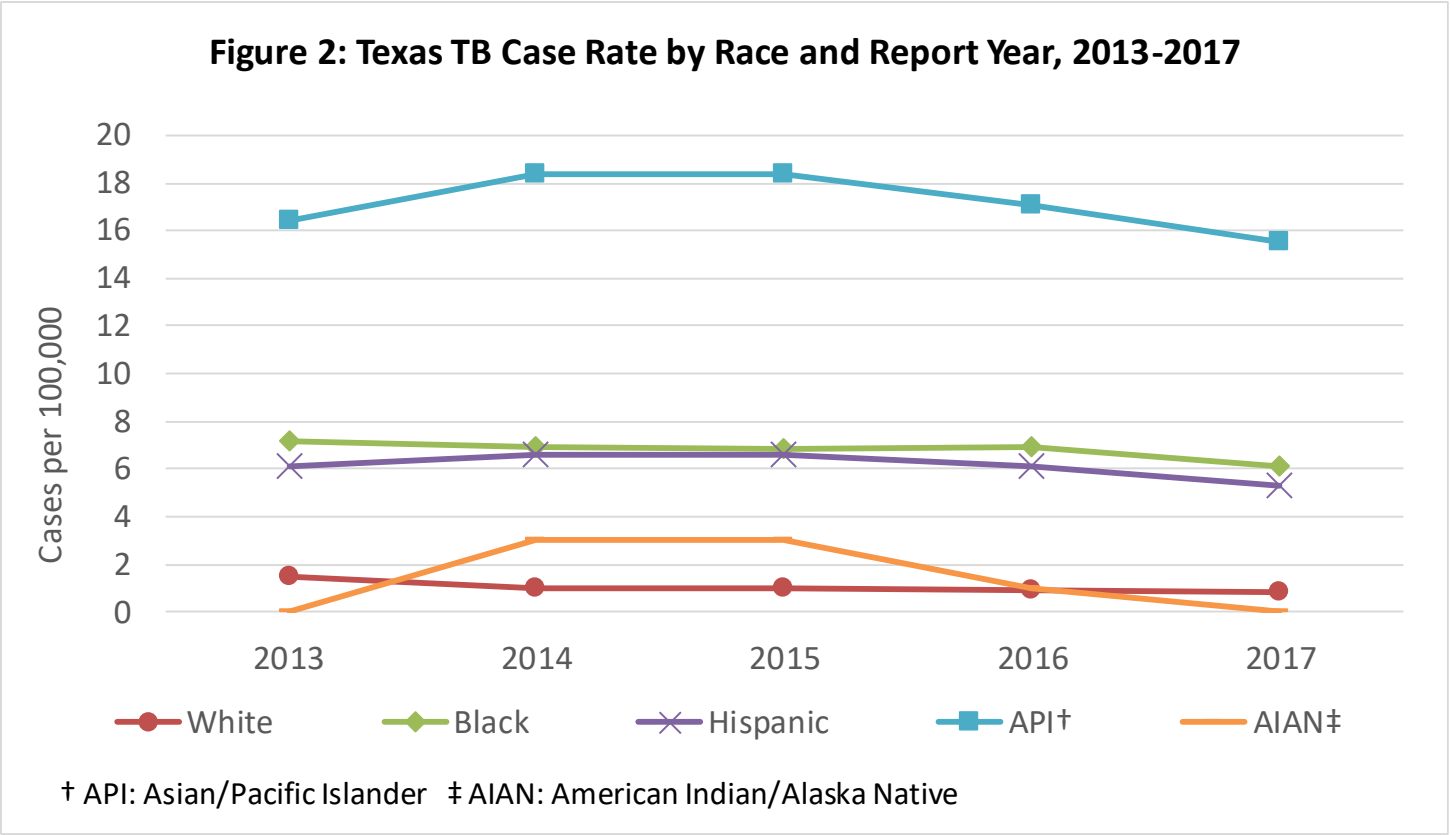


Figure 1: Texas TB Cases and Rates by Report Year, 2012-2017
Cases
Rate
Year
2013
2014
2015
2016
2017
Count
Texas Rate
National Rate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Cases per 100,000
2013
2014
2015
2016
2017
White
Black
Hispanic
API†
AIAN‡
† API: Asian/Pacific Islander ‡ AIAN: American Indian/Alaska Native

