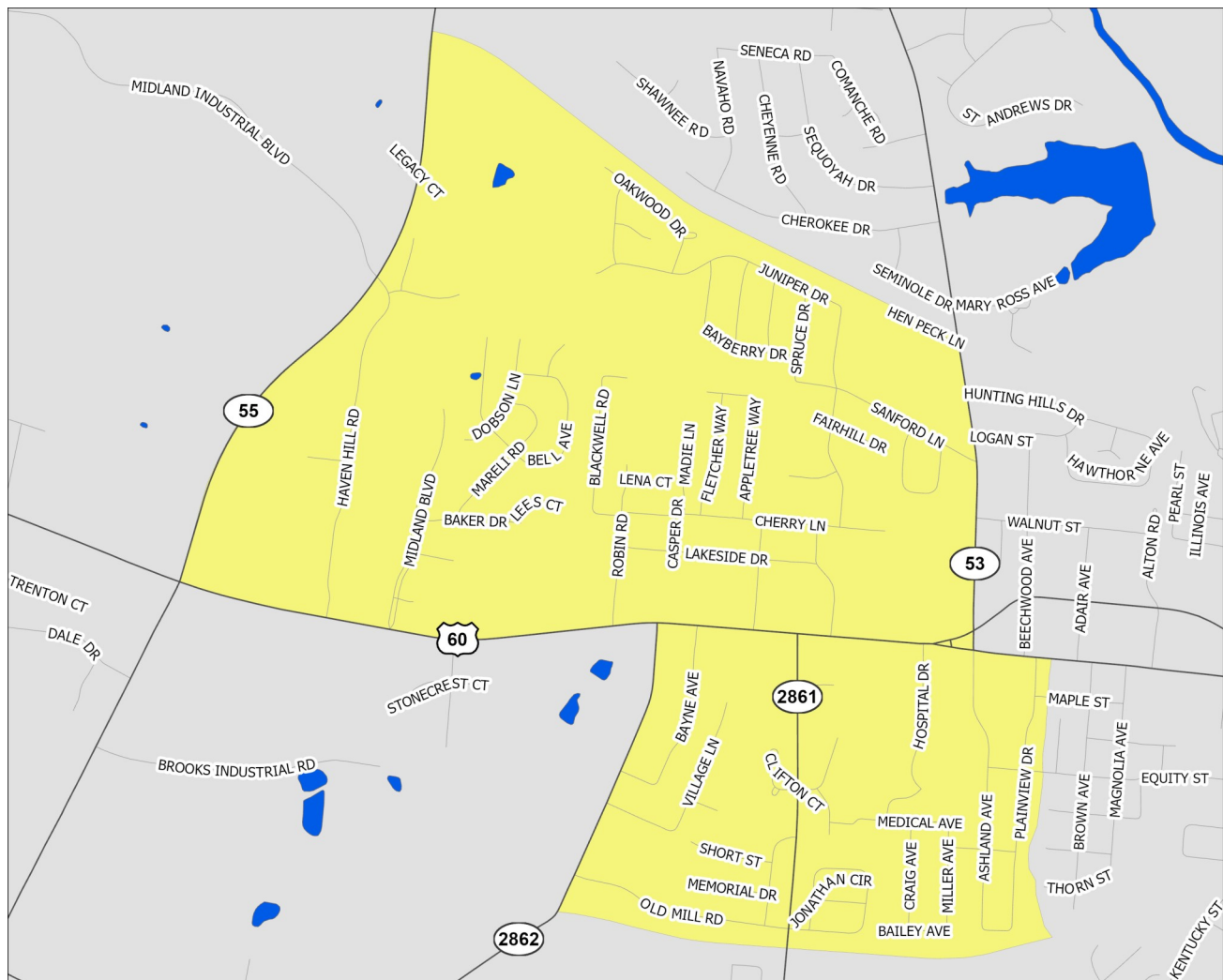
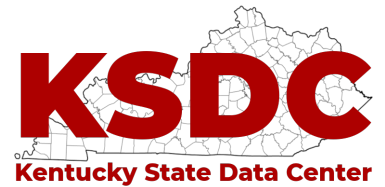


Shelbyville Downtown West NEIGHBORHOOD PROFILE

June 2022



A Partnership Between Metro
United Way and the Kentucky
State Data Center at the
University of Louisville



Scale = 1:12,130

Census Tract: 403.01

Shelby County, Kentucky

Shelbyville Downtown West

- Interstate Highways
- US/State Highways
- Local Streets
- Rivers-Lakes-Streams



This profile uses census tracts to approximate neighborhoods. Census tracts are statistical units used by the Census Bureau to enumerate data within small areas, and typically align well (but not perfectly) with traditional neighborhoods.

