# Environmental & Social Determinants of Health Shelby County, TN

Bruce Randolph, MD, MPH

Interim Director/Health Officer

Shelby County Health Department

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# Community Health Issues

- Poverty
- Education
- Social Determinants of Health
- Environmental Health
- Mental Health
- Life Expectancy
- Infant Mortality
- Chronic Disease
- HIV/STIs
- Substance Misuse
- Homicide/Violence

# Environmental Health

# Provisional Asthma ED Visit Counts by Zip Code & Year, Shelby County, TN, 2024, 2025, & YTD 2026

| ZIP Code | 2024 | 2025 | 2026*YTD |
|---|---|---|---|
| 38002 | 334 | 304 | 213 |
| 38016 | 632 | 562 | 440 |
| 38017 | 251 | 213 | 189 |
| 38018+38028 | 439 | 354 | 226 |
| 38053 | 353 | 262 | 206 |
| 38103+38104+38105 | 624 | 501 | 386 |
| 38106+38126 | 1401 | 975 | 637 |
| 38107+38108 | 1130 | 809 | 619 |
| 38109 | 1962 | 1027 | 798 |
| 38111+38152 | 881 | 695 | 487 |
| 38112 + 38122 | 949 | 667 | 461 |
| 38114 | 1036 | 737 | 524 |
| 38115 | 1046 | 907 | 608 |
| 38117 | 218 | 169 | 137 |
| 38118 | 1223 | 1069 | 726 |
| 38119+38120 | 367 | 272 | 215 |
| 38125 | 748 | 560 | 401 |
| 38127 | 1806 | 1235 | 877 |
| 38128 | 1358 | 994 | 709 |
| 38131+38132+38116 | 1533 | 878 | 672 |
| 38133 | 295 | 247 | 174 |
| 38134 | 709 | 527 | 375 |
| 38135 | 405 | 308 | 234 |
| 38138+38139 | 248 | 157 | 94 |
| 38141 | 487 | 418 | 306 |
| Other/Unknown | 3 | 1 | 2 |
| Total | 20438 | 14848 | 10716 |

* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Top Nine Zip Codes With Highest Provisional Asthma ED Visit Counts Shelby County, TN, 2024, 2025, & YTD 2026

| ZIP Code | 2024 | 2025 | 2026*YTD |
|---|---|---|---|
| 38106+38126 | 1401 | 975 | 637 |
| 38107+38108 | 1130 | 809 | 619 |
| 38109 | 1962 | 1027 | 798 |
| 38114 | 1036 | 737 | 524 |
| 38115 | 1046 | 907 | 608 |
| 38118 | 1223 | 1069 | 726 |
| 38127 | 1806 | 1235 | 877 |
| 38128 | 1358 | 994 | 709 |
| 38131+38132+38116 | 1533 | 878 | 672 |
| Total | 12496 (61% of Total Asthma ED Visits) | 8631 (58% of Total Asthma ED Visits) | 6170 (58% of Total Asthma ED Visits) |

* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Zip Codes with the Highest Provisional Asthma ED Visit Counts Shelby County, TN, 2024, 2025, & YTD 2026

| ZIP Code | 2024 | 2025 | 2026*YTD |
|---|---|---|---|
| 38106+38126 | 1401 | 975 | 637 |
| 38109 | 1962 | 1027 | 798 |
| 38127 | 1806 | 1235 | 877 |
| 38128 | 1358 | 994 | 709 |
| 38131+38132+38116 | 1533 | 878 | 672 |
| Total | 8060 (39.4% of Total Asthma ED Visits) | 5109 (34.4% of Total Asthma ED Visits) | 3693 (34.5% of Total Asthma ED Visits) |

* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Zip Codes with Lowest Provisional Asthma ED Visit Counts Shelby County, TN, 2024, 2025, & YTD 2026

| ZIP Code | 2024 | 2025 | 2026*YTD |
|---|---|---|---|
| 38017 | 251 | 213 | 189 |
| 38117 | 218 | 169 | 137 |
| 38133 | 295 | 247 | 174 |
| 38138+38139 | 248 | 157 | 94 |
| Total | 1012<br>(5.0% of Total Asthma ED Visits) | 786<br>(5.3% of Total Asthma ED Visits) | 594<br>(5.5% of Total Asthma ED Visits) |

* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Comparison of Provisional Asthma ED Visit Counts Between the Poorest Zip Codes and the Wealthiest Zip Codes, Shelby County, TN, 2024, 2025, & YTD 2026

| ZIP Code | 2024 | 2025 | 2026*YTD |
|---|---|---|---|
| 38017 | 251 | 213 | 189 |
| 38138+38139 (Wealthiest) | 248 | 157 | 94 |
| 38106+38126 (Poorest) | 1401 | 975 | 637 |
| 38127 | 1806 | 1235 | 877 |
| | Asthma ED Visit Count is 5.6 X higher in the poorest zip code vs the wealthiest zip code | Asthma ED Visit Count is 6.2 X higher in the poorest zip code vs the wealthiest zip code | Asthma ED Visit Count is 6.8 X higher in the poorest zip code vs the wealthiest zip code |

* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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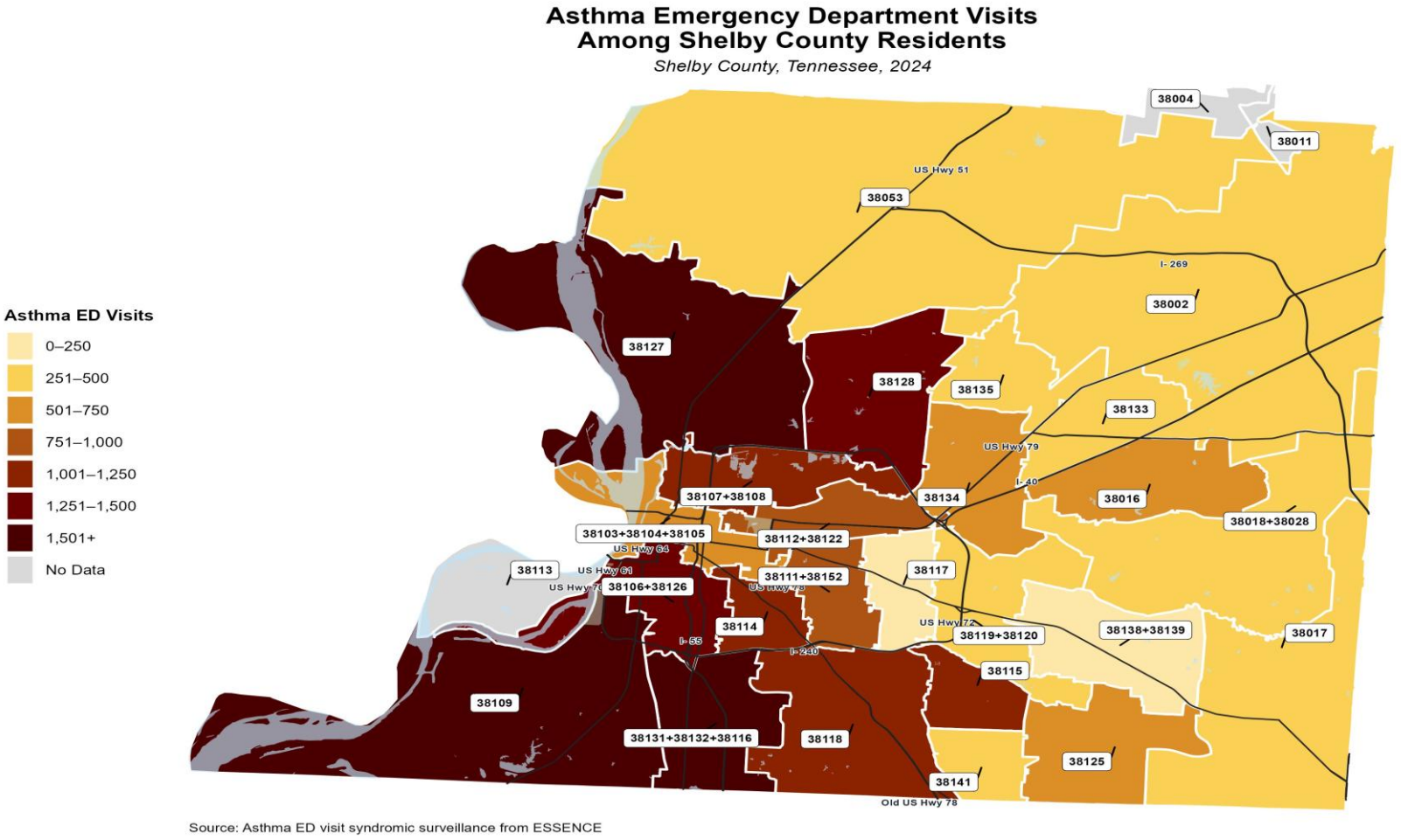
# Zip Code with Lowest Asthma ED Visits vs Zip Code with Highest Asthma ED Visits Shelby County, TN, 2024, 2025, & YTD 2026

| ZIP Code | 2024 | 2025 | 2026*YTD |
|---|---|---|---|
| 38138+38139 | 248 | 157 | 94 |
| 38109 | 1962 | 1027 | 798 |
| | Asthma ED Visits are 7.9 X higher in zip code 38109 | Asthma ED Visits are 6.5 X higher in zip code 38109 | Asthma ED Visits are 8.5 X higher in zip code 38109 |

* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Asthma ED Visits, Shelby County, TN  Residents, 2024

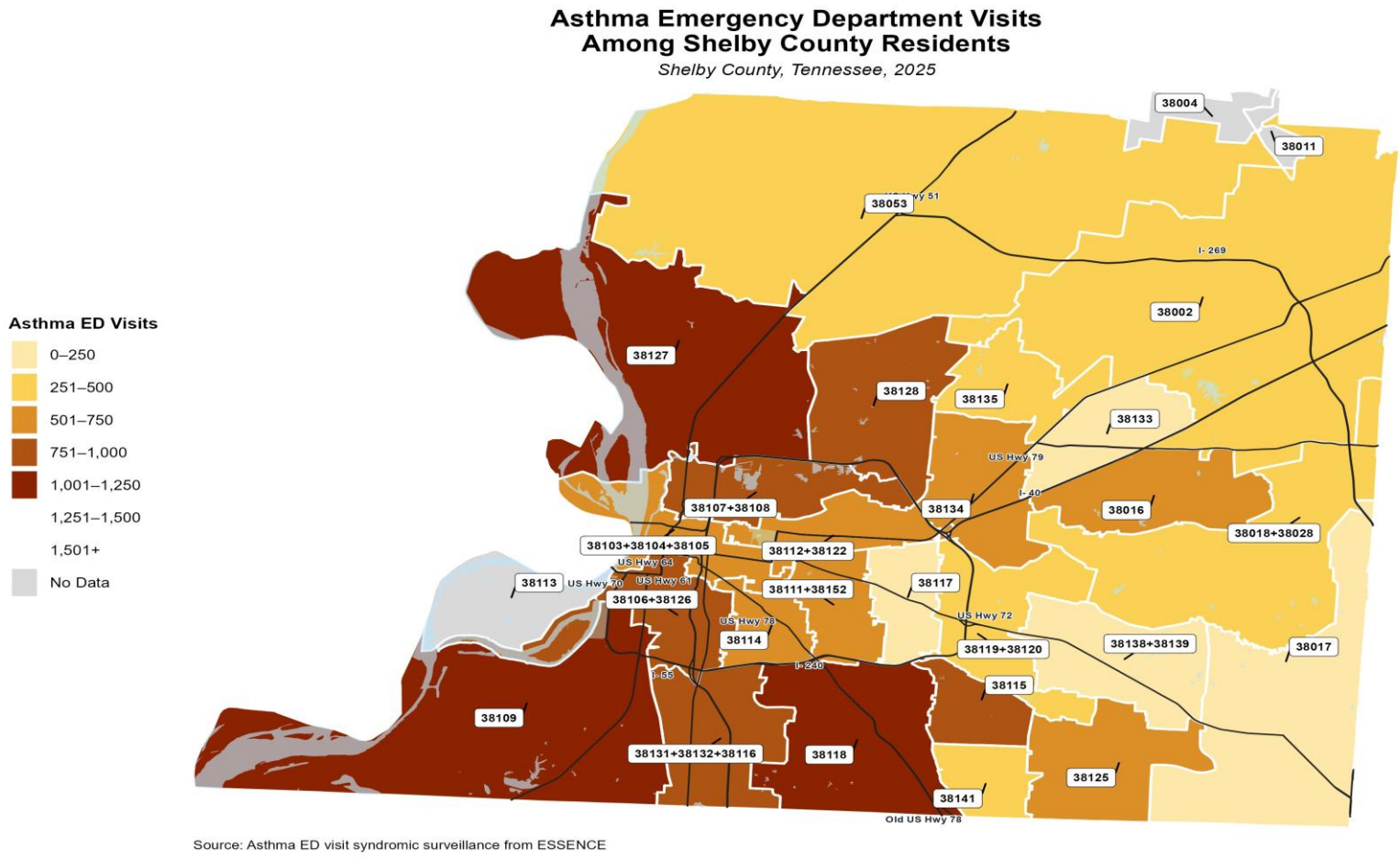



Source: Asthma ED visit syndromic surveillance from ESSENCE

* Data as of 9/30/2026. Subject to updates.
Data Source:  ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Asthma ED Visits, Shelby County, TN  Residents, 2025

