Appendix A: Secondary Data Methodology and Data Scoring Tables

Secondary Data Sources

Secondary data used for this assessment were collected and analyzed from a community indicator database developed by Conduent Healthy Communities Institute (HCI). The database, maintained by researchers and analysts at HCI, includes over 150 community indicators, spanning at least 24 topics in the areas of health, determinants of health, and quality of life.
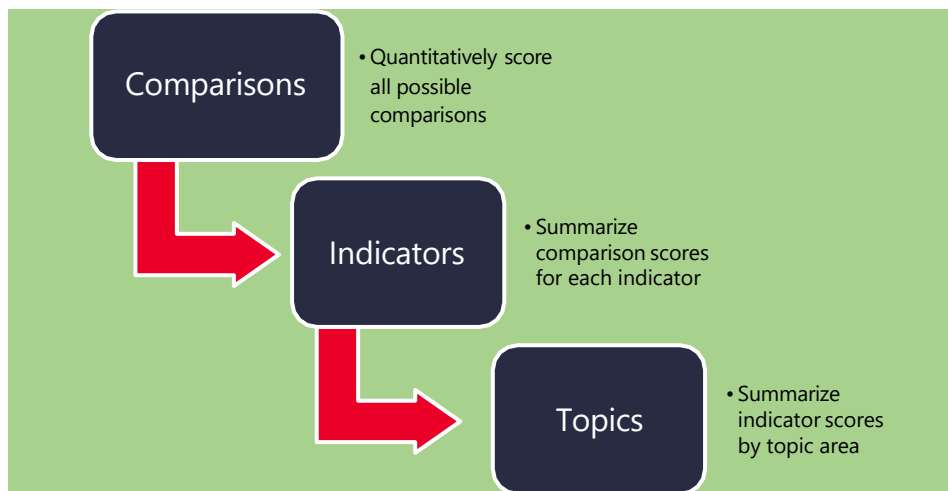
The data are primarily derived from state and national public secondary data sources. The value for each of these indicators is compared to other communities, national targets, and previous time periods. The following is a list of secondary sources used in Washtenaw County's Community Health Assessment:

1. American Community Survey 1-Year
2. American Community Survey 5-Year
3. American Lung Association
4. Annie E. Casey Foundation
5. CDC - PLACES
6. Centers for Disease Control and Prevention
7. Centers for Medicare & Medicaid Services
8. County Health Rankings
9. Feeding America
10. Healthy Communities Institute
11. Michigan Department of Health and Human Services (MDHHS) Medicaid Office
12. Michigan BRFSS (Behavioral Risk Factor Surveillance System)
13. Michigan Department of Community Health
14. Michigan Department of Health and Human Services
15. Michigan Disease Surveillance Systems (MDSS)
16. Michigan Profile for Healthy Youth
17. Michigan Substance Use Data Repository
18. National Cancer Institute
19. National Center for Education Statistics
20. National Environmental Public Health Tracking Network
21. The Dartmouth Atlas of Health Care
22. The New York Times
23. U.S. Bureau of Labor Statistics
24. U.S. Census - County Business Patterns
25. U.S. Census Bureau - Small Area Health Insurance Estimates
26. U.S. Environmental Protection Agency
27. United For ALICE
28. Washtenaw Child BMI Dataset
29. Washtenaw County Medical Examiner

Data Scoring

HCI's Data Scoring Tool systematically summarizes multiple comparisons and ranks indicators based on highest need. For each indicator, the Washtenaw County value was compared to a distribution of Michigan and U.S. counties, state and national values, Healthy People 2030 targets, and significant trends, as shown below. Each indicator was then given a score based on the available comparisons. These scores range from 0 to 3, where 0 indicates the best outcome and 3 indicates the poorest outcome. Availability of each type of comparison varies by indicator and is dependent upon the data source, comparability with data collected from other communities, and changes in methodology over time. Indicators are categorized into topic areas and each topic area receives a score. Indicators may be categorized in more than one topic area. Topic scores are determined by the comparisons of all indicators within the topic area.

Data scoring is done in three stages:

Due to the limited availability of zip code, census tract, or other sub-county health data, the data scoring technique is only available at the county level. The data scoring results are therefore presented in the context of Washtenaw County. The indicators used in the secondary data analysis for Washtenaw County can also be accessed on the Health for All website.

Comparing Washtenaw County with Other Counties

For ease of interpretation and analysis, indicator data on the Health for All Washtenaw Data Platform is visually represented as a green-yellow-red gauge showing how the community is faring against a distribution of counties in the state or the United States. A distribution is created by taking all county values within the state or nation, ordering them from low to high, and dividing them into three groups (green, yellow, red) based on their order. Indicators with the poorest comparisons ("in the red") scored high, whereas indicators with good comparisons ("in the green") scored low.

Comparing Washtenaw County with State Values, National Values, and Target Values

Each county is compared to the state value, the national value, and target values. Target values include the nation-wide Healthy People 2030 (HP2030) goals. Healthy People 2030 goals are national objectives for improving the health of the nation set by the Department of Health and Human Services' Healthy People Initiative. For all value comparisons, the scoring depends on whether the county value is better or worse than the comparison value, as well as how close the county value is to the target value.

Trend over Time

The Mann-Kendall statistical test for trend was used to assess whether the Washtenaw County value is increasing over time or decreasing over time, and whether the trend is statistically significant. The trend comparison uses the four most recent comparable values for the county, and statistical significance is determined at the 90% confidence level. For each indicator with values available for four time periods, scoring was determined by direction of the trend and statistical significance.

Missing Values

Indicator scores are calculated using the comparison scores, the availability of which depends on the data source. If a comparison type is possible for an adequate proportion of indicators on the community dashboard, it will be included in the indicator score. After exclusion of comparison types with inadequate availability, all missing comparisons are substituted with a neutral score for the purposes of calculating the indicator's weighted average.