POPULATION CHARACTERISTICS

Age and Sex

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total population	4,652	—	48,100	1,262,287
Male	1,858	40%	49%	49%
Female	2,794	60%	51%	51%

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population under age 5	327	7%	6%	6%
Under age 3	256	6%	4%	4%
Age 3 and 4	71	2%	2%	2%
Population under age 18	959	21%	23%	22%
Age 5 to 14	457	10%	12%	13%
Age 15 to 17	175	4%	4%	4%
Population age 18 to 64	2,899	62%	61%	62%
Population age 65 and over	794	17%	16%	16%

Race, Ethnicity, and Nativity

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
White, non-Hispanic/Latino	2,925	63%	79%	75%
Black, non-Hispanic/Latino	715	15%	6%	15%
Asian, non-Hispanic/Latino	0	0%	1%	2%
Hispanic/Latino, of any race	896	19%	10%	5%
Multiple races, non-Hispanic/Latino	116	2%	3%	3%
Other, non-Hispanic/Latino	0	0%	1%	0%
Foreign born	313	7%	6%	6%

Veteran Status

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Civilian population 18 years and over	3,614	—	36,940	978,060
Veterans	160	4%	7%	8%

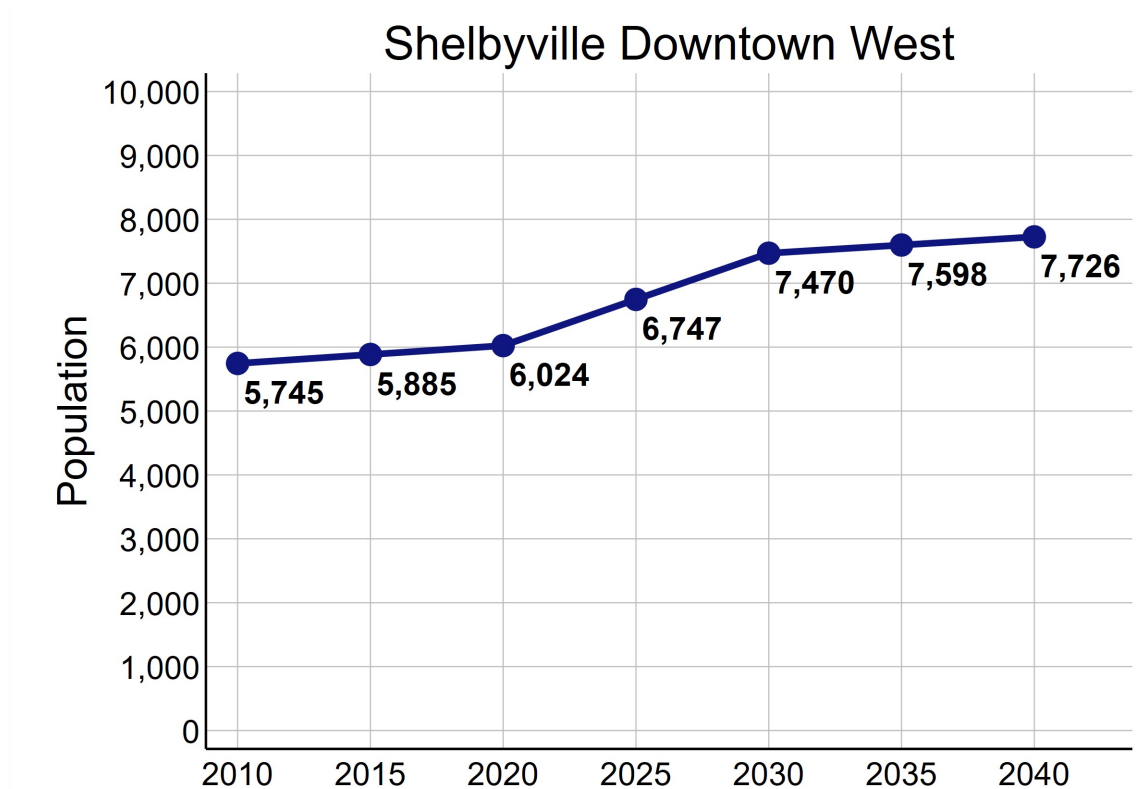
Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. Note: Percentages may not sum to 100 due to rounding.
MSA=Metropolitan Statistical Area

POPULATION CHARACTERISTICS

Households and Families

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total households	2,198	—	16,801	497,106
Married couple family households	705	32%	59%	46%
w/related children	294	13%	25%	18%
Male householder family households	52	2%	4%	5%
w/related children	21	1%	2%	3%
Female householder family households	366	17%	9%	13%
w/related children	343	16%	7%	8%
Non-family households	1,075	49%	27%	37%
Single person households	975	44%	22%	31%
Population in group quarters	62	1%	3%	2%

Population Projections



Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. STATS Indiana, Kentucky State Data Center 2022 Population Projections. Note: Percentages may not sum to 100 due to rounding.