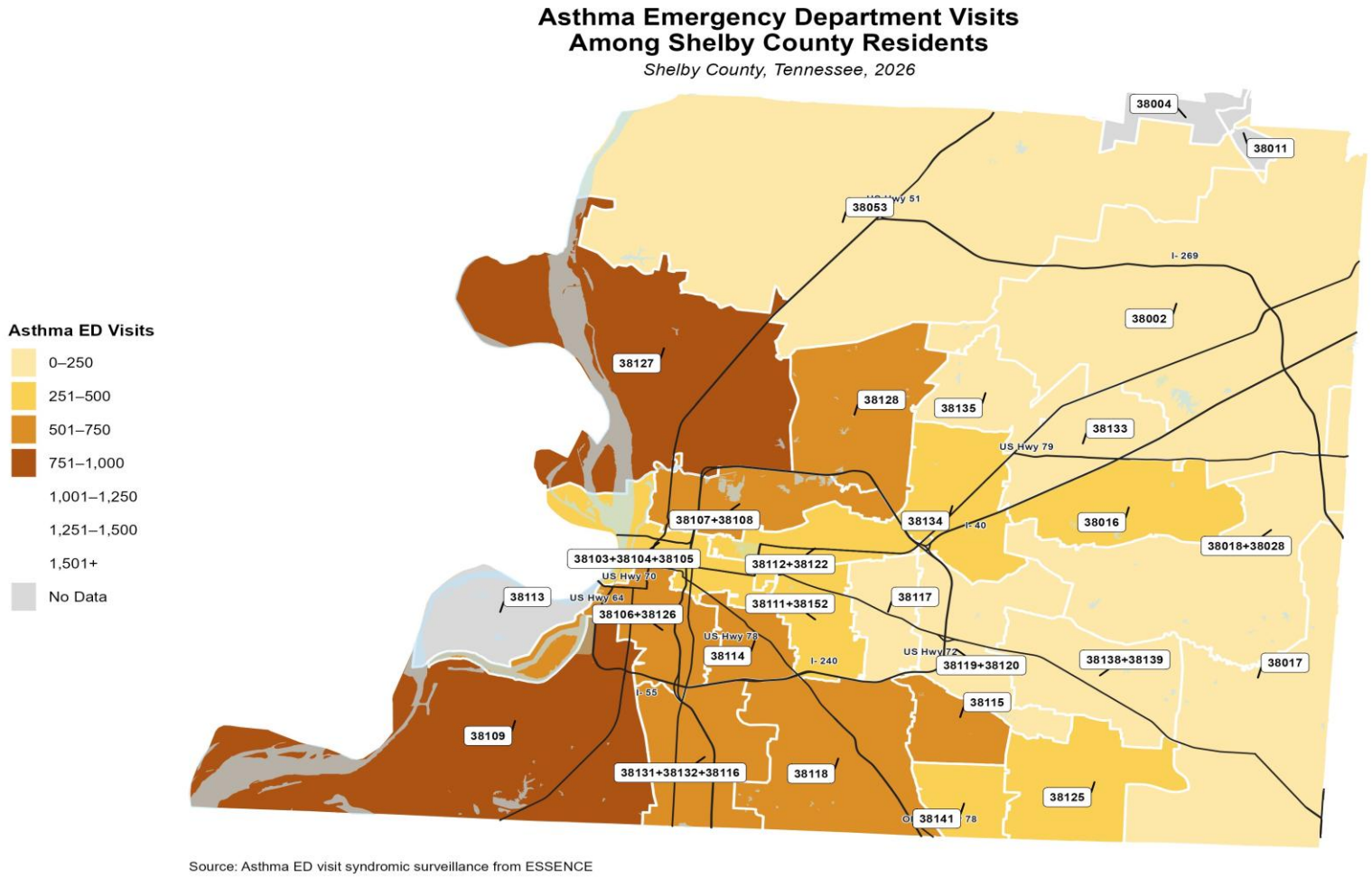



Source: Asthma ED visit syndromic surveillance from ESSENCE

* Data as of 9/30/2026. Subject to updates.
Data Source:  ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Asthma ED Visits, Shelby County, TN Residents, 2026




* Data as of 9/30/2026. Subject to updates.
Data Source: ESSENCE Syndromic Surveillance Data, Retrieved 9/30/26.

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# Recognized Carcinogens Released into Air

Zip Code

**Measurement Period**: 2023
**Data Source**: U.S. Environmental Protection Agency




January 7, 2025

www.healthiershelby.com

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# Environmental Health Indicators

## Poorest vs Wealthiest Zip Codes

### Dashboard 2024

| Location (Zip Code) | Houses Built Prior to 1950 | Recognized Carcinogens Released into Air |
|---|---|---|
| 38106 | 36.0% | 953 Pounds (Data from 2022) |
| 38126 | 15.8% | 790 Pounds |
| 38108 | 31.5% | 26,914 Pounds |
| 38127 | 8.8% | 43,460 Pounds |
| 38138 | 1.2% | N/A |
| 38139 | 1.0% | N/A |
| 38017 | 1.8% | 15,044 Pounds |

Source: Healthy Shelby- https://www.healthiershelby.com/indicators/index/dashboard

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# Title V Major Source Emissions, 2025

TITLE V SOURCES

| COMPANY | SITE (ZIPCODE) | TSP | SO2 | VOC | NOX | PB | CO | TONS TOTAL |
|---|---|---|---|---|---|---|---|---|
| ARCHER DANIELS MIDLAND | 38108 | 73.95 | 0.1 | 98.01 | 3.5 | 0 | 7.57 | 175.56 |
| CARGILL (CORN STARCH) | 38113 | 42.81 | 0.13 | 168.08 | 11.37 | 0 | 17.59 | 222.39 |
| MEMPHIS CELLULOSE LLC | 38112 | 10 | 0.14 | 6.14 | 62.12 | 0 | 20.73 | 78.40 |
| CARRIER CORPORATION | 38017 | 1.118 | 0.006 | 24.623 | 3.627 | 0 | 1.208 | 29.37 |
| COVORO MINING SOLUTIONS, LLC | 38127 | 19.81 | 2.67 | 35.26 | 703.22 | 0 | 144.79 | 760.96 |
| VALERO REFINING COMPANY- TENNESSEE, L.L.C. | 38109 | 61.02 | 39.12 | 320.05 | 355.28 | 0 | 69.78 | 775.47 |
| PMC BIOGENIX | 38108 | 6.82 | 0.35 | 4.05 | 132.83 | 0 | 48.34 | 144.05 |
| K.T.G. (USA) INC. | 38107 | 14.31 | 0.331 | 5.02 | 17.22 | 0 | 21.77 | 36.88 |
| AB MAURI FOOD INC., dba FLEISCHMANN'S YEAST | 38109 | 0.342 | 0.027 | 108.67 | 4.494 | 0 | 3.775 | 113.53 |
| MINASOLVE, LLC | 38108 | 2.5 | 0.8 | 81 | 24.1 | 0 | 57 | 108.40 |
| SOLAE COMPANY, THE | 38141 | 27.06 | 0.41 | 4.86 | 88.65 | 0 | 134.59 | 120.98 |
| SONOCO PRODUCTS CO | 38113 | 0 | 0 | 42.24 | 0 | 0 | 0 | 42.24 |
| BLUES CITY BREWERY, LLC | 38118 | 0.77 | 0.05 | 35.38 | 5 | 0 | 6.62 | 41.20 |

Source: Pollution Control Program
Environmental Services
Shelby County Health Department

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# Title V Major Source Emissions, 2025

| TITLE V SOURCES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **COMPANY** | **SITE (ZIPCODE)** | TSP | SO2 | VOC | NOX | PB | CO | **TONS TOTAL** |
| OWENS CORNING ROOFING & ASPHALT, LLC-MEMPHIS ASPHALT DBA | 38113 | 11.3 | 57.63 | 37.57 | 12.94 | 0 | 26.37 | 119.44 |
| BFI WASTE SYSTEMS OF NORTH AMERICA, INC. (SOUTH SHELBY LANDFILL) | 38118 | 37.54 | 9.03 | 21.37 | 3.75 | 0 | 19.27 | 71.69 |
| BRYCE COMPANY CORPORATION | 38118 | 0.03 | 0.01 | 5.85 | 0.6 | 0 | 0.35 | 6.49 |
| ST. JUDE CHILDREN'S RESEARCH HOSPITAL | 38105 | 1.47 | 0.24 | 1.02 | 15.04 | 0 | 12.49 | 17.77 |
| MITSUBISHI CHEMICAL AMERICA, INC | 38127 | 0.45 | 184.62 | 88.19 | 24.61 | 0 | 292.95 | 297.87 |
| FEDERAL EXPRESS CORP.(HUB) | 38118 | 2.4 | 0.4 | 16.31 | 69.04 | 0 | 22.18 | 88.15 |
| BFI WASTE SYSTEMS OF NORTH AMERICA, INC (NORTH SHELBY LANDFILL) | 38053 | 39.36 | 0.36 | 11.21 | 0.17 | 0 | 0.83 | 51.10 |
| MEMPHIS CITY-MAXSON WASTEWATER | 38109 | 0 | 29.9 | 0.19 | 5.35 | 0 | 0.57 | 35.44 |

Source: Pollution Control Program
Environmental Services
Shelby County Health Department

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# Title V Major Source Emissions, 2025

| TITLE V SOURCES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **COMPANY** | | **SITE ZIPCODE** | TSP | SO2 | VOC | NOX | PB | CO | **TONS TOTAL** |
| MEMPHIS CITY- M.C.STILES WASTEWATER TREATMENT | | 38127 | 0 | 112.4 | 0.45 | 12.3 | 0 | 1.3 | 125.15 |
| NUCOR STEEL MEMPHIS | | 38109 | 99.71 | 268.38 | 32.36 | 193.66 | 0.07 | 710.3 | 594.18 |
| ARKEMA INCORPORATED | | 38127 | 4.94 | 0.1 | 48 | 18 | 0 | 13.47 | 71.04 |
| AMERICAN YEAST CORPORATION, TENNESSEE | | 38127 | 0.33 | 0.026 | 101.2 | 4.39 | 0 | 3.69 | 105.95 |
| VALERO PARTNERS MEMPHIS LLC (MEMPHIS TRUCK RACK) | | 38109 | 0 | 0 | 28.49 | 1.15 | 0 | 1.33 | 29.64 |
| CCL LABEL, INC. - PLANT 2 | | 38017 | 0.06 | 0 | 29.06 | 0.79 | 0 | 0.66 | 29.91 |
| PLASKOLITE TENNESSEE, LLC | | 38127 | 1.3 | 0 | 7.3 | 1 | 0 | 2.5 | 9.60 |
| ALLEN COMBINED CYCLE PLANT-TVA | | 38109 | 141 | 11.6 | 46.5 | 168 | 0.008 | 21.4 | 367.11 |

Source: Pollution Control Program
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# Companies That Emitted More Than 100 Tons, 2025

TITLE V SOURCES

| COMPANY | SITE (ZIPCODE) | TSP | SO2 | VOC | NOX | PB | CO | TONS TOTAL |
|---|---|---|---|---|---|---|---|---|
| ARCHER DANIELS MIDLAND | 38108 | 73.95 | 0.1 | 98.01 | 3.5 | 0 | 7.57 | 175.56 |
| CARGILL (CORN STARCH) | 38113 | 42.81 | 0.13 | 168.08 | 11.37 | 0 | 17.59 | 222.39 |
| OWENS CORNING ROOFING & ASPHALT, LLC-MEMPHIS ASPHALT DBA | 38113 | 11.3 | 57.63 | 37.57 | 12.94 | 0 | 26.37 | 119.44 |
| MITSUBISHI CHEMICAL AMERICA, INC | 38127 | 0.45 | 184.62 | 88.19 | 24.61 | 0 | 292.95 | 297.87 |
| COVORO MINING SOLUTIONS, LLC | 38127 | 19.81 | 2.67 | 35.26 | 703.22 | 0 | 144.79 | 760.96 |
| VALERO REFINING COMPANY- TENNESSEE, L.L.C. | 38109 | 61.02 | 39.12 | 320.05 | 355.28 | 0 | 69.78 | 775.47 |
| PMC BIOGENIX | 38108 | 6.82 | 0.35 | 4.05 | 132.83 | 0 | 48.34 | 144.05 |
| NUCOR STEEL MEMPHIS | 38109 | 99.71 | 268.38 | 32.36 | 193.66 | 0.07 | 710.3 | 594.18 |
| AB MAURI FOOD INC., dba FLEISCHMANN'S YEAST | 38109 | 0.342 | 0.027 | 108.67 | 4.494 | 0 | 3.775 | 113.53 |
| MINASOLVE, LLC | 38108 | 2.5 | 0.8 | 81 | 24.1 | 0 | 57 | 108.40 |
| SOLAE COMPANY, THE | 38141 | 27.06 | 0.41 | 4.86 | 88.65 | 0 | 134.59 | 120.98 |
| ALLEN COMBINED CYCLE PLANT-TVA | 38109 | 141 | 11.6 | 46.5 | 168 | 0.008 | 21.4 | 367.11 |
| AMERICAN YEAST CORPORATION, TENNESSEE | 38127 | 0.33 | 0.026 | 101.2 | 4.39 | 0 | 3.69 | 105.95 |