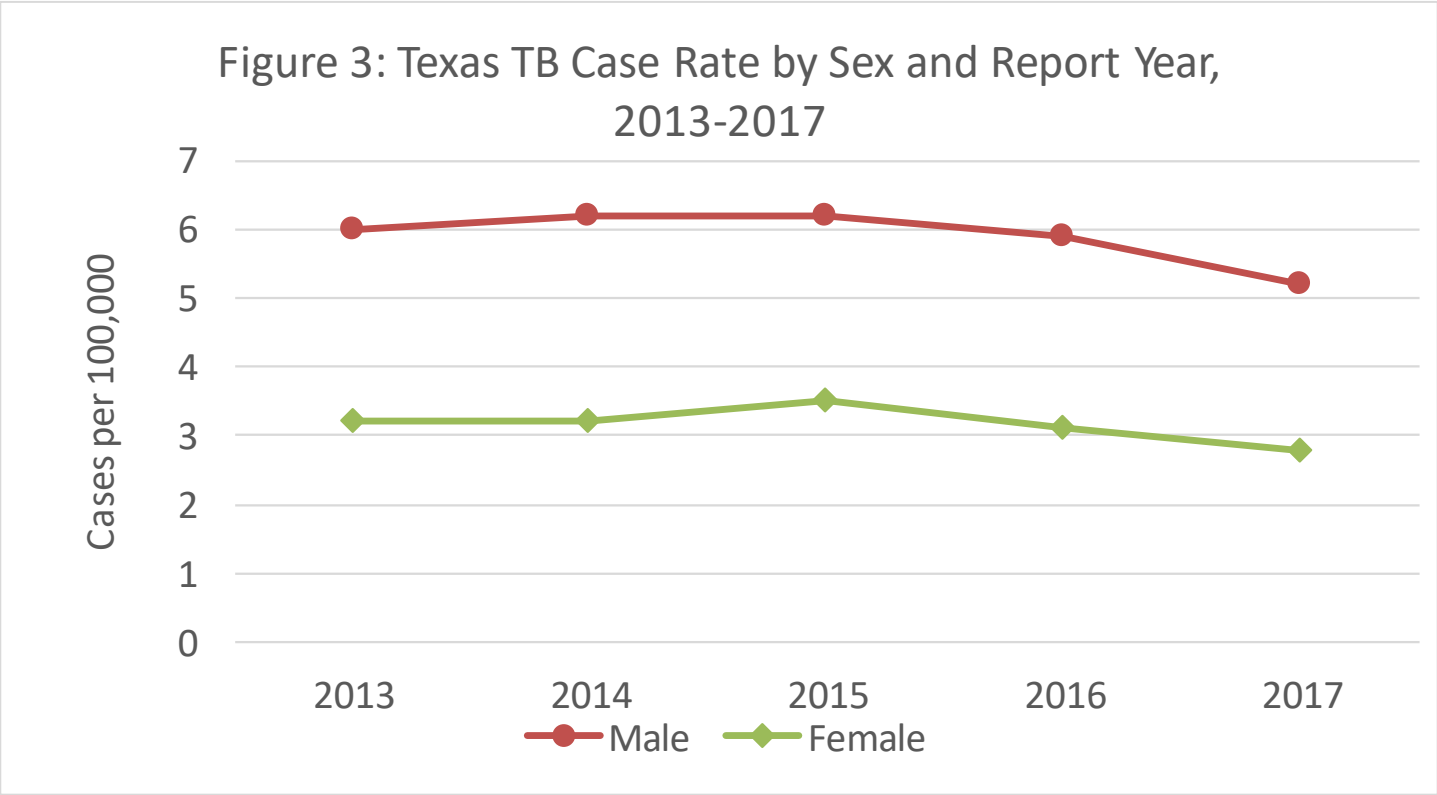
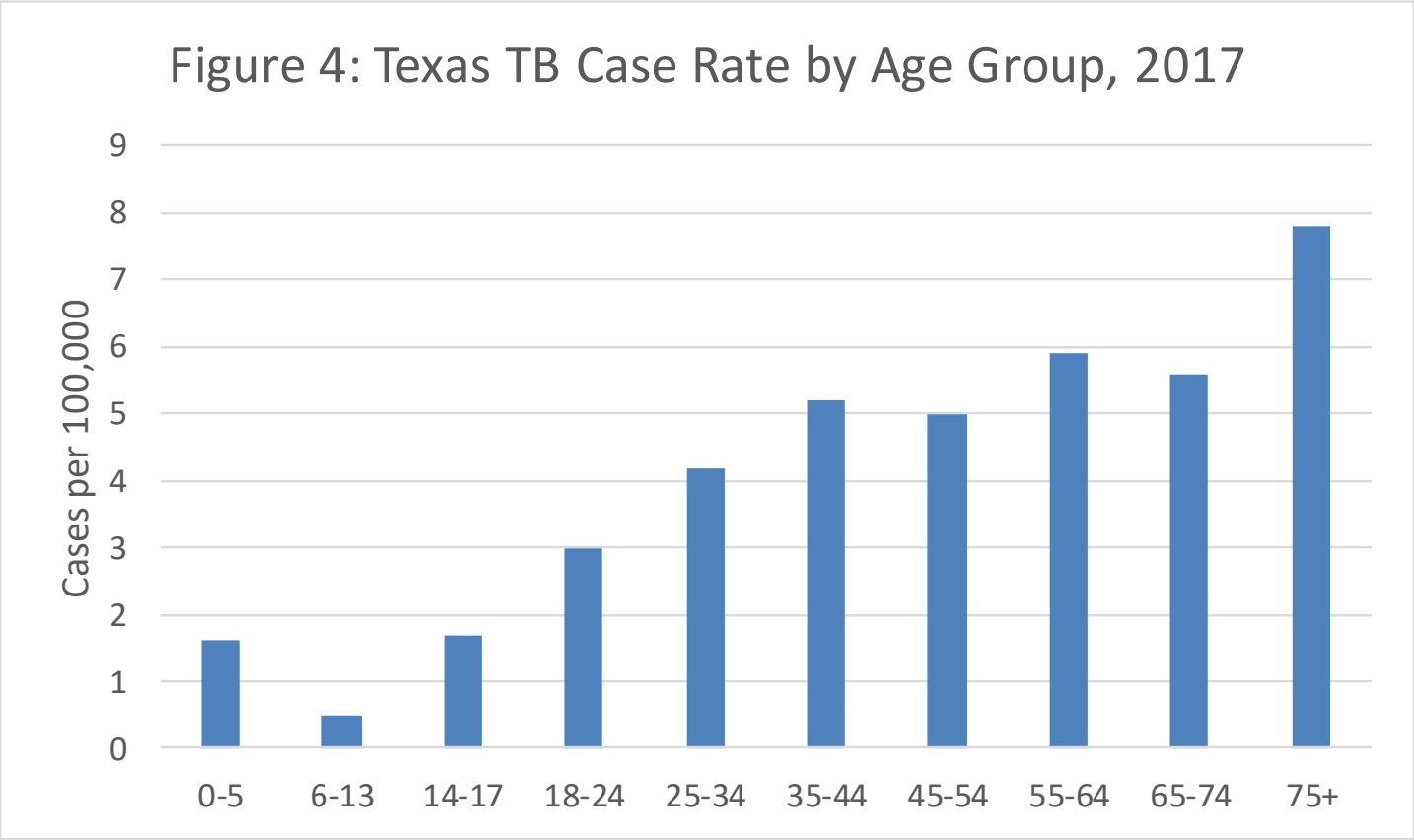


Figure 3: Texas TB Case Rate by Sex and Report Year, 2013-2017
Cases per 100,000
7
6
5
4
3
2
1
0
2013
2014
2015
2016
2017
Male
Female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Cases per 100,000
9
8
7
6
5
4
3
2
1
0
0-5
6-13
14-17
18-24
25-34
35-44
45-54
55-64
65-74
75+

Table 3: TB Case Count and Rate by Age Group, Race/Ethnicity and Sex, 2013-2017																				
	2013				2014				2015				2016				2017			
	Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
Age Group	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***
0-5	34	2.8	21	1.8	26	2.2	26	2.3	20	1.6	29	2.5	25	2	22	1.9	16	1.3	22	1.9
6-13	8	0.5	7	0.4	11	0.7	9	0.6	8	0.5	19	1.2	5	0.3	14	0.9	8	0.5	8	0.5
14-17	14	1.8	14	1.9	12	1.5	13	1.7	16	2	15	1.9	13	1.6	16	2	17	2	11	1.4
18-24	77	5.5	52	4	71	5	45	3.4	66	4.6	46	3.4	79	5.5	50	3.7	58	4.1	26	1.9
25-34	123	6.3	79	4.2	139	7	74	3.8	146	7.2	85	4.3	134	6.4	69	3.4	109	5.1	64	3.1
35-44	103	5.8	60	3.3	139	7.7	62	3.4	140	7.6	71	3.8	127	6.8	65	3.5	129	6.8	67	3.5
45-54	163	9.5	60	3.5	150	8.7	62	3.6	153	8.8	67	3.8	162	9.3	56	3.2	118	6.7	61	3.4
55-64	146	10.5	52	3.5	151	10.6	65	4.3	151	10.2	74	4.7	144	9.5	49	3.1	132	8.5	55	3.4
65-74	69	8.5	37	4	78	9.1	39	4	86	9.6	33	3.2	77	8.2	41	3.8	79	8.1	39	3.5
75+	61	12.3	41	5.6	63	12.3	33	4.4	71	13.4	37	4.8	53	9.6	45	5.7	68	11.9	40	4.9
Race/Ethnicity																				
White	120	2	53	0.9	82	1.4	40	0.7	97	1.6	46	0.8	75	1.3	31	0.5	74	1.2	22	0.4
Black	147	9.6	82	5	150	9.6	72	4.3	166	10.3	84	4.9	156	9.5	79	4.5	137	8.2	76	4.2
Hispanic	410	8	213	4.2	471	9	219	4.2	449	8.4	222	4.2	451	8.2	215	4	385	6.9	208	3.8
API**	121	20.8	75	12.3	135	22.1	96	14.9	144	22.3	122	17.9	136	20	102	14.3	138	19.5	87	11.7
AIAN***	-	-	-	-	2	4	1	2	1	2	2	3.9	1	1.9	-	-	-	-	-	-
Total	798	40.5	423	22.4	840	46	428	26.1	857	44.6	476	31.7	819	40.9	427	23.3	734	35.7	393	20

