

# APPENDIX B

## DATA SOURCES

### THEME 1: ECONOMIC OPPORTUNITY



#### Topic 1: Business Development

**Indicator 1. Business Ownership by Gender:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 2. Business Ownership by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Public Use Microdata Sample (PUMS)

**Indicator 3. Payday Loans & Banks by Geography:** Data Axle (formerly ReferenceUSA), U.S. Historical Businesses Database, 2017, 2018, 2019, 2020, 2021, & 2022

#### Topic 2: Employment

**Indicator 4. Unemployment by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 5. Commute time by Geography:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 5-Year Estimates

**Indicator 6. High Wage Occupations by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

#### Topic 3: Income

**Indicator 7. Living wage by geography:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 5-Year Estimates

**Indicator 8. Median household income by race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 9. Poverty by educational attainment:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

### THEME 2: EDUCATION



#### Topic 1: Impediments to Learning

**Indicator 10. Suspensions by race:** Tulsa Public Schools unpublished data, School Years 2017, 2018, 2019, 2020, 2021, & 2022

**Indicator 11. Chronic absenteeism by race:** Tulsa Public Schools unpublished data, School Years 2017 & 2020; Oklahoma State Department of Education, Oklahoma School Report Cards, School Years 2018, 2019, 2022, & 2023

**Indicator 12. Dropping Out by Income:** Tulsa Public Schools unpublished data, School Years 2016, 2017, 2018, 2019, 2020, & 2022

#### Topic 2: Quality and Opportunity

**Indicator 13. Emergency Teacher Certification by Geography:** Oklahoma State Department of Education, Emergency Certifications webpage, School Years 2017, 2018, & 2021; Oklahoma State Department of Education, Unpublished State Board of Education meeting report, School Year 2024

**Indicator 14. Postsecondary Opportunities Participation by English Proficiency:** Oklahoma State Department of Education, Oklahoma School Report Cards, School Years 2018, 2019, 2022, & 2023

**Indicator 15. School A-F Report Card Score by Income:** Oklahoma State Department of Education, Oklahoma School Report Cards, School Years 2018, 2019, 2022, & 2023; Oklahoma State Department of Education, Low Income Report, School Years 2018, 2019, 2022, & 2023

#### Topic 3: Student Achievement

**Indicator 16. Third Grade Reading Proficiency by Income:** Tulsa Public Schools unpublished data, School Years 2017, 2018, 2019, 2021, 2022, & 2023

**Indicator 17. Graduation by English Proficiency:** Oklahoma State Department of Education, Oklahoma School Report Cards, School Years 2017, 2018, 2019, 2021, & 2022

**Indicator 18. College Completion by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

## THEME 3: HOUSING



### Topic 1: Homeownership

**Indicator 19. Homeownership by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 20. Home Purchase Loan Denial by Race:** Federal Financial Institutions Examination Council, Home Mortgage Disclosure Act Database, Conventional Purchases by Race, 2016, 2017, 2018, 2019, 2020, & 2022

**Indicator 21. Housing Cost Burden by Income:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

### Topic 2: Homelessness

**Indicator 22. Youth Homelessness by Race:** Homeless Management Information System, Annual Homeless Assessment Report to Congress, for annual time periods beginning October 1, 2016 to September 30, 2020; A Way Home for Tulsa Interactive Data Dashboard, for annual time periods beginning October 1, 2021 to September 30, 2023

**Indicator 23. Homelessness by Veteran Status:** Homeless Management Information System, Annual Homeless Assessment Report to Congress, for annual time periods beginning October 1, 2016 to September 30, 2020; A Way Home for Tulsa Interactive Data Dashboard, for annual time periods beginning October 1, 2021 to September 30, 2023

Assessment Report to Congress; U.S. Census Bureau, American Community Survey, 2021 1-Year Estimates

**Indicator 24. Homelessness by Disability Status:** Homeless Management Information System, Annual Homeless Assessment Report to Congress, for annual time periods beginning October 1, 2016 to September 30, 2020; A Way Home for Tulsa Interactive Data Dashboard, for annual time periods beginning October 1, 2021 to September 30, 2023; Assessment Report to Congress; U.S. Census Bureau, American Community Survey, 2021 1-Year Estimates