Source: Pollution Control Program
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# SYNTHETIC MINOR SOURCE EMISSIONS, 2025

| COMPANY | | SITE ZIP CODE | TSP | SO2 | VOC | NOX | PB | CO | TONS TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| KELLOGG,USA LLC | | 38114 | 18.36 | 0.16 | 67.82 | 27.27 | 0 | 22.91 | 113.61 |
| OWENS CORNING ROOFING/ASPHALT | | 38107 | 28.96 | 0.23 | 24.98 | 1.78 | 8.89E-06 | 18.16 | 55.95 |
| MEMPHIS TERMINAL, LLC | | 38106 | 0 | 0 | 48.04 | 0.02 | 0 | 0.02 | 48.06 |
| J M SMUCKER, LLC | | 38118 | 42.1 | 0.05 | 0.25 | 3.39 | 0 | 4.09 | 45.79 |
| EVERZINC USA MILLINGTON | | 38053 | 30.3 | 0.086 | 0.79 | 14.28 | 0.003 | 11.98 | 45.46 |
| HERSHEY COMPANY | | 38106 | 5.06 | 0.03 | 32.39 | 5.59 | 0 | 4.69 | 43.07 |
| EXXONMOBIL PIPELINE COMPANY | | 38106 | 0 | 0 | 40.92 | 0 | 0 | 0 | 40.92 |
| SOUTH SHELBY RING, LLC | | 38118 | 3.23 | 12.74 | 0.084 | 16.67 | 2.91 | 54 | 35.63 |
| COLOSSUS DATA CENTER (CTC PROPERTY, LLC) | | 38109 | 12.88 | 2.59 | 3.86 | 14.86 | 0 | 34.68 | 34.19 |

Source: Pollution Control Program
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# Penalty Fees Paid in 2024

| Company | Date Paid | Amount Paid | |
|---|---|---|---|
| BRYCE COMPANY CORPORATION | 1/3/2024 | $7,875.00 | |
| TWO RIVERS PREMIUM OILS, LLC | 1/22/2024 | $38,808.00 | |
| ADM RIVERPORT dba | 1/26/2024 | $6,300.00 | |
| MITSUBISHI CHEMICAL AMERICA, INC | 2/22/2024 | $94,050.00 | |
| MINASOLVE, LLC | 3/19/2024 | $22,855.00 | |
| KOPPERS PERFORMANCE CHEMICAL | 5/7/2024 | $500.00 | |
| TWO RIVERS PREMIUM OILS, LLC | 6/13/2024 | $20,790.00 | |
| MMC MATERIALS, INC. | 7/3/2024 | $200.00 | |
| AMERICAN YEAST CORPORATION, TENNESSEE | 7/17/2024 | $4,500.00 | |
| MINASOLVE, LLC | 8/16/2024 | $28,970.00 | |
| FEDEX SUPPLY CHAIN, INC. | 9/4/2024 | $200.00 | |
| MEMPHIS CELLULOSE LLC | 9/13/2024 | $17,242.50 | |
| | | | **Total Paid: $242,290.50** |

Source: Pollution Control Program
Environmental Services
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# Penalty Fees Paid in 2025

| Company | Date Paid | Amount Paid | |
|---|---|---|---|
| IMAGE ENVIRONMENTAL INC | 2/6/2025 | $200.00 | |
| RC CONSTRUCTION COMPANY, INC. | 3/28/2025 | $200.00 | |
| MITSUBISHI CHEMICAL AMERICA, INC | 4/17/2025 | $181,753.00 | |
| MITSUBISHI CHEMICAL AMERICA, INC | 6/9/2025 | $2,500.00 | |
| COVORO MINING SOLUTIONS, LLC | 6/25/2025 | $7,200.00 | |
| TRI-STATE IRONWORKS INC. | 9/23/2025 | $200.00 | |
| PYRAMID SIGNS & AWNINGS, INC | 10/6/2025 | $200.00 | |
| BLUES CITY BREWERY, LLC | 11/24/2025 | $16,000.00 | |
| MEMORIAL PARK FUNERAL HOME | 12/4/2025 | $500.00 | |
| BAPTIST MEMORIAL HOSPITAL-MEMPHIS ( EAST) | 12/17/2025 | $500.00 | |
| | | | **Total Paid: $209,253.00** |

Source: Pollution Control Program
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# Penalty Fees Paid in 2026

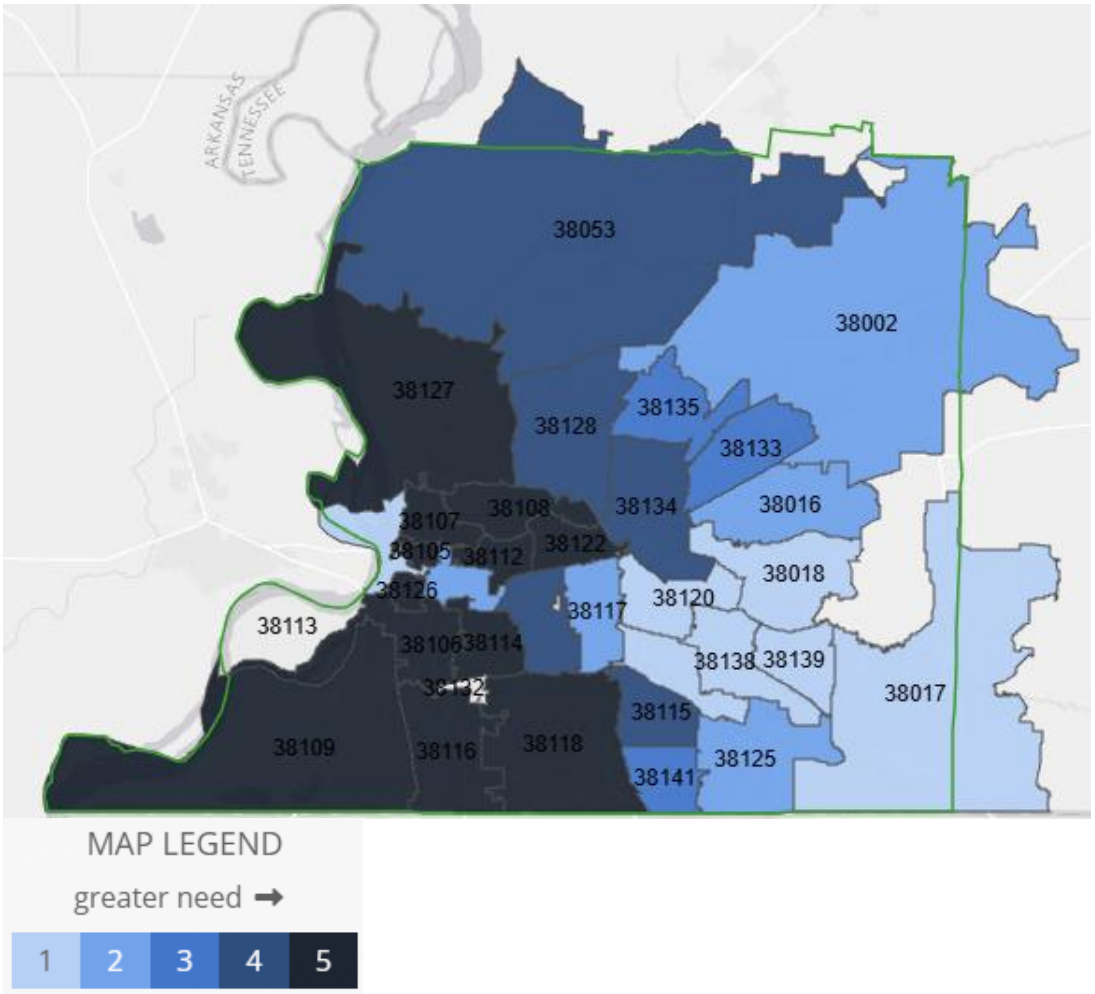
| Company | Date Paid | Amount Paid | |
|---|---|---|---|
| MEMPHIS CITY-MAXSON WASTEWATER | 4/7/2026 | $15,525.00 | |
| HELM FERTILIZER TERMINAL, INC. | 4/9/2026 | $1,000.00 | |
| BLUESCOPE COATED PRODUCTS, LLC | 4/21/2026 | $1,000.00 | |
| SCI TENNESSEE FUNERAL SERVICES dba MEMPHIS SERVICE CENTER | 6/5/2026 | $500.00 | |
| HENKEL US OPERATIONS CORPORATION | 7/27/2026 | $2,000.00 | |
| MEMPHIS CITY- M.C.STILES WASTEWATER TREATMENT | 8/7/2026 | $9,450.00 | |
| EVERZINC CORPORATION dba EVERZINC USA MILLINGTON | 8/27/2026 | $27,392.50 | **Total Paid: $56,867.50** |

Source: Pollution Control Program
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# MAPS OF HEALTH DISPARITY

# Shelby County, TN Health Equity Index (2024)

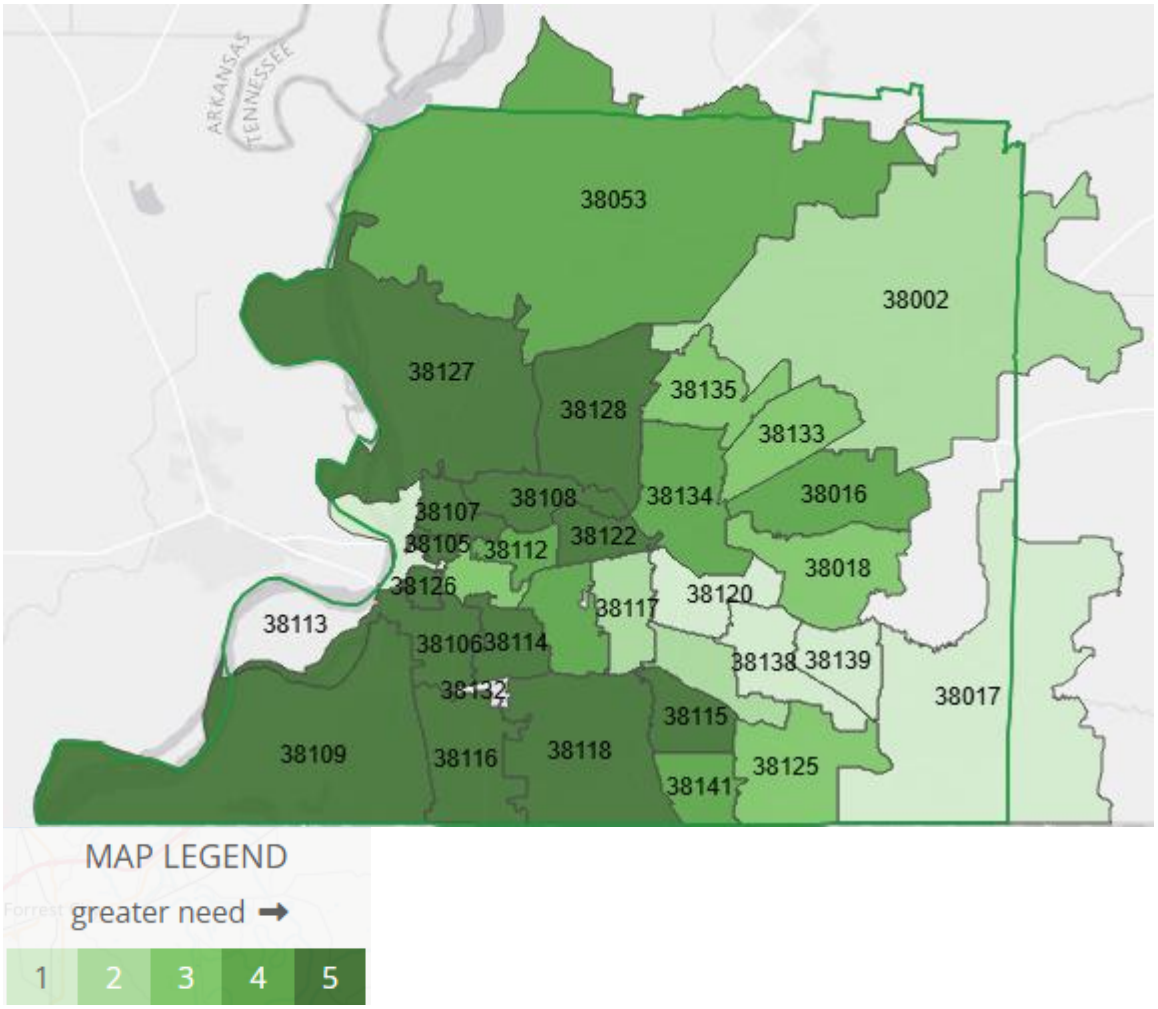



Areas of highest need are **ranked** from 1 (low need) to 5 (high need) based on their index value relative to similar locations within the region.