ECONOMIC CHARACTERISTICS

Income

	SDW	County	MSA
Median household income (in 2020 dollars)	\$32,643	\$72,564	\$60,891
Median earnings for full-time male workers	\$36,317	\$53,138	\$52,300
Median earnings for full-time female workers	\$22,500	\$27,973	\$31,196
Gini coefficient	0.50	0.45	0.46

SNAP Benefits

	SDW	County	MSA
	Estimate	Percent	Percent
Households receiving SNAP Benefits	428	19%	9%
Households with public assistance (PA) income	19	1%	2%
Households receiving either SNAP or PA	428	19%	10%

Vehicles Available

	SDW	County	MSA
	Estimate	Percent	Percent
Households with no vehicle	123	6%	7%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey.

ECONOMIC CHARACTERISTICS

Poverty Status of Individuals

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total population below federal poverty line (FPL)	941	20%	10%	12%
Population under 18 years below FPL	155	16%	13%	17%
Population under 6 years below FPL	67	17%	10%	19%
Population age 6 to 11 below FPL	35	15%	12%	18%
Population age 12 to 17 below FPL	53	16%	17%	16%
Population age 18 to 64 below FPL	678	23%	9%	11%
Population age 65 and over below FPL	108	15%	6%	8%
Total population below 150% of the FPL	2,003	44%	19%	20%
Population under 18 years below 150% of the FPL	456	48%	26%	29%
Population under 6 years below 150% of the FPL	178	45%	24%	32%
Population age 6 to 11 below 150% of the FPL	35	15%	27%	30%
Population age 12 to 17 below 150% of the FPL	243	73%	27%	24%
Population age 18 to 64 below 150% of the FPL	1,289	45%	17%	18%
Population age 65 and over below 150% of the FPL	258	35%	14%	16%
Total population below 185% of the FPL	2,590	56%	27%	26%
Population under 18 years below 185% of the FPL	659	69%	38%	35%
Population under 6 years below 185% of the FPL	310	79%	38%	40%
Population age 6 to 11 below 185% of the FPL	91	39%	39%	37%
Population age 12 to 17 below 185% of the FPL	258	77%	36%	30%
Population age 18 to 64 below 185% of the FPL	1,668	58%	25%	23%
Population age 65 and over below 185% of the FPL	263	35%	20%	22%
Total population below 200% of the FPL	2,789	61%	29%	28%
Population under 18 years below 200% of the FPL	737	77%	43%	38%
Population under 6 years below 200% of the FPL	342	87%	42%	42%
Population age 6 to 11 below 200% of the FPL	137	59%	50%	39%
Population age 12 to 17 below 200% of the FPL	258	77%	38%	33%
Population age 18 to 64 below 200% of the FPL	1,789	62%	26%	25%
Population age 65 and over below 200% of the FPL	263	35%	22%	25%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey.

ECONOMIC CHARACTERISTICS

Poverty Status

Poverty status is determined by comparing a family's income to defined income thresholds that vary by family size and composition. If a family's total income is less than the established threshold for a family of that size, then that family and every individual in it is considered in poverty. The official poverty thresholds do not vary geographically, but they are updated for inflation annually. The official poverty definition uses money income before taxes and does not include capital gains or non-cash benefits (such as public housing, Medicaid, and food stamps).

The 2022 Poverty Guidelines as established by the U.S. Department of Health and Human Services:

Number of persons in household	Poverty guideline
1	\$13,590
2	\$18,310
3	\$23,030
4	\$27,750
5	\$32,470
6	\$37,190
7	\$41,910
8	\$46,630

Poverty Status of Families

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Families	1,123	—	12,203	314,935
Families below federal poverty line (FPL)	154	14%	6%	8%
Families below 150% of the FPL	342	30%	13%	15%
Families below 185% of the FPL	541	48%	20%	20%
Families below 200% of the FPL	576	51%	22%	22%
Families with related children	658	59%	47%	47%
Families with related children below FPL	134	12%	5%	6%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey.

ECONOMIC CHARACTERISTICS

An **unemployed** person is someone who does not have a job, but is actively looking for a job and is available for work. The unemployment rate is calculated as the number of unemployed persons in an age group divided by the sum of the number of employed and unemployed persons in that age group.

A person who is **not in the labor force** is someone who does not have a job, and is not looking for one. This includes students, retirees, those taking care of children or other family members, and others who are neither working nor seeking work. The rate of labor force participation is calculated as the number of persons not in the labor force in an age group divided by the population in that age group.

Labor Force Status

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Age 16-19—Unemployed	0	0%	15%	13%
Age 20-21—Unemployed	12	9%	7%	9%
Age 22-24—Unemployed	79	55%	8%	9%
Age 25-64—Unemployed	104	7%	3%	4%
Age 65 and over—Unemployed	0	0%	1%	3%
Total unemployed, age 16 and over	195	9%	4%	5%

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Age 16-19—Not in the labor force	113	48%	55%	53%
Age 20-21—Not in the labor force	65	33%	29%	23%
Age 22-24—Not in the labor force	0	0%	15%	17%
Age 25-64—Not in the labor force	802	33%	21%	21%
Age 65 and over—Not in the labor force	691	87%	78%	80%
Total not in the labor force, age 16 and over	1,671	44%	35%	35%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey.

