County Health Rankings & Roadmaps

Building a Culture of Health, County by County

A Robert Wood Johnson Foundation program

Texas

2019 County Health Rankings Report

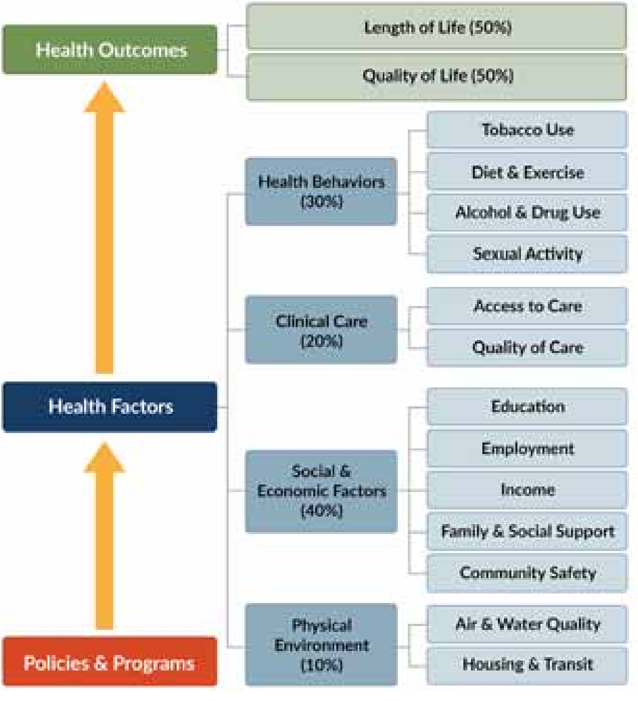
A collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute.

The County Health Rankings & Roadmaps (CHR&R) brings actionable data, evidence, guidance, and stories to communities to make it easier for people to be healthy in their neighborhoods, schools, and workplaces. Ranking the health of nearly every county in the nation (based on the model below), CHR&R illustrates what we know when it comes to what is keeping people healthy or making them sick and shows what we can do to create healthier places to live, learn, work, and play.

What are the County Health Rankings?

Published online at countyhealthrankings.org, the Rankings help counties understand what influences how healthy residents are and how long they will live. The Rankings are unique in their ability to measure the current overall health of each county in all 50 states. They also look at a variety of measures that affect the future health of communities, such as high school graduation rates, access to healthy foods, rates of smoking, obesity, and teen births.

Communities use the Rankings to garner support for local health improvement initiatives among government agencies, health care providers, community organizations, business leaders, policymakers, and the public.



Moving with Data to Action

The Take Action to Improve Health section of our website, countyhealthrankings.org, helps communities join together to look at the many factors influencing health, select strategies that work, and make changes that will have a lasting impact. Take Action to Improve Health is a hub of information to help any community member or leader who wants to improve their community's health and equity. You will find:

- What Works for Health, a searchable menu of evidence-informed policies and programs that can make a difference locally;
- The Action Center, your home for step-by-step guidance and tools to help you move with data to action;
- Action Learning Guides, self-directed learning on specific topics with a blend of guidance, tools, and hands-on practice and reflection activities;
- The Partner Center, information to help you identify the right partners and explore tips to engage them;
- Peer Learning, a virtual, interactive place to learn with and from others about what works in communities; and
- Action Learning Coaches, located across the nation, who are available to provide real-time guidance to local communities interested in learning how to accelerate their efforts to improve health and advance equity.

The Robert Wood Johnson Foundation (RWJF) collaborates with the University of Wisconsin Population Health Institute (UWPHI) to bring this program to cities, counties, and states across the nation.

Opportunities for Health Vary by Place and Race

Our country has achieved significant health improvements over the past century. We have benefited from progress in automobile safety, better workplace standards, good schools and medical clinics, and reductions in smoking and infectious diseases. But when you look closer, there are significant differences in health outcomes according to where we live, how much money we make, or how we are treated. The data show that, in counties everywhere, not everyone has benefited in the same way from these health improvements. There are fewer opportunities and resources for better health among groups that have been historically marginalized, including people of color, people living in poverty, people with physical or mental disabilities, LGBTQ persons, and women.

Differences in Opportunity Have Been Created, and Can Be Undone

Differences in opportunity do not arise on their own or because of the actions of individuals alone. Often, they are the result of policies and practices at many levels that have created deep-rooted barriers to good health, such as unfair bank lending practices, school funding based on local property taxes, and discriminatory policing and prison sentencing. The collective effect is that a fair and just opportunity to live a long and healthy life does not exist for everyone. Now is the time to change how things are done.

Measure What Matters

Achieving health equity means reducing and ultimately eliminating unjust and avoidable differences in health and in the conditions and resources needed for optimal health. This report provides data on differences in health and opportunities in Texas that can help identify where action is needed to achieve greater equity and offers information on how to move with data to action.

