WILLIS-KNIGHTON
HEALTH SYSTEM

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Willis-Knighton Health System
Bossier & Caddo Parish
Community Health Needs Assessment

May 2022

Our Mission

Willis-Knighton Health System's mission is to "To continuously improve the health and well-being of the people we serve."

About Willis-Knighton Health System

Willis-Knighton Health System ("WKHS" or "Willis-Knighton") was established in 1924 to bring high quality care to the residents of Bossier and Caddo parishes, the surrounding areas in northwestern Louisiana and Ark-La-Tex. Willis-Knighton has grown from one small hospital to a full health system that includes four satellite hospitals, a rehabilitation institute, a full-service retirement community, and the Willis-Knighton Innovation Center in Bossier City. Willis-Knighton has offered many firsts in our community, including:
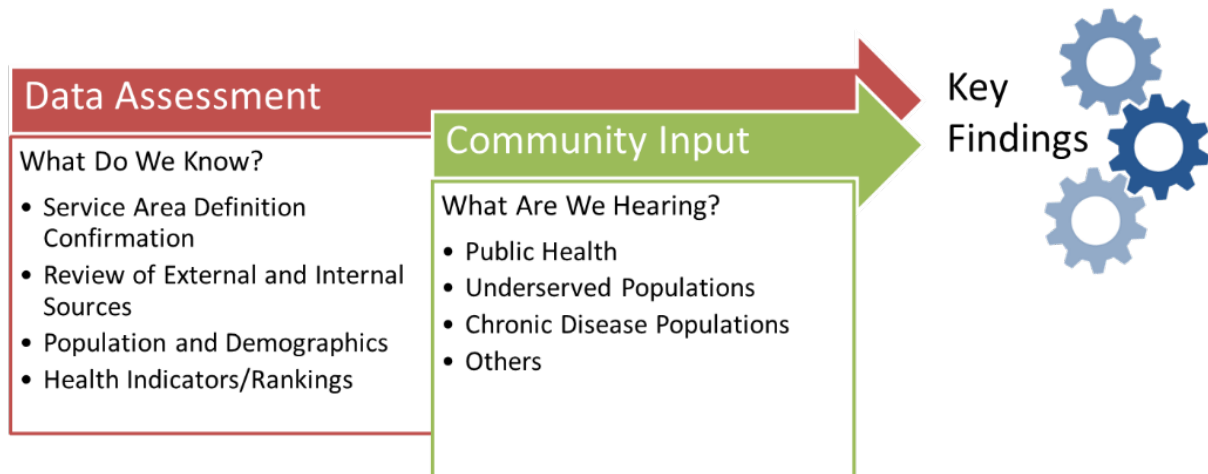
- Satellite hospital
- Center for women's health
- Eye institute
- Heart and vascular institute
- Collaboration as a private hospital with a public, academic medical center, Louisiana Health Shreveport.
- Innovation center with virtual hospital
- Talbot Medical Museum
- Senior residential options at The Oaks of Louisiana to enhance continuum of care
- Freestanding hospital for physical and behavioral rehabilitation
- Numerous "firsts" in technology and procedures, including proton therapy and TomoTherapy at the Willis-Knighton Cancer Center, state-of-the art imaging and diagnostic services, innovative cardiovascular technology and eye surgery technology.

Willis-Knighton Health System is a not-for-profit, locally-operated healthcare organization dedicated to caring for the people in our community and investing in their health and wellness. Willis-Knighton's past is closely tied to those of its friends and neighbors, as well as to its growth and success in the future.

Process and Methodology

Understanding the community's health needs is important to the Willis-Knighton mission. To that goal, WKHS sought outside assistance from DHG Healthcare (the national healthcare practices of Dixon Hughes Goodman LLP). DHG Healthcare is ranked as the 10th largest privately-held healthcare consulting firm by Modern Healthcare and has 300 professionals serving a national footprint. DHG Healthcare demonstrated the necessary capabilities and service offerings to assist WKHS on this important project. DHG Healthcare provided the project plan, research and organized the secondary data findings, analyzed and compiled focus group input, and provided support and report of the findings.

The process has two major elements illustrated below: 1) What do we know? This involved reviewing the secondary information available from a wide variety of sources to understand health needs and behaviors. This included reviewing local, state, and national healthcare and demographic variables. 2) What are we hearing? WKHS wanted to gain understanding from the residents we serve. This was a critically important element in this process. We listened as residents shared their thoughts through surveys. Input was sought from public health leaders, physicians, business leaders, religious leaders, former patients, community advocacy groups, and community members.

Data Assessment

What Do We Know?
- Service Area Definition Confirmation
- Review of External and Internal Sources
- Population and Demographics
- Health Indicators/Rankings

Community Input

What Are We Hearing?
- Public Health
- Underserved Populations
- Chronic Disease Populations
- Others

Key Findings

Community Served

The definition for this assessment is Bossier Parish and Caddo Parish in Louisiana. For the purpose of this assessment, we have used each facility's home parish as its service area. Using a parish definition as the service area is crucial for our analysis as much of our secondary data sources are parish specific and serve as a comparison tool to other counties, the state of Louisiana, and the United States.
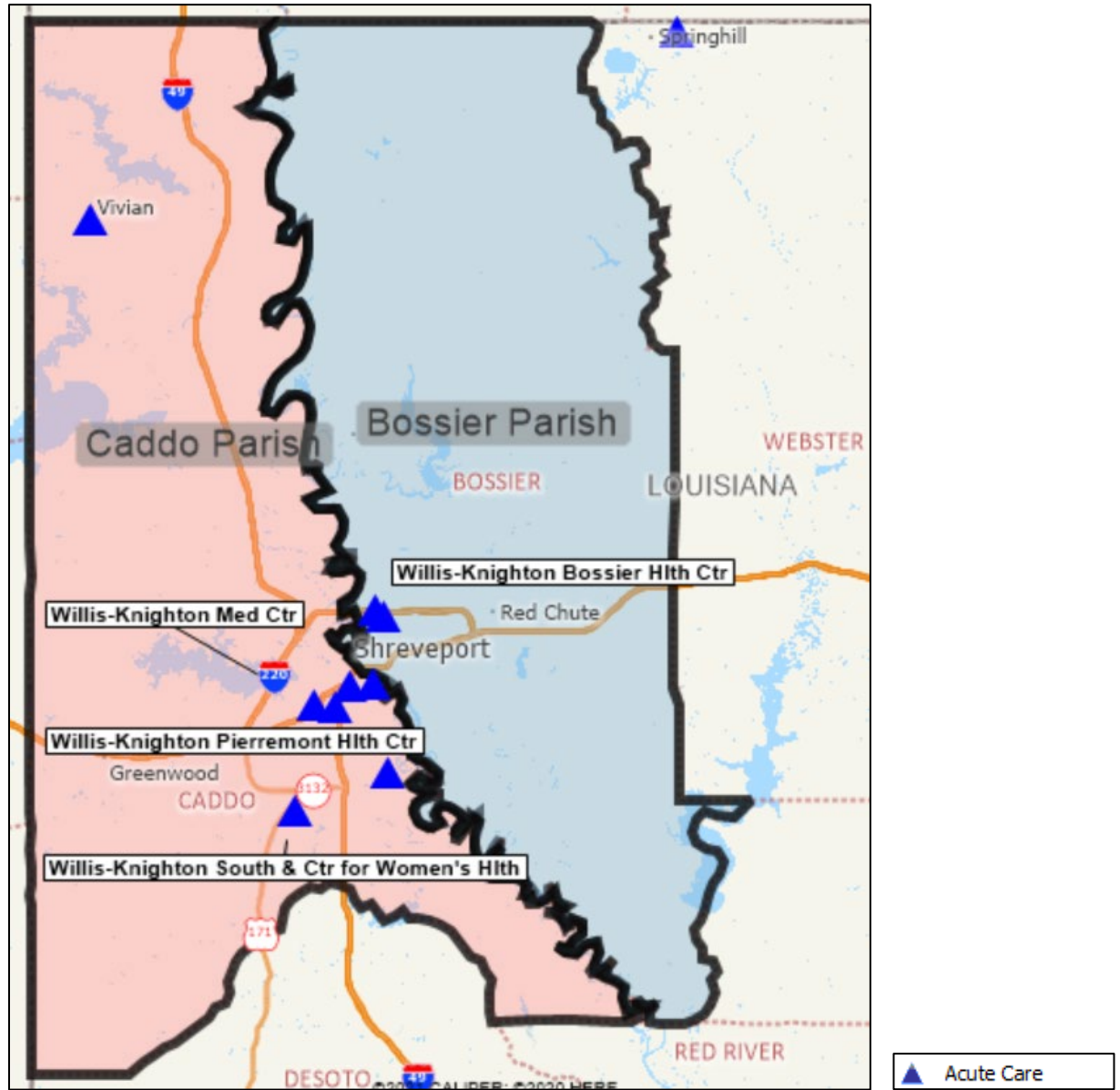
Data Assessment – Secondary Data

Demographics

An understanding of the demographics of the residents is an important component of understanding health. It is also important to understand the differences between the communities. Claritas demographic information was reviewed for each individual parish in comparison to the state and national norms. In the summary table below, there is variation seen in the average median income and the percent of families below poverty compared to the Louisiana average.

	Pop 2022	Pop 2027	% Growth Total Pop 2022-2027	Net Growth Total Pop 2022-2027	% Growth 65+ 2022-2027	Net Growth 65+ 2022-2027	Average Median HH Income 2022	% Families Below Poverty 2022
Bossier	128,341	130,970	2.05%	2,629	12.59%	2,550	$56,003	14.93%
Caddo	234,494	227,702	-2.90%	-6,792	7.24%	3,194	$47,120	18.05%
LA	4,660,111	4,683,518	0.50%	23,407	12.55%	99,449	$55,208	14.38%
USA	334,279,739	344,999,336	3.21%	10,719,597	15.26%	8,927,098	$72,465	9.06%

Caddo and Bossier Parish are experiencing the largest population growth in the 65+ age group, with double digit growth for this population in Bossier Parish.
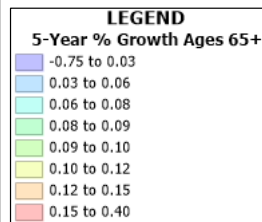
2022-2027 % Growth 65+

Caddo	% Growth 65+ 2022-2027
71004	8.62%
71007	11.07%
71029	35.29%
71033	10.15%
71043	9.73%
71044	4.17%
71047	10.60%
71060	10.20%
71061	6.23%
71069	9.03%
71082	3.31%
71101	8.19%
71103	0.63%
71104	7.49%
71105	6.25%
71106	8.40%
71108	12.24%
71109	2.84%
71115	6.41%
71118	3.57%
71119	6.81%
71129	11.95%

Source: Claritas, 2022-2027
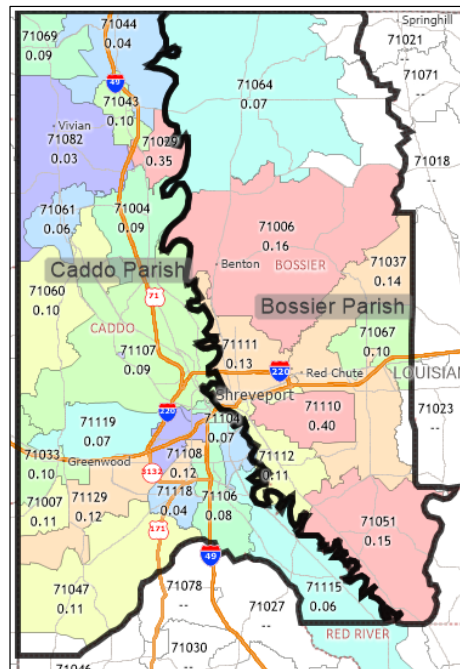
Bossier	% Growth 65+ 2022-2027
71006	15.61%
71037	14.43%
71051	15.36%
71064	7.17%
71067	10.03%
71107	9.05%
71110	40.00%
71111	12.59%
71112	10.60%

All zip codes in both Parishes have growth in the 65+ age group, the largest increase in growth for each Parish is 71029 (Caddo) and 71110 (Bossier).