Indicator Scoring

Indicator scores are calculated as a weighted average of all included comparison scores. If none of the included comparison types are possible for an indicator, no score is calculated, and the indicator is excluded from the data scoring results.

Topic Scoring

Topic scores are calculated by averaging indicator scores by topic area. Each indicator may be included in up to three topic areas if appropriate. Resulting scores range from 0-3, where a higher score indicates a greater level of need as evidenced by the data. A topic score is only calculated if it includes at least three indicators.

Index of Disparity

An important part of the Community Health Assessment (CHA) process is to identify health disparities, the needs of vulnerable populations and unmet health needs or gaps in services. For secondary data health indicators, the Index of Disparity tool was used to see if there were large, negative, and concerning differences in indicator values between each subgroup data value and the overall county value. The Index of Disparity was run for Washtenaw County, and the indicators with the highest race or ethnicity index value were found, with their associated subgroup with the negative disparity highlighted in the Disparity Dashboard.

Health Equity Index

Conduent HCI's Health Equity Index considers validated indicators related to income, employment, education, and household environment to identify areas at highest risk for experiencing health inequities.

How is the index value calculated?

The national index value (from 0 to 100) is calculated for each zip code, census tract, and county in the U.S. Communities with the highest index values are estimated to have the highest socioeconomic needs correlated with preventable hospitalizations and premature death.

What do the ranks and colors mean?

Ranks and colors help to identify the relative level of need within a community or service area. The national index value for each location is compared to all other similar locations within the community area to assign a relative rank (from 1 to 5) locally. These ranks are used to color the map and chart for the Health Equity Index, with darker coloring associated with higher relative need.

Results for the Washtenaw County Health Equity Index can be found on the Health For All Washtenaw website.

Food Insecurity Index

Conduent HCI's Food Insecurity Index considers validated indicators related to income, household environment and well-being to identify areas at highest risk for experiencing food insecurity.

How is the index value calculated?

The national index value (from 0 to 100) is calculated for each zip code, census tract, and county in the U.S. Communities with the highest index values are estimated to have the highest food insecurity, which is correlated with household and community measures of food-related financial stress such as Medicaid and SNAP enrollment.

What do the ranks and colors mean?

Ranks and colors help to identify the relative level of need within a community or service area. The national index value for each location is compared to all other similar locations within the community area to assign a relative rank (from 1 to 5) locally. These ranks are used to color the map and chart for the Food Insecurity Index, with darker coloring associated with higher relative need.

Results for the Washtenaw County Food Insecurity Index can be found in the on the Health For All Washtenaw website.

Mental Health Index

Conduent HCI's Mental Health Index considers validated indicators related to access to care, physical health status, transportation, employment and household environment to identify areas at highest risk for experiencing poor mental health.

How is the index value calculated?

The national index value (from 0 to 100) is calculated for each zip code, census tract, and county in the U.S. Communities with the highest index values are estimated to have the highest socioeconomic and health needs correlated with self-reported poor mental health.

What do the ranks and colors mean?

Ranks and colors help to identify the relative level of need within a community or service area. The national index value for each location is compared to all other similar locations within the community area to assign a relative rank (from 1 to 5) locally. These ranks are used to color the map and chart for the Mental Health Index, with darker coloring associated with higher relative need.

Results for the Washtenaw County Mental Health Index can be found in the Health For All Washtenaw website.

Data Considerations

Several limitations of data should be considered when reviewing the findings presented in this report. Although the topics by which data are organized cover a wide range of health and health-related areas, available data varies by health topic. Some topics contain a robust set of secondary data indicators, while others may have a limited number of indicators or limited subpopulations covered by those specific indicators.

Data scores represent the relative community health need according to the secondary data for each topic and should not be considered a comprehensive result on their own. In addition, these scores reflect the secondary data results for the population as a whole and do not represent the health or socioeconomic need that is much greater for some subpopulations. Moreover, many of the secondary data indicators included in the findings are collected by survey, and though specific methods are used to best represent the population at large, these measures are subject to instability, especially for smaller populations. The Index of Disparity is also limited by data availability, where indicator data varies based on the population groups and service areas being analyzed.

Race or Ethnic and Special Population Groupings

The secondary data presented in this report derive from multiple sources, which may present race and ethnicity data using dissimilar nomenclature. For consistency with data sources throughout the report, subpopulation data may use different terms to describe the same or similar groups of community members.

Washtenaw County Secondary Data Scoring Results

The following tables list each indicator by topic area for Washtenaw County as of February 2023.

SCORE	ADOLESCENT HEALTH	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.92	Teens who Ate Five or More Servings of Fruits and Vegetables: 9th, 11th Graders	percent	23.1	--	--	--	2022	16
1.64	Teens who are Obese: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
1.36	Teens who Binge Drink: 9th, 11th Graders	percent	6.0	--	--	--	2022	16
1.36	Teens who Engage in Regular Physical Activity: 9th, 11th Graders	percent	63.4	--	--	--	2022	16
1.36	Teens who Smoke: 9th, 11th Graders	percent	1.0	--	--	--	2022	16
1.36	Teens who Use Marijuana: 9th, 11th Graders	percent	7.8	--	--	--	2022	16
1.36	Teens who Used E-cigarettes: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
1.36	Teens with Asthma	percent	20.6	--	--	--	2022	16
1.08	Teens who Drank Soda or Pop in the Last Week: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
0.86	Teen Birth Rate: 15-19	live births/ 1,000 females aged 15-19	3.6	--	12.2	13.9	2021	14
0.78	Teen Pregnancy Rate	pregnancies/ 1,000 females aged 15-19	7.8	31.4	21.9	--	2021	14