Source: www.healthiershelby.com. Health Equity Index. 2024. ZIP Code: Shelby County, TN

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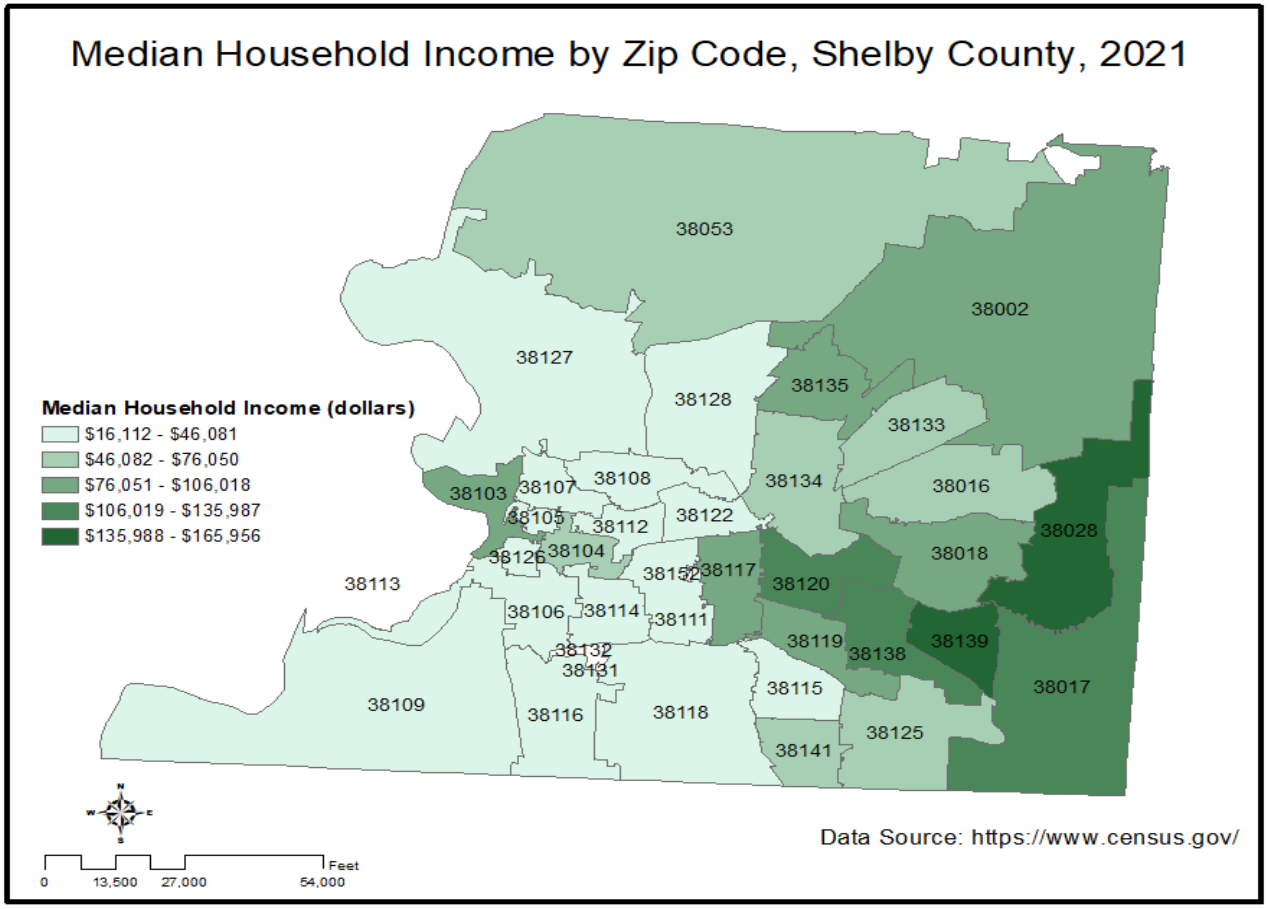
# Shelby County, TN Food Insecurity Index (2024)




- Index values and rankings apply to a specific time period.
- They show how a location compares to others during that time.
- Rankings are relative, not absolute, based on similar locations.
- Helps identify performance or need within a defined context.

Source: www.healthiershelby.com. Measurement period 2024. ZIP Code: Shelby County, TN

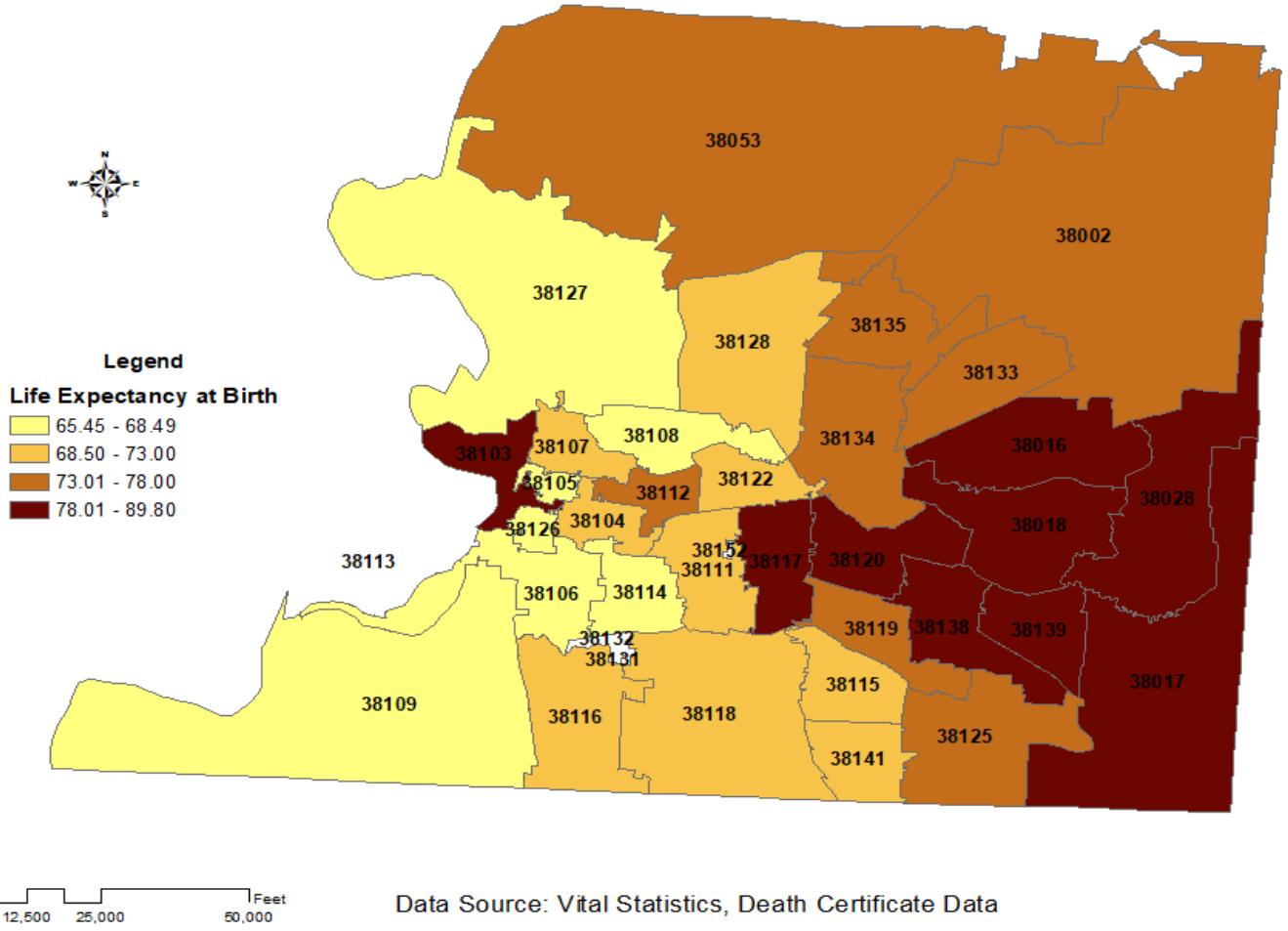
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Data Source: United States Census, American Community Survey, 2021 5-year population estimates. Prepared by Shelby County Health Department (SCHD), Office of Epidemiology and Infectious Diseases.

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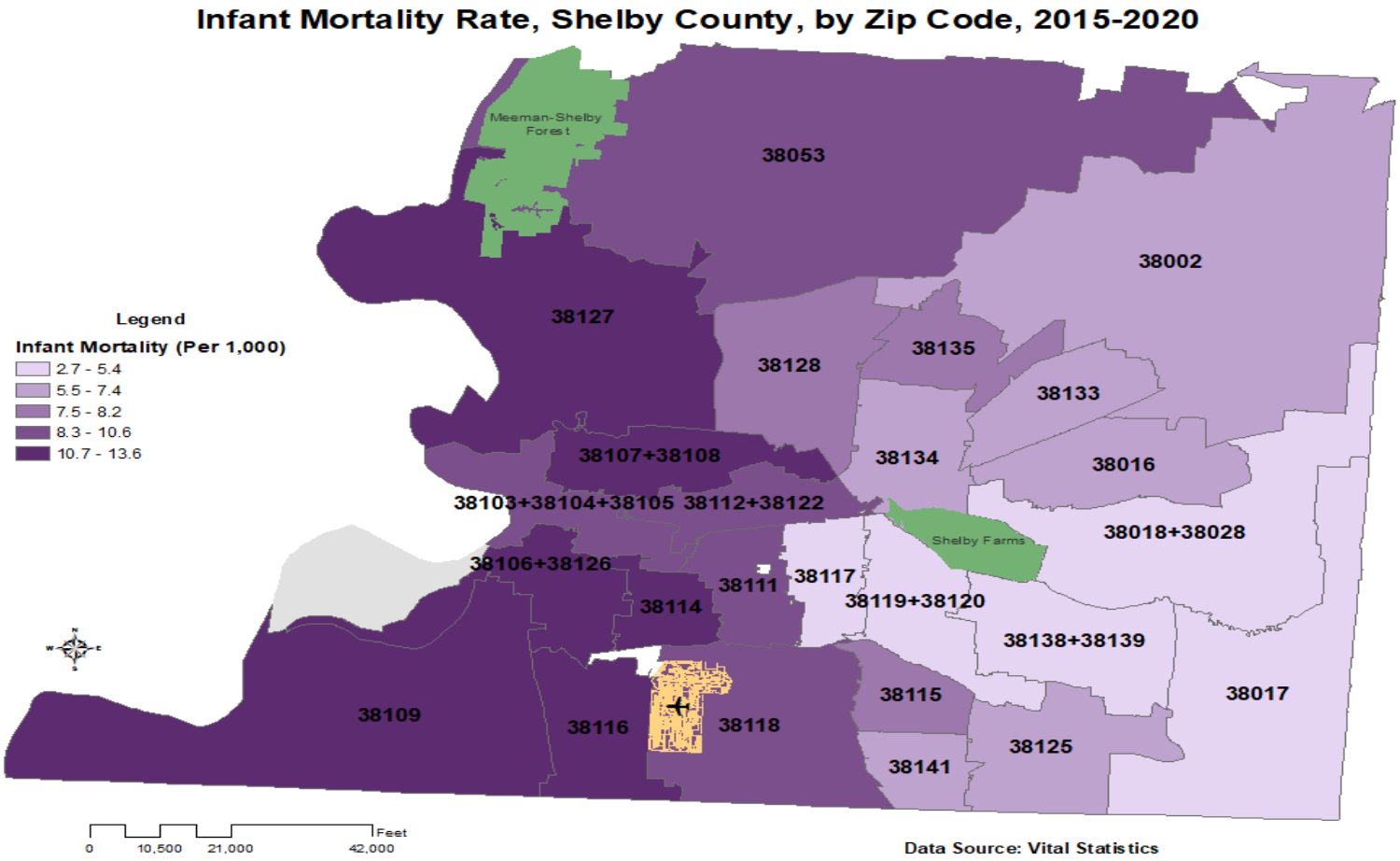
# Shelby County, TN Life Expectancy at Birth (2016-2020)




Data Source: Vital Statistics, Death Certificate Data

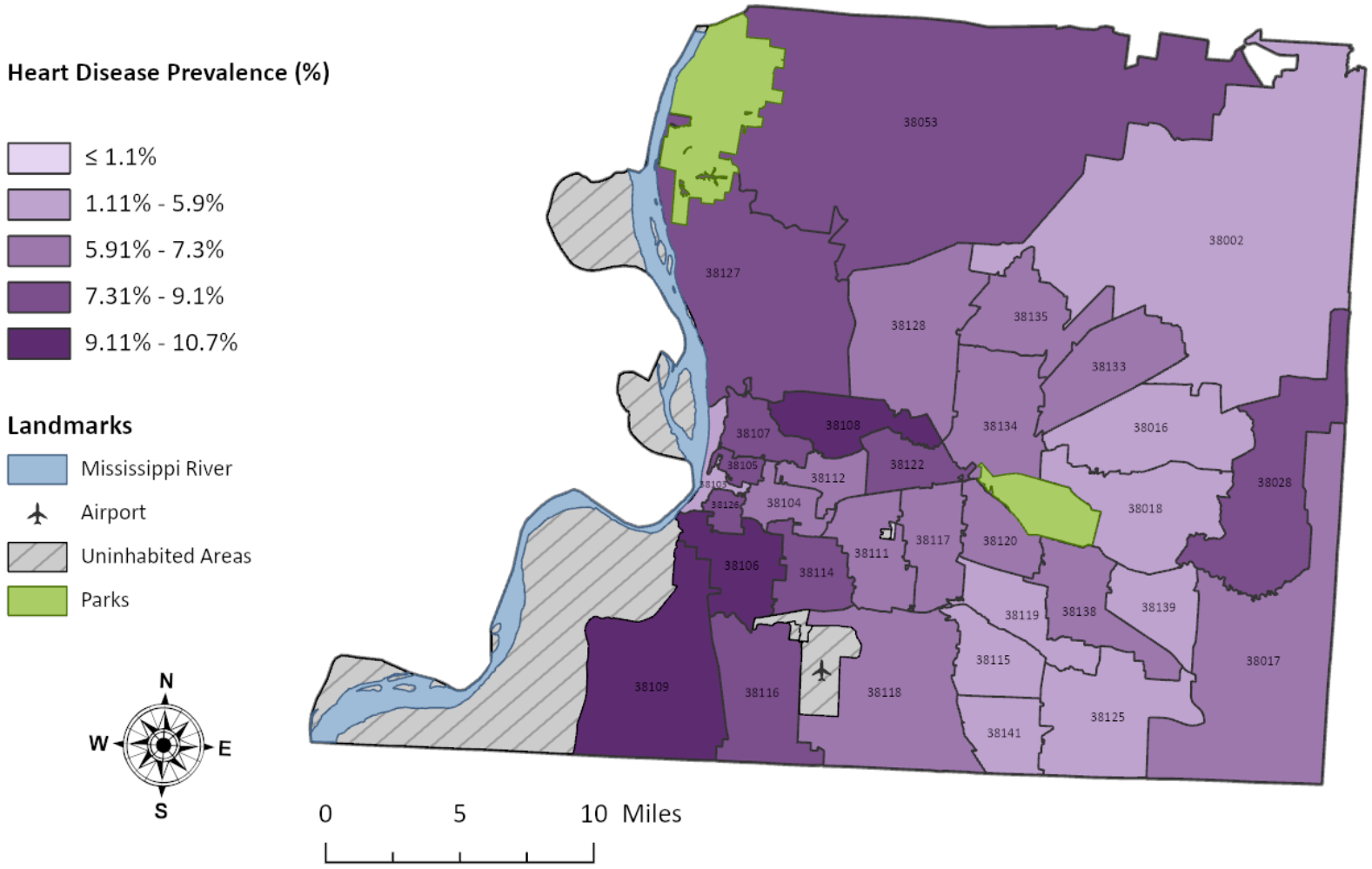
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# Infant Mortality Rate, Shelby County, TN by ZIP Code (2015-2020)




Data Source: Tennessee Department of Health, Office of Policy, Planning and Assessment, Division of Health Statistics, Birth and Death Certificate Files for Shelby County Residents, 2015– 2020. Use of these data does not imply TDH agrees or disagrees with any presentations, analyses, interpretations or conclusions herein. Prepared by Shelby County Health Department (SCHD), Office of Epidemiology and Infectious Diseases 09/30/2022.