LEGEND
5-Year % Growth Ages 65+
- -0.75 to 0.03
- 0.03 to 0.06
- 0.06 to 0.08
- 0.08 to 0.09
- 0.09 to 0.10
- 0.10 to 0.12
- 0.12 to 0.15
- 0.15 to 0.40

The following table and pie chart display the current racial and ethnic diversity present and anticipated growth in Bossier and Caddo Parish.
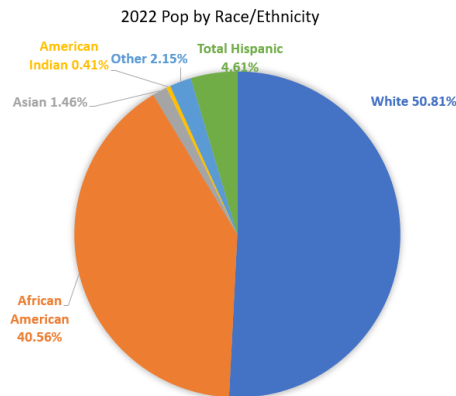
Race/Ethnicity Table

County	Population Breakdown	Total Population	White	African American	American Indian	Asian	Pacific Islander	Other	Two or more races
Bossier Parish - LA	Population 2022	128,341	87,679	29,966	682	2,308	125	3,719	3,862
Bossier Parish - LA	Population 2027	130,970	87,325	31,939	687	2,440	103	4,075	4,401
Bossier Parish - LA	Net Growth 2022-2027	2,629	-354	1,973	5	132	-22	356	539
Bossier Parish - LA	% Growth 2022-2027	2.05%	-0.40%	6.58%	0.73%	5.72%	-17.60%	9.57%	13.96%
Bossier Parish - LA	Population Under 65 2022	108,091	71,246	26,803	591	2,073	121	3,634	3,623
Bossier Parish - LA	Population Under 65 2027	108,170	69,143	28,157	583	2,159	94	3,950	4,084
Bossier Parish - LA	Net Growth Under 65 2022-2027	79	-2,103	1,354	-8	86	-27	316	461
Bossier Parish - LA	% Growth Under 65 2022-2027	0.07%	-2.95%	5.05%	-1.35%	4.15%	-22.31%	8.70%	12.72%
Bossier Parish - LA	Population 65+ 2022	20,250	16,433	3,163	91	235	4	85	239
Bossier Parish - LA	Population 65+ 2027	22,800	18,182	3,782	104	281	9	125	317
Bossier Parish - LA	Net Growth 65+ 2022-2027	2,550	1,749	619	13	46	5	40	78
Bossier Parish - LA	% Growth 65+ 2022-2027	12.59%	10.64%	19.57%	14.29%	19.57%	125.00%	47.06%	32.64%
Bossier Parish - LA	% CAGR Total Population	0.41%	-0.08%	1.28%	0.15%	1.12%	-3.80%	1.85%	2.65%
Bossier Parish - LA	% CAGR < 65	0.01%	-0.60%	0.99%	-0.27%	0.82%	-4.92%	1.68%	2.42%
Bossier Parish - LA	% CAGR 65+	2.40%	2.04%	3.64%	2.71%	3.64%	17.61%	8.02%	5.81%

County	Population Breakdown	Total Population	White	African American	American Indian	Asian	Pacific Islander	Other	Two or more races
Caddo Parish - LA	Population 2022	234,494	104,851	118,157	1,098	3,081	128	2,448	4,731
Caddo Parish - LA	Population 2027	227,702	97,659	117,855	1,104	3,246	128	2,589	5,121
Caddo Parish - LA	Net Growth 2022-2027	-6,792	-7,192	-302	6	165	0	141	390
Caddo Parish - LA	% Growth 2022-2027	-2.90%	-6.86%	-0.26%	0.55%	5.36%	0.00%	5.76%	8.24%
Caddo Parish - LA	Population Under 65 2022	190,406	78,140	101,807	899	2,800	117	2,318	4,325
Caddo Parish - LA	Population Under 65 2027	180,420	70,045	99,456	889	2,888	113	2,432	4,597
Caddo Parish - LA	Net Growth Under 65 2022-2027	-9,986	-8,095	-2,351	-10	88	-4	114	272
Caddo Parish - LA	% Growth Under 65 2022-2027	-5.24%	-10.36%	-2.31%	-1.11%	3.14%	-3.42%	4.92%	6.29%
Caddo Parish - LA	Population 65+ 2022	44,088	26,711	16,350	199	281	11	130	406
Caddo Parish - LA	Population 65+ 2027	47,282	27,614	18,399	215	358	15	157	524
Caddo Parish - LA	Net Growth 65+ 2022-2027	3,194	903	2,049	16	77	4	27	118
Caddo Parish - LA	% Growth 65+ 2022-2027	7.24%	3.38%	12.53%	8.04%	27.40%	36.36%	20.77%	29.06%
Caddo Parish - LA	% CAGR Total Population	-0.59%	-1.41%	-0.05%	0.11%	1.05%	0.00%	1.13%	1.60%
Caddo Parish - LA	% CAGR < 65	-1.07%	-2.16%	-0.47%	-0.22%	0.62%	-0.69%	0.96%	1.23%
Caddo Parish - LA	% CAGR 65+	1.41%	0.67%	2.39%	1.56%	4.96%	6.40%	3.85%	5.24%

Bossier   Caddo

2022 Pop by Race/Ethnicity

American Indian 0.41% Other 2.15% Total Hispanic 4.61% Asian 1.46% White 50.81% African American 40.56%

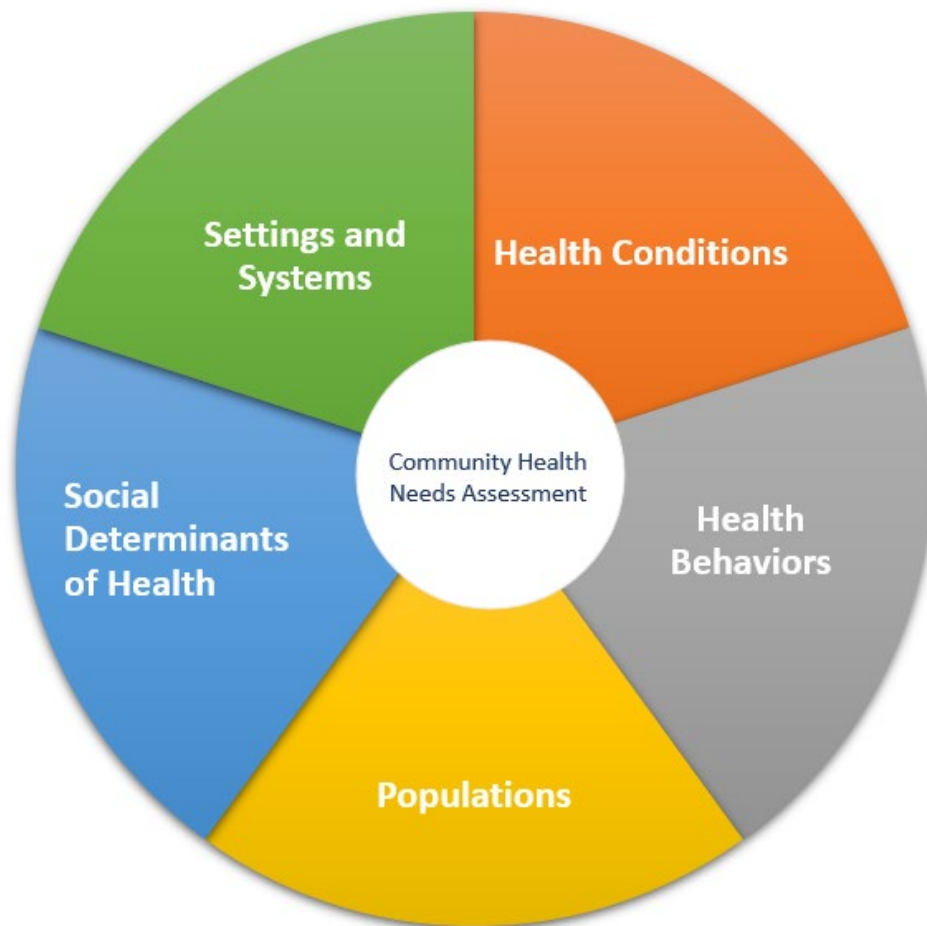Other key demographic findings included:

- Bossier Parish and Caddo Parish both have Medically Underserved areas.

- Bossier zip code 71111 has the highest 2022 population of both parishes. Zip code 71106 has the highest population for Caddo Parish.

- All zip codes in Bossier Parish are growing in population, except zip code 71110, 71107, and 71064, with the largest growth in zip code 71006. All zip codes in Caddo Parish, except zip code 71115, are declining in population.

- Bossier Parish has the largest net population growth in zip code 71111. Caddo Parish is declining in all zip codes except zip code 71115, which only indicates a slight increase.

- Both Parishes are declining in the age 0-17 population. Zip code 71111 has the largest population in Bossier Parish and zip code 71106 has the largest population in Caddo for 2022.

- All zip codes in Bossier Parish are declining in age 0-17 population with the exception of zip code 71006 and 71067. All zip codes in Caddo Parish are declining, the smallest negative growth percentage is zip code 71115.

- The largest net growth in age 0-17 population for Bossier Parish is in zip code 71006. The largest net decline is in Caddo Parish's zip code 71108.

- The largest age 18-44 Female 2022 population in both Parishes is in zip code 71111.

- Most zip codes in Bossier Parish are declining for the 18-44 Female population; however, the largest population incline is in zip code 71006. In Caddo Parish, most zip codes are declining for the 18-44 Female population, but the largest population incline is in zip code 71029.

- Zip code 71006 in Bossier Parish has the largest net 18-44 Female population growth. Zip code 71105 in Caddo Parish has the largest net decline.

- Zip code 71111 has the largest 2022 population in the 45-64 age group in both Parishes. Caddo's largest population resides in zip code 71106.

- Zip code 71110 in Bossier Parish has the largest percent growth in age 45-64. There is a decrease in age 45-64 growth in all zip codes in Caddo Parish except 71105.

- Most zip codes in Bossier Parish have negative growth in the 45-64 age group; zip code 71112 has the largest increase. All zip codes in Caddo Parish are declining for the 45-64 age population except 71105.

- In Bossier Parish, zip code 71111 has the largest 2022 65+ population. In Caddo Parish, zip code 71106 has the largest 2022 65+ population.

- All zip codes in both Parishes have growth in the 65+ age group, except zip code 71009 (Caddo), the largest increase is in zip code 71110 (Bossier).

Other Secondary Data

To present the data in a way that would tell a story of the community and identify needs, the framework of Healthy People 2030 was selected to guide secondary data gathering and community input. This framework was selected based on its national recognition.

Within this framework, there are 355 core measurable objectives that were sorted by topic. The five topics have guided discussion and research related to this CHNA. The five topics include Health Conditions, Health Behaviors, Setting and Systems, Social Determinants of Health, and Populations.

Health Conditions

Health Conditions are the prevalent chronic and acute conditions that affect the health of the citizens of the United States. Improvement and achievement of the Healthy People 2030 goals for these conditions will result in the better health of people living with cancer, chronic and mental conditions, infectious diseases, as well as improvement of sexual and reproductive health. The following table displays the Healthy People 2030 measurable objectives that fall under the health conditions topic.

Healthy People 2030 Objectives

Addiction*	Heart Disease and Stroke
Arthritis	Infectious Disease
Blood Disorders	Mental Health and Mental Disorders*
Cancer	Oral Conditions
Chronic Kidney Disease	Osteoporosis
Chronic Pain	Overweight and Obesity*
Dementias	Pregnancy and Childbirth
Diabetes*	Respiratory Disease
Foodborne Illness	Sensory or Communication Disorders
Health Care – Associated Infections	Sexually Transmitted Infections

*Objectives that are relevant to Willis Knighton's Community feedback and will be explored further below

Addiction: Healthy People 2030 focuses on preventing substance use disorders and helping people with these disorders get treatment. Strategies to prevent drug and alcohol use include increasing non-opioid pain management and interventions to help people with these disorders. The number of drug overdose deaths in Caddo Parish more than doubles Bossier Parish and the state average.

Drug Overdose Deaths per 100,000 Population

| Number of drug poisoning deaths per 100,000 population			
	2022	2019	Variance
Bossier Parish	39	45	-13.33%
Caddo Parish	87	90	-3.33%
Louisiana	31	21	47.62%

Diabetes: More than 30 million people in the United States have diabetes and Healthy People 2030 focuses on reducing the cases, complications, and deaths. The percentage of adults with diagnosed diabetes decreased by 1% from 2019 to 2022 in Bossier Parish and the state of Louisiana. Caddo Parish's percentage remained the same.