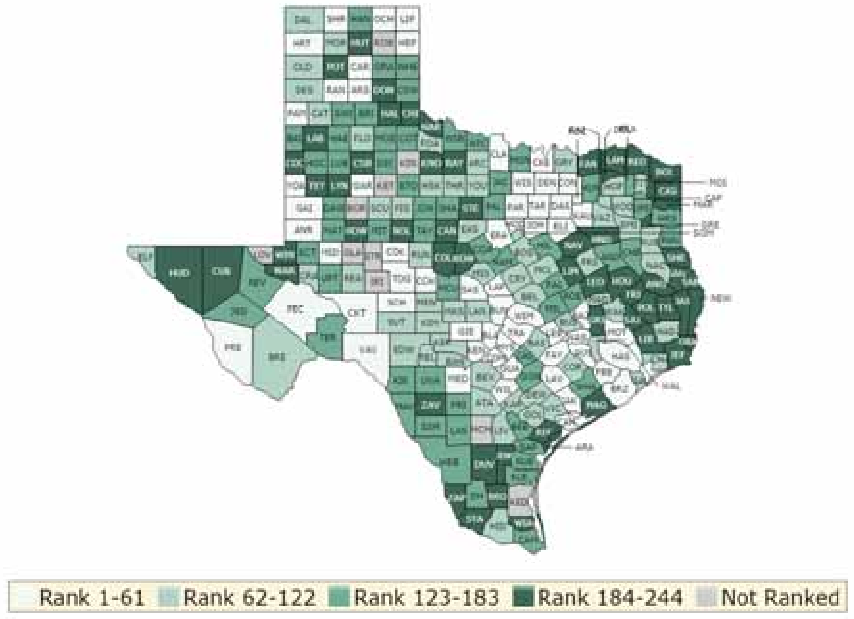
Specifically, this report will help illuminate:

1. Differences in health outcomes within the state by place and racial/ethnic groups
2. Differences in health factors within the state by place and racial/ethnic groups
3. What communities can do to create opportunity and health for all

Differences in Health Outcomes within States by Place and Racial/Ethnic Groups

How Do Counties Rank for Health Outcomes?

Health outcomes in the County Health Rankings represent measures of how long people live and how healthy people feel. Length of life is measured by premature death (years of potential life lost before age 75) and quality of life is measured by self-reported health status (percent of people reporting poor or fair health and the number of physically and mentally unhealthy days within the last 30 days) and the % of low birth weight newborns. Detailed information on the underlying measures is available at **countyhealthrankings.org**



The green map above shows the distribution of Texas's **health outcomes**, based on an equal weighting of length and quality of life. The map is divided into four quartiles with less color intensity indicating better performance in the respective summary rankings. Specific county ranks can be found in the table on page 10 at the end of this report.

How Do Health Outcomes Vary by Race/Ethnicity?

Length and quality of life vary not only based on where we live, but also by our racial/ethnic background. In Texas, there are differences by race/ethnicity in length and quality of life that are masked when we only look at differences by place. The table below presents the five underlying measures that make up the Health Outcomes rank. Explore the table to see how health differs between the healthiest and the least healthy counties in Texas, and among racial/ethnic groups.

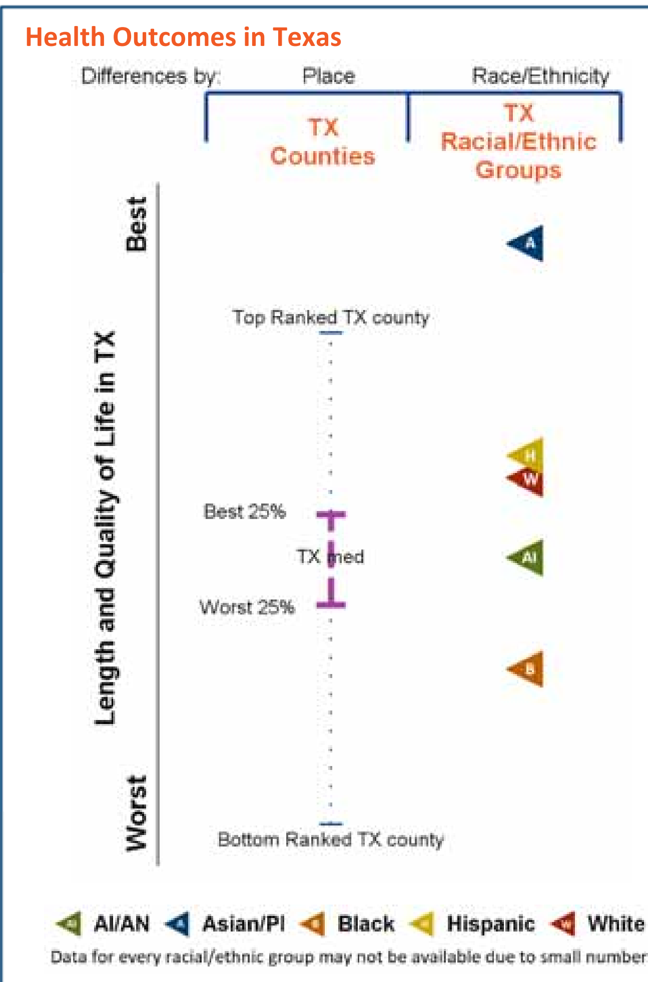
Differences in Health Outcome Measures among Counties and for Racial/Ethnic Groups in Texas

	Healthiest TX County	Least Healthy TX County	AI/AN	Asian/PI	Black	Hispanic	White
Premature Death (years lost/100,000)	4,000	14,600	3,300	3,000	9,900	5,500	7,200
Poor or Fair Health (%)	14%	23%	13%	9%	17%	26%	13%
Poor Physical Health Days (avg)	3.0	4.5	3.9	2.3	3.2	3.9	3.3
Poor Mental Health Days (avg)	3.1	4.2	7.8	1.5	3.6	3.2	3.7
Low Birthweight (%)	6%	10%	6%	9%	13%	8%	7%

American Indian/Alaskan Native (AI/AN), Asian/Pacific Islander (Asian/PI)

N/A = Not available. Data for all racial/ethnic groups may not be available due to small numbers

Health Outcomes in Texas



AI/AN -American Indian/Alaskan Native/Native American
Asian/PI - Asian/Pacific Islander

The graphic to the left compares measures of length and quality of life by place (Health Outcomes ranks) and by race/ethnicity. To learn more about this composite measure, see the technical notes on page 14.