ECONOMIC CHARACTERISTICS

Class of Worker

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Private company/organization	1,580	84%	71%	74%
Nonprofit company/organization	109	6%	5%	8%
Local government	53	3%	5%	5%
State government	11	1%	6%	4%
Federal government	0	0%	1%	2%
Self-employed or unpaid family worker	118	6%	11%	8%

Weeks and Hours Usually Worked

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Works 48-52 weeks/year, 35 or more hours/week	1,232	58%	67%	69%
Works 48-52 weeks/year, less than 35 hours/week	209	10%	10%	11%
Works 0-47 weeks/year, 35 or more hours/week	272	13%	12%	10%
Works 0-47 weeks/year, less than 35 hours/week	395	19%	11%	11%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. Note: Percentages may not sum to 100 due to rounding.

ECONOMIC CHARACTERISTICS

Journey to Work

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Drives alone in car	1,414	75%	85%	86%
Bus	0	0%	1%	2%
Bike	0	0%	0%	0%
Walk	0	0%	1%	2%
All other modes	482	25%	12%	10%

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Commutes less than 10 minutes	237	13%	11%	10%
Commutes 10-19 minutes	746	39%	27%	30%
Commutes 20-29 minutes	193	10%	18%	28%
Commutes 30-44 minutes	381	20%	26%	23%
Commutes 45-59 minutes	279	15%	11%	6%
Commutes 60 or more minutes	60	3%	6%	4%

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Works at home	0	0%	7%	7%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. Note: Except for "Works at Home", estimates limited to population who commute. Percentages may not sum to 100 due to rounding.

ECONOMIC CHARACTERISTICS

“Place of Work” identifies jobs located within the neighborhood and held by workers from **inside or outside** of the neighborhood. “Home Neighborhood of Worker” identifies jobs held by neighborhood residents, which may be located **inside or outside** of the neighborhood. The workplace is based on the administrative address, and may or may not be the location that a worker reports to most often.

Jobs by Place of Work (2019)

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total full and part-time jobs	1,059	—	15,996	653,432
Agriculture and mining	0	0%	1%	0%
Construction	34	3%	4%	4%
Manufacturing	0	0%	24%	13%
Trade	208	20%	21%	15%
Transportation, warehousing, and utilities	7	1%	3%	9%
Finance, insurance, information, and real estate	61	6%	4%	9%
Professional services	17	2%	4%	5%
Management and administration	190	18%	6%	8%
Education	7	1%	9%	7%
Health care	303	29%	7%	13%
Entertainment, arts, and recreation	39	4%	1%	2%
Accommodations and food service	157	15%	9%	9%
Other services	31	3%	4%	3%
Public administration	5	1%	4%	3%

Jobs by Home Neighborhood of Worker (2019)

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total full and part-time jobs	2,648	—	22,086	613,518
Agriculture and mining	15	1%	1%	0%
Construction	127	5%	4%	4%
Manufacturing	547	21%	16%	13%
Trade	428	16%	17%	15%
Transportation, warehousing, and utilities	127	5%	5%	8%
Finance, insurance, information, and real estate	132	5%	8%	8%
Professional services	82	3%	5%	5%
Management and administration	262	10%	7%	8%
Education	131	5%	8%	8%
Health care	282	11%	11%	13%
Entertainment, arts, and recreation	37	1%	1%	2%
Accommodations and food service	311	12%	9%	9%
Other services	91	3%	3%	3%
Public administration	76	3%	6%	3%

Data Source: U.S. Census Bureau, Longitudinal Employer-Household Dynamics Origin-Destination Employment Statistics (LODES). Note: Percentages may not sum to 100 due to rounding.

EDUCATION CHARACTERISTICS

School Enrollment

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population age 3 and 4	71	—	1,178	31,544
Population age 3 and 4, enrolled in school	19	27%	40%	42%
Enrolled in Public school	0	0%	15%	20%
Population age 5 to 14	457	—	6,011	158,051
Population age 5 to 14, enrolled in school	429	94%	96%	96%
Enrolled in Public school	414	91%	80%	79%
Population age 15 to 17	175	—	1,948	48,770
Population age 15 to 17, enrolled in school	175	100%	97%	97%
Enrolled in Public school	175	100%	86%	79%
Population age 18 to 24	454	—	4,053	105,506
Population age 18 to 24, enrolled in school	93	20%	37%	43%

English Proficiency

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population age 3+ speaking Spanish	554	13%	7%	4%
w/limited English proficiency	329	8%	3%	2%
Population age 3+ speaking Asian/PI language	0	0%	0%	1%
w/limited English proficiency	0	0%	0%	1%
Population age 3+ speaking Arabic	0	0%	0%	0%
w/limited English proficiency	0	0%	0%	0%
Population age 3+ speaking other language	0	0%	1%	2%
w/limited English proficiency	0	0%	1%	1%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey.