2022 Prevalence of Diabetes Among Adults (%) in LA, by Parish
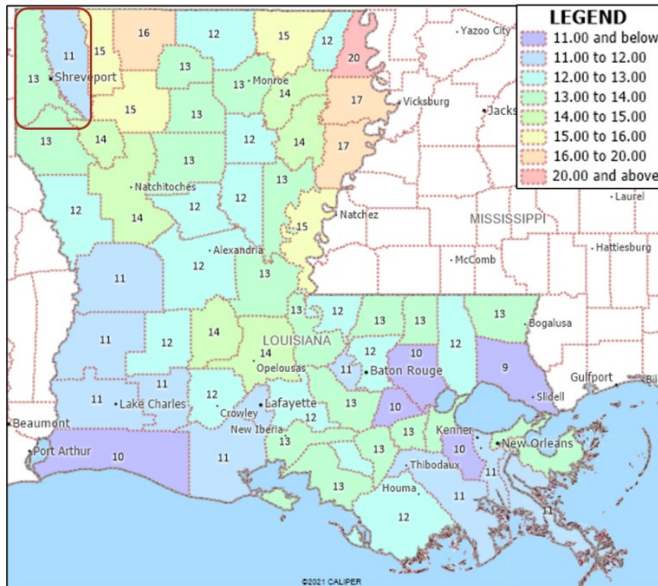
Percentage of adults aged 20 and above with diagnosed diabetes			
	2022	2019	Variance
Bossier Parish	11%	12%	-8.33%
Caddo Parish	13%	13%	0.00%
Louisiana	11%	12%	-8.33%

Overweight and Obesity: Healthy People 2030 focuses on helping people eat healthy and get enough physical activity to reach and maintain a healthy weight. From 2019 to 2022 the rate of adult obesity in the state of Louisiana has increased. Both Bossier and Caddo parishes are ranked higher than the state average.
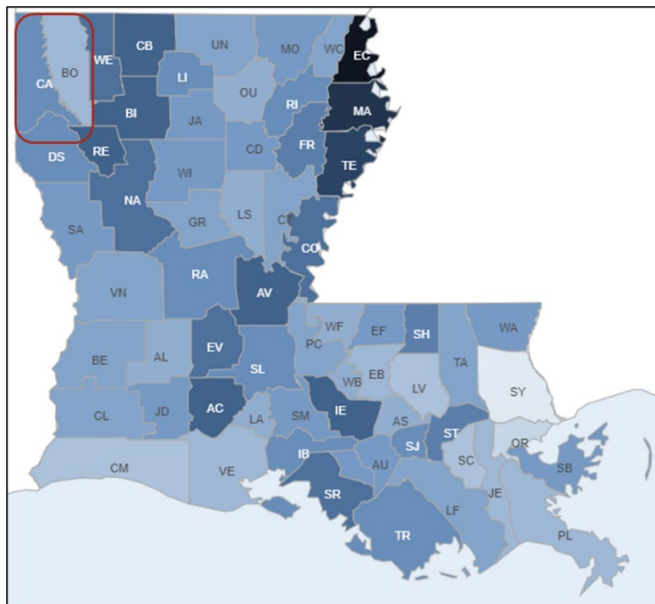
Percentage of adults (age 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m^2			
	2022	2019	Variance
Bossier Parish	36%	35%	2.86%
Caddo Parish	40%	38%	5.26%
Louisiana	36%	35%	2.86%
Top U.S. Performers (10th percentile)	30%	26%	15.38%

Mental Health and Mental Disorders: About half of all people in the United States will be diagnosed with a mental health disorder at some point in their lifetime. Healthy People 2030 focuses on the prevention, screening, assessment, and treatment of mental disorders and behavioral conditions. The average number of mentally unhealthy days have increased for Bossier and Caddo Parish as well as the state of Louisiana. However, both parishes had less days than the state average.
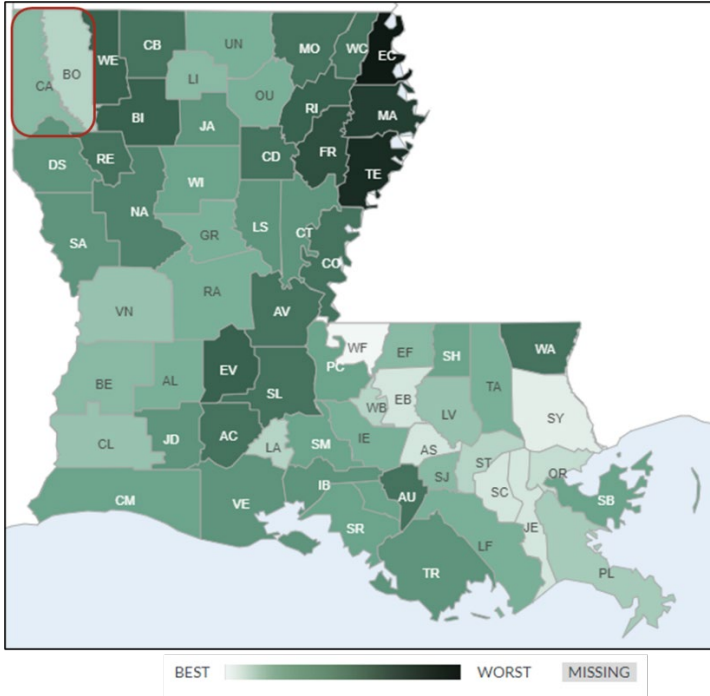
Average number of mentally unhealthy days reported in the past 30 days (age-adjusted)			
	2022	2019	Variance
Bossier Parish	5.2	4.0	30.00%
Caddo Parish	5.5	4.0	37.50%
Louisiana	5.6	4.2	33.33%
Top U.S. Performers (10th percentile)	4.0	3.1	29.03%

In 2022 Bossier, Caddo, and Louisiana all had an increase in percentage of mental distress days from 2019. Both parishes are less than the state average.

2022 Mental Health Distress in LA, by Parish
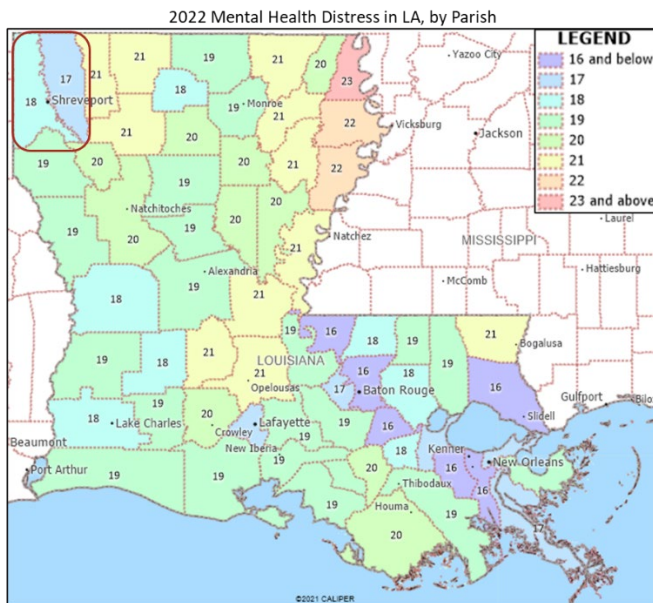
Percentage of adults reporting 14 or more days of poor mental health per month (age-adjusted)			
	2022	2019	Variance
Bossier Parish	17%	12%	41.67%
Caddo Parish	18%	13%	38.46%
Louisiana	19%	13%	46.15%

Other Key Findings:

Cancer

- Bossier Parish has Cancer Incidence Rates that are lower than state but higher than U.S. average. Caddo Parish has Cancer Incidence rates that are higher than the State and U.S. average.

- Caddo and Bossier Parishes have Breast Cancer Incidence Rates that are lower than State and U.S. average.

- The Colorectal Cancer Incidence Rate for Bossier Parish falls between the State and U.S., while Caddo Parish exceeds both.

- Both Parishes have Prostate Cancer Incidence Rates above the U.S. but fall below the State average.

- Caddo Parish has Cancer Mortality rates above the State and U.S. average. Bossier Parish falls between the two. Both parishes fall above the Healthy People 2030 mark of 122.7.

- Bossier Parish Breast Cancer Mortality is nearly aligned with the U.S Average, while Caddo Parish well exceeds State and U.S. rates. Both exceed the Healthy People 2030 goal 15.3.

- The Colorectal Cancer Mortality Rate for Bossier Parish falls below the State and U.S. average, while Caddo Parish is higher for both.

- Bossier Parish falls below the state and U.S. average Prostate Cancer Mortality rates while Caddo Parish is higher for both.

Chronic Disease

- Caddo Parish has a higher adult arthritis prevalence than the state average of 26.2%, while Bossier Parish is lower.

- In 2017, LA had a range of 100-299 Males with Hemophilia. This falls similar to other states in the Southeast.

- That state of Louisiana has a higher incidence rate of sickle cell trait in infants than others in the U.S. Louisiana has an incidence rate of 21.7 infants with sickle cell trait per 1,000 infants screened.

- In 2020, Louisiana saw a decrease in the percentage of adults with chronic kidney disease from 4.0% in 2019 to 3.8% this is above the national rate at 2.9% in 2020.

- In 2018, nearly 40% of drug involved overdose deaths were from opioid usage. This same year, providers in LA wrote 79.4 opioid prescriptions per 100 persons. The U.S. rate was 51.4.

- The percentage of adults with diagnosed diabetes decreased by 1% from 2019 to 2022 in Bossier Parish and the state of Louisiana. Caddo Parish's percentage remained the same.

- The rate of Cardiovascular Disease deaths in Bossier and Caddo Parish are lower than the state average of 520.7.

- Bossier and Caddo Parish fall just below the state average of 14.7 for All Stroke Hospitalizations. Both are above the National average.

- Bossier Parish had a significant increase in TB cases per 100,000 from 2019 to 2021. However, Caddo Parish had a decrease in cases and the state of Louisiana remained the same.

Infectious Disease

- Bossier Parish had a significant increase in TB cases per 100,000 from 2019 to 2021. However, Caddo Parish had a decrease in cases and the state of Louisiana remained the same.

Other Health Conditions

- Louisiana's Alzheimer's population is projected to grow by 19.6% by 2025. In 2018, $30,786 in Medicare Payments per capita were spent on patients with Alzheimer's.

- In Louisiana from 2019 Q3 to 2020 Q3 the only decline in HAIs SIRs was with CAUTI with a -16.3% change. The greatest increase was with CLABSI with a 62.9%.

- In 2018, Louisiana had 29.1 new cases of Salmonella per 100,000 whereas the United States had 16.7 per 100,000.

- In 2016 in Louisiana, spine, hip, and rib fractures had the highest incidence rate among osteoporotic fractures for Medicare beneficiaries. Estimated Osteoporotic Fractures incur costs of $20,800 in LA.

- 7.4% of children aged 3-17 years old in Louisiana currently have a speech or language disorder. This is higher than the national rate of 5.8%.

- Bossier and Caddo Parishes have increased density in fine particulate matter and are above the state average of Louisiana.

Oral Health

- The ratio of parish population to the number of dentists has decreased from 2019 to 2022. This also includes state and national ratios as well.

- Bossier and Caddo Parishes have almost identical incidence rates for Oral Cavity & Pharynx Cancer. Both exceed the state and national incidence rates.

Sexual and Reproductive Health

- The percentage of live birth low birthweight has slightly decreased in Caddo Paris. Bossier and the state of Louisiana have the same percentage at 11%.

- The number of newly diagnosed chlamydia cases per 100,000 increased in both Bossier and Caddo Parish.

Health Behaviors

Health Behaviors are the behaviors that influence the health of individuals related to family and personal health, healthcare prevention, substance abuse, violence, as well as other health behaviors such as emergency preparedness and safe food handling. The following table displays the Healthy People 2030 measurable objectives that fall under the health conditions topic.

Healthy People 2030 Objectives

Child and Adolescent Development	Physical Activity*
Drug and Alcohol Use	Preventative Care
Emergency Preparedness	Safe Food Handling
Family Planning	Sleep
Healthy Communication	Tobacco Use
Injury Prevention	Vaccination
Nutrition and Healthy Eating*	Violence Prevention*

*Objectives that are relevant to Willis Knighton's Community feedback and will be explored further below

Nutrition and Healthy Eating: Healthy People 2030 focuses on helping people get the recommended amounts of healthy foods to reduce their risk for chronic diseases and improve their health. Both Caddo Parish and Louisiana have decreased in percentage of population who lack adequate access to food since 2019. Bossier Parish ranks lower than the state average at 14%.


2022 Food Insecurity in LA, by Parish
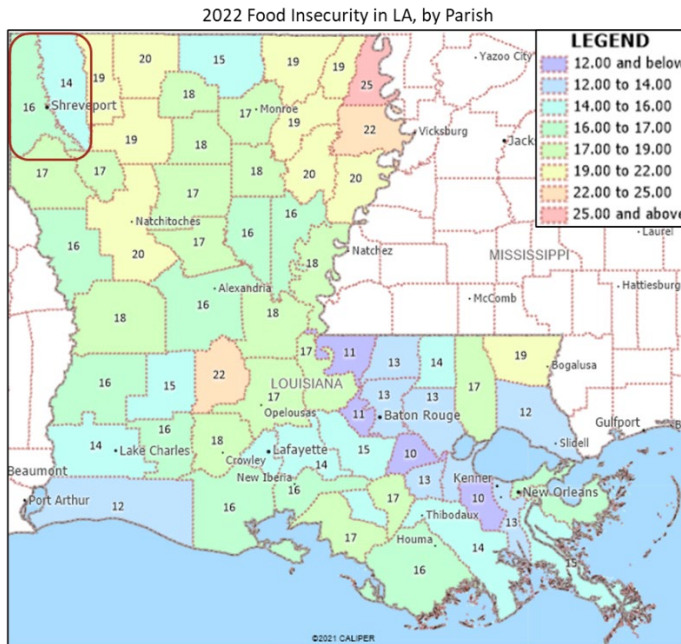
Percentage of population who lack adequate access to food			
	2022	2019	Variance
Bossier Parish	14%	13%	7.69%
Caddo Parish	16%	20%	-20.00%
Louisiana	16%	17%	-5.88%

From 2019 to 2022, the percentage of population that does not have access to health foods has increased for both Bossier and Caddo. The state of Louisiana also increased by 1%.