SCORE	ALCOHOL & DRUG USE	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.14	Alcohol-Impaired Driving Deaths	percent of driving deaths with alcohol involvement	30.6	--	29.2	27.0	2016-2020	8
1.53	Liquor Store Density	stores/ 100,000 population	14.3	--	16.0	10.5	2020	24
1.36	Annual Opioid Hospitalizations	hospitalizations	24	--	--	--	2019	17
1.36	Teens who Binge Drink: 9th, 11th Graders	percent	6.0	--	--	--	2022	16
1.36	Teens who had at least One Alcoholic Drink in the Last Month: 9th, 11th Graders	percent	10.8	--	--	--	2022	16

Score		Units	Washtenaw County	HP2030	MI	U.S.	Measurement Period	Source
1.36	Teens who Use Marijuana: 9th, 11th Graders	percent	7.8	--	--	--	2022	16
1.28	Adults who Binge Drink	percent	16.6	--	17.2	--	2019-2021	12
1.25	Health Behaviors Ranking		2	--	--	--	2022	8
1.19	Death Rate due to Opioid-Related Drug Poisoning	deaths/ 100,000 population	16.1	--	21.8	--	2020	17
1.19	Mothers who Smoked During Pregnancy	percent	5.4	4.3	10.6	4.6	2021	14
1.14	Death Rate due to Drug Poisoning	deaths/ 100,000 population	20.2	--	25.8	23.0	2018-2020	8
1.00	Age-Adjusted Drug and Opioid-Involved Overdose Death Rate	Deaths per 100,000 population	21.2	--	26.5	23.5	2018-2020	6

SCORE	CANCER	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.92	Prostate Cancer Incidence Rate	cases/ 100,000 males	127.7	--	110.6	109.9	2015-2019	18
2.33	Age-Adjusted Death Rate due to Breast Cancer	deaths/ 100,000 females	21.5	15.3	20.2	19.6	2016-2020	18
2.31	Cancer: Medicare Population	percent	12.0	--	11.0	11.0	2021	7
2.14	Breast Cancer Incidence Rate	cases/ 100,000 females	132.9	--	124.2	128.1	2015-2019	18
1.89	Pap Test in Past 3 Years	percent	63.0	--	79.2	--	2018-2020	12
1.78	Cervical Cancer Screening: 21-65	Percent	81.3	84.3	--	82.8	2020	5
1.72	Colon Cancer Screening	percent	72.9	--	75.6	--	2018-2020	12
1.31	All Cancer Incidence Rate	cases/ 100,000 population	434.8	--	446.7	449.4	2015-2019	18
1.14	Oral Cavity and Pharynx Cancer Incidence Rate	cases/ 100,000 population	11.5	--	11.9	12.0	2015-2019	18
1.11	Mammogram in Past 2 Years: 50-74	percent	73.8	80.5	--	78.2	2020	5
1.06	Age-Adjusted Death Rate due to Prostate Cancer	deaths/ 100,000 males	18.3	16.9	18.6	18.8	2016-2020	18
1.03	Mammography Screening: Medicare Population	percent	47.0	--	47.0	45.0	2021	7
0.92	Adults with Cancer	percent	5.9	--	--	6.5	2020	5
0.92	Colon Cancer Screening: USPSTF Recommendation	percent	78.9	--	--	72.4	2020	5
0.72	Age-Adjusted Death Rate due to Colorectal Cancer	deaths/ 100,000 population	11.5	8.9	13.4	13.1	2016-2020	18
0.61	Age-Adjusted Death Rate due to Cancer	deaths/ 100,000 population	139.9	122.7	160.6	149.4	2016-2020	18

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
0.44	Age-Adjusted Death Rate due to Lung Cancer	deaths/ 100,000 population	29.8	25.1	40.6	35.0	2016-2020	18
0.36	Colorectal Cancer Incidence Rate	cases/ 100,000 population	29.7	--	36.9	37.7	2015-2019	18
0.36	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	45.8	--	61.6	56.3	2015-2019	18
SCORE	**CHILDREN'S HEALTH**	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.75	Immunization Status of 19 to 35-Month-Old Children	percent	70.8	--	66.1	--	2022	4
1.47	Children with Health Insurance	percent	97.3	--	97.0	94.6	2021	1
1.28	Children Who Are Obese	% of children ages 2-17 yrs	11.8	15.5	--	--	2017	28
0.92	Child Care Centers	per 1,000 population under age 5	10.5	--	8.6	6.0	2021	8
0.78	Substantiated Child Abuse Rate	cases/ 1,000 children	7.5	8.7	12.1	--	2021	4
0.50	Child Food Insecurity Rate	percent	8.8	--	13.7	16.1	2020	9
SCORE	**Community**	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.67	Median Monthly Owner Costs for Households without a Mortgage	dollars	757	--	520	538	2017-2021	2
2.67	Mortgaged Owners Median Monthly Household Costs	dollars	1880	--	1374	1697	2017-2021	2
2.50	Median Household Gross Rent	dollars	1161	--	892	1096	2016-2020	2
2.31	Total Employment Change	percent	-1.6	--	0.5	0.9	2019-2020	24
2.14	Alcohol-Impaired Driving Deaths	percent of driving deaths with alcohol involvement	30.6	--	29.2	27.0	2016-2020	8
1.92	Teens whose Teachers Acknowledge when They do a Good Job: 9th, 11th Graders	percent	51.8	--	--	--	2022	16
1.86	Households without a Vehicle	percent	8.0	--	7.5	8.5	2016-2020	2
1.64	Deaths due to Transport Fatal Injuries	deaths	33	--	--	--	2021	14
1.64	People 65+ Living Alone (Count)	people	14144	--	--	--	2017-2021	2
1.64	Solo Drivers with a Long Commute	percent	33.6	--	33.6	37.0	2016-2020	8
1.64	Teens who Have an Adult They Trust in Their Neighborhood: 9th, 11th Graders	percent	51.4	--	--	--	2022	16