Taken as a whole, measures of length and quality of life in Texas indicate:

- American Indians/Alaskan Natives are most similar in health to those living in the middle 50% of counties.
- Asians/Pacific Islanders are healthier than those living in the top ranked county.
- Blacks are most similar in health to those living in the least healthy quartile of counties.
- Hispanics are most similar in health to those living in the healthiest quartile of counties.
- Whites are most similar in health to those living in the healthiest quartile of counties.

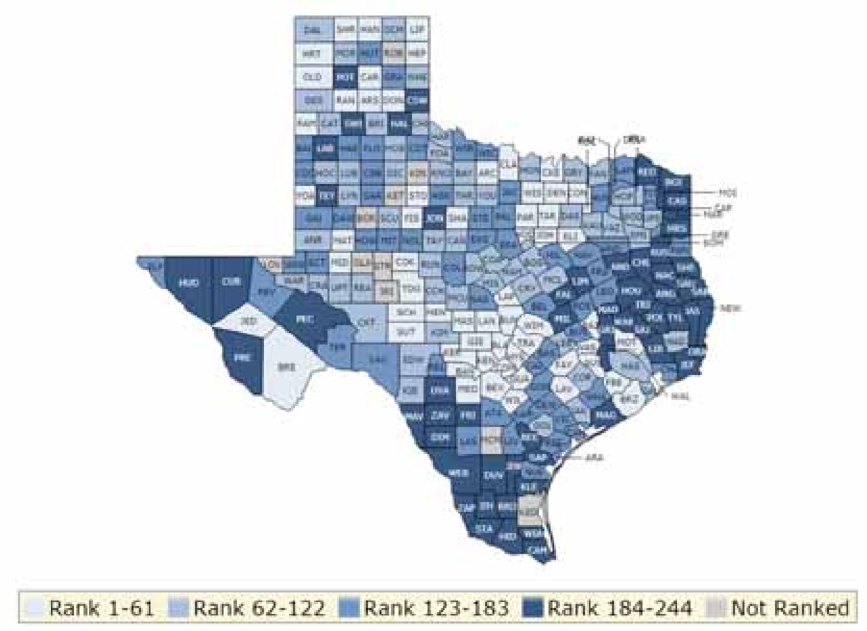
(Quartiles refer to the map on page 4.)

Across the US, values for measures of length and quality of life for Native American, Black, and Hispanic residents are regularly worse than for Whites and Asians. For example, even in the healthiest counties in the US, Black and American Indian premature death rates are about 1.4 times higher than White rates. Not only are these differences unjust and avoidable, they will also negatively impact our changing nation’s future prosperity.

Differences in Health Factors within States by Place and Racial/Ethnic Groups

How Do Counties Rank for Health Factors?

Health factors in the County Health Rankings represent the focus areas that drive how long and how well we live, including health behaviors (tobacco use, diet & exercise, alcohol & drug use, sexual activity), clinical care (access to care, quality of care), social and economic factors (education, employment, income, family & social support, community safety), and the physical environment (air & water quality, housing & transit).



The blue map above shows the distribution of Texas's **health factors** based on weighted scores for health behaviors, clinical care, social and economic factors, and the physical environment. Detailed information on the underlying measures is available at **countyhealthrankings.org.** The map is divided into four quartiles with less color intensity indicating better performance in the respective summary rankings. Specific county ranks can be found in the table on page 10.

What are the Factors That Drive Health and Health Equity and How Does Housing Play a Role?

Health is influenced by a range of factors. Social and economic factors, like connected and supportive communities, good schools, stable jobs, and safe neighborhoods, are foundational to achieving long and healthy lives. These social and economic factors also interact with other important drivers of health and health equity. For example, housing that is unaffordable or unstable can either result from poverty or exacerbate it. When our homes are near high performing schools and good jobs, it's easier to get a quality education and earn a living wage. When people live near grocery stores where fresh food is available or close to green spaces and parks, eating healthy and being active is easier. When things like lead, mold, smoke, and other toxins are inside our homes, they can make us sick. And when so much of a paycheck goes toward the rent or mortgage, it makes it hard to afford to go to the doctor, cover the utility bills, or maintain reliable transportation to work or school.

How Do Opportunities for Stable and Affordable Housing Vary in Texas?

Housing is central to people's opportunities for living long and well. Nationwide, housing costs far exceed affordability given local incomes in many communities. As a result, people have no choice but to spend too much on housing, leaving little left for other necessities. Here, we focus on stable and affordable housing as an essential element of healthy communities. We also explore the connection between housing and children in poverty to illuminate the fact that these issues are made even more difficult when family budgets are the tightest.

In 2017, in Texas, more than 1,520,000 children lived in poverty

53% of Texas's children in poverty were living in a household that spends more than ½ of its income on housing costs

Leaving little left over for other essentials like...

Healthy Food

Transportation

Medical Care

What can work to create and preserve stable and affordable housing that can improve economic and social well-being and connect residents to opportunity?