2022 Access to Healthy Foods in LA, by Parish

LEGEND
- 3.00 and below
- 3.00 to 5.00
- 5.00 to 8.00
- 8.00 to 11.00
- 11.00 to 14.00
- 14.00 to 19.00
- 19.00 to 30.00
- 30.00 and above
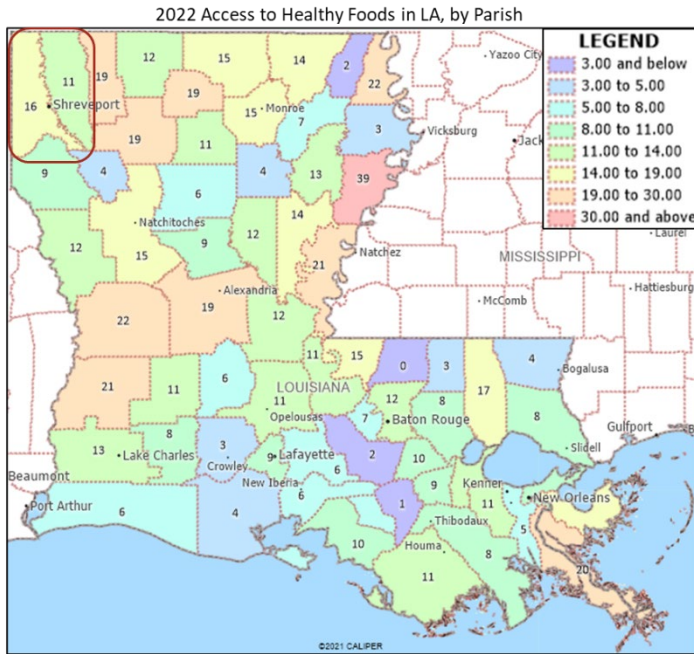
Percentage of population who are low-income and do not live close to a grocery store			
	2022	2019	Variance
Bossier Parish	11%	8%	37.50%
Caddo Parish	16%	14%	14.29%
Louisiana	11%	10%	10.00%

Physical Activity: Healthy People 2030 focuses on improving health and well-being by helping people of all ages get enough aerobic and muscle-strengthening activity. Physical activity can help prevent disease, disability, injury, and premature death. There is a minor decrease in percentage of population with access to locations for physical activities for both Bossier and Caddo parishes. Overall, the state of Louisiana saw a 3% decline as well.
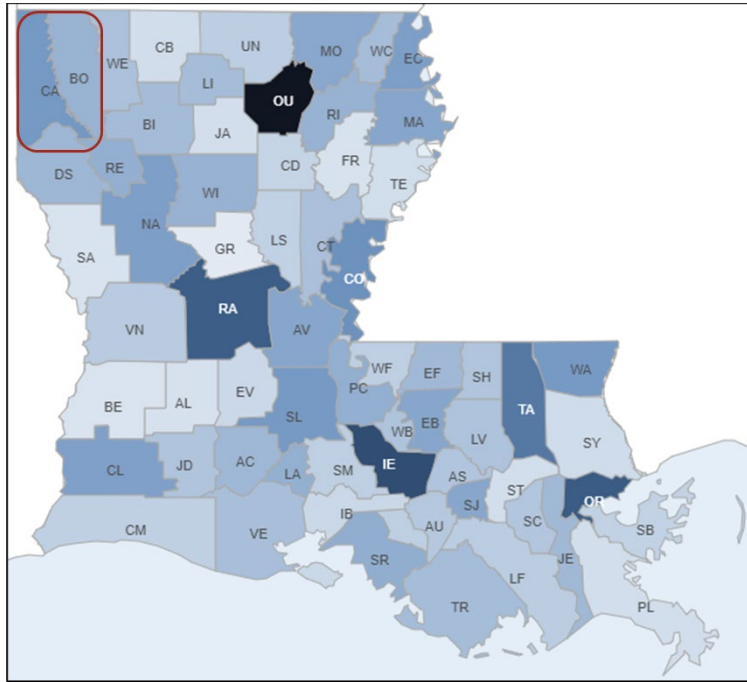

BEST — WORST — MISSING
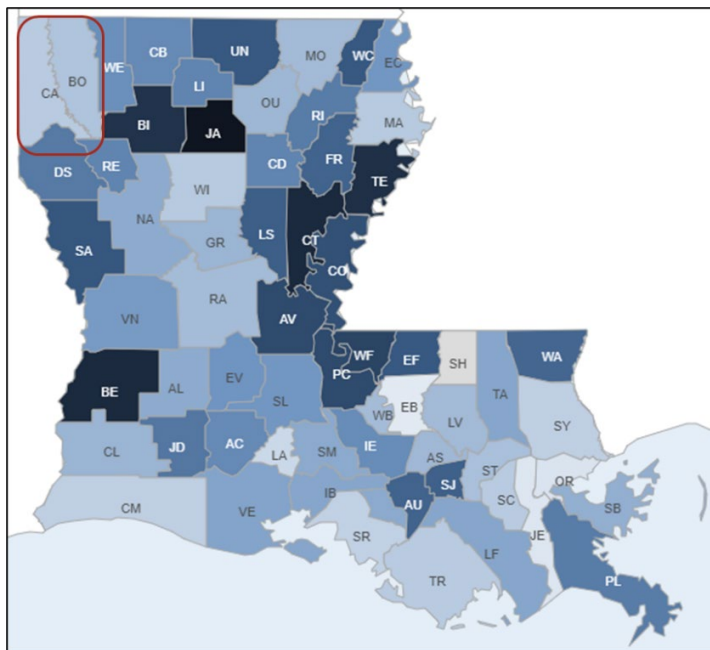
Percentage of population with adequate access to locations for physical activity			
	2022	2019	Variance
Bossier Parish	76%	82%	-7.32%
Caddo Parish	80%	85%	-5.88%
Louisiana	72%	75%	-4.00%
Top U.S. Performers (10th percentile)	86%	91%	-5.49%

Violence Prevention: Healthy People 2030 focuses on reducing different type of violence. Many people experience physical assaults, sexual violence, and gun-related injuries and almost 20,000 people die from homicide every year in the United States. The number of reported violent crime offenses has increased in Bossier, Caddo, and overall, in the state of Louisiana from 2018 to 2022.

Number of reported violent crime offenses per 100,000 population			
	2022	2018*	Variance
Bossier Parish	480	343	39.94%
Caddo Parish	688	600	14.67%
Louisiana	541	510	6.08%
Top U.S. Performers (10th percentile)	63	62	1.61%
*2018 data used due to 2022 and 2019 using the same data			

Other Key Findings:

Family

- In Louisiana, 49.8% of children aged 0-5 years old were read to 1-3 days per week by a family member. The national rate was 37.7% for 1-3 days per week and 36.6 for every day of the week.

- The rate of teen births decreased in both Bossier and Caddo Parishes from 2019 to 2022, each decreasing at a similar rate.

Personal Health

- Bossier and Caddo Parish increased in percentage of adults with insufficient sleep from 2019 to 2022 and fall below the state average of 38%

Healthcare Prevention

- 36.7% of children ages 12-17 that had a medical visit in the past 12-months were able to speak with their doctor privately. Opposed to the national proportion of 53%.

- In 2022, Bossier and Caddo Parishes fell slightly above the state percentage of mammography screenings of 43%.

- The percentage of Medicare enrollees vaccinated for the Flu stayed the same for Bossier Parish at 47% while it increased for Caddo Parish.

Substance Abuse

- The percentage of adults who reported excessive drinking increased in both Bossier and Caddo Parishes. The state average increased as well from 2019 to 2022.

- The percentage of current smokers has remained relatively similar in Bossier and Caddo Parishes with only a slight increase from 2019 to 2022.

Other Health Behaviors

- In the South, 0.71 of respondents reported that they washed their hands before preparing food "all the time". Only 0.08 responded they wash their hands "some of the time" or "rarely".

- In Louisiana, there has been one reported case of Listeriosis. This bacterial infection is most likely to affect pregnant women, newborns, and adults aged 65+.

- From 2019 to 2022, Bossier and Caddo Parishes experienced an increase in injury related deaths. Caddo has significantly higher injury related deaths at 88 per 100,000 in 2022. Both Parishes fall below the state average of 96 of 100,000.

- Caddo Parish offers Level I and Level II trauma centers both located at Ochsner LSU Health Shreveport. The state of Louisiana has a total of 10 trauma centers, the majority residing in the southern part of the state.

Setting and Systems

Setting and Systems provide insights into the infrastructure that influences the health outcomes and behaviors of populations. The availability of healthcare resources outside of the traditional healthcare settings play a vital role in the overall health of individuals. The following table displays the Healthy People 2030 measurable objectives that fall under the health conditions topic.

Healthy People 2030 Objectives

Community*	Hospital and Emergency Services
Environmental Health	Housing and Homes
Global Health	Public Health Infrastructure
Health Care*	Schools
Health Insurance*	Transportation
Health IT	Workplace
Health Policy	

*Objectives that are relevant to Willis Knighton's Community feedback and will be explored further below

Community: Healthy People 2030 focuses on ways organizations, businesses, schools, and residents can help build healthier communities. Both Bossier and Caddo Parish have higher index factors, then the state of Louisiana which has a 5.0 score. Specifically, Caddo Parish increased its score from 5.8 to 6.1.
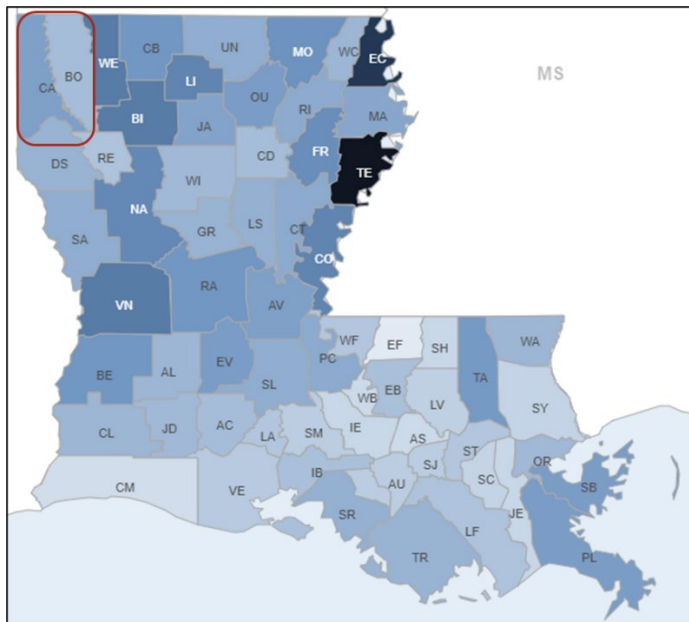
| Index factors that contribute to a healthy food environment, from 0 (worst) to 10 (best).			
	2022	2019	Variance
Bossier Parish	7.0	7.7	-9.09%
Caddo Parish	6.1	5.8	5.17%
Louisiana	5.0	5.3	-5.66%
Top U.S. Performers (90th percentile)	8.8	8.7	1.15%

Health Care: Healthy People 2030 focuses on improving health care quality and making sure all people get the health care services they need. The ratio of population to primary care physicians has improved in both Bossier and Caddo parishes. Overall, the state of Louisiana stayed relatively similar.
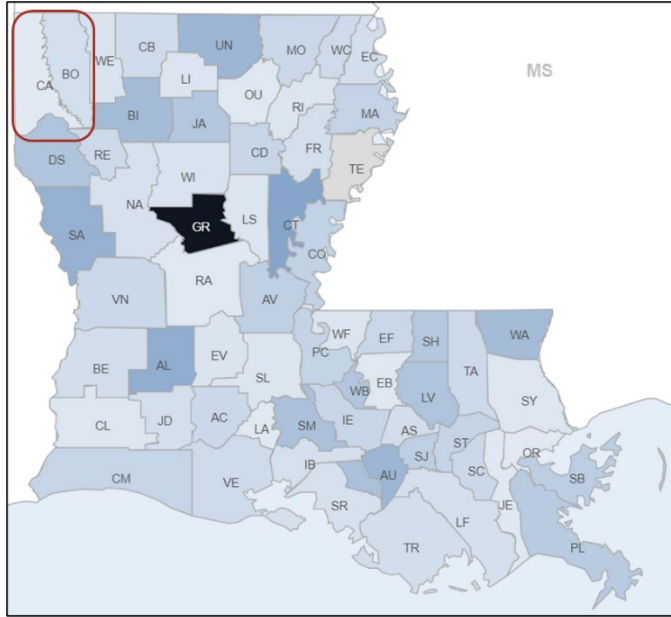
| Ratio of population for primary care physicians		
	2022	2019
Bossier Parish	2,190:1	2,330:1
Caddo Parish	800:1	850:1
Louisiana	1,430:1	1,500:1
Top U.S. Performers (10th percentile)	1,101:1	1,050:1