1.64	Teens whose Parents Acknowledge when They do a Good Job: 9th, 11th Graders	*percent*	61.3	--	--	--	*2022*	16
1.47	Mean Travel Time to Work	*minutes*	24.0	--	24.6	26.9	*2016-2020*	2
1.36	People 65+ Living Alone	*percent*	26.9	--	28.3	26.3	*2017-2021*	2
1.33	People Living Below Poverty Level	*percent*	13.4	8.0	13.3	12.6	*2017-2021*	2
1.25	Social and Economic Factors Ranking		3	--	--	--	*2022*	8
1.19	Social Associations	*membership associations/ 10,000 population*	10.3	--	9.7	9.2	*2019*	8
1.17	Workers Commuting by Public Transportation	*percent*	4.2	5.3	1.2	4.2	*2017-2021*	2
1.08	Homeownership	*percent*	57.9	--	61.9	56.9	*2016-2020*	2
1.06	Age-Adjusted Death Rate due to Homicide	*deaths/ 100,000 population*	3.2	5.5	7.2	6.6	*2018-2020*	6
0.97	Population 16+ in Civilian Labor Force	*percent*	61.3	--	57.7	59.6	*2017-2021*	2
0.94	Violent Crime Rate	*crimes/ 100,000 population*	303.1	--	443.2	386.5	*2014-2016*	8
0.89	Persons with Health Insurance	*percent*	94.9	92.4	93.6	--	*2020*	25
0.78	Substantiated Child Abuse Rate	*cases/ 1,000 children*	7.5	8.7	12.1	--	*2021*	4
0.69	Female Population 16+ in Civilian Labor Force	*percent*	61.0	--	57.4	58.7	*2017-2021*	2
0.69	People 25+ with a High School Diploma or Higher	*percent*	95.7	--	91.6	88.9	*2017-2021*	2
0.58	Single-Parent Households	*percent*	20.8	--	25.2	25.1	*2017-2021*	2
0.53	Age-Adjusted Death Rate due to Firearms	*deaths/ 100,000 population*	6.5	10.7	13.0	12.0	*2018-2020*	6
0.53	Workers who Drive Alone to Work	*percent*	66.1	--	78.8	73.2	*2017-2021*	2
0.53	Youth not in School or Working	*percent*	1.0	--	2.2	1.8	*2016-2020*	2
0.42	Households with an Internet Subscription	*percent*	92.3	--	86.7	87.2	*2017-2021*	2
0.42	Households with One or More Types of Computing Devices	*percent*	96.7	--	92.4	93.1	*2017-2021*	2
0.42	Persons with an Internet Subscription	*percent*	94.2	--	89.7	89.9	*2017-2021*	2
0.36	Children Living Below Poverty Level	*percent*	11.1	--	18.2	17.0	*2017-2021*	2
0.33	Median Housing Unit Value	*dollars*	293800	--	172100	244900	*2017-2021*	2
0.08	Median Household Income	*dollars*	75730	--	59234	64994	*2016-2020*	2
0.08	People 25+ with a Bachelor's Degree or Higher	*percent*	57.2	--	30.6	33.7	*2017-2021*	2
0.08	Per Capita Income	*dollars*	45500	--	34768	37638	*2017-2021*	2

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
0.08	Young Children Living Below Poverty Level	percent	13.1	--	21.9	19.1	2016-2020	2
SCORE	DIABETES	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.58	Diabetic Monitoring: Medicare Population	percent	85.2	--	88.1	87.5	2019	21
1.39	Adults with Diabetes	percent	8.7	--	11.4	--	2019-2021	12
0.86	Age-Adjusted Death Rate due to Diabetes	deaths/ 100,000 population	11.5	--	24.9	--	2019-2021	14
0.36	Diabetes: Medicare Population	percent	20.0	--	25.0	24.0	2021	7
SCORE	ECONOMY	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.67	Median Monthly Owner Costs for Households without a Mortgage	dollars	757	--	520	538	2017-2021	2
2.67	Mortgaged Owners Median Monthly Household Costs	dollars	1880	--	1374	1697	2017-2021	2
2.50	Median Household Gross Rent	dollars	1161	--	892	1096	2016-2020	2
2.39	Renters Spending 30% or More of Household Income on Rent	percent	52.1	25.5	48.5	49.4	2017-2021	2
2.31	Total Employment Change	percent	-1.6	--	0.5	0.9	2019-2020	24
2.17	Income Inequality		0.5	--	0.5	0.5	2017-2021	2
2.03	Severe Housing Problems	percent	16.5	--	14.2	17.0	2014-2018	8
1.64	Size of Labor Force	persons	195646	--	--	--	44835	23
1.33	Households that are Below the Federal Poverty Level	percent	12.0	--	13.0	--	2019	27
1.33	People Living Below Poverty Level	percent	13.4	8.0	13.3	12.6	2017-2021	2
1.25	Social and Economic Factors Ranking		3	--	--	--	2022	8
1.08	Homeownership	percent	57.9	--	61.9	56.9	2016-2020	2
1.03	Overcrowded Households	percent	1.2	--	1.6	--	2016-2020	2
1.00	Households that are Above the Asset Limited, Income Constrained, Employed (ALICE) Threshold	percent	69.2	--	62.0	--	2019	27
0.97	Population 16+ in Civilian Labor Force	percent	61.3	--	57.7	59.6	2017-2021	2
0.94	Mortgaged Owners Spending 30% or More of Household Income on Housing	percent	22.3	25.5	23.1	27.4	2021	1
0.86	Households that are Asset Limited, Income Constrained, Employed (ALICE)	percent	18.8	--	25.0	--	2019	27