A comprehensive, strategic approach that looks across a community and multiple sectors is needed to create and preserve stable, affordable housing in our communities. The way forward requires policies, programs, and systems changes that respond to the specific needs of each community, promote inclusive and connected neighborhoods, reduce displacement, and enable opportunity for better health for all people. This includes efforts to:

Make communities more inclusive and connected, such as:

- Inclusive zoning
- Civic engagement in public governance and in community development decisions
- Fair housing laws and enforcement
- Youth leadership programs
- Access to living wage jobs, quality health care, grocery stores, green spaces and parks, and public transportation systems

For more information about evidence-informed strategies that can address priorities in your community, visit What Works for Health at countyhealthrankings.org/whatworks

Facilitate access to resources needed to secure affordable housing, particularly for low- to middle-income families, such as:

- Housing choice vouchers for low- and very low-income households
- Housing trust funds

Address capital resources needed to create and preserve affordable housing, particularly for low- to middle-income families, such as:

- Acquisition, management, and financing of land for affordable housing, like land banks or land trusts
- Tax credits, block grants, and other government subsidies or revenues to advance affordable housing development
- Zoning changes that reduce the cost of housing production

This report explores statewide data. To dive deeper into your county data, visit [Use the Data] at [countyhealthrankings.org]

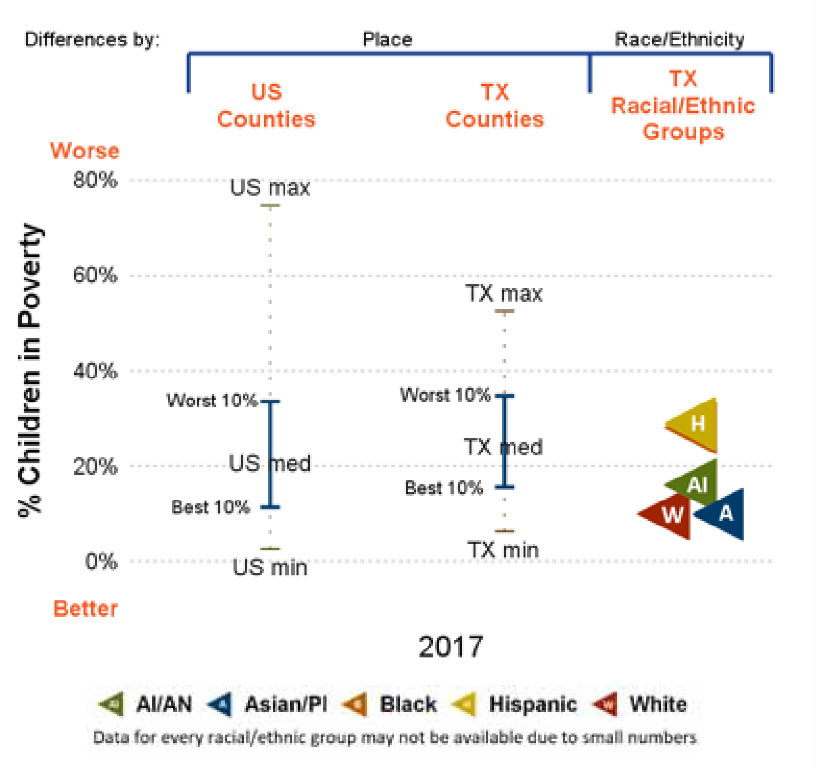
Consider these questions as you look at the data graphics throughout this report:

- What differences do you see among counties in your state?
- What differences do you see by racial/ethnic groups in your state?
- How do counties in your state compare to all U.S. counties?
- What patterns do you see? For example, do some racial/ethnic groups fare better or worse across measures?

CHILDREN IN POVERTY

Poverty limits opportunities for quality housing, safe neighborhoods, healthy food, living wage jobs, and quality education. As poverty and related stress increase, health worsens.

- In Texas, 21% of children are living in poverty.
- Children in poverty among Texas counties range from 6% to 53%.
- Child poverty rates among racial/ethnic groups in Texas range from 10% to 29%.

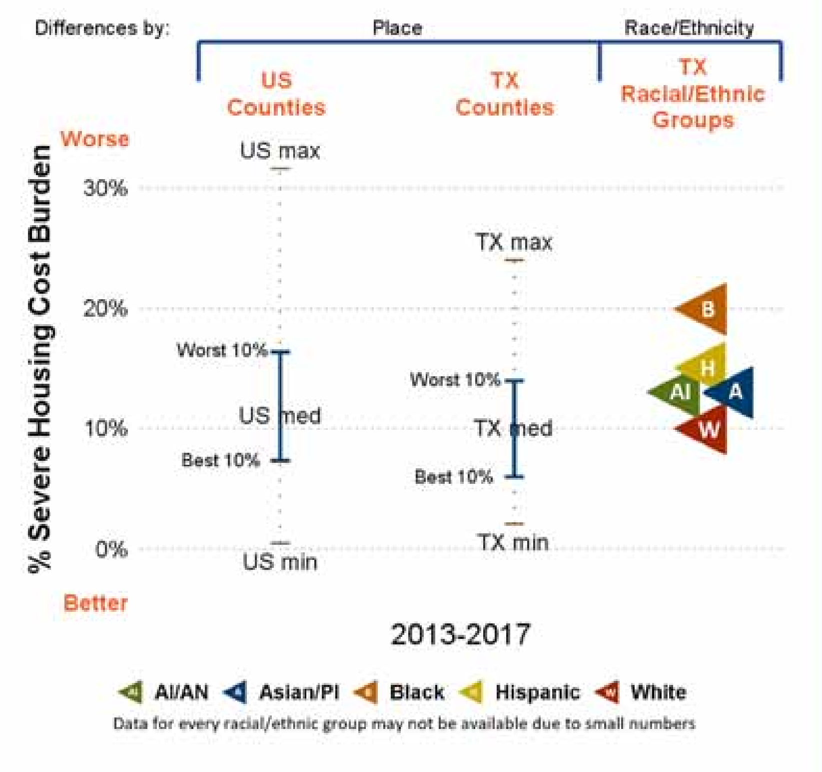


US and state values and the state minimum and maximum can be found in the table on page 12
American Indian/Alaskan Native/Native American (AI/AN)   Asian/Pacific Islander (Asian/PI)

Severe Housing Cost Burden

There is a strong and growing evidence base linking stable and affordable housing to health. As housing costs have outpaced local incomes, households not only struggle to acquire and maintain adequate shelter, but also face difficult trade-offs in meeting other basic needs.