Caddo Parish saw an improvement in the ratio of population to mental health providers.
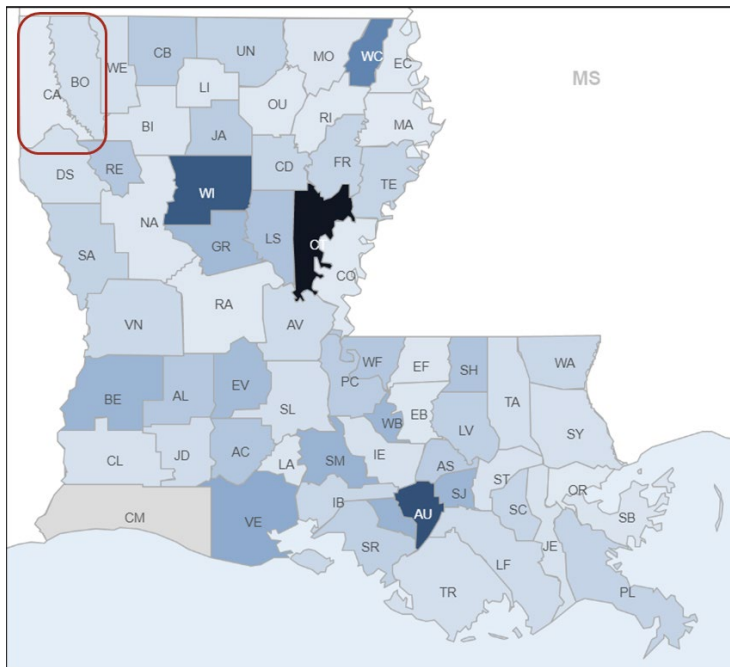
| Ratio of population for mental health providers		
	2022	2019
Bossier Parish	420:1	390:1
Caddo Parish	130:1	140:1
Louisiana	310:1	340:1
Top U.S. Performers (10th percentile)	250:1	310:1

Health Insurance: Healthy People 2030 focuses on improving health by increasing medical, dental, and prescription drug insurance coverage. About 30 million people in the United States do not have health insurance and people without insurance are less likely to get the health care services and medications they need. The percentage of population under 65 without insurance is the same for Caddo Parish and statewide at 10%. Bossier is slightly better at 9% and has stayed the same from 2019 to 2022.
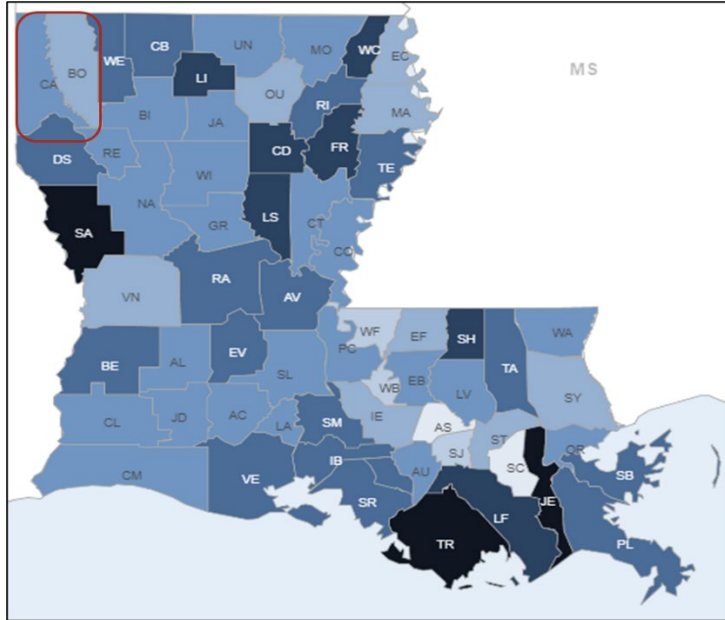
Percentage of population under 65 without health insurance.			
	2022	2019	Variance
Bossier Parish	9%	9%	0.00%
Caddo Parish	10%	12%	-16.67%
Louisiana	10%	12%	-16.67%
Top U.S. Performers (10th percentile)	6%	6%	0.00%

Bossier Parish percentage of uninsured children increased from 2019 to 2022 and is the same as the state of Louisiana at 4%. Caddo Parish remained the same over the same period of time.

2022 Percentage of Uninsured Children in LA, by Parish
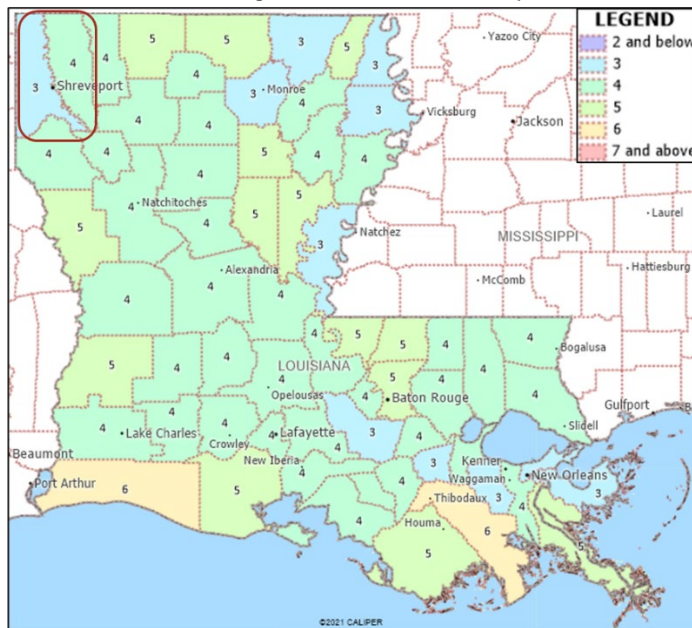
Percentage of children under age 19 without health insurance			
	2022	2019	Variance
Bossier Parish	4%	3%	33.33%
Caddo Parish	3%	3%	0.00%
Louisiana	4%	3%	33.33%

Other Key Findings:

Housing and Resources

- In 2019 and 2022 Bossier and Caddo Parishes had indicators of the presence of health-related drinking water violations. Only 20 out of the 64 parishes in Louisiana have no indicators of water violations.

- The state of Louisiana maintained the percentage of households with severe housing problems. Bossier decreased by 1% and Caddo Parish increased by 1% from 2019 to 2022.

- Bossier and Caddo Parish increased in percentage of high school graduates from 2019 to 2022. Bossier has an even higher percentage than the state average which is 81%.

- The state of Louisiana has a higher average percentage of households with broadband internet access at 79%. Caddo ranks higher than Bossier with 73% and 70% respectively.

Health Care Access

- Louisiana Medicaid has a policy that only reimburses "distant site for services" if it is provided through telemedicine. Services that are telehealth will be held to the same level as those provided in person. The definition of Telemedicine is the use, regardless of the origination site, of interactive audio or video to communicate between practitioner and the beneficiary.

- The rate of preventable hospital stays has decreased from 2019 to 2022. Bossier and Caddo have a higher number of hospital stays than the state rate which is 4,947.

- Region 7 of the Office of Public Health for the state of Louisiana houses Bossier and Caddo parishes. The region has a total of 14 health units. Within each parish Bossier has 1 health unit and Caddo has 4.

Other Settings and Systems

- In 2015, the Bureau of Labor Statistics reported a rate of 0.3 per 10,000 for non-fatal injuries caused by heat exposure. This translates to 40 incidents in Louisiana.

- Of those who commute alone in their car, the percentage of worker's whose commute is over 30 minutes has decreased in both Bossier and Caddo from 2019 to 2022.

- The percentage of motor vehicle crash deaths remained the same at 16% and slightly improved for Bossier.

- In Louisiana, the tax on a pack of cigarettes falls below the national average of $1.82. At this tax rate, Louisiana ranks 37th in the U.S. compared to the excise tax per pack of cigarettes.

- One of the Healthy People 2030 measures is to increase the proportion of worksites offer employee health promotion programs. The Louisiana Department of Health (LDH) created the Well-Ahead to encourage and support organizations in creating healthier workplaces. As a result, 187 organizations have started a comprehensive worksite wellness program.

Social Determinants of Health

Social Determinants of Health describe the socioeconomic factors that play a role in the level of health people can achieve. This section looks at aspects outside of healthcare such as economic stability, education, and violence in the community. The following table displays the Healthy People 2030 measurable objectives that fall under the health conditions topic.

Healthy People 2030 Objectives	
Economic Stability	Neighborhood and Built Environment*
Education Access and Quality*	Social and Community context
Health Care Access and Quality	

*Objectives that are relevant to Willis Knighton's Community feedback and will be explored further below

Education Access and Quality: Healthy People 2030 focuses on providing high-quality educational opportunities for children and adolescents. People with higher levels of education are more likely to be healthier and live longer. The percentage of adults with high school diplomas is greater in Bossier and Caddo parishes than the state of Louisiana at 86%.
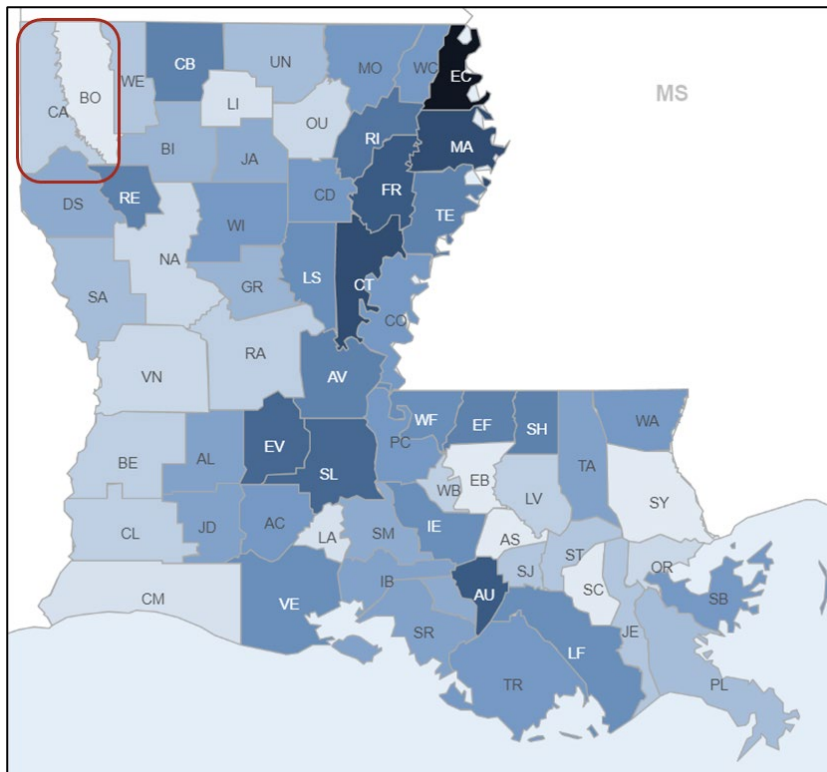

| % Adults 25 and over with a high school diploma or equivalent	
	2022
Bossier Parish	90%
Caddo Parish	87%
Louisiana	86%
Top U.S. Performers (90th percentile)	94%

BEST — WORST | MISSING

Neighborhood and Built Environment: Healthy People 2030 focuses on improving health and safety in the places where people live, work, learn, and play. In 2020, the rate of violent crime was 639.4 per 100,000 people. This is higher than the national rate of 398.5.

Rate of Violent Crime Offenses by Population

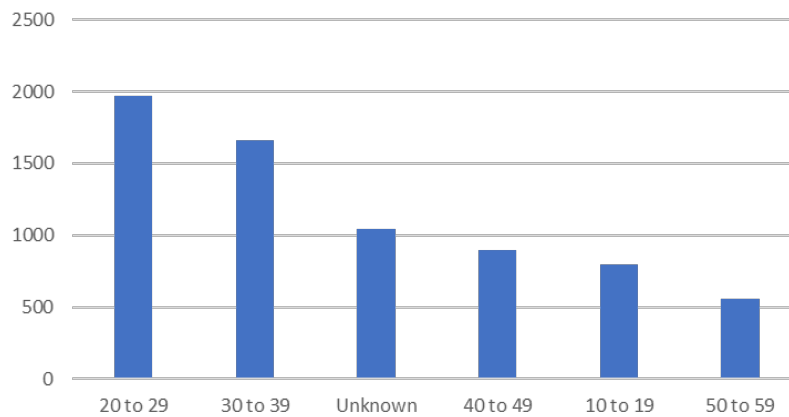Rate per 100,000 people, by year
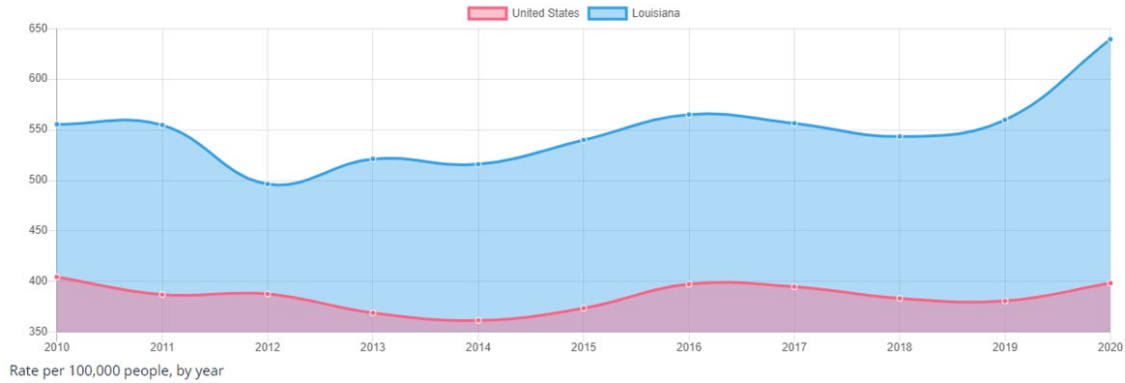
The 20-29 age group is the most common age of both offenders and victims of violent crimes. Healthy People 2030 has a goal to reduce the rate of minors and young adults committing violent crimes to 199.2 per 100,000.