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
0.86	Persons with Disability Living in Poverty (5-year)	percent	24.2	--	27.2	24.9	2017-2021	2
0.86	Unemployed Workers in Civilian Labor Force	percent	3.3	--	3.7	3.4	October 2022	23
0.83	Food Insecurity Rate	percent	10.4	--	11.5	11.8	2020	9
0.81	Households with Cash Public Assistance Income	percent	1.9	--	2.7	2.6	2017-2021	2
0.69	Female Population 16+ in Civilian Labor Force	percent	61.0	--	57.4	58.7	2017-2021	2
0.69	Homeowner Vacancy Rate	percent	1.1	--	1.3	1.4	2016-2020	2
0.64	Students Eligible for the Free Lunch Program	percent	30.3	--	46.1	38.5	2020-2021	19
0.53	Youth not in School or Working	percent	1.0	--	2.2	1.8	2016-2020	2
0.50	Child Food Insecurity Rate	percent	8.8	--	13.7	16.1	2020	9
0.42	People Living 200% Above Poverty Level	percent	74.8	--	70.1	70.8	2017-2021	2
0.36	Children Living Below Poverty Level	percent	11.1	--	18.2	17.0	2017-2021	2
0.36	Families Living Below Poverty Level	percent	6.3	--	8.9	8.9	2017-2021	2
0.36	People 65+ Living Below Poverty Level	percent	5.8	--	8.7	9.6	2017-2021	2
0.33	Median Housing Unit Value	dollars	293800	--	172100	244900	2017-2021	2
0.08	Median Household Income	dollars	75730	--	59234	64994	2016-2020	2
0.08	Per Capita Income	dollars	45500	--	34768	37638	2017-2021	2
0.08	Young Children Living Below Poverty Level	percent	13.1	--	21.9	19.1	2016-2020	2
SCORE	EDUCATION	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.19	High School Graduation	percent	86.6	90.7	80.5	--	2021	4
1.03	Student-to-Teacher Ratio	students/ teacher	15.4	--	17.0	16.3	2020-2021	19
0.92	Child Care Centers	per 1,000 population under age 5	10.5	--	8.6	6.0	2021	8
0.69	People 25+ with a High School Diploma or Higher	percent	95.7	--	91.6	88.9	2017-2021	2
0.08	People 25+ with a Bachelor's Degree or Higher	percent	57.2	--	30.6	33.7	2017-2021	2
SCORE	ENVIRONMENTAL HEALTH	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.14	Asthma: Medicare Population	percent	7.0	--	7.0	6.0	2021	7

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.03	Severe Housing Problems	percent	16.5	--	14.2	17.0	2014-2018	8
1.89	Annual Ozone Air Quality	grade	F	--	--	--	2018-2020	3
1.72	Adults with Current Asthma	percent	11.9	--	11.2	--	2019-2021	12
1.64	PBT Released	pounds	0.7	--	--	--	2021	26
1.64	Recognized Carcinogens Released into Air	pounds	33053	--	--	--	2021	26
1.64	Weeks of Moderate Drought or Worse	weeks per year	14	--	--	--	2021	20
1.56	Annual Particle Pollution	grade	B	--	--	--	2018-2020	3
1.53	Liquor Store Density	stores/ 100,000 population	14.3	--	16.0	10.5	2020	24
1.42	Physical Environment Ranking		36	--	--	--	2022	8
1.36	Number of Extreme Heat Days	days	19	--	--	--	2021	20
1.36	Number of Extreme Heat Events	events	15	--	--	--	2021	20
1.36	Number of Extreme Precipitation Days	days	29	--	--	--	2021	20
1.36	Teens with Asthma	percent	20.6	--	--	--	2022	16
1.08	Access to Exercise Opportunities	percent	87.1	--	77.1	80.0	2022	8
1.03	Overcrowded Households	percent	1.2	--	1.6	--	2016-2020	2
1.00	Houses Built Prior to 1950	percent	16.0	--	21.7	17.0	2017-2021	2
0.69	Food Environment Index		8.1	--	7.1	7.8	2022	8
SCORE	HEALTH CARE ACCESS & QUALITY	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.92	Children Enrolled in Medicaid who Visited the Dentist the Past Year	%	43.6	--	--	--	2020	11
1.92	Medicaid Enrollees who Visited the Dentist in the Last Year	%	24.6	--	--	--	2020	11
1.86	Preventable Hospital Stays: Medicare Population	discharges/ 100,000 Medicare enrollees	3043.0	--	3253.0	2686.0	2021	7
1.72	Adults who have had a Routine Checkup	percent	72.1	--	78.0	--	2019-2021	12
1.64	Women 18-44 Years Enrolled in Medicaid who Visited the Dentist in the Past year	%	19.0	--	--	--	2020	11
1.47	Children with Health Insurance	percent	97.3	--	97.0	94.6	2021	1
1.33	Adults with Health Insurance	percent	95.0	--	92.9	87.8	2021	1
1.25	Clinical Care Ranking		1	--	--	--	2022	8
1.00	Adults with a Usual Source of Health Care	percent	88.2	--	86.7	--	2019-2021	12

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
0.89	Persons with Health Insurance	percent	94.9	92.4	93.6	--	2020	25
0.75	Adults who Visited a Dentist	percent	72.7	--	--	64.8	2020	5
0.75	Adults without Health Insurance	percent	8.0	--	--	15.3	2020	5
0.61	Primary Care Provider Rate	providers/ 100,000 population	177	--	80	--	2019	8
0.33	Dentist Rate	dentists/ 100,000 population	190	--	77	--	2020	8
0.33	Mental Health Provider Rate	providers/ 100,000 population	616	--	301	--	2021	8
0.33	Non-Physician Primary Care Provider Rate	providers/ 100,000 population	356	--	125	--	2021	8