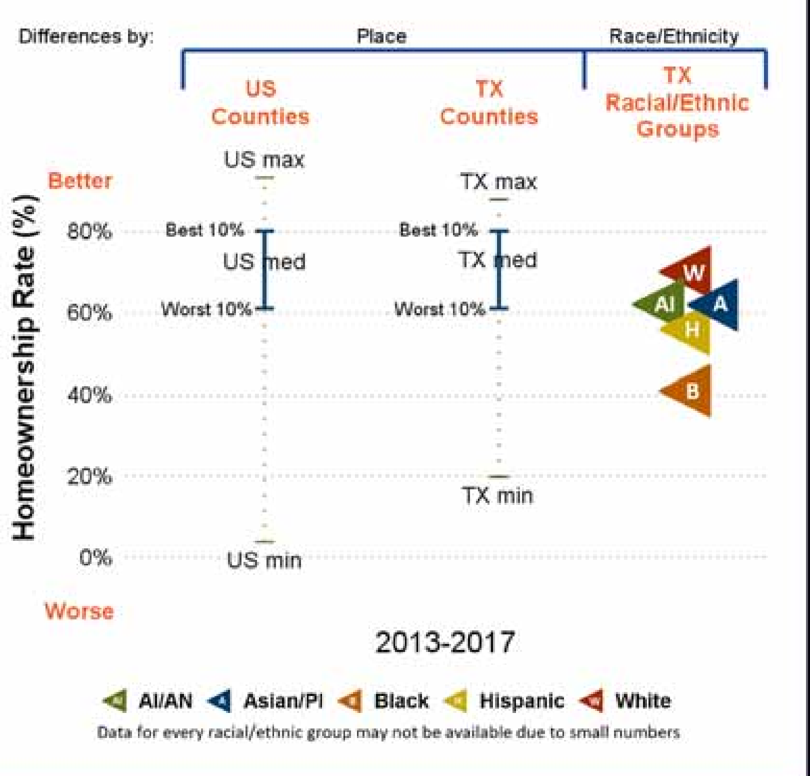
- In Texas, 13% of households spend more than half of their income on housing costs.
- Across Texas counties, severe housing cost burden ranges from 2% to 24% of households.
- Severe housing cost burden ranges from 10% to 20% among households headed by different racial/ethnic groups in Texas.



Homeownership

Homeownership has historically been a springboard for families to enter the middle class. Owning a home over time can help build savings for education or for other opportunities important to health and future family wealth. High levels of homeownership are associated with more stable housing and more tightly knit communities.

- In Texas, 62% of households own their home.
- Homeownership rates among Texas counties range from 20% to 88% of households.
- Homeownership rates among racial/ethnic groups in Texas range from 41% to 70%.