### Topic 3: Tenant stability

**Indicator 25. Rent Burden by Income:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 26. Evictions by Race:** The Eviction Lab, 2015 & 2016; Open Justice Oklahoma, Oklahoma Policy Institute, unpublished data for calendar years 2019, 2020, & 2023

**Indicator 27. Housing Complaints by Geography:** Tulsa Health Department unpublished data, 2017, 2018, 2019, 2020, 2021, & 2022

## THEME 4: JUSTICE



### Topic 1: Arrests

**Indicator 28. Juvenile Arrests by Race:** Oklahoma State Bureau of Investigation unpublished data, 2016, 2017, 2018, 2019, 2020, & 2022

**Indicator 29. Adult Arrests by Race:** Oklahoma State Bureau of Investigation unpublished data, 2016, 2017, 2018, 2019, 2020, & 2022

**Indicator 30. Female Arrests by Comparison to National Average:** Oklahoma State Bureau of Investigation unpublished data, 2016, 2017, 2018, 2019, 2020, & 2022; Federal Bureau of Investigation, Uniform Crime Reporting: National Incident-Based Reporting System, 2016, 2017, 2018, 2019, 2020, & 2022

### Topic 2: Law Enforcement

**Indicator 31. TPD Workforce by Race:** Tulsa Police Department, 2016, 2017, 2018, 2019, & 2022 Internal Affairs Annual Report; Tulsa Police Department unpublished data, 2020

**Indicator 32. TPD workforce by gender:** Tulsa Police Department, 2016, 2017, 2018, 2019, & 2022 Internal Affairs Annual Report; Tulsa Police Department unpublished data, 2020

**Indicator 33. Officer use of force by subject race:** Tulsa Police Department, 2016, 2017, 2018, 2019, & 2022 Internal Affairs Annual Report; Tulsa Police Department unpublished data, 2020

### Topic 3: Safety and Violence

**Indicator 34. Child Abuse and Neglect by Comparison to National Average:** Oklahoma Department of Human Services, FY 2015, 2016, 2017, 2018, 2019, & 2021 Annual Report Statistical Tables; U.S. Department of Health & Human Services, Administration for Children and Families, Administration on Children, Youth and Families, Children's Bureau, Child Maltreatment 2015, 2016, 2017, 2018, 2019, & 2021

**Indicator 35. Homicide Victimization by Race:** City of Tulsa unpublished data, 2016, 2017, 2018, 2019, 2020, & 2022

**Indicator 36. 911 Domestic Violence Calls by Geography:** City of Tulsa unpublished data, 2016, 2017, 2018, 2019, 2020, & 2022

## THEME 5: PUBLIC HEALTH



### Topic 1: Health Care Access

**Indicator 37. Health Insurance by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 38. Emergency Room Use by Geography:** Tulsa Health Department unpublished data, 2017, 2018, & 2022

**Indicator 39. Veterans Affairs Appointment Wait Time by Comparison to National Average:** U.S. Dept. of Veterans Affairs, Completed Appointment Wait Times National, Facility, and Division Level Summaries, Measured from Preferred Date for Reporting Periods Ending: October 2017, 2018, 2019, 2020, and February 2021

### Topic 2: Mortality

**Indicator 40. Infant Mortality by Race:** Oklahoma State Department of Health, Center for Health Statistics, Health Care Information, Vital Statistics 2016, 2017, 2018, 2019, 2020, & 2021

**Indicator 41. Life Expectancy by Geography:** Tulsa Health Department unpublished data, 2013-15, 2014-16, 2015-17, 2016-18, 2017-19, & 2019-21

**Indicator 42. Cardiovascular Disease Mortality By Race:** Oklahoma State Department of Health, Center for Health Statistics, Health Care Information, Vital Statistics 2016, 2017, 2018, 2019, 2020, & 2021

### Topic 3: Well-being

**Indicator 43. Food Deserts by Geography:** INCOG unpublished data, 2018, 2019, 2020, 2021, & 2023

**Indicator 44. Mentally Unhealthy Days by Income:** Oklahoma State Department of Health, Center for Health Statistics, Health Care Information, Behavioral Risk Factor Surveillance System 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, & 2021-22