* Rates represent cases per 100,000

** API: Asian/Pacific Islander

*** AIAN: American Indian/Alaska Native

Note: Transgender persons may be included in male, female, or unknown categories

Table 3-1: TB Case Count and Rate among Males by Age Group, Race/Ethnicity, 2013-2017										
	2013		2014		2015		2016		2017	
Age Group	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***	**Cases**	**Rate***
0-5	34	2.8	26	2.2	20	1.6	25	2	16	1.3
6-13	8	0.5	11	0.7	8	0.5	5	0.3	8	0.5
14-17	14	1.8	12	1.5	16	2	13	1.6	17	2
18-24	77	5.5	71	5	66	4.6	79	5.5	58	4.1
25-34	123	6.3	139	7	146	7.2	134	6.4	109	5.1
35-44	103	5.8	139	7.7	140	7.6	127	6.8	129	6.8
45-54	163	9.5	150	8.7	153	8.8	162	9.3	118	6.7
55-64	146	10.5	151	10.6	151	10.2	144	9.5	132	8.5
65-74	69	8.5	78	9.1	86	9.6	77	8.2	79	8.1
75+	61	12.3	63	12.3	71	13.4	53	9.6	68	11.9
Race/Ethnicity										
White	120	2	82	1.4	97	1.6	75	1.3	74	1.2
Black	147	9.6	150	9.6	166	10.3	156	9.5	137	8.2
Hispanic	410	8	471	9	449	8.4	451	8.2	385	6.9
API†	121	20.8	135	22.1	144	22.3	136	20	138	19.5
AIAN‡	0	0.0	2	4	1	2	1	1.9	0	0

* Rates represent cases per 100,000

† API: Asian/Pacific Islander

‡ AIAN: American Indian/Alaska Native

Note: Transgender persons may be included in male, female, or unknown categories

Table 3-2: TB Case Count and Rate among Females by Age Group, Race/Ethnicity, 2013-2017										
	2013		2014		2015		2016		2017	
Age Group	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
0-5	21	1.8	26	2.3	29	2.5	22	1.9	22	1.9
6-13	7	0.4	9	0.6	19	1.2	14	0.9	8	0.5
14-17	14	1.9	13	1.7	15	1.9	16	2	11	1.4
18-24	52	4	45	3.4	46	3.4	50	3.7	26	1.9
25-34	79	4.2	74	3.8	85	4.3	69	3.4	64	3.1
35-44	60	3.3	62	3.4	71	3.8	65	3.5	67	3.5
45-54	60	3.5	62	3.6	67	3.8	56	3.2	61	3.4
55-64	52	3.5	65	4.3	74	4.7	49	3.1	55	3.4
65-74	37	4	39	4	33	3.2	41	3.8	39	3.5
75+	41	5.6	33	4.4	37	4.8	45	5.7	40	4.9
Race/Ethnicity										
White	53	0.9	40	0.7	46	0.8	31	0.5	22	0.4
Black	82	5	72	4.3	84	4.9	79	4.5	76	4.2
Hispanic	213	4.2	219	4.2	222	4.2	215	4	208	3.8
API†	75	12.3	96	14.9	122	17.9	102	14.3	87	11.7
AIAN‡	0	0	1	2	2	3.9	0	0	0	0

* Rates represent cases per 100,000

† API: Asian/Pacific Islander

‡ AIAN: American Indian/Alaska Native

Note: Transgender persons may be included in male, female, or unknown categories

Table 4: TB Deaths and Rate by Sex, Race/Ethnicity and Age Group, 2013-2017										
	2013		2014		2015		2016		2017	
	Count	Rate*	Count	Rate*	Count	Rate*	Count	Rate*	Count	Rate*
Sex										
Male	60	0.4	50	0.4	52	0.4	39	0.3	29	0.2
Female	25	0.2	16	0.1	24	0.2	25	0.2	7	0
Race/Ethnicity										
White	16	0.1	10	0.1	16	0.1	10	0.1	4	0
Black	16	0.5	13	0.4	15	0.5	19	0.6	10	0.3
Hispanic	45	0.4	34	0.3	32	0.3	28	0.3	16	0.1
API†	8	0.7	9	0.7	13	1	7	0.5	6	0.4
AIAN‡	0	0	0	0	0	0	0	0	0	0
Age Group										
0-5	0	0	0	0	0	0	0	0	0	0
6-13	0	0	0	0	0	0	0	0	0	0
14-17	0	0	1	0.1	0	0	0	0	0	0
18-24	2	0.1	2	0.1	2	0.1	2	0.1	0	0
25-34	2	0.1	1	0	0	0	1	0	0	0
35-44	5	0.1	8	0.2	7	0.2	1	0	4	0.1
45-54	20	0.6	12	0.3	14	0.4	11	0.3	9	0.3
55-64	18	0.6	15	0.5	22	0.7	15	0.5	9	0.3
65-74	9	0.5	10	0.5	15	0.8	17	0.8	3	0.1
75+	29	2.4	17	1.3	16	1.2	17	1.3	11	0.8
Total	85	4.4	66	3.1	76	3.4	64	3	36	1.6

* Rates represent cases per 100,000 population.

† API: Asian/Pacific Islander

‡ AIAN: American Indian/Alaska Native

Note: Transgender persons may be included in male, female, or unknown sex categories

Risk Factors and Drug Resistance TB Cases in Texas

Table 5-1: Risk Factors Among TB Cases, 2012 - 2016

Risk Factor	2013		2014		2015		2016		2017	
	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
Non-US Born*	674	55%	766	60%	772	58%	739	59%	689	61%
Homeless	84	7%	63	5%	89	7%	64	5%	40	4%
Correctional Facility Resident	120	10%	146	12%	152	11%	145	12%	94	8%
Alcohol Abuse	214	18%	215	17%	221	17%	188	15%	129	11%
Diabetes	228	19%	254	20%	241	18%	233	19%	212	19%
HIV Positive	80	7%	66	5%	76	6%	69	6%	73	6%
IDU†	36	3%	45	4%	35	3%	22	2%	13	1%
Non-IDU‡	127	10%	128	10%	129	10%	108	9%	95	8%

* For a list of High Burden Countries see the World Health Organization (WHO) Global tuberculosis report
† Injection Drug Use
‡ Non-Injection Drug Use
Note: Case can count to multiple risks. Proportion represents percentage of total cases per year.