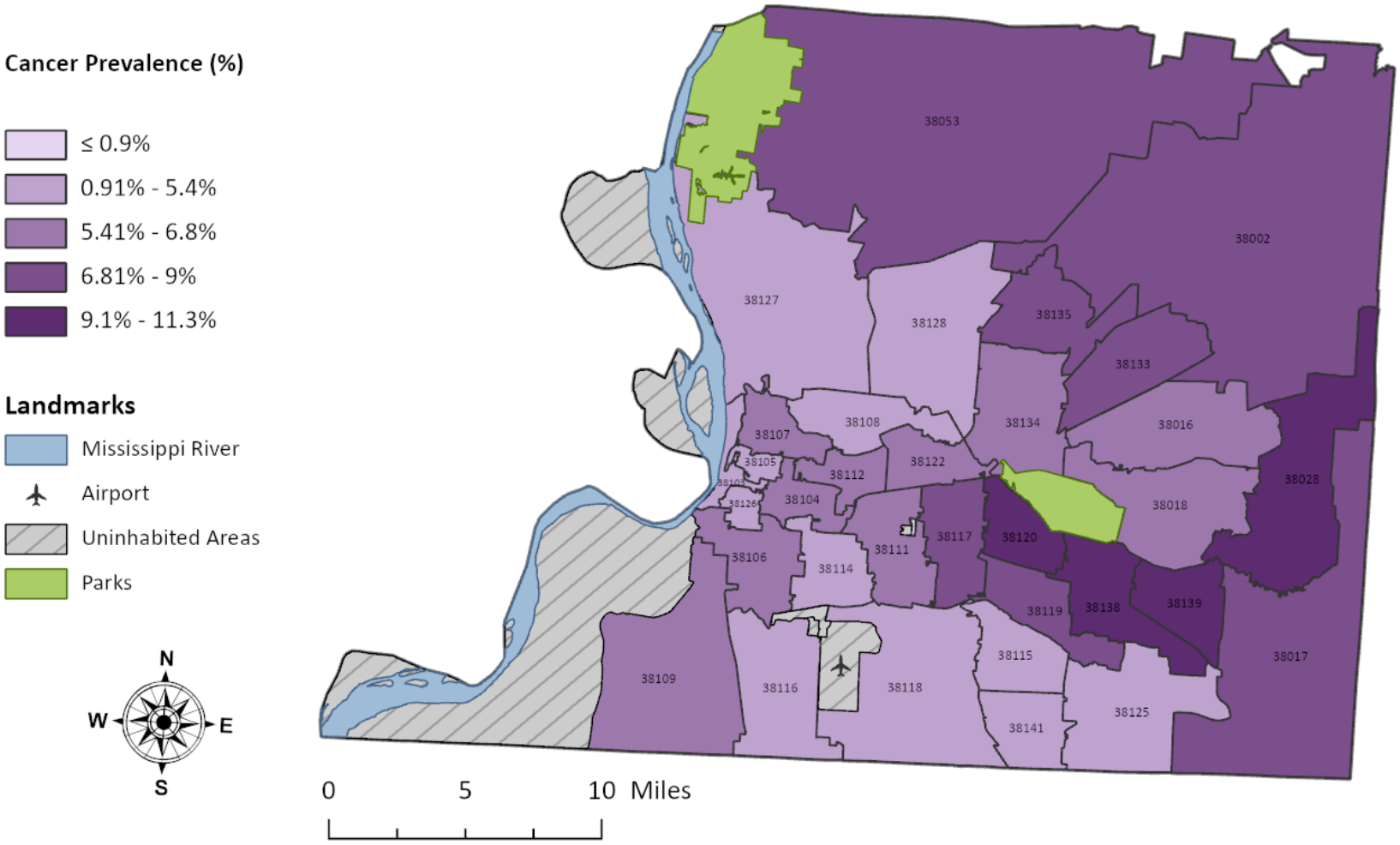
# Estimated Prevalence of Coronary Heart Disease in Shelby County, TN by ZIP Code, 2022




**Source**: Centers for Disease Control and Prevention. PLACES: Local Data for Better Health. Accessed 11/7/25. https://www.cdc.gov/places. *Prepared by the Office of Epidemiology.*

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# Estimated Prevalence of Cancer* in Shelby County, TN by ZIP Code (2022)

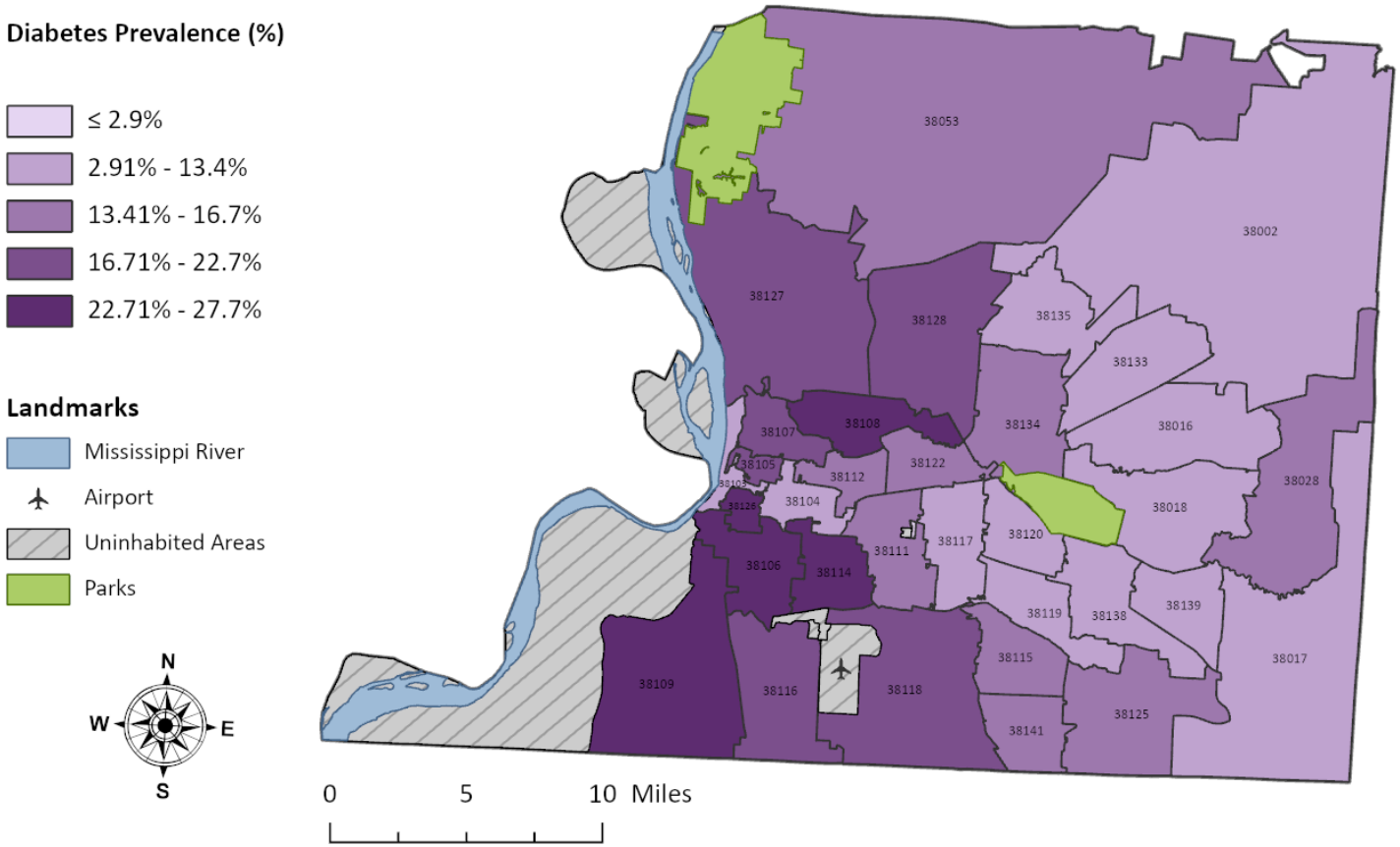



*Excludes non-melanoma skin cancers

**Source**: Centers for Disease Control and Prevention. PLACES: Local Data for Better Health. Accessed 11/7/25. https://www.cdc.gov/places. *Prepared by the Office of Epidemiology.*

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# Estimated Prevalence of Diabetes in Shelby County, TN by ZIP Code, 2022

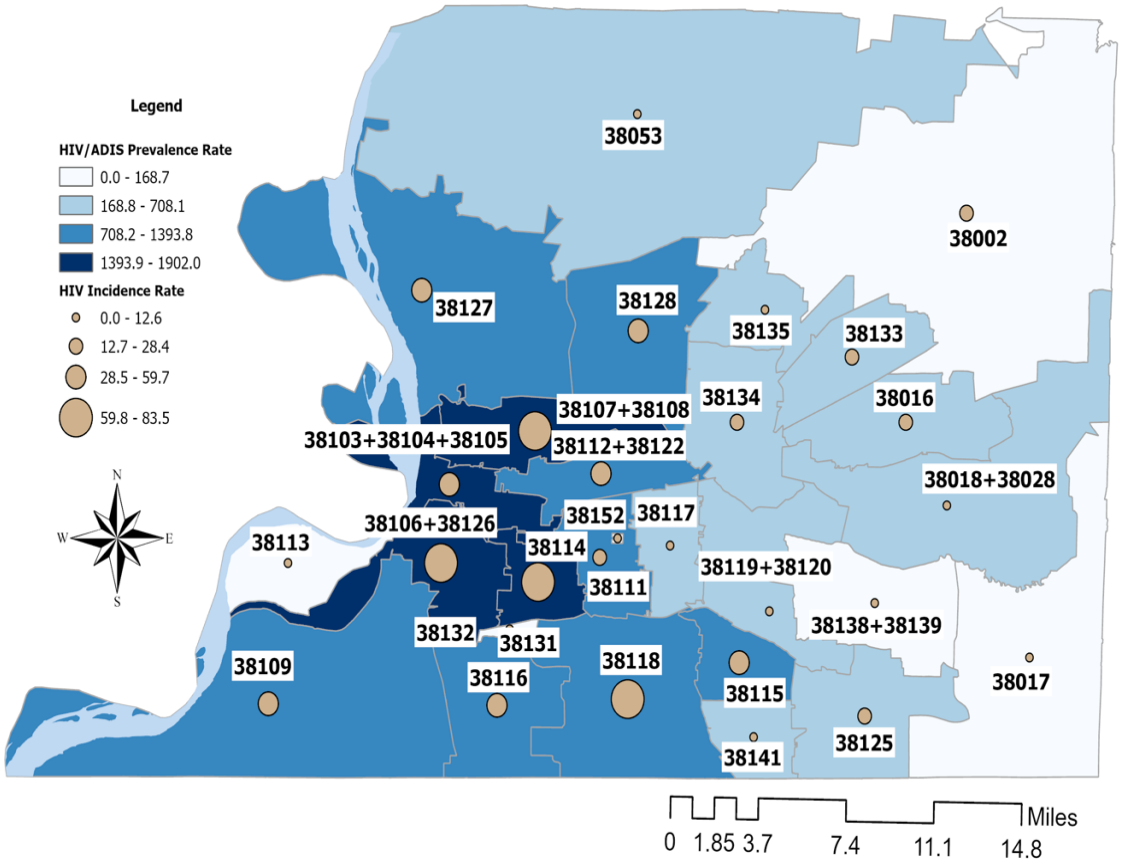



**Source**: Centers for Disease Control and Prevention. PLACES: Local Data for Better Health. Accessed 11/7/25. https://www.cdc.gov/places. *Prepared by the Office of Epidemiology.*

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# Prevalence & Incidence Rates (per 100,000 population)