EDUCATION CHARACTERISTICS

Educational Attainment

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population age 18 to 24	454	—	4,053	105,506
Less than 9th grade education	0	0%	0%	1%
9th thru 12th grade education	22	5%	11%	11%
High school graduate/GED	291	64%	42%	36%
Some college, no degree	107	24%	34%	36%
Associate degree	0	0%	2%	4%
Bachelor's degree	34	7%	10%	11%
Graduate or professional degree	0	0%	1%	1%

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population age 25 and over	3,239	—	33,047	873,573
Less than 9th grade education	567	18%	5%	3%
9th thru 12th grade education	403	12%	8%	7%
High school graduate/GED	1,007	31%	29%	29%
Some college, no degree	727	22%	21%	22%
Associate degree	116	4%	9%	9%
Bachelor's degree	293	9%	17%	18%
Graduate or professional degree	126	4%	11%	12%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey, Note: Percentages may not sum to 100 due to rounding.

EDUCATION CHARACTERISTICS

Field of Degree of Bachelor's Degree Holders

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total degrees	424	—	9,894	282,998
Science and engineering				
Computers, mathematics, and statistics	0	0%	3%	4%
Biological, agricultural, environmental sciences	0	0%	5%	5%
Physical and related sciences	0	0%	4%	3%
Psychology	45	11%	6%	5%
Social sciences	20	5%	4%	7%
Engineering	0	0%	7%	6%
Multidisciplinary studies	0	0%	1%	1%
Science and engineering related fields	16	4%	11%	11%
Business	16	4%	24%	21%
Education	104	25%	13%	12%
Arts, humanities, and other				
Literature and languages	5	1%	2%	4%
Liberal arts and history	63	15%	8%	6%
Visual and performing arts	18	4%	1%	4%
Communications	55	13%	5%	5%
Other	82	19%	7%	6%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. Note: Percentages may not sum to 100 due to rounding.

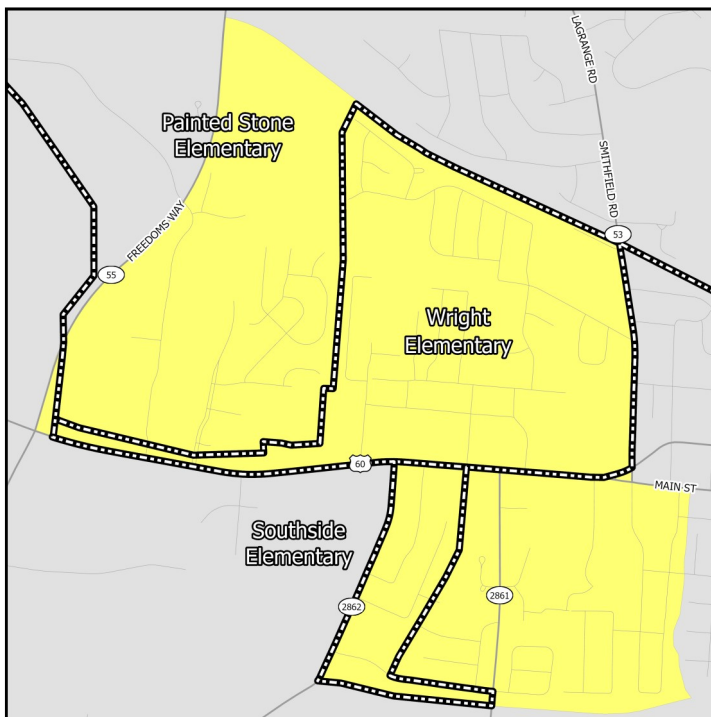
EDUCATION CHARACTERISTICS

Shelby County Public Schools

Shelbyville Downtown West neighborhood is highlighted in yellow. Thick dashed lines represent school catchment area boundaries.

Nearby Schools in Jefferson County

Jefferson County Public Schools students are assigned to a “resides” (home) school, and for elementary students a cluster, based on their home address. Students may attend their resides school, other schools within the cluster, or apply for traditional and magnet schools within the district. There are also alternative schools serving particular segments of the population. The maps on this page