2019 County Health Rankings for the 244 Ranked Counties in Texas

County	Health Outcomes	Health Factors	County	Health Outcomes	Health Factors	County	Health Outcomes	Health Factors	County	Health Outcomes	Health Factors	County	Health Outcomes	Health Factors
Anderson	175	197	Crane	71	94	Hartley	1	12	Madison	74	189	San Patricio	151	196
Andrews	30	104	Crockett	57	89	Haskell	67	130	Marion	240	223	San Saba	44	140
Angelina	202	210	Crosby	228	166	Hays	12	29	Martin	140	51	Schleicher	8	26
Aransas	194	173	Culberson	199	192	Hemphill	31	13	Mason	95	15	Scurry	104	78
Archer	115	18	Dallam	82	87	Henderson	209	174	Matagorda	221	222	Shackelford	125	58
Armstrong	46	14	Dallas	47	88	Hidalgo	68	226	Maverick	136	238	Shelby	232	224
Atascosa	98	156	Dawson	178	154	Hill	134	129	McCulloch	154	115	Sherman	56	21
Austin	40	46	Deaf Smith	81	90	Hockley	180	111	McLennan	94	113	Smith	64	74
Bailey	162	123	Delta	214	142	Hood	42	27	McMullen	NR	NR	Somervell	105	82
Bandera	65	34	Denton	2	4	Hopkins	88	117	Medina	45	57	Starr	200	244
Bastrop	79	159	DeWitt	100	164	Houston	184	191	Menard	110	55	Stephens	216	181
Baylor	227	69	Dickens	155	118	Howard	191	183	Midland	29	48	Sterling	NR	NR
Bee	144	227	Dimmit	150	203	Hudspeth	239	236	Milam	148	193	Stonewall	124	56
Bell	89	141	Donley	213	61	Hunt	166	161	Mills	85	93	Sutton	99	28
Bexar	121	41	Duval	243	237	Hutchinson	192	149	Mitchell	169	158	Swisher	132	206
Blanco	23	36	Eastland	117	150	Irion	NR	NR	Montague	174	110	Tarrant	32	49
Borden	NR	NR	Ector	143	175	Jack	142	128	Montgomery	11	25	Taylor	164	107
Bosque	122	80	Edwards	109	68	Jackson	55	65	Moore	86	76	Terrell	158	160
Bowie	201	194	El Paso	111	134	Jasper	205	200	Morris	242	198	Terry	215	205
Brazoria	18	39	Ellis	28	32	Jeff Davis	135	24	Motley	126	64	Throckmorton	84	83
Brazos	14	44	Erath	61	162	Jefferson	196	230	Nacogdoches	112	199	Titus	103	167
Brewster	120	19	Falls	161	235	Jim Hogg	139	219	Navarro	210	146	Tom Green	52	42
Briscoe	133	121	Fannin	189	97	Jim Wells	226	229	Newton	223	202	Travis	7	8
Brooks	238	242	Fayette	17	20	Johnson	33	50	Nolan	186	153	Trinity	236	217
Brown	207	102	Fisher	63	30	Jones	159	212	Nueces	145	143	Tyler	198	218
Burleson	113	126	Floyd	87	127	Karnes	73	138	Ochiltree	34	79	Upshur	176	122
Burnet	20	40	Foard	76	96	Kaufman	50	71	Oldham	69	16	Upton	182	116
Caldwell	146	144	Fort Bend	5	11	Kendall	9	2	Orange	220	208	Uvalde	129	187
Calhoun	41	168	Franklin	165	91	Kenedy	NR	NR	Palo Pinto	171	177	Val Verde	48	151
Callahan	206	84	Freestone	77	152	Kent	NR	NR	Panola	172	182	Van Zandt	83	75
Cameron	131	231	Frio	170	201	Kerr	91	17	Parker	13	23	Victoria	92	135
Camp	168	178	Gaines	15	147	Kimble	101	66	Parmer	58	45	Walker	66	220
Carson	10	9	Galveston	96	99	King	NR	NR	Pecos	39	195	Waller	70	221
Cass	185	209	Garza	51	131	Kinney	157	81	Polk	208	213	Ward	230	119
Castro	119	85	Gillespie	27	6	Kleberg	177	204	Potter	212	186	Washington	24	37
Chambers	72	148	Glasscock	NR	NR	Knox	203	103	Presidio	43	211	Webb	152	233
Cherokee	179	214	Goliad	116	67	La Salle	173	170	Rains	75	120	Wharton	163	137
Childress	219	109	Gonzales	141	163	Lamar	229	176	Randall	22	10	Wheeler	160	72
Clay	38	43	Gray	147	172	Lamb	211	185	Reagan	62	73	Wichita	181	136
Cochran	231	179	Grayson	107	95	Lampasas	35	60	Real	106	165	Wilbarger	128	132
Coke	25	54	Gregg	188	145	Lavaca	21	33	Red River	235	215	Willacy	197	243
Coleman	233	180	Grimes	204	207	Lee	60	63	Reeves	156	155	Williamson	3	5
Collin	4	1	Guadalupe	26	31	Leon	218	157	Refugio	195	124	Wilson	19	22
Collingsworth	153	188	Hale	167	169	Liberty	193	234	Roberts	NR	NR	Winkler	224	139
Colorado	118	86	Hall	241	228	Limestone	217	216	Robertson	183	171	Wise	49	52
Comal	16	7	Hamilton	137	62	Lipscomb	36	38	Rockwall	6	3	Wood	97	70
Comanche	138	108	Hansford	130	53	Live Oak	102	125	Runnels	90	100	Yoakum	59	47
Concho	54	101	Hardeman	190	92	Llano	93	35	Rusk	78	190	Young	114	77
Cooke	37	59	Hardin	108	112	Loving	NR	NR	Sabine	234	232	Zapata	187	240
Coryell	80	114	Harris	53	105	Lubbock	123	98	San Augustine	244	239	Zavala	237	241
Cottle	149	133	Harrison	127	184	Lynn	222	106	San Jacinto	225	225			

2019 County Health Rankings for Texas: Measures and National/State Results

Measure	Description	US	TX	TX Minimum	TX Maximum
HEALTH OUTCOMES					
Premature death	Years of potential life lost before age 75 per 100,000 population	6900	6,700	4,000	14,600
Poor or fair health	% of adults reporting fair or poor health	16%	18%	12%	41%
Poor physical health days	Average # of physically unhealthy days reported in past 30 days	3.7	3.5	2.8	5.5
Poor mental health days	Average # of mentally unhealthy days reported in past 30 days	3.8	3.4	3.0	4.4
Low birthweight	% of live births with low birthweight (< 2500 grams)	8%	8%	5%	14%
HEALTH FACTORS					
HEALTH BEHAVIORS					
Adult smoking	% of adults who are current smokers	17%	14%	11%	20%
Adult obesity	% of adults that report a BMI ≥ 30	29%	29%	22%	40%
Food environment index	Index of factors that contribute to a healthy food environment, (0-10)	7.7	6.0	2.4	8.9
Physical inactivity	% of adults aged 20 and over reporting no leisure-time physical activity	22%	23%	16%	38%
Access to exercise opportunities	% of population with adequate access to locations for physical activity	84%	80%	0%	98%
Excessive drinking	% of adults reporting binge or heavy drinking	18%	19%	13%	23%
Alcohol-impaired driving deaths	% of driving deaths with alcohol involvement	29%	28%	0%	100%
Sexually transmitted infections	# of newly diagnosed chlamydia cases per 100,000 population	497.3	520.4	85.1	3,543.9
Teen births	# of births per 1,000 female population ages 15-19	25	37	12	96
CLINICAL CARE					
Uninsured	% of population under age 65 without health insurance	10%	19%	10%	31%
Primary care physicians	Ratio of population to primary care physicians	1,330:1	1,660:1	1,910:0	740:1
Dentists	Ratio of population to dentists	1,460:1	1,760:1	3,750:0	1,000:1
Mental health providers	Ratio of population to mental health providers	440:1	960:1	940:0	360:1
Preventable hospital stays	# of hospital stays for ambulatory-care sensitive conditions per 100,000 Medicare enrollees	4,520	4,966	1,644	33,333
Mammography screening	% of female Medicare enrollees ages 65-74 that receive mammography screening	41%	37%	16%	56%
Flu vaccinations	% of Medicare enrollees who receive an influenza vaccination	45%	43%	7%	56%
SOCIAL AND ECONOMIC FACTORS					
High school graduation	% of ninth-grade cohort that graduates in four years	85%	89%	59%	100%
Some college	% of adults ages 25-44 with some post-secondary education	65%	61%	18%	81%
Unemployment	% of population aged 16 and older unemployed but seeking work	4.4%	4.3%	1.9%	11.7%
Children in poverty	% of children under age 18 in poverty	18%	21%	6%	53%
Income inequality	Ratio of household income at the 80th percentile to income at the 20th percentile	4.9	4.9	2.6	7.6
Children in single-parent households	% of children that live in a household headed by a single parent	33%	33%	3%	100%
Social associations	# of membership associations per 10,000 population	9.3	7.6	0.0	60.3
Violent crime	# of reported violent crime offenses per 100,000 population	386	420	0	978
Injury deaths	# of deaths due to injury per 100,000 population	67	56	31	162
PHYSICAL ENVIRONMENT					
Air pollution – particulate matter	Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)	8.6	8.8	5.6	12.0
Drinking water violations	Indicator of the presence of health-related drinking water violations. Yes - indicates the presence of a violation, No - indicates no violation.	N/A	N/A	No	Yes
Severe housing problems	% of households with overcrowding, high housing costs, or lack of kitchen or plumbing facilities	18%	18%	4%	31%
Driving alone to work	% of workforce that drives alone to work	76%	80%	54%	97%
Long commute – driving alone	Among workers who commute in their car alone, % commuting > 30 minutes	35%	38%	4%	61%