LA Violent Crime Vicitims by Age Groups
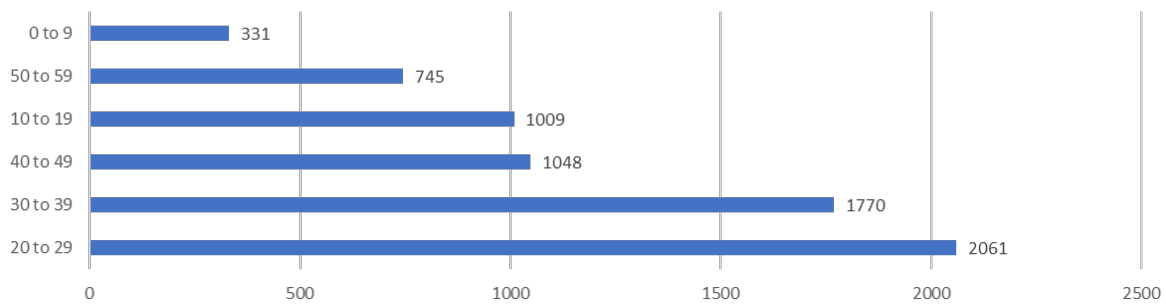
LA 2020 Violent Crime Offenders by Age Group

Other Key Findings:

Economic Stability

- Bossier and Caddo have increased the percentage of household facing a housing cost burden. The state of Louisiana stayed the same from 2019 to 2021 at 14%. Bossier has the same percentage as the state average.

Health Care Access and Quality

- In Louisiana, 80.5% of children ages 0-17 years had at least 1 preventative care visit in the past 12 months. This is almost the exact same as the national rate of 80.7%.

Social and Community Context

- 11.6% of children in Louisiana, aged 0-17, have experienced a parent or guardian serving time in jail. This is substantially above the national average of 7.0%.
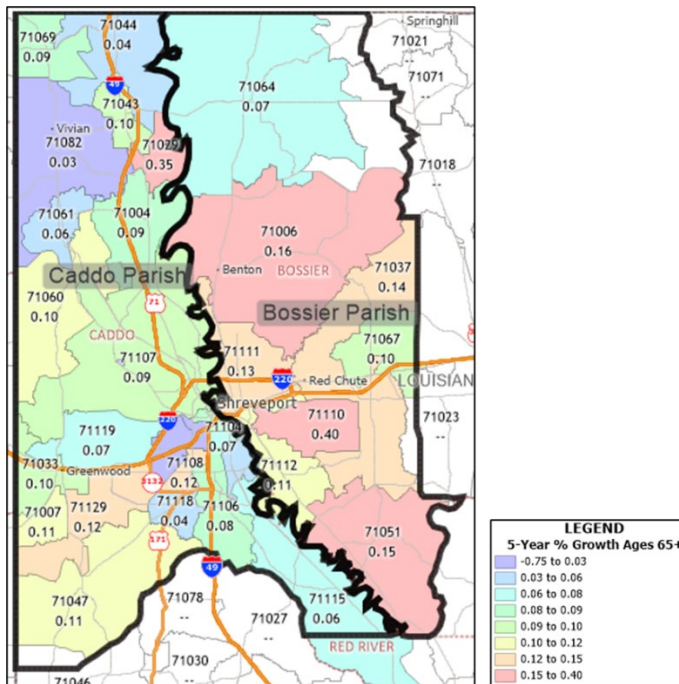
Populations

Populations define the populations and demographics that align with other Healthy People 2030 objectives. The population information looks at age groups, gender, race and ethnicity, and disability status. Health and wellness metrics are also identified related to specific populations. The following table displays the Healthy People 2030 measurable objectives that fall under the health conditions topic.

Healthy People 2030 Objectives

Adolescents	Older Adults*
Children	Parents or Caregivers
Infants	People with Disabilities
LGBT	Women
Men	Workforce*

*Objectives that are relevant to Willis Knighton's Community feedback and will be explored further below

Older Adults: The Healthy People 2030 focuses on reducing health problems and improving quality of life for older adults. The 65+ age group has the highest projected growth of all other age groups. Bossier Parish is predicted to have more than double the amount of growth rate as that of Caddo.

65+ Age Group			
	2022 Population	2027 Population	5-YR % Growth
Bossier Parish	20,250	22,800	12.59%
Caddo Parish	44,088	47,282	7.24%
Total Service Area	64,338	70,082	8.93%

Workforce: Healthy People 2030 focuses on promoting the health, well-being, education. And training of the workforce – including the public health and health care workforce. Overall, there was a significant increase in the unemployed population statewide and amongst Bossier and Caddo Parishes. Caddo had the highest increase from 5.8% to 9.0% from the 2019 to 2022 report.
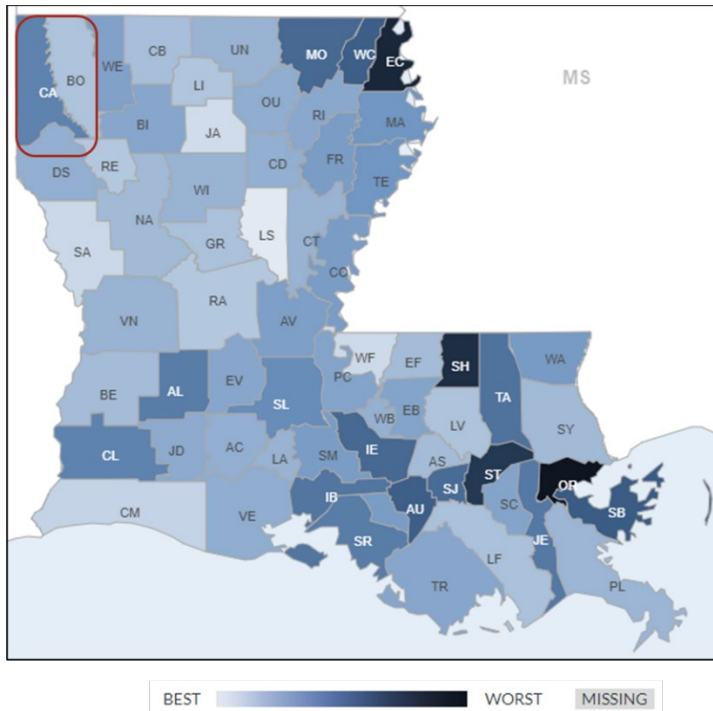
Percentage of population ages 16 and older unemployed but seeking work			
	2022	2019	Variance
Bossier Parish	6.4%	4.5%	42.22%
Caddo Parish	9.0%	5.8%	55.17%
Louisiana	8.3%	5.1%	62.75%
Top U.S. Performers (10th percentile)	4.0%	2.9%	37.93%

Other Key Findings:

2022 – 2027 Population Growth

- Caddo Parish has a projected negative projected 5-year growth rate, which effects the growth rate of the two Parishes combined. On the other hand, Bossier Parish is expected to grow by about 2.05%.

- Across the service area, the 65+ Age Group is projected to experience the largest growth of 5,724. All other Age Groups are expected to decline.

- The 0-17 population is projected to decline in Bossier Parish by 0.24%. Caddo Parish is expected to grow by .89%.

- Despite having a lower growth rates in the service area, Bossier Parish contains the high growth zip codes in the 18-44 age group. 71006 (5.59%) and 71051 (2.28%).

- Bossier Parish is expected to experience positive growth in the 45-64 age group, while Caddo is predicted to have a large decline at -8.29%.

- Across the service area, the 85+ Age Group have the highest projected growth of 12.21% while the 55-64 Age Group is expected to have the greatest decline of -11.11%.

Demographics

- The percentage of the population that is male in Bossier and Caddo Parish has been relatively consistent from 2019 to 2022. Both parishes had a slight decrease by 1-2% over the years.

- Similar to the male population, the percentage of the population that is female in Bossier and Caddo Parishes has remained consistent from 2019 to 2022. There was a slight increase in both parishes which is on par with the increase in state population percentage.

- 40.56% of the population in the service area counties is Black/African American and in projected to grown 1.09%. White makes up 50.81% of the population but has a negative projected growth of -4.47%.

Children and Adolescents

- Bossier Parish and the state of Louisiana have the same infant mortality rate in the 2022 report. Caddo parish exceeds both rates by having 11 infant deaths per 1,000 live births.

- There is a reduction in child mortality rates in both Bossier and Caddo Parishes. However, Bossier falls below the state average of 70 child deaths per 100,000.

- The percentage of children in poverty significantly decreased for Caddo Parish 39% to 26% from 2019 to 2022 and only increased by 1% in Bossier Parish.

Additional Demographics

- In 2019, Caddo Parish has a higher density of same-sex couples per 1,000 households than the state average of 4.68. Bossier Parish has a higher percentage of same-sex couple raising children at 25.6%

- Across the state, the percentage of single parent households decreased from 2019 to 2022. Bossier and Caddo saw a decrease, 6% each.

- For children ages 3-17, 3.9% have autism or ASD in the state of Louisiana. Nationally, this percentage is lower at 2.9%.

Summary of Health Objectives:

Health Conditions					
Metric	**Details**	**Louisiana**	**Bossier**	**Caddo**	**Data Year**
Addiction - Drug Overdose Deaths	Number of drug poisoning deaths per 100,000	31	39	87	2022
All Stroke Hospitalizations	Hospitalization Rate per 1,000 Medicare Beneficiaries (65+, All	14.7	14.1	14.5	2017-2019
Arthritis	% of Arthritis Among Adults	26.20%	25.90%	27.70%	2015
Blood Disorders - Hemophilia	Range of Male Hemophilia A/B	100-299	N/A	N/A	2017
Blood Disorders - Sickle Cell	Incidence per 1,000 Infants	21.7	N/A	N/A	2010
Cancer Incidence Rates - All Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	482.4	475.8	485.9	2014-2018
Cancer Incidence Rates - Breast Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	127.4	123.4	126.4	2014-2018
Cancer Incidence Rates - Colorectal Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	44.9	42.4	45.9	2014-2018
Cancer Incidence Rates - Prostate Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	134.7	119.3	133.2	2014-2018
Cancer Mortality Rates - All Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	172.5	163.6	182.7	2015-2019
Cancer Mortality Rates - Breast Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	22.4	19.8	26.6	2015-2019
Cancer Mortality Rates - Colorectal Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	15.9	12.9	17.8	2015-2019
Cancer Mortality Rates - Prostate Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	20	16.9	21.1	2015-2019
Chronic Kidney Disease	% Adults who were told by health professional that they have kidney disease	3.80%	N/A	N/A	2020
Chronic Pain	% Opioid Usage among Overdose Deaths	40.00%	N/A	N/A	2018
Dementia - Alzheimer's Disease	Number of people with Alzheimer's Dementia per 1,000	92	N/A	N/A	2020
Diabetes	% Adults aged 20 and above with diagnosed diabetes	11.00%	11.00%	13.00%	2022
Foodborne Illness	Cases reported of Listeriosis	N/A	2	9	2002-2018
Foodborne Illness	Incidence Rate per Parish of Salmonellosis	N/A	21.96	19.6	2008-2017
Foodborne Illness	Incidence Rate per 100,000 E. Coli	N/A	0.16	0.12	1996-2018
Foodborne Illness	Incidence Rate per Parish Campylobacteriosis	N/A	3.68	2.45	1988-2017
Health Care Associated Infections	Standardized Infection Ratios (SIR) CLABSI	1.45	N/A	N/A	2020 Q3
Health Care Associated Infections	Standardized Infection Ratios (SIR) CAUTI	0.67	N/A	N/A	2020 Q3
Health Care Associated Infections	Standardized Infection Ratios (SIR) SSI, Colon Surgery	1.28	N/A	N/A	2020 Q3
Health Care Associated Infections	Standardized Infection Ratios (SIR) SSI, Abdominal Surgery	1	N/A	N/A	2020 Q3
Infectious Disease - Tuberculosis	Cases per 100,000	1.9	1.6	0.4	2021