Table 5-2: HIV Status Among TB Cases, 2013 - 2017

Counted Year	Negative in past		Not offered		Positive		Refused		Unknown	
	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
2013	1005	82%	121	10%	80	7%	15	1%	0	0%
2014	1055	83%	121	10%	66	5%	23	2%	4	0%
2015	1133	85%	105	8%	76	6%	18	1%	1	0%
2016	1079	86%	94	8%	69	6%	7	1%	1	0%
2017	892	79%	149	13%	73	6%	8	1%	2	0%

Table 6: Occupational Risk Factors Among TB Cases, 2013 - 2017

Occupation	2013		2014		2015		2016		2017	
	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
Correctional Facility	5	0%	3	0%	1	0%	2	0%	6	1%
Health Care Worker	45	4%	24	2%	36	3%	31	2%	33	3%
Migrant/ Seasonal	10	1%	3	0%	3	0%	3	0%	2	0%
Unemployed	299	24%	308	24%	395	30%	363	29%	294	26%

Table 7: Drug Resistance Among TB Cases, 2013 - 2017

	2013		2014		2015		2016		2017	
	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
Pan-susceptible	1114	90%	1149	94%	1196	94%	1137	85%	1060	85%
Isonaizid Resistant	61	5%	70	6%	76	6%	63	5%	30	2%
Rifampin Resistant	1	0%	1	0%	0	0%	1	0%	0	0%
MDR*	6	0%	7	1%	9	1%	10	1%	8	1%
XDR†	1	0%	0	0%	0	0%	0	0%	0	0%
Resistance Detected to Any Drug‡	38	3%	42	3%	52	4%	39	3%	29	2%

* Multidrug-resistant Tuberculosis, resistant to at least isoniazid and rifampin

† Extensively Drug Resistant Tuberculosis, resistant to isoniazid and rifampin, plus any fluoroquinolone and at least one of three injectable second-line drugs (i.e., amikacin, kanamycin, or capreomycin)

‡ Including isonaizid, rifampin, pyrazinamide etc

Non-US Born TB Cases in Texas

Table 8: Non-US Born versus US-born Among Texas TB Cases, 2013 - 2017										
	2013		2014		2015		2016		2017	
	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
Non-US Born	674	55%	766	60%	772	58%	739	59%	689	61%
US-born	547	45%	503	40%	561	42%	509	41%	438	39%
Total	1221	100%	1269	100%	1333	100%	1250	100%	1127	100%

Table 9: Non-US Born versus US-born Among Texas TB Cases by Race/Ethnicity, 2013 - 2017											
Race/Ethnicity		2013		2014		2015		2016		2017	
		Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
Non-US Born	WHITE	27	4%	17	2%	16	2%	14	2%	12	2%
	BLACK	69	10%	64	8%	69	9%	66	9%	81	12%
	HISPANIC	395	59%	465	61%	434	56%	434	59%	393	57%
	API†	183	27%	220	29%	253	33%	224	30%	203	29%
	AIAN‡	0	0%	0	0%	0	0%	1	0%	0	0%
US-born	WHITE	146	27%	106	21%	127	23%	94	18%	84	19%
	BLACK	160	29%	158	31%	181	32%	169	33%	132	30%
	HISPANIC	228	42%	225	45%	237	42%	232	46%	200	46%
	API†	13	2%	11	2%	13	2%	14	3%	22	5%
	AIAN‡	0	0%	3	1%	3	1%	0	0%	0	0%
Total		1221	100%	1269	100%	1333	100%	1250	100%	1127	100%

† API: Asian/Pacific Islander
‡ AIAN: American Indian/Alaska Native

Table 10: Non-US Born versus US-born Among Texas TB Cases by Sex, 2013 - 2017											
Sex		2013		2014		2015		2016		2017	
		Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion	Cases	Proportion
Non-US Born	Male	423	63%	498	65%	488	63%	465	63%	436	63%
	Female	251	37%	267	35%	284	37%	273	37%	253	37%
US-born	Male	375	69%	342	68%	369	66%	354	70%	298	68%
	Female	172	31%	161	32%	192	34%	154	30%	140	32%
Total		1221	100%	1269	100%	1333	100%	1250	100%	1127	100%

Note: Transgender persons may be included in male, female, or unknown categories

Table 11: Non-US Born TB Cases by Top 15 Countries of Birth, 2013 - 2017										
Country of Birth	2013		2014		2015		2016		2017	
	Cases	Proportion*	Cases	Proportion*	Cases	Proportion*	Cases	Proportion*	Cases	Proportion*
Mexico	312	54%	340	51%	323	49%	318	49%	292	49%
Vietnam	54	9%	66	10%	71	11%	67	10%	69	12%
India	38	7%	43	6%	40	6%	56	9%	36	6%
Honduras	34	6%	42	6%	42	6%	40	6%	41	7%
El Salvador	18	3%	25	4%	23	4%	30	5%	17	3%
Philippines	28	5%	31	5%	25	4%	27	4%	26	4%
Guatemala	21	4%	35	5%	30	5%	24	4%	21	4%
Myanmar	14	2%	21	3%	30	5%	22	3%	14	2%
Nigeria	12	2%	12	2%	12	2%	17	3%	20	3%
Nepal	12	2%	4	1%	14	2%	13	2%	10	2%
China	9	2%	15	2%	18	3%	12	2%	11	2%
Pakistan	4	1%	12	2%	7	1%	9	1%	11	2%
Ethiopia	13	2%	14	2%	16	2%	5	1%	13	2%
Kenya	7	1%	5	1%	1	0%	2	0%	8	1%
Peru	6	1%	2	0%	5	1%	4	1%	7	1%

* Proportions represent the proportions of cases among those foreign-born cases

Note: Rank by the numbers of cases in 2017

TB Cases in Correctional Facilities

Table 12: TB Corrections Cases by Race/Ethnicity, Sex, and Age Group in Texas, 2013 - 2017