2019 County Health Rankings: Ranked Measure Sources and Years of Data

	Measure	Source	Years of Data
HEALTH OUTCOMES			
Length of Life	Premature death	National Center for Health Statistics – Mortality files	2015-2017
Quality of Life	Poor or fair health	Behavioral Risk Factor Surveillance System	2016
	Poor physical health days	Behavioral Risk Factor Surveillance System	2016
	Poor mental health days	Behavioral Risk Factor Surveillance System	2016
	Low birthweight	National Center for Health Statistics – Natality files	2011-2017
HEALTH FACTORS			
HEALTH BEHAVIORS			
Tobacco Use	Adult smoking	Behavioral Risk Factor Surveillance System	2016
Diet and Exercise	Adult obesity	CDC Diabetes Interactive Atlas	2015
	Food environment index	USDA Food Environment Atlas, Map the Meal Gap	2015 & 2016
	Physical inactivity	CDC Diabetes Interactive Atlas	2015
	Access to exercise opportunities	Business Analyst, Delorme map data, ESRI, & U.S. Census Files	2010 & 2018
Alcohol and Drug Use	Excessive drinking	Behavioral Risk Factor Surveillance System	2016
	Alcohol-impaired driving deaths	Fatality Analysis Reporting System	2013-2017
Sexual Activity	Sexually transmitted infections	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB	2016
	Teen births	National Center for Health Statistics – Natality files	2011-2017
CLINICAL CARE			
Access to Care	Uninsured	Small Area Health Insurance Estimates	2016
	Primary care physicians	Area Health Resource File/American Medical Association	2016
	Dentists	Area Health Resource File/National Provider Identification file	2017
	Mental health providers	CMS, National Provider Identification file	2018
Quality of Care	Preventable hospital stays	Mapping Medicare Disparities Tool	2016
	Mammography screening	Mapping Medicare Disparities Tool	2016
	Flu vaccinations	Mapping Medicare Disparities Tool	2016
SOCIAL AND ECONOMIC FACTORS			
Education	High school graduation	State-specific sources & EDFacts	Varies
	Some college	American Community Survey	2013-2017
Employment	Unemployment	Bureau of Labor Statistics	2017
Income	Children in poverty	Small Area Income and Poverty Estimates	2017
	Income inequality	American Community Survey	2013-2017
Family and Social Support	Children in single-parent households	American Community Survey	2013-2017
	Social associations	County Business Patterns	2016
Community Safety	Violent crime	Uniform Crime Reporting – FBI	2014 & 2016
	Injury deaths	CDC WONDER mortality data	2013-2017
PHYSICAL ENVIRONMENT			
Air and Water Quality	Air pollution – particulate matter*	Environmental Public Health Tracking Network	2014
	Drinking water violations	Safe Drinking Water Information System	2017
Housing and Transit	Severe housing problems	Comprehensive Housing Affordability Strategy (CHAS) data	2011-2015
	Driving alone to work	American Community Survey	2013-2017
	Long commute – driving alone	American Community Survey	2013-2017

*Not available for AK and HI.