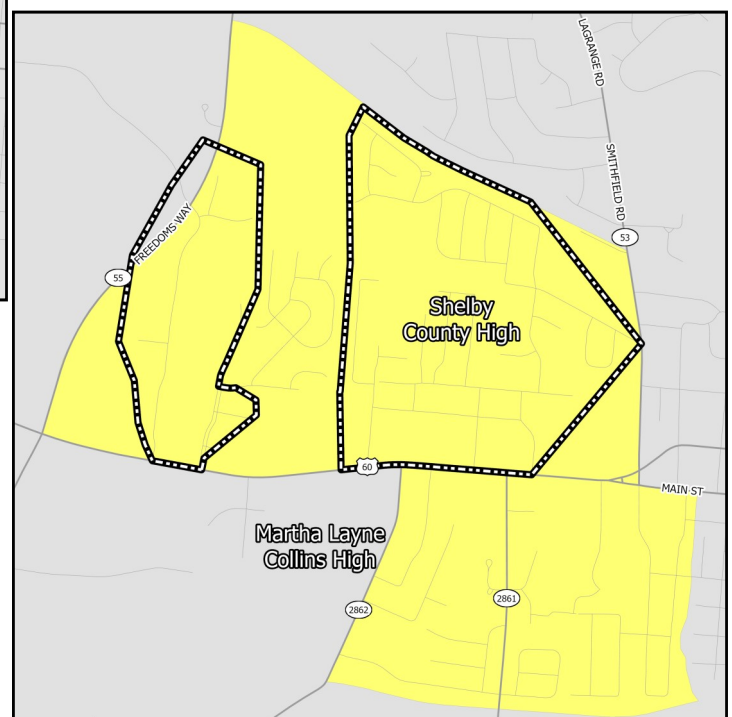
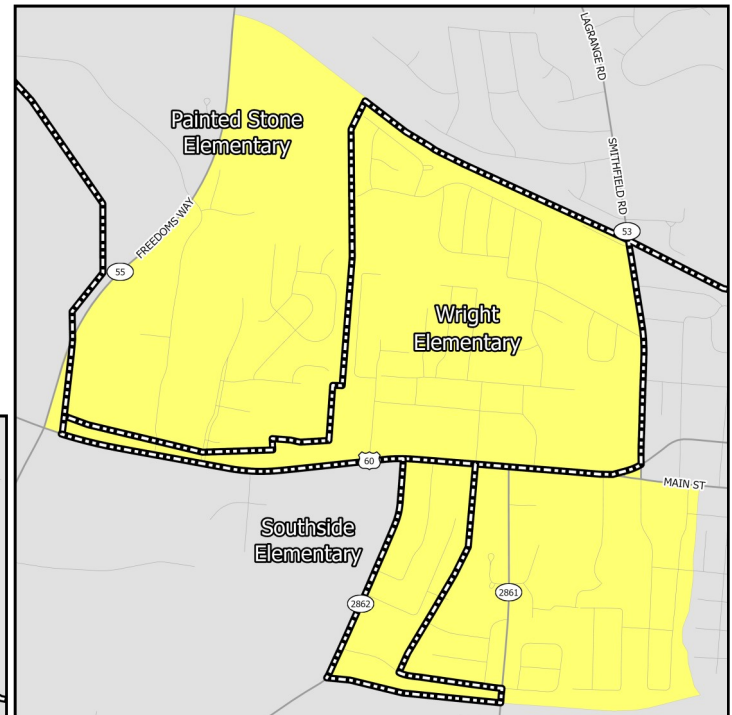
Elementary Schools

Middle Schools

show only the “resides” schools for students within a particular neighborhood. Additional information on JCPSS student assignment – which has recently been revised – can be found on their website.

Nearby Schools in Indiana

Indiana schools have open enrollment policies that allow for intra-district and inter-district transfers. The maps on this page show only the schools assigned to a student within a particular neighborhood based on their home address. Additional information on open enrollment policies can be obtained from individual district offices.



High Schools

EDUCATION CHARACTERISTICS

Shelby County Public Schools

Schools Serving Neighborhood	Level	Cluster	Enrollment	Non-White	Free Lunch Eligible	Student/Teacher	KDE/IDOE Grade
Painted Stone	Elementary	—	499	49.3%	53.7%	13.8	2
Simpsonville	Elementary	—	479	24.4%	37.3%	15.3	3
Southside	Elementary	—	451	45.7%	62.0%	14.6	2
Wright	Elementary	—	461	34.5%	51.1%	15.1	3
Shelby County East	Middle	—	610	26.6%	50.5%	17.7	3
Shelby County West	Middle	—	676	47.8%	57.4%	15.6	2
Martha Layne Col-	High	—	1,298	37.0%	40.9%	19.1	3
Shelby County	High	—	1,025	32.1%	49.8%	18.2	2

Data Source: National Center for Education Statistics, Kentucky Department of Education (KDE), Indiana Department of Education (IDOE), Jefferson County Public Schools, 2020-2021 Academic Year. Note: KDE grade is the number of stars — out of 5 — that the Kentucky school or district received on the most recent (2018-2019) school accountability report. IDOE grade is the A-F grade that the Indiana school or district received on the most recent (2018-2019) school accountability report.