	2013		2014		2015		2016		2017	
Race/Ethnicity	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**
WHITE	13	11%	8	5%	6	4%	9	6%	7	7%
BLACK	22	18%	14	10%	30	20%	42	29%	23	24%
HISPANIC	73	61%	118	81%	106	70%	89	61%	63	67%
API†	12	10%	6	4%	10	7%	5	3%	1	1%
AIAN‡	0	0%	0	0%	0	0%	0	0%	0	0%
Sex										
Male	111	93%	138	95%	134	88%	134	92%	89	95%
Female	8	7%	7	5%	18	12%	18	12%	5	5%
Age Group										
0-5	0	0%	0	0%	0	0%	0	0%	0	0%
6-13	0	0%	0	0%	0	0%	0	0%	0	0%
14-17	0	0%	0	0%	1	1%	1	1%	0	0%
18-24	20	17%	26	18%	27	18%	30	21%	19	20%
25-34	35	29%	51	35%	55	36%	42	29%	26	28%
35-44	25	21%	29	20%	39	26%	29	20%	21	22%
45-54	25	21%	29	20%	16	11%	29	20%	15	16%
55-64	9	8%	11	8%	11	7%	13	9%	10	11%
65-74	4	3%	0	0%	3	2%	1	1%	3	3%
75+	2	2%	0	0%	0	0%	0	0%	0	0%
Total	120	100%	146	100%	152	100%	145	100%	94	100%

† API: Asian/Pacific Islander

‡ AIAN: American Indian/Alaska Native

Note: Transgender persons may be included in male, female, or unknown categories

Table 13: TB Corrections Cases by Correctional Facility Type, 2013 - 2017

Risk Factor	2013		2014		2015		2016		2017	
	Cases	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**
Federal Prison	21	18%	20	14%	20	13%	23	16%	21	22%
State Prison	13	11%	23	16%	28	18%	29	20%	17	18%
Local Jails	54	45%	38	26%	37	24%	45	31%	25	27%
ICE*	32	27%	64	44%	65	43%	47	32%	31	33%
Juvenile Detention	0	0%	0	0%	0	0%	1	1%	0	0%
Total Cases	120	100%	145	99%	150	99%	145	100%	94	100%

* U.S. Immigration and Customs Enforcement

Table 14: Risk Factors Among TB Corrections Cases, 2013 - 2017

Risk Factor	2013		2014		2015		2016		2017	
	Cases	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**
Non-US Born*	67	56%	101	69%	94	62%	89	61%	57	61%
Homeless	12	10%	7	5%	9	6%	11	8%	5	5%
HIV Positive	11	9%	8	5%	6	4%	8	6%	4	4%
Diabetes	7	6%	9	6%	4	3%	10	7%	7	7%
Alcohol Abuse	33	28%	34	23%	21	14%	18	12%	11	12%
IDU†	11	9%	26	18%	10	7%	3	2%	0	0%
Non-IDU‡	29	24%	43	29%	28	18%	20	14%	15	16%
Total Cases	146	-	146	-	152	-	94	-	94	-

* For a list of High Burden Countries see the World Health Organization (WHO) Global tuberculosis report

† Injection Drug Use

‡ Non-Injection Drug Use

Table 15: Drug Resistance Among TB Corrections Cases, 2013 - 2017

	2013		2014		2015		2016		2017	
	Cases	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**	**Cases**	**Proportion**
Isonaizid Resistance	2	2%	7	5%	8	5%	6	4%	4	4%
Rifampin Resistance	0	0%	2	1%	0	0%	0	0%	0	0%
MDR*	1	1%	0	0%	1	1%	0	0%	0	0%
XDR†	1	1%	0	0%	0	0%	0	0%	0	0%
Total Cases	120	100%	146	100%	146	96%	152	105%	94	100%