SCORE	HEART DISEASE & STROKE	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.08	Adults who Have Taken Medications for High Blood Pressure	percent	73.8	--	--	76.2	2019	5
1.83	Age-Adjusted Death Rate due to Cerebrovascular Disease (Stroke)	deaths/ 100,000 population	40.6	33.4	42.5	--	2019-2021	14
1.67	Age-Adjusted Hospitalization Rate due to Heart Attack	hospitalizations/ 10,000 population 35+ years	39.5	--	37.4	--	2014	20
1.58	Cholesterol Test History	percent	87.4	--	--	87.6	2019	5
1.19	Age-Adjusted Death Rate due to Heart Attack	deaths/ 100,000 population 35+ years	46.5	--	48.3	--	2020	20
1.17	High Blood Pressure Prevalence	percent	23.1	42.6	35.2	--	2019-2021	12
1.00	Age-Adjusted Death Rate due to Heart Disease	deaths/ 100,000 population	157.9	--	199.9	--	2019-2021	14
0.97	Atrial Fibrillation: Medicare Population	percent	13.0	--	14.0	14.0	2021	7
0.97	Stroke: Medicare Population	percent	5.0	--	6.0	6.0	2021	7
0.75	Adults who Experienced a Stroke	percent	2.4	--	--	3.2	2020	5
0.75	Adults who Experienced Coronary Heart Disease	percent	5.1	--	--	6.4	2020	5
0.75	High Cholesterol Prevalence: Adults 18+	percent	27.9	--	--	33.6	2019	5
0.64	Hyperlipidemia: Medicare Population	percent	50.0	--	61.0	63.0	2021	7
0.64	Hypertension: Medicare Population	percent	56.0	--	66.0	65.0	2021	7
0.36	Ischemic Heart Disease: Medicare Population	percent	16.0	--	22.0	21.0	2021	7
0.25	Heart Failure: Medicare Population	percent	10.0	--	13.0	11.0	2021	7

SCORE	IMMUNIZATIONS & INFECTIOUS DISEASES	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.92	Total COVID-19 Deaths	deaths	115	--	--	--	43983	22
1.92	Total Positive COVID-19 Cases	cases	2192	--	--	--	43983	22
1.75	Immunization Status of 19 to 35-Month-Old Children	percent	70.8	--	66.1	--	2022	4

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.56	Adults 65+ with Pneumonia Vaccination	percent	75.9	--	72.1	--	2019-2021	12
1.42	Chlamydia Incidence Rate	cases/ 100,000 population	425.7	--	448.9	481.3	2020	14
1.42	Pneumonia Vaccinations: Medicare Population	percent	6.0	--	5.0	19.0	2021	7
1.19	COVID-19 Daily Average Incidence Rate	cases per 100,000 population	7.1	--	7.1	12.1	44960	10
1.14	Gonorrhea Incidence Rate	cases/ 100,000 population	168.4	--	234.4	206.5	2020	14
1.08	Washtenaw County Pertussis Data	Number of Pertussis Cases	0	--	--	--	2021	15
1.03	Overcrowded Households	percent	1.2	--	1.6	--	2016-2020	2
0.86	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000 population	7.1	--	12.4	--	2019-2021	14
0.86	Persons Fully Vaccinated Against COVID-19	percent	73.7	--	--	--	44951	6
0.83	Adults 65+ with Influenza Vaccination	percent	76.6	--	67.5	--	2019-2021	12
0.64	Flu Vaccinations: Medicare Population	percent	57.0	--	47.0	37.0	2021	7
0.36	COVID-19 Daily Average Case-Fatality Rate	deaths per 100 cases	0.0	--	5.4	1.8	44960	10

SCORE	MATERNAL, FETAL & INFANT HEALTH	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.58	Preterm Births	percent	10.3	9.4	10.6	10.5	2021	14
1.47	Infant Mortality Rate	deaths/ 1,000 live births	5.6	5.0	6.5	--	2019-2021	14
1.36	Mothers who Were a Healthy Weight Before Pregnancy	% of women	47.5	47.1	39.5	--	2017	13
1.25	Mothers who Received Early Prenatal Care	percent	78.2	--	74.1	78.3	2021	14
1.22	Babies with Low Birthweight	percent	8.1	--	9.2	8.5	2021	14
1.19	Mothers who Smoked During Pregnancy	percent	5.4	4.3	10.6	4.6	2021	14
0.86	Teen Birth Rate: 15-19	live births/ 1,000 females aged 15-19	3.6	--	12.2	13.9	2021	14