Health Conditions					
Metric	**Details**	**Louisiana**	**Bossier**	**Caddo**	**Data Year**
Addiction - Drug Overdose Deaths	Number of drug poisoning deaths per 100,000	31	39	87	2022
All Stroke Hospitalizations	Hospitalization Rate per 1,000 Medicare Beneficiaries (65+, All Races)	14.7	14.1	14.5	2017-2019
Arthritis	% of Arthritis Among Adults	26.20%	25.90%	27.70%	2015
Blood Disorders - Hemophilia	Range of Male Hemophilia A/B	100-299	N/A	N/A	2017
Blood Disorders - Sickle Cell	Incidence per 1,000 Infants	21.7	N/A	N/A	2010
Cancer Incidence Rates - All Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	482.4	475.8	485.9	2014-2018
Cancer Incidence Rates - Breast Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	127.4	123.4	126.4	2014-2018
Cancer Incidence Rates - Colorectal Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	44.9	42.4	45.9	2014-2018
Cancer Incidence Rates - Prostate Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	134.7	119.3	133.2	2014-2018
Cancer Mortality Rates - All Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	172.5	163.6	182.7	2015-2019
Cancer Mortality Rates - Breast Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	22.4	19.8	26.6	2015-2019
Cancer Mortality Rates - Colorectal Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	15.9	12.9	17.8	2015-2019
Cancer Mortality Rates - Prostate Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	20	16.9	21.1	2015-2019
Chronic Kidney Disease	% Adults who were told by health professional that they have kidney disease	3.80%	N/A	N/A	2020
Chronic Pain	% Opioid Usage among Overdose Deaths	40.00%	N/A	N/A	2018
Dementia - Alzheimer's Disease	Number of people with Alzheimer's Dementia per 1,000	92	N/A	N/A	2020
Diabetes	% Adults aged 20 and above with diagnosed diabetes	11.00%	11.00%	13.00%	2022
Foodborne Illness	Cases reported of Listeriosis	N/A	2	9	2002-2018
Foodborne Illness	Incidence Rate per Parish of Salmonellosis	N/A	21.96	19.6	2008-2017
Foodborne Illness	Incidence Rate per 100,000 E. Coli	N/A	0.16	0.12	1996-2018

Metric	Details	Louisiana	Bossier	Caddo	Year
Foodborne Illness	Incidence Rate per Parish Campylobacteriosis	N/A	3.68	2.45	1988-2017
Health Care Associated Infections	Standardized Infection Ratios (SIR) CLABSI	1.45	N/A	N/A	2020 Q3
Health Care Associated Infections	Standardized Infection Ratios (SIR) CAUTI	0.67	N/A	N/A	2020 Q3
Health Care Associated Infections	Standardized Infection Ratios (SIR) SSI, Colon Surgery	1.28	N/A	N/A	2020 Q3
Health Care Associated Infections	Standardized Infection Ratios (SIR) SSI, Abdominal Surgery	1	N/A	N/A	2020 Q3
Infectious Disease - Tuberculosis	Cases per 100,000	1.9	1.6	0.4	2021
Mental Distress	% Adults reporting 14 or more days poor mental health	19.00%	17.00%	18.00%	2022
Oral Health - Dentist	Ratio of Pop. To Dentist	1,760:1	1,740:1	1,230:1	2022
Oral Health - Oral Cavity & Pharynx Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	13.2	14.3	14.5	2014-2018
Osteoporosis	Fracture rate per 10,000 beneficiaries	395.7	N/A	N/A	2016
Overweight and Obesity	% Adults (age 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m^2	36.00%	36.00%	40.00%	2022
Poor Mental Health Days	Avg. Mentally Unhealthy Days	5.6	5.2	5.5	2022
Respiratory Disease - air pollution	Avg. Daily Density of fine particulate matter	9.4	10.5	10.7	2022
Sensory or Communication Disorders	% of Children 3-17 who have speech or language disorder	7.40%	N/A	N/A	2019-2020
Sexual and Reproductive Health - Low Birthweight	% Live Births with low birthweight	11.00%	11.00%	14.00%	2022
Sexual and Reproductive Health - Sexually Transmitted Infections	Number of newly diagnosed chlamydia per 100,000	777.2	633.7	1,139.90	2022
Total Cardiovascular Disease Death	Death Rate per 100,000 (35+, All Races)	520.7	501	470	2017-2019
Health Behaviors					
Metric	Details	Louisiana	Bossier	Caddo	Year
Drug and Alcohol Use	% Adults reporting binge or heavy drinking	22.00%	21.00%	17.00%	2022

Emergency Preparedness	Count of Trauma Centers	10	2	0	2022
Family Planning	Number of births per 1,000 female pop. Ages 15-19	30	26	37	2022
Health Communication	% Children ages 12-17 that had a medical visit past 12-months were able to speak to doctor privately	36.70%	N/A	N/A	2019-2020
Injury Prevention	Number of deaths due to injury per 100,000 population	96	64	88	2022
Nutrition and Healthy Eating	% Population who are low-income and far from grocery store	11.00%	11.00%	16.00%	2022
Nutrition and Healthy Eating	% Population who lack adequate access to food	16.00%	14.00%	16.00%	2022
Physical Activity	% Population with adequate access to locations for physical activity	72.00%	76.00%	80.00%	2022
Preventive Care	% Female Medicare Enrollees ages 65-74 with annual mammography	43.00%	45.00%	44.00%	2022
Sleep	% Adults who report fewer than 7 hrs. of sleep	38.00%	39.00%	41.00%	2022
Tobacco Use	% Adults who are current smokers	23.00%	22.00%	23.00%	2022
Vaccination	% FFS Medicare Enrollees that had annual flu vaccination	44.00%	47.00%	44.00%	2022
Violence Prevention	Number of reported violent crime offenses per 100,00 population	541.00%	480	688	2022

Populations					
Metric	**Details**	**Louisiana**	**Bossier**	**Caddo**	**Year**
Children	Number of deaths among children under age 18 per 100,000	70	60	90	2022
Children	Number of deaths due to injury per 100,000	0.24	0.25	0.26	2022
Infants	Number of all infant deaths per 1,000 live births	8	8	11	2022
LGBT	Population density of same-sex couples per 1,000	4.68	3.26	4.83	2019
Men	% Population that is male	48.70%	49.40%	47.30%	2022
Parents or Caregivers	% Children that live in a household headed by single parent	35.00%	31.00%	46.00%	2022

People with Disabilities	% Children have autism or ASD	3.90%	N/A	N/A	2022
Women	% Population that is female	51.30%	50.60%	52.70%	2022
Workforce	% Population ages 16 and older unemployed but seeking work	8.30%	6.40%	9.00%	2022

Settings and Systems					
Metric	**Details**	**Louisiana**	**Bossier**	**Caddo**	**Year**
Community	Food Environment - Index Factor Rating 0 (worse) to 10 (best)	5	7	6.1	2022
Environmental Health	Drinking Water Violations - Yes or No indicator presence	N/A	Yes	Yes	2022
Global Health	Rate of non-fatal injuries caused by environment heat per 10,000	0.3	N/A	N/A	2015
Health Care	Ratio of Population to Primary Care Physicians	1,430:1	2,190:1	800:1	2022
Health Care	Ratio of Population to Mental Health Providers	310:1	420:1	130:1	2022
Health Insurance	% Population under 65 without health insurance	10.00%	9.00%	10.00%	2022
Health Insurance	% Population under 19 without health insurance	4.00%	4.00%	3.00%	2022
Health IT	% Households with broadband internet connection	79.00%	70.00%	73.00%	2022
Health Policy	Rank amongst all States on Cigarette Tax	37	N/A	N/A	2022
Hospital and Emergency Services	Rate of hsp. stays for ambulatory-care per 100,00 Medicare Enrollees	4,947	5,981	5,600	2022
Housing and Homes	% Households with at least 1 of 4 housing problems	16.00%	14.00%	18.00%	2022
Public Health Infrastructure	Number of Health Units	114	1	4	2022
Schools	% 9th grade cohort that graduates in four yrs	81.00%	88.00%	76.00%	2022
Transportation	% Workers who commute in there are alone for more than 30 minutes	34.00%	23.00%	18.00%	2022
Transportation	% Motor Vehicle Crashes that result in Death	17.00%	12.00%	16.00%	2022

Social Determinants of Health					
Metric	**Details**	**Louisiana**	**Bossier**	**Caddo**	**Year**
Economic Stability	% Households that spend 50% income on housing	14.00%	14.00%	18.00%	2022

Education Access and Quality	% Adults with a High School Diploma or Equivalent	86.00%	90.00%	87.00%	2022
Health Care Access and Quality	% Children 0-17 who had at least one preventative care visit	80.50%	N/A	N/A	2019-2020
Neighborhood and Built Environment	Rate of Violent Crime per 100,000	639.4	N/A	N/A	2020

Summary of Health Objectives (continued)

Mental Distress	% Adults reporting 14 or more days poor mental health	19.00%	17.00%	18.00%	2022
Oral Health - Dentist	Ratio of Pop. To Dentist	1,760:1	1,740:1	1,230:1	2022
Oral Health - Oral Cavity & Pharynx Cancer	Age-Adjusted Annual Incidence Rate (Cases per 100,000)	13.2	14.3	14.5	2014-2018
Osteoporosis	Fracture rate per 10,000 beneficiaries	395.7	N/A	N/A	2016
Overweight and Obesity	% Adults (age 20 and older) that reports a body mass index (BMI) greater than or equal to 30 kg/m^2	36.00%	36.00%	40.00%	2022
Poor Mental Health Days	Avg. Mentally Unhealthy Days	5.6	5.2	5.5	2022
Respiratory Disease - air pollution	Avg. Daily Density of fine particulate matter	9.4	10.5	10.7	2022
Sensory or Communication Disorders	% of Children 3-17 who have speech or language disorder	7.40%	N/A	N/A	2019-2020
Sexual and Reproductive Health - Low Birthweight	% Live Births with low birthweight	11.00%	11.00%	14.00%	2022
Sexual and Reproductive Health - Sexually Transmitted Infections	Number of newly diagnosed chlamydia per 100,000	777.2	633.7	1,139.90	2022
Total Cardiovascular Disease Death	Death Rate per 100,000 (35+, All Races)	520.7	501	470	2017-2019
Health Behaviors					
Metric	**Details**	**Louisiana**	**Bossier**	**Caddo**	**Year**
Drug and Alcohol Use	% Adults reporting binge or heavy drinking	22.00%	21.00%	17.00%	2022
Emergency Preparedness	Count of Trauma Centers	10	2	0	2022
Family Planning	Number of births per 1,000 female pop. Ages 15-19	30	26	37	2022
Health Communication	% Children ages 12-17 that had a medical visit past 12-months were able to speak to doctor privately	36.70%	N/A	N/A	2019-2020
Injury Prevention	Number of deaths due to injury per 100,000 population	96	64	88	2022
Nutrition and Healthy Eating	% Population who are low-income and far from grocery store	11.00%	11.00%	16.00%	2022
Nutrition and Healthy Eating	% Population who lack adequate access to food	16.00%	14.00%	16.00%	2022
Physical Activity	% Population with adequate access to locations for physical activity	72.00%	76.00%	80.00%	2022
Preventive Care	% Female Medicare Enrollees ages 65-74 with annual mammography	43.00%	45.00%	44.00%	2022
Sleep	% Adults who report fewer than 7 hrs. of sleep	38.00%	39.00%	41.00%	2022
Tobacco Use	% Adults who are current smokers	23.00%	22.00%	23.00%	2022
Vaccination	% FFS Medicare Enrollees that had annual flu vaccination	44.00%	47.00%	44.00%	2022
Violence Prevention	Number of reported violent crime offenses per 100,00 population	541.00%	480	688	2022

Summary of Health Objectives (continued)

Populations					
Metric	Details	Louisiana	Bossier	Caddo	Year
Children	Number of deaths among children under age 18 per 100,000	70	60	90	2022
Children	Number of deaths due to injury per 100,000	0.24	0.25	0.26	2022
Infants	Number of all infant deaths per 1,000 live births	8	8	11	2022
LGBT	Population density of same-sex couples per 1,000	4.68	3.26	4.83	2019
Men	% Population that is male	48.70%	49.40%	47.30%	2022
Parents or Caregivers	% Children that live in a household headed by single parent	35.00%	31.00%	46.00%	2022
People with Disabilities	% Children have autism or ASD	3.90%	N/A	N/A	2022
Women	% Population that is female	51.30%	50.60%	52.70%	2022
Workforce	% Population ages 16 and older unemployed but seeking work	8.30%	6.40%	9.00%	2022
Settings and Systems					
Metric	Details	Louisiana	Bossier	Caddo	Year
Community	Food Environment - Index Factor Rating 0 (worse) to 10 (best)	5	7	6.1	2022
Environmental Health	Drinking Water Violations - Yes or No indicator presence	N/A	Yes	Yes	2022
Global Health	Rate of non-fatal injuries cased by environment heat per 10,000	0.3	N/A	N/A	2015
Health Care	Ratio of Population to Primary Care Physicians	1,430:1	2,190:1	800:1	2022
Health Care	Ratio of Population to Mental Health Providers	310:1	420:1	130:1	2022
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Summary of Health Objectives (continued)

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Health Care Access and Quality	% Children 0-17 who had at least one preventative care visit	80.50%	N/A	N/A	2019-2020
Neighborhood and Built Environment	Rate of Violent Crime per 100,000	639.4	N/A	N/A	2020
Social and Community Context	% Children 0-17 who experienced incarcerated Parent/Guardian	11.60%	N/A	N/A	2019-2020

Outperforms Louisiana Performance	
Meets Louisiana Performance	
Underperforms Louisiana Performance	

Parish Ranking

In addition to reviewing the data in Bossier and Caddo Parish, overall parish rankings were also utilized. The Parish Health Rankings and Roadmaps program is a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population health Institute. Measures for this are based on vital statistics, sexually transmitted infections, and Behavioral Risk Factor Surveillance System survey data and other units of the Centers for Disease Control and Prevention. Measures of health quality were calculated by staff at Dartmouth Institute. This allows us to understand how each parish is performing against another.