## Shelby County, 2024*

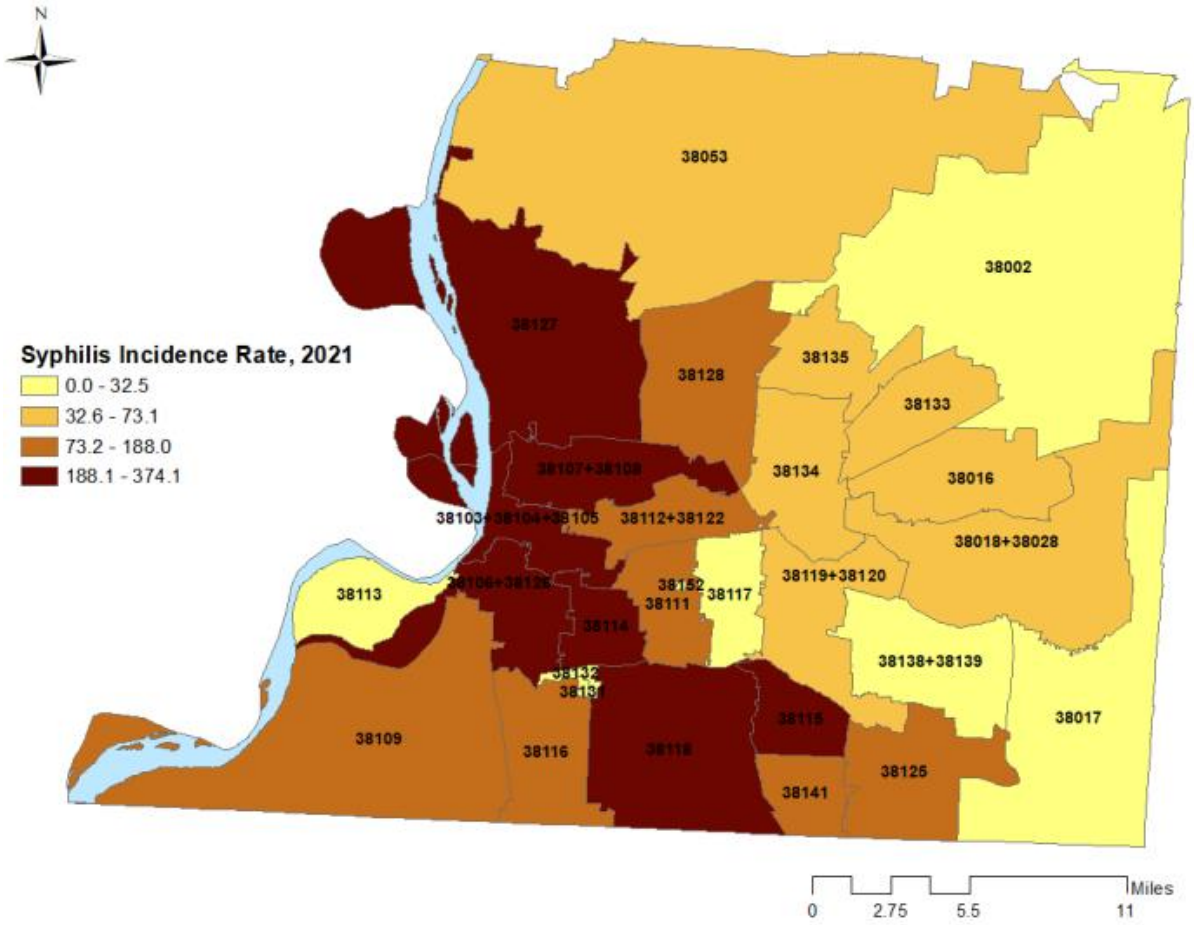



*The positive correlation between prevalence and incidence rates indicates that these zip code areas need to be considered high-priority areas for resource allocation in terms of HIV testing and care. (Pearson correlation coefficient=0.93)*

*Data Source:* TDH. *Preliminary data. Subject to updates. Prepared by the SCHD Office of Epidemiology.

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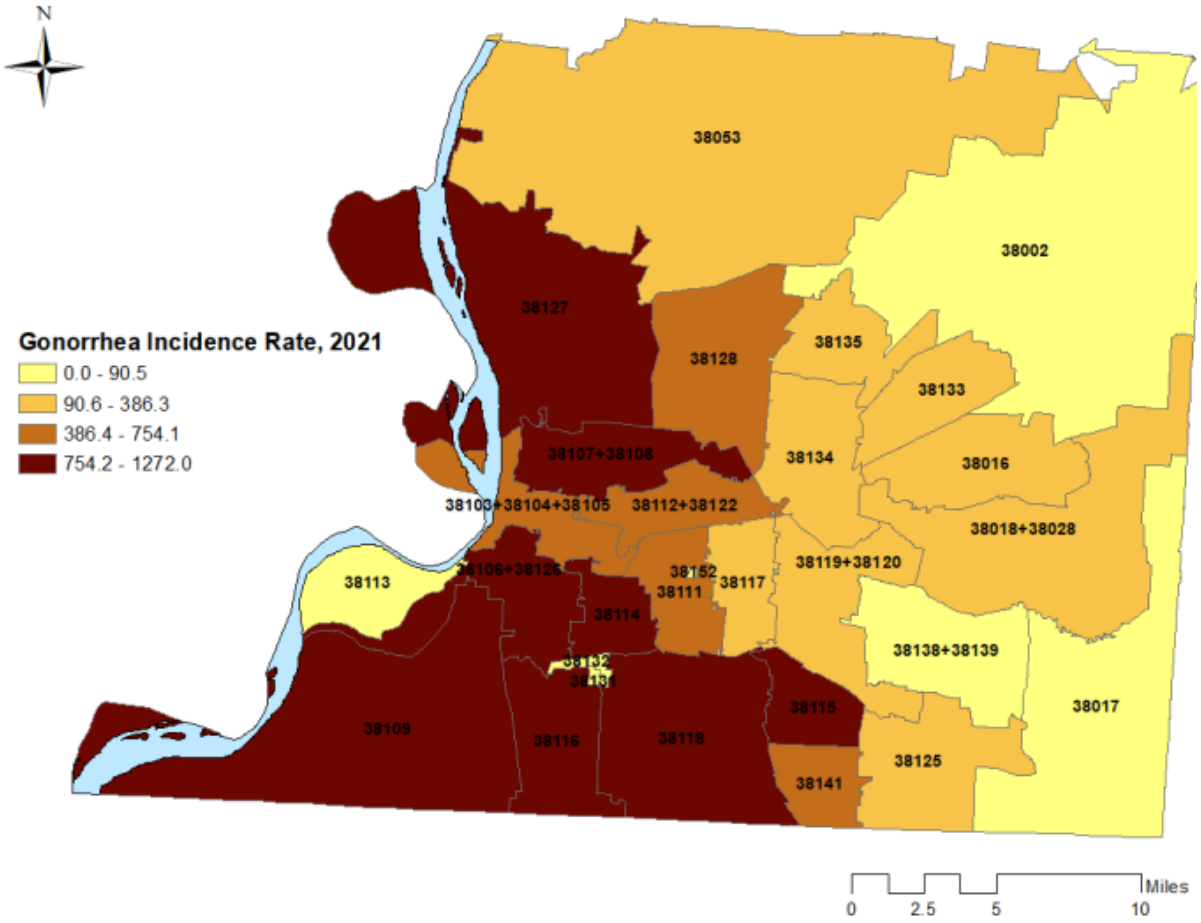
# Shelby County, TN All Syphilis Incidence Rate Per 100,000 Population by ZIP Code (2021)




Source: TN Patient Reporting Investigation Surveillance Manager (Prism, Assessed January 3rd, 2023. Rates were calculated using U.S. Census Bureau, 2021 American Community Survey 5-Year Estimates.

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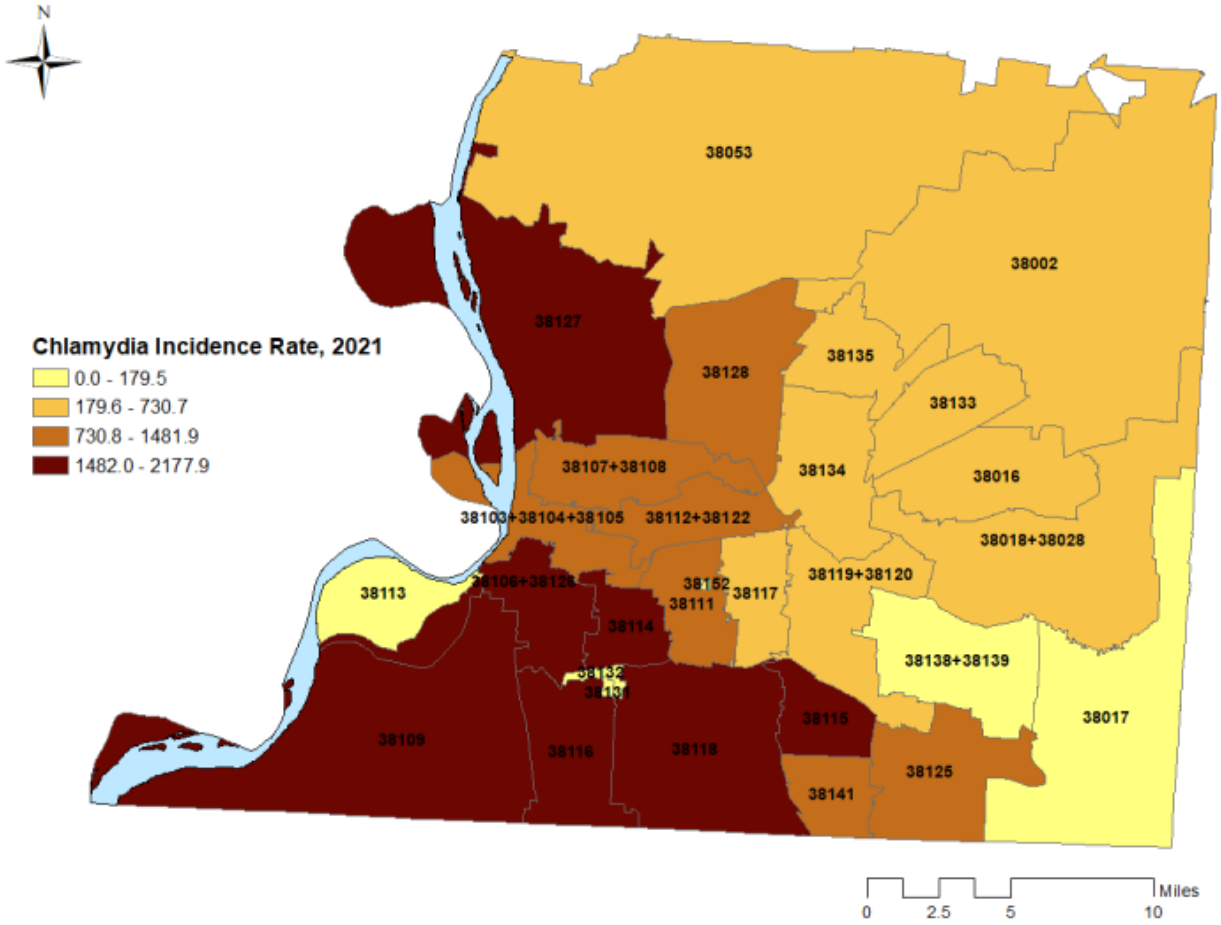
# Shelby County, TN Gonorrhea Incidence Rate Per 100,000 Population by ZIP Code (2021)




Source: TN Patient Reporting Investigation Surveillance Manager (Prism, Assessed January 3rd, 2023. Rates were calculated using U.S. Census Bureau, 2021 American Community Survey 5-Year Estimates.

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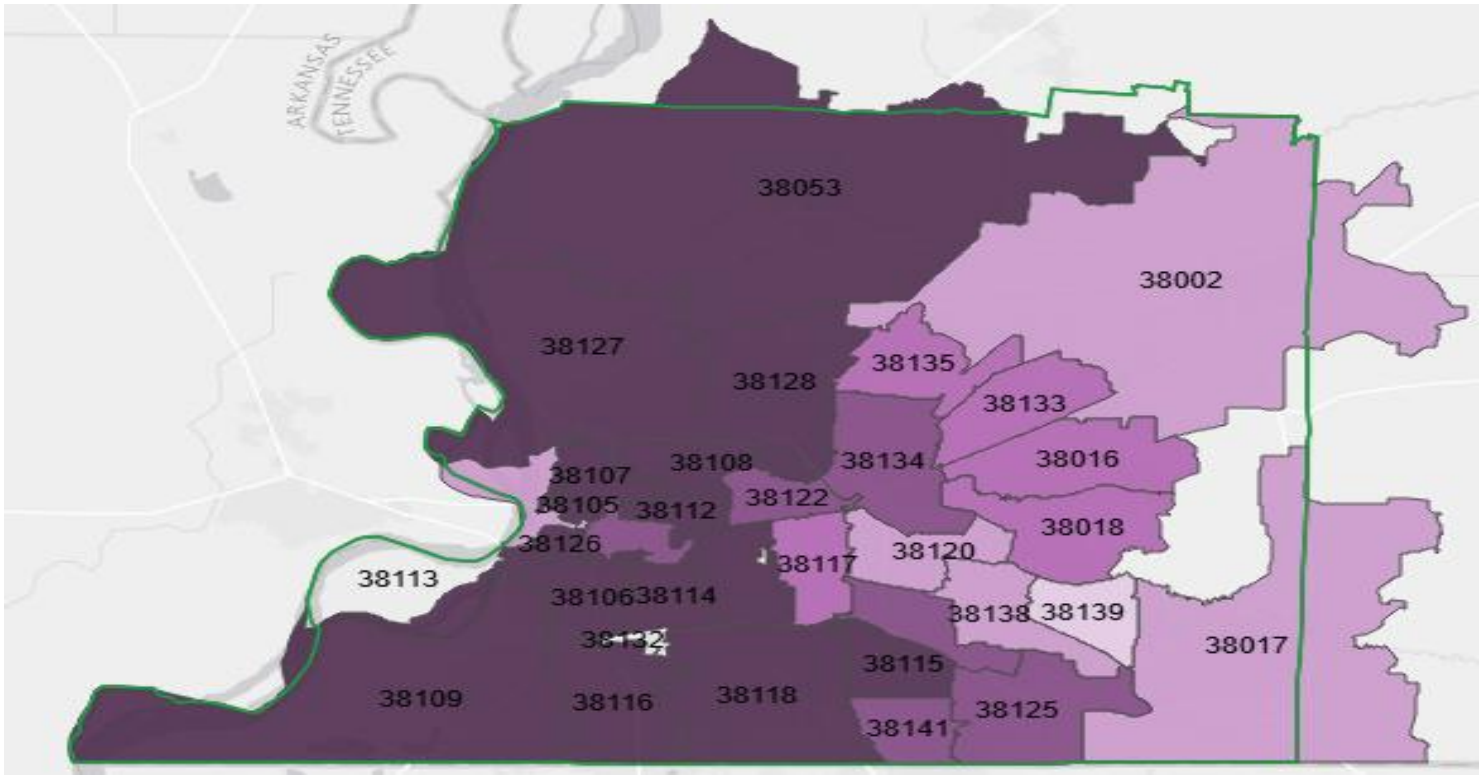
# Shelby County, TN Chlamydia Incidence Rate Per 100,000 by ZIP CODE (2021)

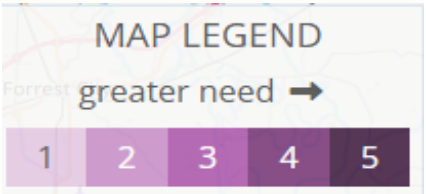



Source: TN Patient Reporting Investigation Surveillance Manager (Prism, Assessed January 3rd, 2023. Rates were calculated using U.S. Census Bureau, 2021 American Community Survey 5-Year Estimates.