**Indicator 45. Smoking by Geography:** Centers for Disease Control and Prevention, 500 Cities & Places: Local Data for Better Health, Model-based estimates for current smoking among adults aged  $\geq 18$  years, 2017, 2018, 2019, 2020, 2021, & 2023 releases; Behavioral Risk Factor Surveillance System (BRFSS), 2015, 2016, 2017, 2018, 2019, & 2021

## THEME 6: SERVICES



### Topic 1: Resources

**Indicator 46. Vacant Housing by Geography:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 5-Year Estimates

**Indicator 47. Internet Access by Race:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 48. Services For Persons With Developmental Disabilities By Geography:** Larson, S. A., et al, 2017, 2018, 2019, 2020, & 2021, In-home and residential long-term supports and services for persons with intellectual or developmental disabilities: Status and trends 2014 through 2018; Larson, S. A., et al, 2022, Long-term supports and services for persons with intellectual or developmental disabilities: Status and trends through 2019.

### Topic 2: Political Empowerment

**Indicator 49. Government Representation by Race:** City of Tulsa open data, 2017, 2018, 2019, 2021, 2022, & 2023

**Indicator 50. Voter Turnout by Geography:** Oklahoma State Election Board data request, November 2016, 2018, & 2020 elections; Oklahoma State Election Board, OK Election Data Warehouse, November 2022 general election

**Indicator 51. Neighborhood and Homeowner Associations by Geography:** City of Tulsa open data, 2017, 2018, 2019, 2021, 2022, & 2024

### Topic 3: Transportation

**Indicator 52. Bus Stop Concentration by Geography:** Metropolitan Tulsa Transit Authority unpublished data, 2018; INCOG unpublished data, 2019, 2020, 2021, 2022, & 2023

**Indicator 53. Commute Time by Mode of Transportation:** U.S. Census Bureau, 2016, 2017, 2018, 2019, 2021, & 2022 American Community Survey 1-Year Estimates

**Indicator 54. Vehicle Access by Race:** U.S. Census Bureau, 2016, 2017, 2019, 2021, & 2022 American Community Survey 1-Year Public Use Microdata Sample (PUMS)

**References:** Pierson, Emma, Camelia Simoiu, Jan Overgoor, Sam Corbett-Davies, Daniel Jenson, Amy Shoemaker, Vignesh Ramachandran, Phoebe Barghouty, Cheryl Phillips, Raci Shroff, and Sharad Goel. 2020. "A Large-scale Analysis of Racial Disparities in Police Stops across the United States." *Nature Human Behaviour*, May 4, 2020, <https://www.nature.com/articles/s41562-020-0858-1>;

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Eberhardt, Jennifer L. 2019. *Biased: Uncovering the Hidden Prejudice That Shapes What We See, Think, and Do*. New York: Viking

**Notes:** In addition to indicators using the U.S. Census Bureau's American Community Survey (ACS) as the primary data source as noted above, ACS data were used in the calculation of rates for many other indicators. For example, ACS population counts for youth by race were used to calculate rates of homelessness for indicator 22, Youth homelessness by race. ACS 1-year estimates were used when possible, but in several instances 5-year estimates were required. For indicator 53, Commute time by mode of transportation, 5-year estimates were used because of excessively high margins of error associated with the 1-year estimates. Five-year estimates were used for all indicators making regional comparisons due to unavailability of ACS 1-year estimates at the zip code level.

Ten of the 54 indicators have one or more years for which new data were not available at the time of report preparation for that particular year. In those instances, the prior year's data and scores were repeated and were used to calculate topic, theme, and city scores. Indicators with repeated year(s) of data include:

Indicator	Repeated Data by Report Year
Emergency teacher certification by geography	2020, 2022
Postsecondary opportunities participation by English proficiency	2019, 2021
School report card score by income	2019, 2021
Graduation by English proficiency	2021
Evictions by race	2022
Emergency room use by geography	2020, 2021, 2022
Veterans Affairs appointment wait time by comparison to national average	2022
Food deserts by geography	2019
Voter turnout by geography	2019, 2023
Vehicle access by race	2020