Health Outcomes: In LA, there are 64 parishes. For this ranking, 1 is the healthiest parish. The overall parish rankings in health outcomes are based on two types of measures: how long people live and how healthy people feel while alive.
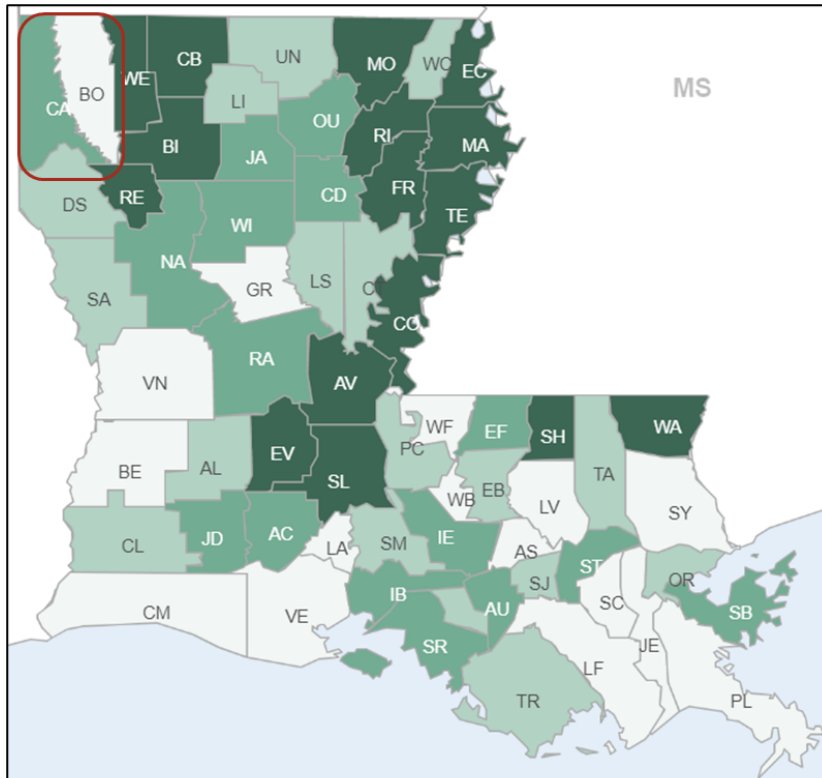
Bossier Parish improved their ranking by one spot from 2019 to 2022 for health outcomes

	Health Outcomes 2022	Health Outcomes 2019
Bossier Parish – LA	#6	#7
Caddo Parish - LA	#48	#45

The overall rankings in health outcomes represent how healthy counties are within the state. The healthiest county in the state is ranked #1. The ranks are based on two types of measures: **how long people live and how healthy people feel while alive.**

2022 and 2019 County Health Rankings;

RANK   1 - 16   17 - 32   33 - 48   49 - 64   NOT RANKED (NR)

Health Factors: The overall ranking in health factors represents what influences the health of a parish. They are estimates of the future health of the parishes as compared to other parishes. The ranks are based on four types of measures: health behaviors, clinical care, social and economic, and physical environment factors.
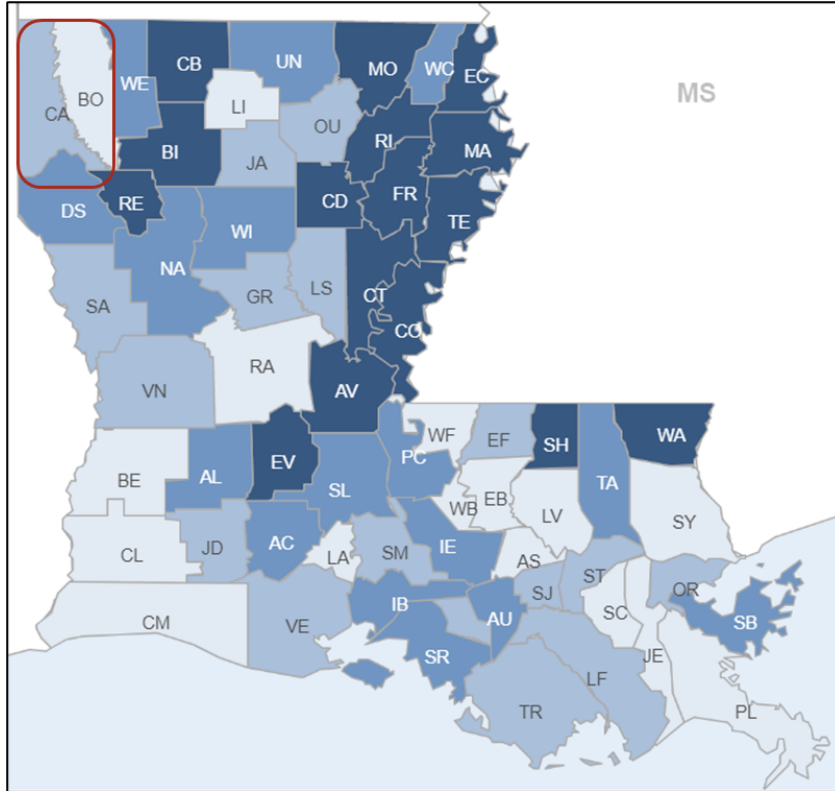
> Bossier and Caddo Parishes improved their rank in health factors from 2019 to 2022.

	Health Factors 2022	Health Factors 2019
Bossier Parish – LA	#6	#7
Caddo Parish - LA	#22	#34

The overall rankings in health factors represent what influences the health of a county. They are an estimate of the future health of counties as compared to other counties within a state. The ranks are based on four types of measures: **health behaviors, clinical care, social and economic, and physical environment factors.**

2022 and 2019 County Health Rankings

RANK 1 - 16 17 - 32 33 - 48 49 - 64 NOT RANKED (NR)

Below is a table that represents more details of the metrics that make up health outcomes and health factors scores:

Bossier
(1=Best, 64=Worst)

	2022	2019
Health Outcomes	6	7
Length of Life	5	8
Premature Death		
Quality of Life	14	12
Poor or Fair Health, Poor Physical Health Days, Poor Mental Health Days, Low Birthweight		

	2022	2019
Health Factors	6	7
Health Behaviors	5	7
Tobacco Use, Diet and Exercise, Alcohol and Drug Abuse, Sexual Activity		
Clinical Care	17	11
Access to Care, Quality of Care		
Social and Economic Environment	5	5
Education, Employment, Income, Family and Social Support, Community Safety		
Physical Environment	55	63
Air and Water Quality, Housing and Transit		

Caddo
(1=Best, 64=Worst)

	2022	2019
Health Outcomes	48	45
Length of Life	50	43
Premature Death		
Quality of Life	48	47
Poor or Fair Health, Poor Physical Health Days, Poor Mental Health Days, Low Birthweight		

	2022	2019
Health Factors	22	34
Health Behaviors	27	38
Tobacco Use, Diet and Exercise, Alcohol and Drug Abuse, Sexual Activity		
Clinical Care	7	6
Access to Care, Quality of Care		
Social and Economic Environment	30	44
Education, Employment, Income, Family and Social Support, Community Safety		
Physical Environment	63	64
Air and Water Quality, Housing and Transit		

Community Input Findings

The last and most important element of the Community Needs Assessment is community input. The Community Needs Assessment Team entered into dialogue with key hospital administrators, physicians, key community members, those with knowledge/expertise in public health, and those serving underserved and chronic disease populations. During this phase, the team conducted focus groups and surveys to gain this knowledge.

There were 23 interview and survey respondents which consisted of the following.

- Health Organizations
- Physicians
- Providers
- Community Leaders
- Community Organizations
- Local Government

Each person participating ranked the current health of the community on a scale of 1 to 10, 10 being the best. The score after averaging the 23 respondents' feedback was 4.46.

Respondents were asked what they viewed as the top health issues facing the service area parishes and its residents. They were then asked to elaborate on certain barriers, gaps, and access to care issues.

Based on the feedback provided in the Community Input phase of the CHNA, the following barriers and opportunities were identified when evaluating the health of Bossier and Caddo parishes.

Barriers

- Access to Affordable Healthcare
- Access to PCP
- Education on Healthy Habits
- Healthcare Literacy
    - o Right site of care utilization
    - o Chronic Condition Management
    - o Non-Compliance

Opportunity

- Weight Management/ Obesity
- Community Safety
- Drug/ Substance Abuse
- Mental Health Services
- Provider Alignment

Once the issues/community needs were identified and organized, a prioritization session was held with members of the Community Health Needs Assessment Steering Committee. This session resulted in the development of a Prioritization Table. The priorities were ranked based on significance of the community need and WKHS's ability to impact the need. This process identified priority health issues for both Bossier and Caddo parishes that WKHS feels it has an ability to impact at certain levels.

Prioritized 2022 Community Health Needs

Community Needs Selected
1   Preventative Care
2   Health Communication
3   Health Care Access
4   Health Issues of Adults and 65+
5   Mental Health and Mental Disorders

From this prioritization table, the Willis-Knighton team identified community needs that would be the basis for the development of the implementation strategy. Based on the secondary quantitative data, community input, the needs evaluation process, and the prioritization of these needs, the following community needs have been selected for implementation.

- **Clinical Preventive Services** – WKHS has identified a need to increase the access to new and existing preventive services to help their patients with improved access to preventive care, early detection and management of chronic diseases, and improve healthy lifestyle awareness. Some of the action steps outlined build upon previous screening initiatives included in the 2019 CHNA Implementation strategy.
- **Health Communication** – Improved communication for issues such as health education/ literacy, financial burden, and insurance were all identified as areas to expand upon.
- **Access to Health Services** – Access to health services was identified as a community health need in the data assessment as well and the community input phase of the CHNA report. Elements of the previous 2019 CHNA address the community need to increase access to health services.
- **Healthcare Issues of Adults and 65+** – There was a significant response to the health issues of older adults in the community. The issues that will be addressed include Chronic Disease

Management, Weight Management/ Obesity, and Mental Health/ Depression. A couple of these concerns were also identified on a community wide scale, but need to be addressed specifically for the elderly community.

- **Mental Health and Mental Disorders** – The number of mentally healthy days in the data assessment has increased for the community since 2019. This has motivated WKHS to select Mental Health as a key topic of the 2022 CHNA Priorities and develop an implementation strategy that would improve the health of their community in this area.

Willis-Knighton Health System's Community Needs Assessment Steering Committee will initiate the development of implementation strategies for each health priority identified above. This implementation strategy will be executed in collaboration with community partners and health issue experts over the next three years. The following key elements will be used in developing their implementation strategy:

- Identify what other local organization are doing to address the health priority
- Develop support and participation for these approaches to address the health need
- Develop specific and measurable goals so that the effectiveness of these approaches can be measured
- Develop detailed work plans
- Communicate with the assessment team and ensure appropriate coordination with other efforts currently underway to address the issue

The team will utilize and build upon the monitoring method developed in the conclusion of the prior CHNA to provide status updates and outcome notifications of these efforts to improve community health. WKHS is committed to conducting another health needs assessment in three years.

In addition, WKHS continues to play a leading role in addressing the health needs of their community with a special eye for the underinsured / underserved populations. As such, WKHS ensures that community benefit planning is an integral part of their WKHS's annual planning and budgeting processes to continue effectively meeting and supporting community needs.

Appendix A – Data Sources

2003-2005	2006-2007	2008	2009	2010	2011	2012	2016	2017	2018-2019	2020	2030
Peer County Rankings	National Center for Education Statistics	Health Indicators Warehouse	Behavioral Risk Factors	Health Indicators Warehouse	Health Indicators Warehouse	Nielsen Demographics	Health Indicators Warehouse	Nielsen Demographics	County Health Rankings	Healthy People 2020	Healthy People 2030
	Medicare Claims/ Dartmouth Atlas	National Center for Health Statistics (NCHS)	Health Indicators Warehouse				County Health Rankings 2016		CDC.gov		
	USDA Food Environmental Atlas		CHSI	County Health Rankings	County Health Rankings	US Census Bureau	CMS.gov	US Census Bureau	CMS.gov		
	CDC- Environmental Protection Agency (EPA)	Health Resources & Services Administration (HRSA)	Small Area Health Insurance Estimates (SAHIE)				CDC.gov		Nielsen Demographics		