2019 County Health Rankings: Additional Measure Sources and Years of Data

	Measure	Source	Years of Data
HEALTH OUTCOMES			
Length of Life	Life expectancy	National Center for Health Statistics - Mortality Files	2015-2017
	Premature age-adjusted mortality	CDC WONDER mortality data	2015-2017
	Child mortality	CDC WONDER mortality data	2014-2017
	Infant mortality	CDC WONDER mortality data	2011-2017
Quality of Life	Frequent physical distress	Behavioral Risk Factor Surveillance System	2016
	Frequent mental distress	Behavioral Risk Factor Surveillance System	2016
	Diabetes prevalence	CDC Diabetes Interactive Atlas	2015
	HIV prevalence	National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	2015
HEALTH FACTORS			
HEALTH BEHAVIORS			
Diet and Exercise	Food insecurity	Map the Meal Gap	2016
	Limited access to healthy foods	USDA Food Environment Atlas	2015
Alcohol and Drug Use	Drug overdose deaths	CDC WONDER mortality data	2015-2017
	Motor vehicle crash deaths	CDC WONDER mortality data	2011-2017
Other Health Behaviors	Insufficient sleep	Behavioral Risk Factor Surveillance System	2016
CLINICAL CARE			
Access to Care	Uninsured adults	Small Area Health Insurance Estimates	2016
	Uninsured children	Small Area Health Insurance Estimates	2016
	Other primary care providers	CMS, National Provider Identification File	2018
SOCIAL & ECONOMIC FACTORS			
Education	Disconnected youth	American Community Survey	2013-2017
Income	Median household income	Small Area Income and Poverty Estimates	2017
	Children eligible for free or reduced price lunch	National Center for Education Statistics	2016-2017
Family and Social Support	Residential segregation - black/white	American Community Survey	2013-2017
	Residential segregation - non-white/white	American Community Survey	2013-2017
Community Safety	Homicides	CDC WONDER mortality data	2011-2017
	Firearm fatalities	CDC WONDER mortality data	2013-2017
PHYSICAL ENVIRONMENT			
Housing and Transit	Homeownership	American Community Survey	2013-2017
	Severe housing cost burden	American Community Survey	2013-2017
DEMOGRAPHICS			
All	Population	Census Population Estimates	2017
	% below 18 years of age	Census Population Estimates	2017
	% 65 and older	Census Population Estimates	2017
	% Non-Hispanic African American	Census Population Estimates	2017
	% American Indian and Alaskan Native	Census Population Estimates	2017
	% Asian	Census Population Estimates	2017
	% Native Hawaiian/Other Pacific Islander	Census Population Estimates	2017
	% Hispanic	Census Population Estimates	2017
	% Non-Hispanic white	Census Population Estimates	2017
	% not proficient in English	American Community Survey	2013-2017
	% Females	Census Population Estimates	2017
	% Rural	Census Population Estimates	2010

Technical Notes and Glossary of Terms

What is health equity? What are health disparities? And how do they relate?

Health equity means that everyone has a fair and just opportunity to be as healthy as possible. This requires removing obstacles to health such as poverty and discrimination, and their consequences, including powerlessness and lack of access to good jobs with fair pay, quality education and housing, safe environments, and health care.

Health disparities are differences in health or in the key determinants of health such as education, safe housing, and discrimination, which adversely affect marginalized or excluded groups.

Health equity and health disparities are closely related to each other. Health equity is the ethical and human rights principle or value that motivates us to eliminate health disparities. Reducing and ultimately eliminating disparities in health and its determinants of health is how we measure progress toward health equity.

Braveman P, Arkin E, Orleans T, Proctor D, and Plough A. What is Health Equity? And What Difference Does a Definition Make? Robert Wood Johnson Foundation. May 2017

How do we define racial/ethnic groups?

In our analyses by race/ethnicity we define each category as follows:

- Hispanic includes those who identify themselves as Mexican, Puerto Rican, Cuban, Central or South American, other Hispanic, or Hispanic of unknown origin.
- American Indian/Alaskan Native includes people who identify themselves as American Indian or Alaskan Native and do not identify as Hispanic. This group is sometimes referred to as Native American in the report.
- Asian/Pacific Islander includes people who identify themselves as Asian or Pacific Islander and do not identify as Hispanic.
- Black includes people who identify themselves as black/African American and do not identify as Hispanic.
- White includes people who identify themselves as white and do not identify as Hispanic.

All racial/ethnic categories are exclusive so that one person fits into only one category. Our analyses do not include people reporting more than one race, as this category was not measured uniformly across our data sources.

We recognize that “race” is a social category, meaning the way society may identify individuals based on their cultural ancestry, not a way of characterizing individuals based on biology or genetics. A strong and growing body of empirical research provides support for the notion that genetic factors are not responsible for racial differences in health factors and very rarely for health outcomes.

How did we compare county ranks and racial/ethnic groups for length and quality of life?

Data are from the same data sources and years listed in the table on page 14. The mean and standard deviation for each health outcome measure (premature death, poor or fair health, poor physical health days, poor mental health days, and low birthweight) are calculated for all ranked counties within a state. This mean and standard deviation are then used as the metrics to calculate z-scores, a way to put all measures on the same scale, for values by race/ethnicity within the state. The z-scores are weighted using CHR&R measure weights for health outcomes to calculate a health outcomes z-score for each race/ethnicity. This z-score is then compared to the health outcome z-scores for all ranked counties within a state; the identified-score calculated for the racial/ethnic groups is compared to the quartile cut-off values for counties with states. You can learn more about calculating z-scores on our website under Rankings Methods.

How did we select evidence-informed approaches?

Evidence-informed approaches included in this report represent those backed by strategies that have demonstrated consistently favorable results in robust studies or reflect recommendations by experts based on early research. To learn more about evidence analysis methods and evidence-informed strategies that can make a difference to improving health and decreasing disparities, visit What Works for Health.

Technical Notes:

- In this report, we use the terms disparities, differences, and gaps interchangeably.
- We follow basic design principles for cartography in displaying color spectrums with less intensity for lower values and increasing color intensity for higher values. We do not intend to elicit implicit biases that “darker is bad”.
- In our graphics of state and U.S. counties we report the median of county values, our preferred measure of central tendency for counties. This value can differ from the state or U.S. overall values.

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County Health Rankings & Roadmaps

Building a Culture of Health, County by County

A Robert Wood Johnson Foundation program