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# Shelby County Mental Health Index (2024)

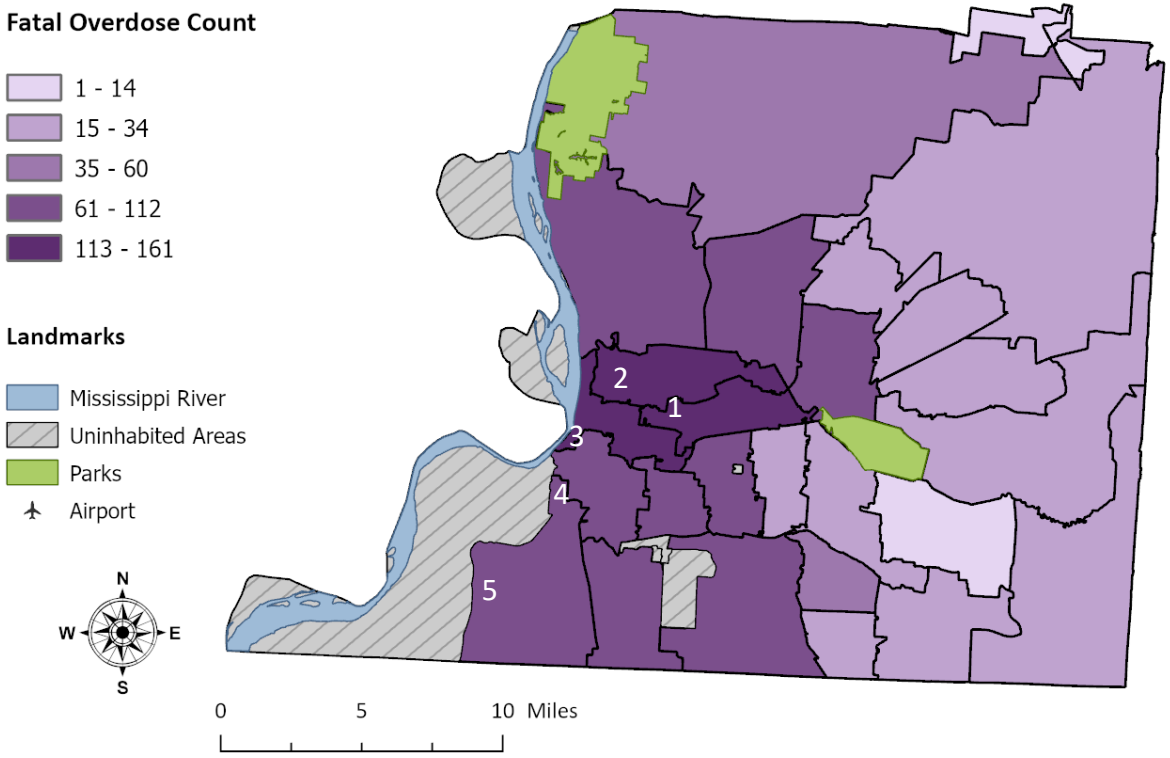



Source: www.healthiershelby.com. Measurement period 2024. ZIP Code: Shelby County, TN

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# Suspected Opioid Drug Overdose Deaths by Incident ZIP Code Regions in Shelby County, TN, 2020-2024




| Reference | ZIP Code(s) | Fatal Overdose Count |
|---|---|---|
| 1 | 38112 + 38122 | 161 |
| 2 | 38107 + 38108 | 154 |
| 3 | 38103 + 38104 + 38105 | 138 |
| 4 | 38106 + 38126 | 112 |
| 5 | 38109 | 105 |

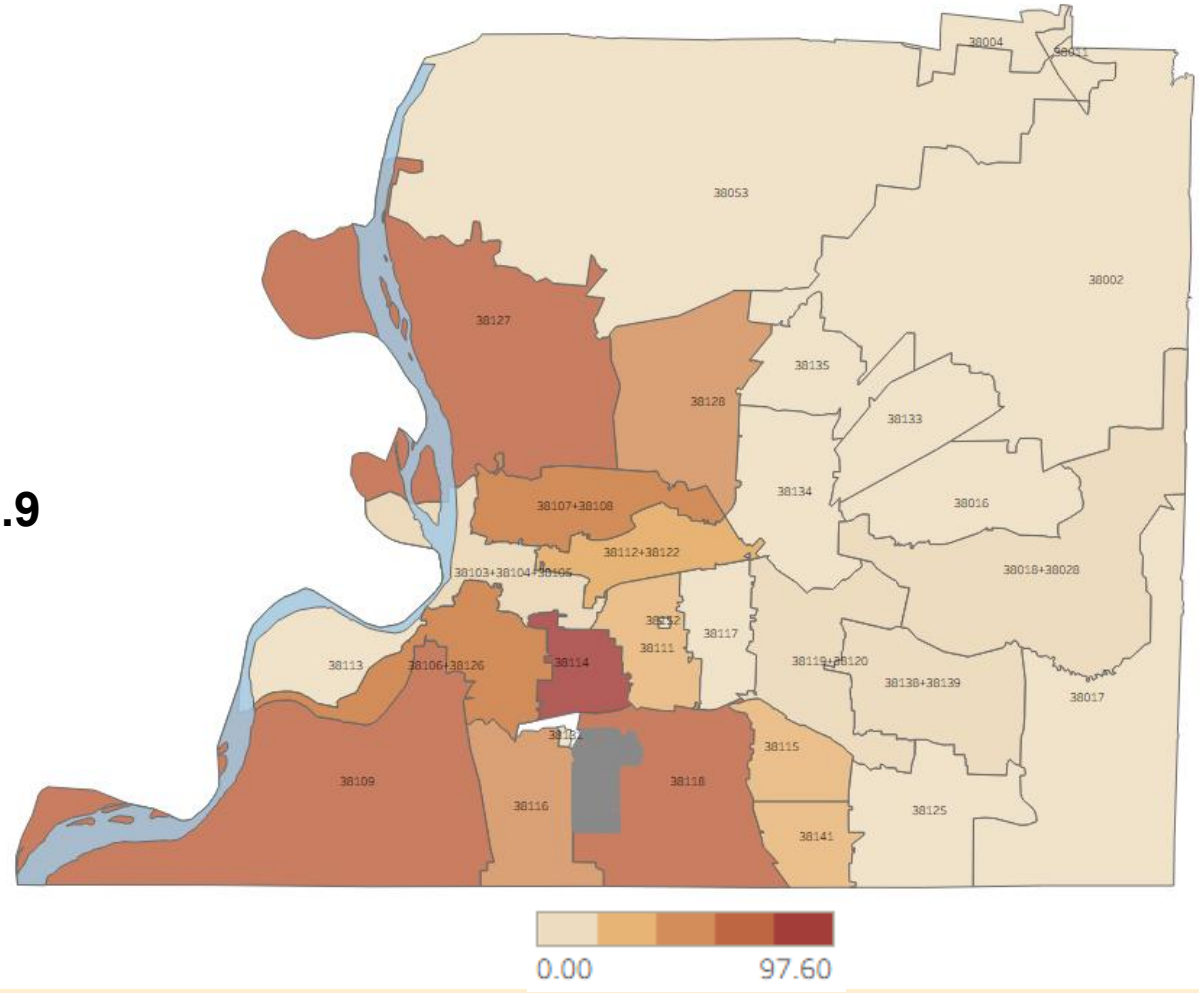
Data Source: WTRFC Preliminary Suspected Overdose Deaths – Shelby County, TN 2020 – 2024, Shelby County Health Department, Office of Epidemiology

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# Shelby County Suspected Homicide Rates Per 100,000 by Decedent's Injury ZIP Code, 2024

**Top 5 ZIP Codes:**

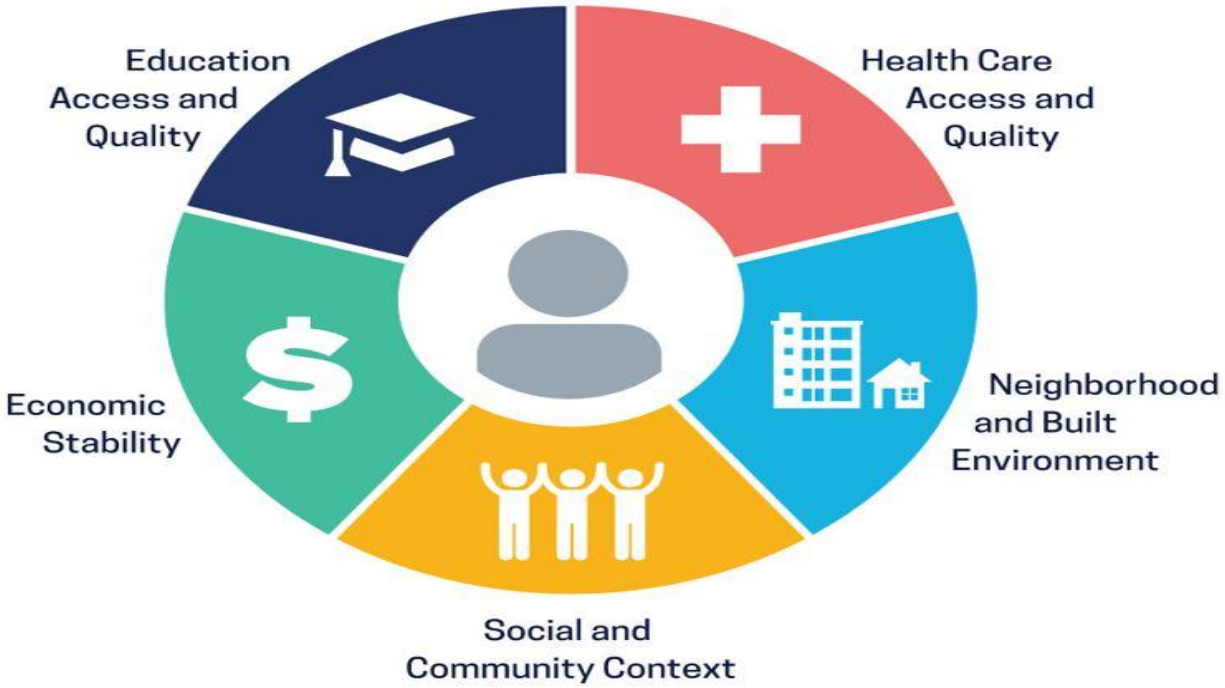
38114: **97.6**
38127: **76.2**
38118: **73.2**
38109: **73.0**
38107 + 38108: **54.9**




**Source**: (1) MDILog, West Tennessee Regional Forensic Center. Accessed November 2025. Data is not publicly accessible.; (2) ACS 2020 Decennial Census Data DP01, U.S. Census Bureau, Accessed November 2025. *Prepared by the Office of Epidemiology*

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# Social Determinants of Health




Source: U.S. Department of Health and Human Services, Healthy People 2030, Social Determinants of Health. https://health.gov/healthypeople/priority-areas/social-determinants-health. Prepared by Shelby County Health Department, Office of Epidemiology, 3/6/2024.

# Social Determinants, 2020-2024

| Location | 25+w/High School Diploma | 25+ w/ Bachelor's Degree or Higher | Median Household Income | Per Capita Income | People Living Below Poverty level | Home Ownership | Median Housing Unit Value |
|---|---|---|---|---|---|---|---|
| Shelby County | 90% | 34% | $63,767 | $39,083 | 18% | 49% | $249,100 |
| Memphis | 87% | 28% | $51,736 | $33,100 | 23% | 39% | $169,000 |
| Collierville | 96% | 63% | $138,598 | $62,842 | 3% | 76% | $485,900 |
| Germantown | 98% | 72% | $149,920 | $75,765 | 3% | 84% | $470,800 |

Source: U.S. Census Bureau. "Educational Attainment." *American Community Survey, ACS 1-Year Estimates Subject Tables, Table S1501*, https://data.census.gov/table/ACSST1Y2024.S1501?q=S1501:+Educational+Attainment&g=050XX00US47157. Accessed on 4 Mar 2026.