EDUCATION CHARACTERISTICS

Shelby County Public Schools

Schools Serving Neighborhood	Level	Reading Proficiency	Math Proficiency	KG Ready	Graduation Rate	College Transition
Painted Stone	Elementary	44.2%	43.4%	45.6%	—	—
Simpsonville	Elementary	52.3%	56.1%	32.5%	—	—
Southside	Elementary	31.5%	19.8%	49.4%	—	—
Wright	Elementary	38.1%	34.5%	44.2%	—	—
Shelby County East	Middle	53.3%	36.6%	—	—	—
Shelby County West	Middle	53.0%	35.3%	—	—	—
Martha Layne Collins	High	42.0%	27.0%	—	92.4%	77.5%
Shelby County	High	40.5%	23.9%	—	90.3%	65.5%

Data Source: Kentucky Department of Education, Indiana Department of Education, 2018-2019 Academic Year. Note: KG=Kindergarten.

HOUSING CHARACTERISTICS

Housing Units

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Total housing units	2,387	—	18,134	547,307
Occupied housing units	2,198	92%	93%	91%
Owner occupied	869	40%	71%	67%
Renter occupied	1,329	60%	29%	33%
Vacant housing units	189	8%	7%	9%

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Single-family housing units	1,495	63%	83%	73%
Multi-family housing units	892	37%	14%	23%
2-4 unit structures	555	23%	7%	8%
5-9 unit structures	190	8%	3%	6%
10+ unit structures	147	6%	4%	10%
Other housing units	0	0%	3%	3%

Home Value/Rent

	SDW	County	MSA
Median reported value of owner occupied housing units	\$112,500	\$202,000	\$177,400
Median gross rent of renter occupied housing units	\$720	\$833	\$882
Median contract rent of renter occupied housing units	\$579	\$642	\$719

Internet Access

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Households w/internet access of any type	1,797	82%	89%	87%
Households w/any broadband internet access	1,754	80%	88%	85%
Households w/cell phone internet access only	324	15%	15%	12%
Households w/no internet access	401	18%	11%	13%

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. Note: Percentages may not sum to 100 due to rounding. **Contract rent** is the amount indicated on the lease. **Gross rent** includes the estimated monthly cost of utilities that are paid by the tenant.