* Multidrug-resistant Tuberculosis

† Extensively Drug Resistant Tuberculosis

TB Diagnoses by Health Service Region

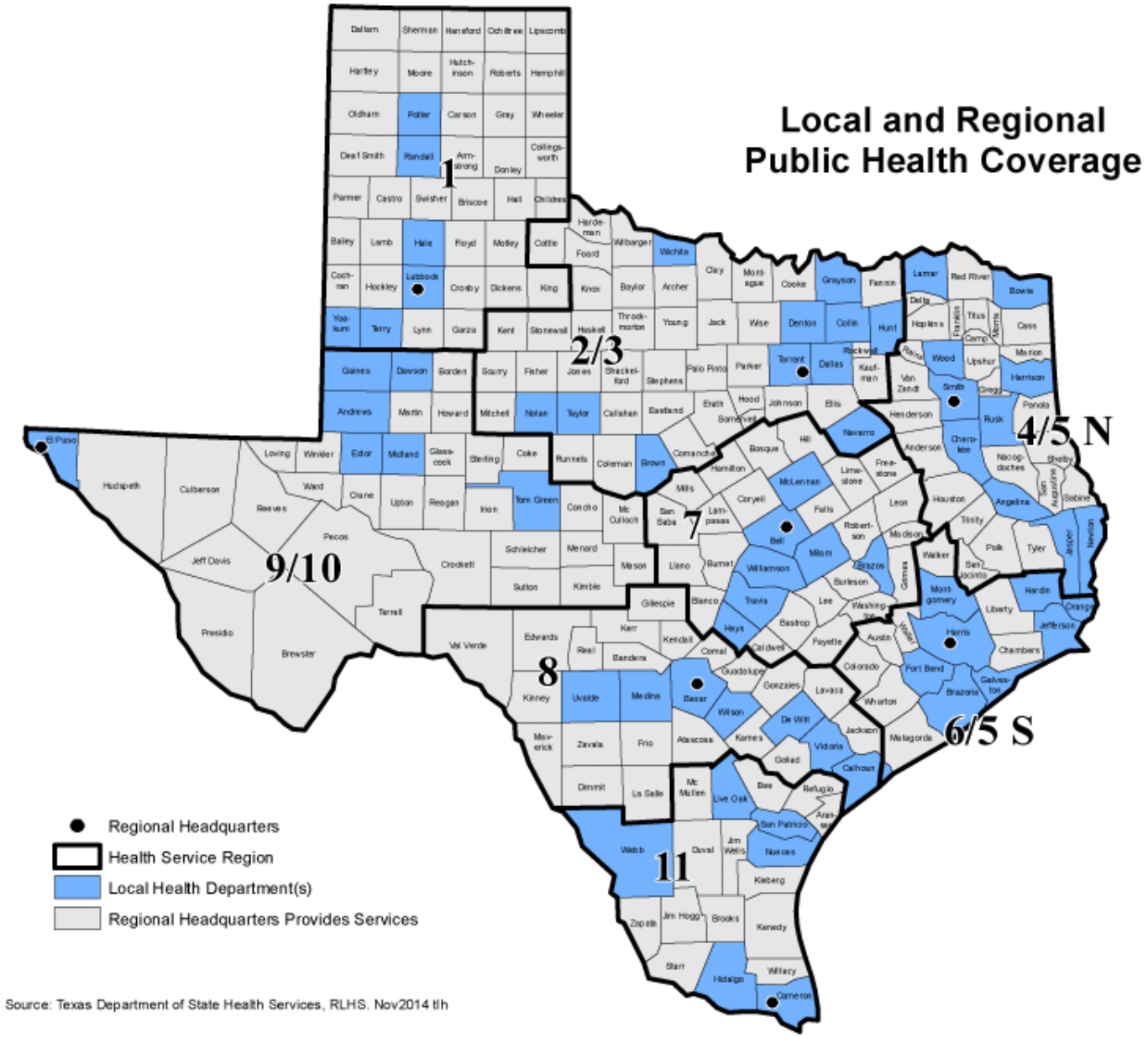

Table 16: TB Case Count and Rate by Health Service Region, 2013-2017

Health Service Region	2013		2014		2015		2016		2017	
	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
HSR 1	36	4.2	52	6	30	3.5	22	2.5	14	1.6
HSR 2/3	336	4.4	305	3.9	333	4.2	330	4.1	307	3.7
HSR 4/5N	58	3.9	43	2.9	41	2.7	27	1.8	29	1.9
HSR 6/5S	347	5	387	5.5	397	5.5	360	4.9	357	4.8
HSR 7	82	2.6	82	2.5	99	3	90	2.7	70	2
HSR 8	111	4	132	4.7	129	4.5	116	4	118	4
HSR 9/10	64	4.4	56	3.8	57	3.8	58	3.9	47	3.1
HSR 11	174	7.9	189	8.5	219	9.8	218	9.7	166	7.2
TDCJ	13	-	23	-	28	-	29	-	17	-
Total	1221	-	1269	-	1333	-	1250	-	1127	-

Table 17: TB Cases by County of Residence, 2013-2017										
County	**Cases**		**Cases**		**Cases**		**Cases**		**Cases**	
Texas	**1221**	**4.6**	**1269**	**4.7**	**1333**	**4.9**	**1250**	**4.5**	**1127**	**4.0**
Anderson	1	1.7	0	0	0	0	1	1.7	0	0
Andrews	0	0	0	0	0	0	0	0	0	0
Angelina	4	4.6	1	1.1	2	2.3	0	0	0	0
Aransas	0	0	0	0	1	4.0	2	7.9	3	11.7
Archer	0	0	0	0	0	0	0	0	0	0
Armstrong	0	0	0	0	0	0	0	0	0	0
Atascosa	1	2.1	1	2.1	2	4.1	0	0	0	0
Austin	0	0	3	10.4	0	0	0	0	0	0
Bailey	0	0	1	14.4	0	0	0	0	2	28.3
Bandera	0	0	0	0	1	4.7	0	0	0	0
Bastrop	1	1.3	2	2.6	1	1.2	0	0	1	1.2
Baylor	0	0	0	0	0	0	0	0	0	0
Bee	0	0	2	6.1	1	3.1	1	3.0	0	0
Bell	3	0.9	3	0.9	7	2.1	6	1.8	4	1.1
Bexar	75	4.1	89	4.8	83	4.4	66	3.4	73	3.7
Blanco	0	0	0	0	0	0	0	0	0	0
Borden	0	0	0	0	0	0	0	0	0	0
Bosque	0	0	1	5.6	0	0	0	0	3	16.4
Bowie	5	5.4	2	2.1	2	2.1	1	1.1	1	1.1
Brazoria	7	2.1	12	3.6	10	2.9	9	2.5	8	2.2
Brazos	6	2.9	6	2.9	6	2.8	6	2.7	1	0.4
Brewster	0	0	0	0	1	11.0	0	0	0	0
Briscoe	0	0	0	0	0	0	0	0	0	0
Brooks	3	41.3	2	27.6	3	41.4	2	27.5	2	27.6
Brown	0	0	0	0	3	8.0	0	0	1	2.6
Burleson	0	0	0	0	0	0	0	0	0	0
Burnet	0	0	3	6.8	0	0	0	0	1	2.1
Caldwell	1	2.6	3	7.6	1	2.5	1	2.4	0	0
Calhoun	3	13.8	2	9.2	3	13.7	2	9.1	1	4.6
Callahan	1	7.4	0	0	0	0	0	0	0	0
Cameron	53	12.7	67	16.0	73	17.4	52	12.3	52	12.3
Camp	0	0	0	0	1	7.9	0	0	0	0
Carson	0	0	0	0	0	0	0	0	0	0
Cass	1	3.3	0	0	0	0	1	3.3	0	0
Castro	1	12.4	0	0	0	0	0	0	0	0
Chambers	0	0	1	2.6	0	0	2	5.0	1	2.4
Cherokee	5	9.8	0	0	0	0	2	3.9	0	0
Childress	0	0	0	0	0	0	0	0	0	0
Clay	0	0	0	0	0	0	1	9.8	0	0
Cochran	0	0	0	0	0	0	0	0	0	0
Coke	0	0	0	0	0	0	0	0	0	0
Coleman	0	0	0	0	0	0	0	0	0	0
Collin	30	3.5	27	3.0	25	2.7	28	3.0	23	2.4
Collingsworth	0	0	0	0	0	0	0	0	0	0
Colorado	0	0	0	0	1	4.8	1	4.8	1	4.7
Comal	2	1.7	0	0	0	0	2	1.5	1	0.7
Comanche	0	0	1	7.4	0	0	0	0	0	0
Concho	0	0	2	49.2	0	0	0	0	0	0
Cooke	0	0	1	2.6	0	0	1	2.5	1	2.5
Coryell	2	2.6	0	0	0	0	1	1.3	0	0
Cottle	0	0	0	0	0	0	0	0	0	0