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# Shelby County Economic Indicators, 2020-2024

| Location | Children in Single-Parent Household | Youth not in School or Working | Families Living Below Poverty Level | Young Children Living Below Poverty Level | Children Living Below Poverty Level | People Living Below Poverty Level | People Living 200% Above Poverty Level |
|---|---|---|---|---|---|---|---|
| Memphis | 62.9% | 4.6% | 18.4% | 36.8% | 35.7% | 23.1% | 52.9% |
| Collierville | 11.8% | 0.3% | 2.3% | 3.6% | 3.0% | 3.2% | 91.2% |
| Germantown | 9.1% | 0.0% | 2.0% | 0.0% | 2.0% | 2.7% | 92.1% |

1. Memphis shows higher vulnerability across all poverty- and child-related indicators.
   - 36.8% of young children and 35.7% of all children live below the poverty level.
   - Nearly 1 in 4 people (23.1%) in Memphis live below poverty.

2. Collierville and Germantown have low rates of poverty and child vulnerability.
   - Poverty among families, young children, and children is low (0–3.6% range).
   - Overall poverty is under 4%.

3. There is a high concentration of need in Memphis.
   - Memphis has 4–20 times higher rates of poverty and child vulnerability than Collierville and Germantown.
   - Indicators highlight systemic inequity concentrated geographically.

**Data Source:** United States Census Bureau. American Community Survey. Data are from 2024 ACS 5-Year Estimates Prepared by Shelby County Health Department, Office of Epidemiology.

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# Social Determinants by ZIP Code, 2020-2024

| ZIP Code | Area Description | % Below Poverty | Median Household Income | Per Capita Income | 25+ w/ High School Diploma | 25+ w/ Bachelor's or Higher | Home Ownership | Median Housing Unit Value |
|---|---|---|---|---|---|---|---|---|
| **38126** | South Memphis[1] | 45% | $30,071 | $17,321 | 81% | 15% | 11% | $59,300 |
| **38106** | District 10[2] | 43% | $30,232 | $19,130 | 82% | 10% | 30% | $71,800 |
| **38114** | District 10[3] | 33% | $34,206 | $23,741 | 81% | 15% | 35% | $82,000 |
| **38116** | District 10[4] | 31% | $42,183 | $24,131 | 87% | 22% | 36% | $138,600 |
| **38118** | District 10[5] | 30% | $43,446 | $22,369 | 79% | 12% | 32% | $107,600 |
| **38111** | District 10[6] | 26% | $52,589 | $38,740 | 90% | 39% | 39% | $190,100 |
| **38139** | Germantown East | 2% | $178,661 | $85,385 | 99% | 75% | 95% | $575,500 |

The following are primary District 10 neighborhoods represented in the identified ZIP-code

1. New Pathways, Washington Heights, Gaston Park, Memphis, Foothomes
2. South Memphis, Bunker Hill, Alcy-Ball, Chandler Park, Shadowlawn
3. Orange Mound, Castalia Heights, Bethel Grove, Imogene Heights, Alcy-Ball, Hamilton, Cherokee
4. Gardenview, Whitehaven, Bluebird Estate
5. Oakhaven, Oakville
6. Orange Mound, Cherokee, Obrian Park, Audubon Park, Sherwood Forest

Source: U.S. Census Bureau. "Educational Attainment." *American Community Survey, ACS 1-Year Estimates Subject Tables, Table S1501*, https://data.census.gov/table/ACSST1Y2024.S1501?q=S1501:+Educational+Attainment&g=050XX00US47157. Accessed on 4 Mar 2026.

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# Social Determinants by ZIP Code, 2020-2024

| ZIP Code | Area Description | Children in Single-Parent Household | Youth not in School or Working | Families Living Below Poverty Level | Young Children Living Below Poverty Level | Children Living Below Poverty Level | People Living Below Poverty Level | People Living 200% Above Poverty Level |
|---|---|---|---|---|---|---|---|---|
| 38126 | South Memphis[1] | 93.6% | 0.0% | 45.5% | 72.4% | 72.1% | 52.4% | 26.0% |
| 38106 | District 10[2] | 69.6% | 3.3% | 33.4% | 67.6% | 29.5% | 43.0% | 32.4% |
| 38111 | District 10[3] | 38.3% | 3.5% | 17.0% | 35.0% | 16.9% | 26.1% | 53.0% |
| 38114 | District 10[4] | 66.4% | 8.9% | 28.5% | 62.8% | 32.3% | 33.0% | 42.7% |
| 38116 | District 10[5] | 57.9% | 7.3% | 27.7% | 49.6% | 23.5% | 31.1% | 46.4% |
| 38118 | District 10[6] | 56.5% | 9.7% | 23.7% | 52.0% | 24.6% | 30.2% | 40.6% |
| 38139 | Germantown East | 5.9% | 0.0% | 1.4% | 0.0% | 2.0% | 1.5% | 96.3% |

The following are primary District 10 neighborhoods represented in the identified ZIP-code

1. New Pathways, Washington Heights, Gaston Park, Memphis, Foothomes
2. South Memphis, Bunker Hill, Alcy-Ball, Chandler Park, Shadowlawn
3. Orange Mound, Castalia Heights, Bethel Grove, Imogene Heights, Alcy-Ball, Hamilton, Cherokee
4. Gardenview, Whitehaven, Bluebird Estate
5. Oakhaven, Oakville
6. Orange Mound, Cherokee, Obrian Park, Audubon Park, Sherwood Forest

Source: Healthy Shelby- https://www.healthiershelby.com/indicators/index/dashboard

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# Chronic Diseases

## Poorest vs. Wealthiest Zip Codes

### Dashboard 2023

| Location (Zip Code) | Adults with Cancer | Adults with Diabetes | Adults who experienced a Stroke | Adults who experienced Coronary Heart Disease | Adults with Kidney Disease (Previous Data 2018-2022) | Adults with COPD | Adults with Current Asthma |
|---|---|---|---|---|---|---|---|
| 38106 | 5.5% | 28.5% | 8.6% | 11.0% | 5.4% | 15.1% | 13.9% |
| 38126 | 4.4% | 24.3% | 7.2% | 8.9% | 4.9% | 13.8% | 14.6% |
| 38108 | 5.2% | 23.6% | 6.7% | 9.4% | 5.0% | 13.1% | 12.7% |
| 38127 | 5.0% | 22.6% | 6.3% | 8.3% | 3.9% | 12.6% | 14.1% |
| 38138 | 11.4% | 10.9% | 3.0% | 6.3% | 2.9% | 5.6% | 9.4% |
| 38139 | 7.4% | 10.1% | 2.5% | 5.2% | 2.4% | 4.7% | 9.3% |
| 38017 | 8.5% | 10.9% | 2.7% | 5.2% | 2.4% | 5.4% | 9.8% |

Source: Healthy Shelby- https://www.healthiershelby.com/indicators/index/dashboard

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# Health Indicators

## Poorest vs Wealthiest Zip Codes

### Dashboard 2023

| Location (Zip Code) | High Blood Pressure Prevalence | High Cholesterol Prevalence | Adults Who are Sedentary | Adults Who Smoke | Adults Who are Obese | Female Adults 65+ who received Recommended Preventive Services (Data from 2018-2022) | Male Adults 65+ who received Recommended Preventive Services (Data from 2018-2022) |
|---|---|---|---|---|---|---|---|
| 38106 | 58.8% | 41.6% | 44.4% | 28.6% | 51.6% | 25.4% | 22.6% |
| 38126 | 52.9% | 37.3% | 42.6% | 28.8% | 51.7% | 21.3% | 19.2% |
| 38108 | 50.4% | 39.8% | 42.6% | 27.2% | 48.3% | 24.1% | 22.5% |
| 38127 | 51.7% | 38.1% | 39.9% | 27.5% | 49.7% | 27.7% | 25.5% |
| 38138 | 37.2% | 41.9% | 16.2% | 9.0% | 27.8% | 44.5% | 44.7% |
| 38139 | 34.7% | 41.5% | 14.3% | 8.3% | 27.0% | 47.2% | 45.4% |
| 38017 | 34.9% | 39.1% | 17.7% | 11.0% | 29.7% | 43.7% | 43.6% |

Source: Healthy Shelby- https://www.healthiershelby.com/indicators/index/dashboard

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# Health & Economic Indicators

## Poorest vs Wealthiest Zip Codes

### Dashboard 2019-2023

| Location (Zip Code) | Adults Who Binge Drink | Adults Ever Diagnosed With Depression | Persons with a Disability | Adults without Health Insurance | Households Without A Vehicle |
|---|---|---|---|---|---|
| 38106 | 9.4% | 23.7% | 16.6% | 18.3% | 18.1% |
| 38126 | 10.2% | 26.5% | 18.3% | 18.5% | 26.8% |
| 38108 | 11.7% | 25.8% | 19.3% | 25.8% | 17.3% |
| 38127 | 11.0% | 26.4% | 19.7% | 17.6% | 12.5% |
| 38138 | 15.4% | 24.2% | 9.6% | 5.6% | 6.4% |
| 38139 | 16.3% | 24.1% | 6.0% | 4.6% | 1.5% |
| 38017 | 16.1% | 24.5% | 9.2% | 6.6% | 2.2% |

Source: Healthy Shelby-
https://www.healthiershelby.com/indicators/index/dashboard

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# Economic Indicators

## Poorest vs Wealthiest Zip Codes

### Dashboard 2019-2023

| Location (Zip Code) | 25+w/High School Diploma | 25+ w/ Bachelor's Degree or Higher | Median Household Income | Per Capita Income | People Living Below Poverty level | Home Ownership | Median Housing Unit Value |
|---|---|---|---|---|---|---|---|
| 38106 | 82.9% | 12.1% | $29,818 | $19,531 | 41.5% | 28.6% | $66,400 |
| 38126 | 81.8% | 13.8% | $30,825 | $17,835 | 45.3% | 12.9% | $59,000 |
| 38108 | 72.9% | 10.6% | $35,435 | $18,265 | 28.0% | 39.3% | $62,600 |
| 38127 | 83.4% | 11.4% | $37,768 | $19,156 | 34.7% | 36.9% | $82,500 |
| 38138 | 97.9% | 68.8 | $130,125 | $68,727 | 4.1% | 75.9% | $393,600 |
| 38139 | 99.1% | 73.8% | $174,052 | $82,478 | .9% | 95.0% | $540,600 |
| 38017 | 95.6% | 60.0% | $135,946 | $62,893 | 2.8% | 76.4% | $469,600 |

Source: Healthy Shelby- https://www.healthiershelby.com/indicators/index/dashboard

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# Economic Indicators

## Poorest vs Wealthiest Zip Codes

### Dashboard 2018-2022

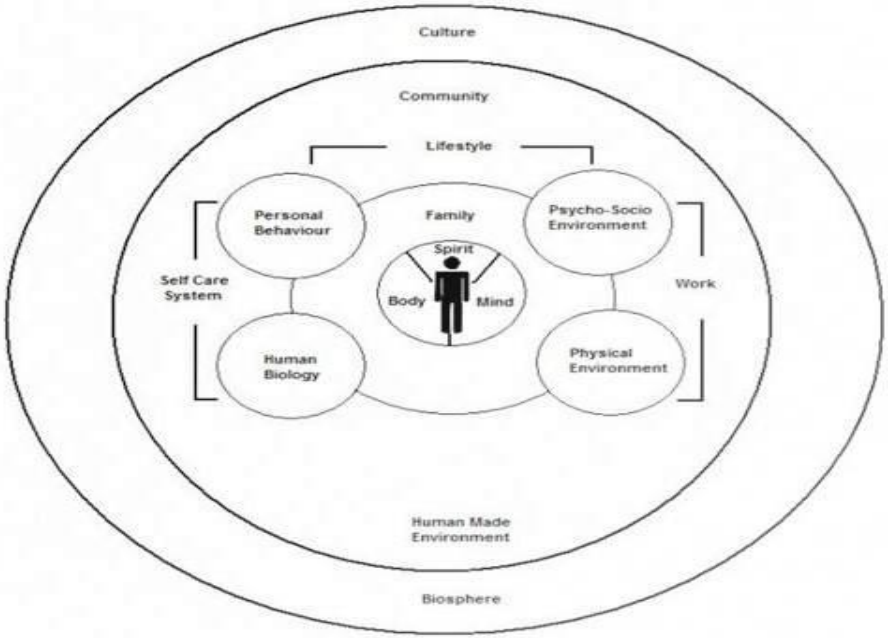
| Location (Zip Code) | Children in Single-Parent Household | Youth not in School or Working | Families Living Below Poverty Level | Young Children Living Below Poverty Level | Children Living Below Poverty Level | People Living Below Poverty Level | People Living 200% Above Poverty Level (Data from 2018-2022) |
|---|---|---|---|---|---|---|---|
| 38106 | 68.8% | 18.5% | 30.7% | 72.4% | 66.3% | 41.5% | 31.1% |
| 38126 | 93.8% | 0.0% | 38.0% | 66.7% | 57.9% | 45.3% | 26.0% |
| 38108 | 41.3% | 2.1% | 23.7% | 22.1% | 31.4% | 28.0% | 31.9% |
| 38127 | 72.4% | 7.8% | 28.0% | 60.8% | 51.7% | 34.7% | 36.5% |
| 38138 | 11.9% | 0.0% | 2.4% | 2.6% | 2.6% | 4.1% | 88.0% |
| 38139 | 3.9% | 0.0% | 0.2% | 0.0% | 0.6% | .9% | 94.5% |
| 38017 | 10.2% | 0.0% | 0.6% | 0.0% | 0.1% | 0.9% | 90.9% |

Source: Healthy Shelby- https://www.healthiershelby.com/indicators/index/dashboard

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# Definition of Health

**Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.**




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