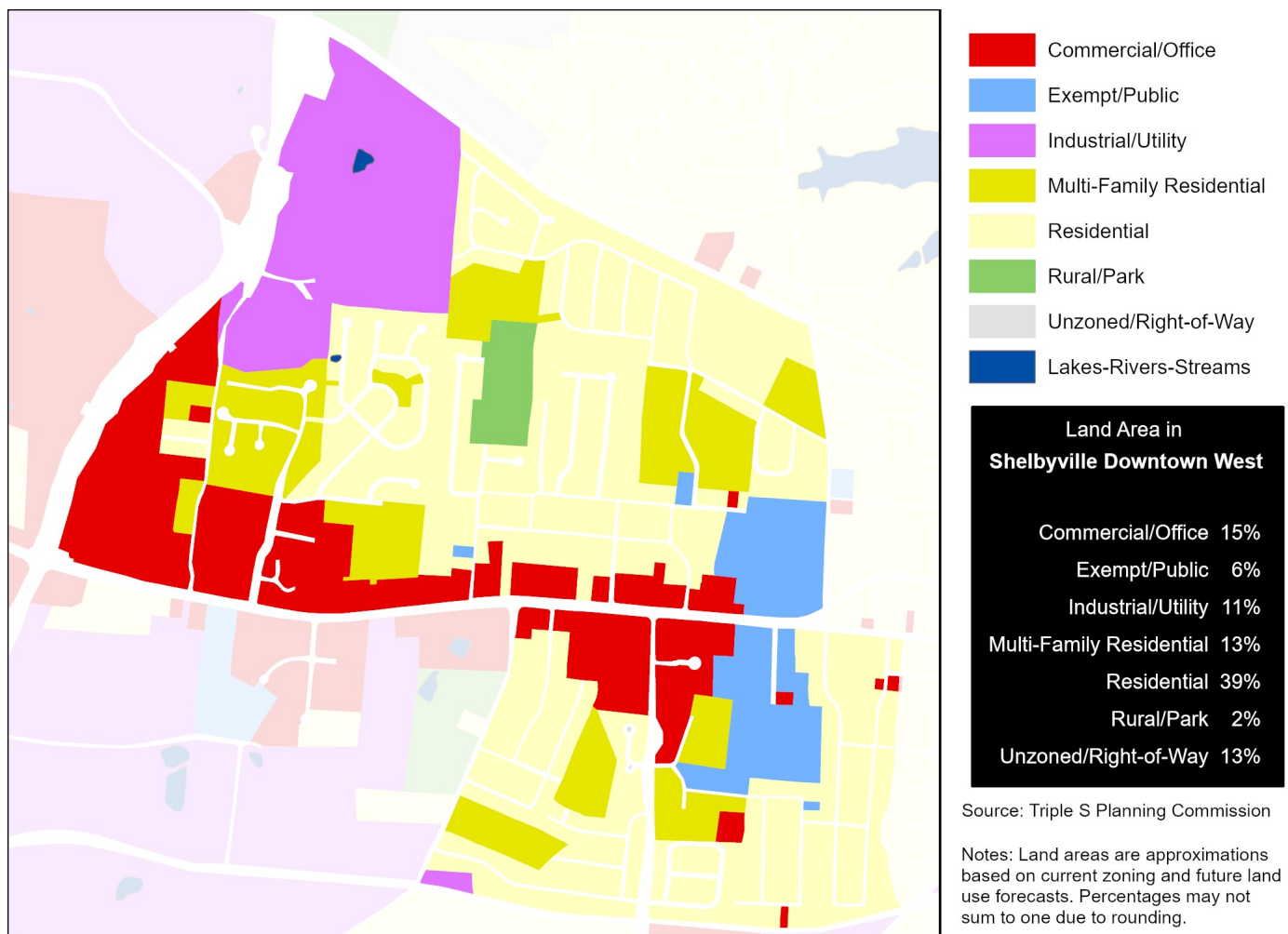
HOUSING CHARACTERISTICS

Housing Cost Burden

According to the U.S. Department of Housing and Urban Development, households that spend more than 30% of their income on housing are considered cost burdened and may have difficulty affording necessities such as food, transportation, and medical care.

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Renters paying 30%+ income on housing	666	54%	38%	43%
Owners paying 30%+ income on housing (mortgage)	252	43%	23%	20%
Owners paying 30%+ income on housing (no mortgage)	37	13%	12%	10%

Land Use



Data Source (Housing Cost): U.S. Census Bureau, 2016-2020 American Community Survey.

HEALTH CHARACTERISTICS

Health Insurance Coverage

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population under 6 years without health insurance	0	0%	5%	3%
Population under 18 years without health insurance	0	0%	4%	3%
Total population without health insurance	400	9%	7%	5%

Disability Status

	SDW		County	MSA
	Estimate	Percent	Percent	Percent
Population with a disability	821	18%	13%	14%

Food Access

	SDW	Shelby County
Population who are low income and do not live close to a grocery store	388	388
Census tracts designated a food desert	0	0

Crime (2019)

	SDW	County	MSA
Violent crimes	—	292	16,031
Violent crimes per 100,000 population	—	594	1,262
Property crimes	—	619	34,867
Property crimes per 100,000 population	—	1,259	2,744

Neighborhood crime includes only incidents reported to Louisville Metro Police Department — it does not include incidents reported to other local agencies. County and MSA crime includes incidents reported to all agencies.

Data Source: U.S. Census Bureau, 2016-2020 American Community Survey. ESRI Business Analyst. FBI, Uniform Crime Reports. Louisville Metro Police Department. Note: Population who are low income is defined as living at or below 200 percent of the federal poverty line. Within an urban area, not living close to a grocery store is defined as living further than one mile from a full service grocery store. Food deserts are defined at the census tract level, when the tract is considered low income and low access. A tract is considered low income if the tract's poverty rate is 20% or greater, or if the tract has a median family income less than or equal to 80% of the metropolitan area's median family income. A census tract is considered to have low access if a significant number (at least 500 people) and share (at least 33%) of individuals in the tract are greater than one mile from the nearest grocery store.

HEALTH CHARACTERISTICS

Fertility Measures

	SDW	County	MSA
Births to mothers who smoked during pregnancy	13%	14%	10%
Births to mothers without a high school degree	29%	15%	—
Births to unmarried mothers	56%	40%	47%
Low birthweight births (<2,500 grams)	11%	9%	9%
Teen birth rate per 1,000 women age 15-19	33	21.0	22.6

Mortality Measures

	SDW	County	MSA
Years of potential life lost (age 75) per 100,000	10,263	6,494	8,186

Health Behaviors

	SDW	County	MSA
Population 18+ currently smokes	27%	21%	17%
Population 18+ obese	42%	37%	34%
Population 18+ binge drinking	14%	15%	16%
Population 18+ reporting 'fair' or 'poor' health	18%	15%	17%

Health Outcomes

	SDW	County	MSA
Population 18+ reports having/had asthma	11%	10%	15%
Population 18+ reports having/had cancer	6%	7%	10%
Population 18+ reports having/had CHD	7%	7%	8%
Population 18+ reports having/had COPD	10%	9%	10%
Population 18+ reports having/had depression	26%	24%	23%
Population 18+ reports having/had diabetes	14%	12%	11%
Population 18+ reports having/had stroke	4%	4%	5%

Data Source: Vital Stats: Kentucky Cabinet for Health and Family Services Department of Public Health, Indiana Department of Health, 2015-2019. Health Behaviors and Health Outcomes: Centers for Disease Control, Behavioral Risk Factor Surveillance System, 2019. Note: CHD=coronary heart disease, COPD=chronic obstructive pulmonary disease.