* Rates represent cases per 100,000

Table 17: TB Cases by County of Residence, 2013-2017 (continued)										
	2013		2014		2015		2016		2017	
County	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Crane	0	0	0	0	0	0	0	0	0	0
Crockett	0	0	0	0	0	0	0	0	0	0
Crosby	0	0	0	0	0	0	0	0	0	0
Culberson	0	0	0	0	0	0	0	0	0	0
Dallam	0	0	1	13.9	0	0	0	0	0	0
Dallas	190	7.6	167	6.6	180	7.0	185	7.1	158	6.0
Dawson	0	0	0	0	0	0	1	7.7	0	0
Deaf Smith	0	0	1	5.2	0	0	0	0	2	10.6
Delta	0	0	0	0	0	0	0	0	1	18.9
Denton	20	2.7	16	2.1	18	2.3	30	3.7	22	2.6
DeWitt	1	4.9	0	0	0	0	0	0	2	9.9
Dickens	0	0	0	0	0	0	0	0	0	0
Dimmit	1	9.2	1	9.1	0	0	1	9.3	0	0
Donley	0	0	0	0	0	0	0	0	0	0
Duval	0	0	0	0	0	0	0	0	0	0
Eastland	0	0	1	5.5	1	5.5	0	0	0	0
Ector	5	3.3	1	0.6	0	0	4	2.5	2	1.3
Edwards	1	52.7	0	0	0	0	1	52.1	0	0
Ellis	4	2.6	2	1.3	6	3.7	2	1.2	0	0
El Paso	49	5.9	43	5.2	38	4.6	44	5.3	36	4.3
Erath	0	0	1	2.5	5	12.1	1	2.4	0	0
Falls	0	0	0	0	1	5.8	0	0	1	5.7
Fannin	0	0	0	0	1	3.0	0	0	0	0
Fayette	0	0	0	0	1	4.0	1	4.0	0	0
Fisher	0	0	0	0	0	0	0	0	0	0
Floyd	0	0	0	0	0	0	0	0	0	0
Foard	0	0	0	0	0	0	0	0	0	0
Fort Bend	23	3.5	19	2.8	27	3.8	27	3.6	35	4.6
Franklin	0	0	0	0	0	0	0	0	0	0
Freestone	0	0	0	0	0	0	0	0	1	5.1
Frio	7	38.1	18	95.1	17	88.3	18	92.9	12	61.2
Gaines	0	0	0	0	0	0	0	0	0	0
Galveston	9	2.9	15	4.8	6	1.9	13	3.9	7	2.1
Garza	7	109.9	1	15.6	3	47.1	0	0	1	15.3
Gillespie	0	0	0	0	1	3.9	0	0	0	0
Glasscock	0	0	0	0	0	0	0	0	0	0
Goliad	0	0	0	0	0	0	1	13.3	0	0
Gonzales	1	5.0	0	0	0	0	1	4.8	0	0
Gray	2	8.7	2	8.5	1	4.3	0	0	0	0
Grayson	1	0.8	0	0	3	2.4	2	1.6	3	2.3
Gregg	14	11.4	6	4.9	12	9.7	4	3.2	3	2.4
Grimes	0	0	0	0	0	0	2	7.3	0	0
Guadalupe	1	0.7	1	0.7	2	1.3	2	1.3	3	1.9
Hale	0	0	4	11.6	1	2.9	0	0	0	0
Hall	0	0	0	0	0	0	0	0	1	32.6
Hamilton	0	0	1	12.3	0	0	0	0	0	0
Hansford	1	18.1	0	0	1	17.8	0	0	0	0
Hardeman	0	0	0	0	0	0	0	0	1	25.0
Hardin	0	0	0	0	1	1.8	0	0	0	0
Harris	286	6.6	320	7.2	326	7.2	283	6.1	280	6.0
Harrison	1	1.5	3	4.5	4	6.0	1	1.5	2	3.0

* Rates represent cases per 100,000

Table 17: TB Cases by County of Residence, 2013-2017 (continued)										
	2013		2014		2015		2016		2017	
County	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
Hartley	0	0	0	0	0	0	0	0	0	0
Haskell	0	0	0	0	1	17.2	0	0	0	0
Hays	2	1.1	2	1.1	2	1	3	1.5	2	0.9
Hemphill	0	0	1	24	0	0	0	0	0	0
Henderson	1	1.3	6	7.6	4	5	0	0	6	7.4
Hidalgo	62	7.6	68	8.2	70	8.3	80	9.4	56	6.5
Hill	2	5.7	1	2.9	0	0	2	5.7	1	2.8
Hockley	0	0	0	0	0	0	0	0	0	0
Hood	2	3.8	0	0	1	1.8	0	0	1	1.7
Hopkins	2	5.7	1	2.8	0	0	0	0	0	0
Houston	0	0	1	4.4	1	4.4	1	4.4	2	8.7
Howard	5	13.8	1	2.7	0	0	1	2.7	0	0
Hudspeth	0	0	0	0	0	0	0	0	0	0
Hunt	0	0	0	0	2	2.2	4	4.4	2	2.1
Hutchinson	0	0	4	18.3	0	0	2	9.3	0	0
Irion	0	0	0	0	0	0	0	0	0	0
Jack	2	22.5	0	0	0	0	0	0	0	0
Jackson	0	0	1	6.8	0	0	0	0	1	6.8
Jasper	2	5.6	1	2.8	0	0	0	0	0	0
Jeff Davis	0	0	0	0	0	0	0	0	0	0
Jefferson	8	3.2	4	1.6	9	3.5	10	3.9	8	3.1
Jim Hogg	0	0	0	0	0	0	0	0	0	0
Jim Wells	1	2.4	0	0	1	2.4	2	4.9	1	2.4
Johnson	1	0.6	1	0.6	2	1.3	1	0.6	4	2.4
Jones	1	5	0	0	0	0	0	0	0	0
Karnes	0	0	0	0	0	0	0	0	0	0
Kaufman	4	3.7	1	0.9	7	6.1	3	2.5	1	0.8
Kendall	0	0	0	0	1	2.5	0	0	0	0
Kenedy	0	0	0	0	0	0	0	0	0	0
Kent	0	0	0	0	0	0	0	0	0	0
Kerr	1	2	1	2	0	0	0	0	2	3.9
Kimble	0	0	0	0	0	0	0	0	0	0
King	0	0	0	0	0	0	0	0	0	0
Kinney	0	0	0	0	0	0	0	0	1	26.7
Kleberg	0	0	0	0	1	3.2	2	6.4	3	9.7
Knox	0	0	0	0	0	0	0	0	0	0
Lamar	2	4.1	0	0	0	0	2	4	0	0
Lamb	0	0	3	22.2	1	7.5	0	0	0	0
Lampasas	0	0	0	0	0	0	0	0	0	0
La Salle	0	0	3	40.1	0	0	2	26.3	0	0
Lavaca	0	0	0	0	2	10	0	0	0	0
Lee	0	0	0	0	1	5.9	1	5.9	1	5.8
Leon	0	0	1	6	0	0	1	5.8	0	0
Liberty	3	3.9	2	2.6	2	2.5	0	0	1	1.2
Limestone	2	8.5	1	4.3	1	4.3	0	0	0	0
Lipscomb	1	28.7	0	0	0	0	0	0	0	0
Live Oak	0	0	0	0	0	0	0	0	0	0
Llano	0	0	0	0	0	0	0	0	0	0
Loving	0	0	0	0	0	0	0	0	0	0
Lubbock	4	1.4	4	1.4	8	2.7	7	2.3	3	1
Lynn	0	0	0	0	0	0	0	0	0	