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
0.78	Teen Pregnancy Rate	pregnancies/ 1,000 females aged 15-19	7.8	31.4	21.9	--	2021	14
SCORE	**MENTAL HEALTH & MENTAL DISORDERS**	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.25	Age-Adjusted Death Rate due to Alzheimer's Disease	deaths/ 100,000 population	38.2	--	34.4	--	2017-2021	14
2.03	Depression: Medicare Population	percent	19.0	--	18.0	16.0	2021	7
1.92	Adults Ever Diagnosed with Depression	percent	21.7	--		18.4	2020	5
1.72	Poor Mental Health: 14+ Days	percent	16.2	--	15.2	--	2019-2021	12
1.64	Teens who Felt Sad or Hopeless Every Day for the Past 2 Weeks; 9th, 11th Graders	percent	37.6	--	--	--	2022	16
1.42	Alzheimer's Disease or Dementia: Medicare Population	percent	7.0	--	7.0	6.0	2021	7
1.36	Suicide Completions	Number of completions	37	--	--	--	2020	29
1.33	Age-Adjusted Death Rate due to Suicide	deaths/ 100,000 population	11.4	12.8	14.2	--	2017-2021	14
0.33	Mental Health Provider Rate	providers/ 100,000 population	616	--	301	--	2021	8
SCORE	**NUTRITION & HEALTHY EATING**	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.92	Teens who Ate Five or More Servings of Fruits and Vegetables: 9th, 11th Graders	percent	23.1	--	--	--	2022	16
1.36	Mothers who Were a Healthy Weight Before Pregnancy	% of women	47.5	47.1	39.5	--	2017	13
1.08	Teens who Drank Soda or Pop in the Last Week: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
0.69	Food Environment Index		8.1	--	7.1	7.8	2022	8
SCORE	**OLDER ADULTS**	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.92	Prostate Cancer Incidence Rate	cases/ 100,000 males	127.7	--	110.6	109.9	2015-2019	18
2.58	Diabetic Monitoring: Medicare Population	percent	85.2	--	88.1	87.5	2019	21
2.47	Osteoporosis: Medicare Population	percent	12.0	--	10.0	11.0	2021	7
2.31	Cancer: Medicare Population	percent	12.0	--	11.0	11.0	2021	7

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.25	Age-Adjusted Death Rate due to Alzheimer's Disease	deaths/ 100,000 population	38.2	--	34.4	--	2017-2021	14
2.14	Asthma: Medicare Population	percent	7.0	--	7.0	6.0	2021	7
2.03	Depression: Medicare Population	percent	19.0	--	18.0	16.0	2021	7
1.64	People 65+ Living Alone (Count)	people	14144	--	--	--	2017-2021	2
1.56	Adults 65+ with Pneumonia Vaccination	percent	75.9	--	72.1	--	2019-2021	12
1.42	Alzheimer's Disease or Dementia: Medicare Population	percent	7.0	--	7.0	6.0	2021	7
1.36	People 65+ Living Alone	percent	26.9	--	28.3	26.3	2017-2021	2
1.03	Chronic Kidney Disease: Medicare Population	percent	17.0	--	19.0	17.0	2021	7
1.03	Mammography Screening: Medicare Population	percent	47.0	--	47.0	45.0	2021	7
0.97	Atrial Fibrillation: Medicare Population	percent	13.0	--	14.0	14.0	2021	7
0.97	Stroke: Medicare Population	percent	5.0	--	6.0	6.0	2021	7
0.83	Adults 65+ with Influenza Vaccination	percent	76.6	--	67.5	--	2019-2021	12
0.75	Adults 65+ who Received Recommended Preventive Services: Females	percent	44.3	--	--	37.9	2020	5
0.75	Adults 65+ who Received Recommended Preventive Services: Males	percent	51.7	--	--	43.7	2020	5
0.75	Adults 65+ with Total Tooth Loss	percent	6.8	--	--	13.4	2020	5
0.69	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	31.0	--	35.0	34.0	2021	7
0.64	Hyperlipidemia: Medicare Population	percent	50.0	--	61.0	63.0	2021	7
0.64	Hypertension: Medicare Population	percent	56.0	--	66.0	65.0	2021	7
0.36	COPD: Medicare Population	percent	8.0	--	14.0	11.0	2021	7
0.36	Diabetes: Medicare Population	percent	20.0	--	25.0	24.0	2021	7
0.36	Ischemic Heart Disease: Medicare Population	percent	16.0	--	22.0	21.0	2021	7
0.36	People 65+ Living Below Poverty Level	percent	5.8	--	8.7	9.6	2017-2021	2
0.25	Heart Failure: Medicare Population	percent	10.0	--	13.0	11.0	2021	7
SCORE	ORAL HEALTH	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.92	Children Enrolled in Medicaid who Visited the Dentist the Past Year	%	43.6	--	--	--	2020	11

1.92	Medicaid Enrollees who Visited the Dentist in the Last Year	%	24.6	--	--	--	2020	11
1.64	Women 18-44 Years Enrolled in Medicaid who Visited the Dentist in the Past year	%	19.0	--	--	--	2020	11
1.14	Oral Cavity and Pharynx Cancer Incidence Rate	cases/ 100,000 population	11.5	--	11.9	12.0	2015-2019	18
0.75	Adults 65+ with Total Tooth Loss	percent	6.8	--	--	13.4	2020	5
0.75	Adults who Visited a Dentist	percent	72.7	--	--	64.8	2020	5
0.33	Dentist Rate	dentists/ 100,000 population	190	--	77	--	2020	8

SCORE	OTHER CONDITIONS	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.47	Osteoporosis: Medicare Population	percent	12.0	--	10.0	11.0	2021	7
1.11	Adults with Arthritis	percent	21.7	--	30.3	--	2019-2021	12
1.03	Chronic Kidney Disease: Medicare Population	percent	17.0	--	19.0	17.0	2021	7
0.75	Adults with Kidney Disease	Percent of adults	2.5	--	--	3.0	2020	5
0.69	Rheumatoid Arthritis or Osteoarthritis: Medicare Population	percent	31.0	--	35.0	34.0	2021	7

SCORE	PHYSICAL ACTIVITY	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.36	Teens who Engage in Regular Physical Activity: 9th, 11th Graders	percent	63.4	--	--	--	2022	16
1.28	Adults who are Overweight	percent	32.2	--	34.4	--	2019-2021	12
1.25	Adults Who Are Obese	percent	27.3	--	35.2	--	2019-2021	12
1.25	Health Behaviors Ranking		2	--	--	--	2022	8
1.08	Access to Exercise Opportunities	percent	87.1	--	77.1	80.0	2022	8
0.75	Adults who are Sedentary	percent	14.6	21.8	23.1	--	2019-2021	12