* Rates represent cases per 100,000

Table 17: TB Cases by County of Residence, 2013-2017 (continued)										
	2013		2014		2015		2016		2017	
County	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
McCulloch	0	0	0	0	0	0	0	0	0	0
McLennan	9	3.7	0	0	3	1.2	2	0.8	5	2.0
McMullen	0	0	0	0	0	0	0	0	0	0
Madison	1	7.2	0	0	0	0	1	7.1	0	0
Marion	0	0	0	0	0	0	0	0	0	0
Martin	0	0	0	0	0	0	0	0	1	17.8
Mason	0	0	0	0	0	0	0	0	0	0
Matagorda	0	0	0	0	3	8.2	0	0	2	5.4
Maverick	3	5.3	9	15.8	7	12.1	7	12.1	7	12.0
Medina	0	0	0	0	0	0	1	2.0	2	4.0
Menard	0	0	0	0	0	0	0	0	0	0
Midland	2	1.3	1	0.6	10	6.2	2	1.2	2	1.2
Milam	0	0	0	0	0	0	1	4.0	2	8.0
Mills	0	0	0	0	0	0	0	0	0	0
Mitchell	0	0	0	0	0	0	0	0	0	0
Montague	0	0	0	0	0	0	0	0	0	0
Montgomery	9	1.8	6	1.2	9	1.7	14	2.5	11	1.9
Moore	4	18.1	12	54.5	4	18.3	7	31.9	1	4.5
Morris	0	0	1	7.9	0	0	0	0	0	0
Motley	0	0	0	0	0	0	0	0	0	0
Nacogdoches	9	13.8	4	6.1	2	3.1	2	3.0	2	3.0
Navarro	2	4.2	0	0	2	4.2	0	0	1	2.1
Newton	0	0	0	0	0	0	0	0	1	7.2
Nolan	0	0	1	6.6	0	0	0	0	0	0
Nueces	13	3.7	15	4.2	7	1.9	12	3.3	12	3.3
Ochiltree	0	0	0	0	1	9.3	1	9.7	0	0
Oldham	0	0	0	0	0	0	0	0	0	0
Orange	1	1.2	1	1.2	0	0	0	0	1	1.2
Palo Pinto	1	3.6	2	7.1	1	3.6	1	3.6	1	3.5
Panola	1	4.2	1	4.2	1	4.2	0	0	0	0
Parker	1	0.8	1	0.8	2	1.6	2	1.6	2	1.5
Parmer	3	30.1	2	20.1	0	0	0	0	0	0
Pecos	0	0	0	0	0	0	0	0	0	0
Polk	0	0	0	0	3	6.4	0	0	1	2.0
Potter	11	9.0	14	11.5	5	4.1	5	4.1	1	0.8
Presidio	0	0	0	0	0	0	0	0	0	0
Rains	0	0	0	0	0	0	0	0	0	0
Randall	0	0	1	0.8	2	1.5	0	0	3	2.2
Reagan	1	27.5	0	0	0	0	0	0	0	0
Real	0	0	0	0	0	0	0	0	0	0
Red River	0	0	1	8.0	0	0	0	0	0	0
Reeves	1	7.0	3	20.7	2	13.4	3	19.9	3	19.6
Refugio	0	0	0	0	0	0	0	0	0	0
Roberts	0	0	0	0	0	0	0	0	0	0
Robertson	1	6.1	0	0	1	6.0	0	0	0	0
Rockwall	3	3.5	3	3.4	1	1.1	2	2.1	1	1.0
Runnels	0	0	0	0	0	0	0	0	0	0
Rusk	0	0	9	16.9	3	5.7	1	1.9	3	5.7
Sabine	0	0	0	0	0	0	0	0	0	0
San Augustine	0	0	0	0	0	0	0	0	0	0
San Jacinto	1	3.7	0	0	1	3.7	0	0	2	7.1

* Rates represent cases per 100,000

Table 17: TB Cases by County of Residence, 2013-2017 (continued)										
	2013		2014		2015		2016		2017	
County	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*	Cases	Rate*
San Patricio	0	0	1	1.5	6	8.9	4	5.9	0	0
San Saba	0	0	0	0	0	0	1	17.0	0	0
Schleicher	0	0	0	0	0	0	0	0	0	0
Scurry	0	0	0	0	0	0	0	0	1	5.9
Shackelford	0	0	0	0	0	0	0	0	0	0
Shelby	3	11.5	1	3.9	2	7.8	5	19.4	0	0
Sherman	0	0	0	0	0	0	0	0	0	0
Smith	5	2.3	1	0.5	1	0.4	2	0.9	5	2.2
Somervell	0	0	0	0	0	0	0	0	0	0
Starr	4	6.4	6	9.5	5	7.9	13	20.3	9	14.0
Stephens	0	0	0	0	1	10.7	0	0	0	0
Sterling	0	0	0	0	0	0	0	0	0	0
Stonewall	0	0	0	0	0	0	0	0	0	0
Sutton	0	0	0	0	0	0	0	0	0	0
Swisher	0	0	0	0	0	0	0	0	0	0
Tarrant	70	3.7	77	4.0	67	3.4	62	3.1	80	3.9
Taylor	1	0.7	1	0.7	3	2.2	2	1.5	1	0.7
Terrell	0	0	0	0	0	0	0	0	0	0
Terry	1	7.9	1	7.8	0	0	0	0	0	0
Throckmorton	0	0	0	0	0	0	0	0	0	0
Titus	1	3.1	1	3.1	0	0	1	3.1	0	0
Tom Green	0	0	2	1.7	2	1.7	1	0.8	1	0.8
Travis	41	3.7	49	4.3	59	5.0	52	4.3	35	2.9
Trinity	0	0	0	0	0	0	1	6.9	0	0
Tyler	0	0	0	0	0	0	0	0	0	0
Upshur	0	0	1	2.5	0	0	0	0	0	0
Upton	0	0	0	0	0	0	0	0	0	0
Uvalde	1	3.7	0	0	1	3.7	0	0	1	3.7
Val Verde	7	14.3	4	8.2	8	16.4	6	12.3	11	22.4
Van Zandt	0	0	0	0	2	3.7	0	0	0	0
Victoria	1	1.1	1	1.1	1	1.1	4	4.3	0	0
Walker	0	0	0	0	0	0	0	0	0	0
Waller	1	2.2	3	6.4	2	4.1	1	2.0	0	0
Ward	1	8.9	0	0	2	17.2	1	8.6	1	8.7
Washington	0	0	1	2.9	1	2.9	0	0	1	2.9
Webb	35	13.3	25	9.4	44	16.3	39	14.3	25	9.1
Wharton	0	0	1	2.4	1	2.4	0	0	1	2.4
Wheeler	0	0	0	0	2	35.3	0	0	0	0
Wichita	0	0	2	1.5	1	0.8	2	1.5	3	2.3
Wilbarger	0	0	0	0	0	0	1	7.8	0	0
Willacy	1	4.5	0	0	2	9.1	1	4.6	2	9.3
Williamson	11	2.3	8	1.6	14	2.8	9	1.7	11	2.0
Wilson	2	4.4	0	0	0	0	0	0	1	2.0
Winkler	0	0	0	0	1	12.5	0	0	0	0
Wise	1	1.6	0	0	0	0	0	0	1	1.5
Wood	0	0	2	4.7	0	0	2	4.6	0	0
Yoakum	1	12.2	0	0	1	11.6	0	0	0	0
Young	1	5.4	0	0	0	0	0	0	0	0
Zapata	0	0	1	6.9	3	20.7	4	27.7	0	0
Zavala	2	16.4	0	0	0	0	0	0	0	0
ICE †	48		73		68		57		41	
TDCJ ‡	13		23		28		29		17	

* Rates represent cases per 100,000

† ICE: US Immigration and Customs Enforcement

‡ TDCJ: Texas Department of Criminal Justice