SCORE	PREVENTION & SAFETY	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.03	Severe Housing Problems	percent	16.5	--	14.2	17.0	2014-2018	8
1.36	Suicide Completions	Number of completions	37	--	--	--	2020	29
1.17	Age-Adjusted Death Rate due to Unintentional Injuries	deaths/ 100,000 population	47.3	43.2	55.7	--	2019-2021	14

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.14	Death Rate due to Drug Poisoning	deaths/ 100,000 population	20.2	--	25.8	23.0	2018-2020	8
0.53	Age-Adjusted Death Rate due to Firearms	deaths/ 100,000 population	6.5	10.7	13.0	12.0	2018-2020	6
SCORE	RESPIRATORY DISEASES	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.14	Asthma: Medicare Population	percent	7.0	--	7.0	6.0	2021	7
1.89	Adults who Used to Smoke	percent	19.3	--	26.5	--	2019-2021	12
1.72	Adults with Current Asthma	percent	11.9	--	11.2	--	2019-2021	12
1.56	Adults 65+ with Pneumonia Vaccination	percent	75.9	--	72.1	--	2019-2021	12

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.36	Teens who Smoke: 9th, 11th Graders	percent	1.0	--	--	--	2022	16
1.36	Teens who Used E-cigarettes: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
1.36	Teens with Asthma	percent	20.6	--	--	--	2022	16
1.19	COVID-19 Daily Average Incidence Rate	cases per 100,000 population	7.1	--	7.1	12.1	44960	10
0.92	Adults who Smoke	percent	9.6	6.1	18.0	--	2019-2021	12
0.86	Age-Adjusted Death Rate due to Influenza and Pneumonia	deaths/ 100,000 population	7.1	--	12.4	--	2019-2021	14
0.83	Adults 65+ with Influenza Vaccination	percent	76.6	--	67.5	--	2019-2021	12
0.75	Adults with COPD	Percent of adults	5.0	--	--	6.4	2020	5
0.58	Age-Adjusted Death Rate due to Chronic Lower Respiratory Diseases	deaths/ 100,000 population	24.9	--	41.3	--	2019-2021	14
0.44	Age-Adjusted Death Rate due to Lung Cancer	deaths/ 100,000 population	29.8	25.1	40.6	35.0	2016-2020	18
0.36	COPD: Medicare Population	percent	8.0	--	14.0	11.0	2021	7
0.36	COVID-19 Daily Average Case-Fatality Rate	deaths per 100 cases	0.0	--	5.4	1.8	44960	10
0.36	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	45.8	--	61.6	56.3	2015-2019	18
SCORE	TOBACCO USE	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.89	Adults who Used to Smoke	percent	19.3	--	26.5	--	2019-2021	12
1.36	Teens who Smoke: 9th, 11th Graders	percent	1.0	--	--	--	2022	16
1.36	Teens who Used E-cigarettes: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
0.92	Adults who Smoke	percent	9.6	6.1	18.0	--	2019-2021	12

SCORE		UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
0.36	Lung and Bronchus Cancer Incidence Rate	cases/ 100,000 population	45.8	--	61.6	56.3	2015-2019	18
SCORE	WEIGHT STATUS	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.64	Teens who are Obese: 9th, 11th Graders	percent	9.4	--	--	--	2022	16
1.36	Mothers who Were a Healthy Weight Before Pregnancy	% of women	47.5	47.1	39.5	--	2017	13
1.28	Adults who are Overweight	percent	32.2	--	34.4	--	2019-2021	12
1.28	Children Who Are Obese	% of children ages 2-17 yrs	11.8	15.5	--	--	2017	28

| 1.25 | Adults Who Are Obese | percent | 27.3 | -- | 35.2 | -- | 2019-2021 | 12 |

SCORE	WELLNESS & LIFESTYLE	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
1.39	Limited Activity due to a Health Problem	percent	7.8	--	9.4	--	2019-2021	12
1.25	Insufficient Sleep	percent	36.6	31.4	40.4	35.0	2018	8
1.25	Morbidity Ranking		5	--	--	--	2022	8
1.17	High Blood Pressure Prevalence	percent	23.1	42.6	35.2	--	2019-2021	12
1.11	Self-Reported General Health Assessment: Poor or Fair	percent	10.6	--	16.9	--	2019-2021	12
0.97	Life Expectancy	years	80.9	--	77.5	78.5	2018-2020	8
0.75	Poor Physical Health: 14+ Days	percent	8.1	--	--	10.0	2020	5
0.67	Poor Physical Health: Average Number of Days	days	3.6	--	4.3	3.9	2019	8
SCORE	WOMEN'S HEALTH	UNITS	WASHTENAW COUNTY	HP2030	MI	U.S.	MEASUREMENT PERIOD	Source
2.33	Age-Adjusted Death Rate due to Breast Cancer	deaths/ 100,000 females	21.5	15.3	20.2	19.6	2016-2020	18
2.14	Breast Cancer Incidence Rate	cases/ 100,000 females	132.9	--	124.2	128.1	2015-2019	18
1.89	Pap Test in Past 3 Years	percent	63.0	--	79.2	--	2018-2020	12
1.78	Cervical Cancer Screening: 21-65	Percent	81.3	84.3	--	82.8	2020	5
1.64	Women 18-44 Years Enrolled in Medicaid who Visited the Dentist in the Past year	%	19.0	--	--	--	2020	11
1.11	Mammogram in Past 2 Years: 50-74	percent	73.8	80.5	--	78.2	2020	5

1.03	Mammography Screening: Medicare Population	percent	47.0	--	47.0	45.0	2021	7