2016

DRIVE YOUR COUNTY TO THE
TOP TEN

INFORMING • CONNECTING • ACCELERATING
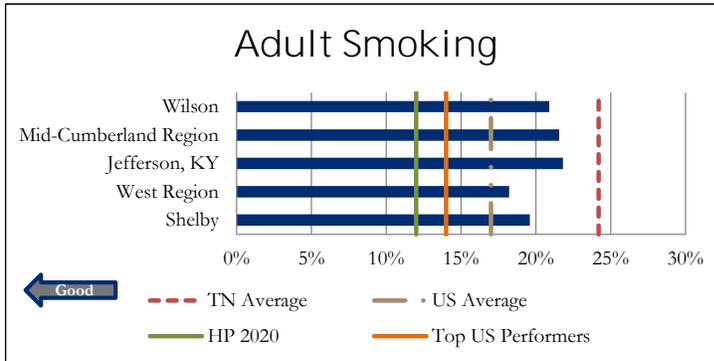
Shelby County

TN Department of
Health
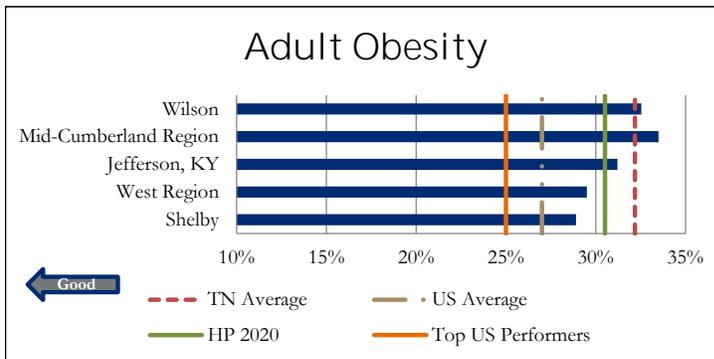
Demographics

Population:	938,803	**<18 YOA:**	25.50%	**65+ YOA:**	11.62%	**% Rural:** 2.80%
Unemployment:	7.85%	**% Females:**	52.40%	**% Males:**	47.60%	**Graduation Rate:** 73.97%
Single parent households:	50.34%	**MHI:**	$44,015			

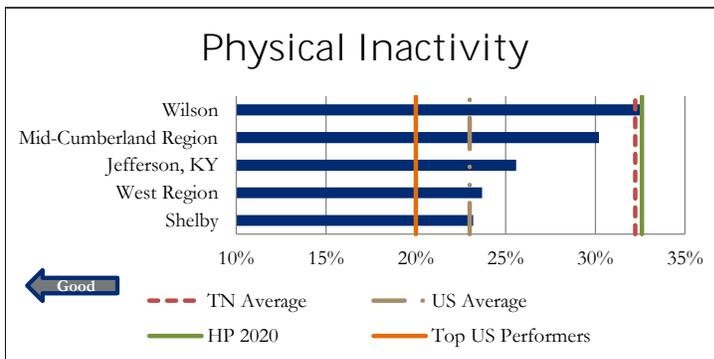## Adult Smoking

Wilson
Mid-Cumberland Region
Jefferson, KY
West Region
Shelby

0% 5% 10% 15% 20% 25% 30%

Good

- - - TN Average   ····· US Average
——— HP 2020   ——— Top US Performers

Adult Obesity

Wilson
Mid-Cumberland Region
Jefferson, KY
West Region
Shelby

10% 15% 20% 25% 30% 35%

Good

- - - TN Average   ····· US Average
——— HP 2020   ——— Top US Performers

Physical Inactivity

Wilson
Mid-Cumberland Region
Jefferson, KY
West Region
Shelby

10% 15% 20% 25% 30% 35%

Good

- - - TN Average   ····· US Average
——— HP 2020   ——— Top US Performers

Top Third

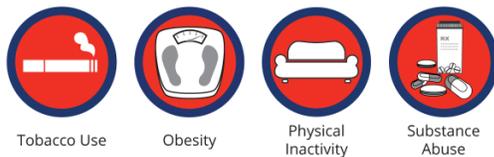| Measure	Value
Air Pollution - Particulate Matter	12.83
Access to Exercise Opportunities	90.07%
Poor Physical Health Days	4.30
Poor Mental Health Days	4.40
Alcohol-Impaired Driving Deaths	16.32%
Dentists	1497:1
Preventable Hosptial Stays	47.91
Adult Smoking	20.90%
Primary Care Physicians	1266:1
Physical Inactivity	30.20%

Middle Third

Measure	Value
Premature Death	9278.50
Mammography Screening	61.00%
Poor or Fair Health	22.30%
Unemployment	7.85%
Adult Obesity	33.50%
Uninsured	17.41%

Bottom Third

Measure	Value
Violent Crime	1,235.83
Severe Housing Problems	21.79%
Sexually Transmitted Infections	900.44
High School Graduation	73.97%
Low Birthweight	11.25%
Children in Single-Parent Households	50.34%
Food Environment Index	5.50
Income Inequality	5.44
Children in Poverty	34.50%
Diabetic Monitoring	84.31%

Tobacco Use   Obesity   Physical Inactivity   Substance Abuse

Tennessee's Big 3 + 1

Why were these charts selected? The "Big 3 + 1" directly influences at least six of the top ten leading causes of death in Tennessee, and also directly influence other public health threats, such as heart disease, cancer, and diabetes. Overall, the Big Three plus One influences two-thirds of the factors that contribute to Tennessee's overall rank.

Comparative Counties:

Each graph provides the Tennessee county with its respective region and three non-Tennessee comparative counties from around the US based on county-level demographics. The vertical lines represent: the TN Average, the US Average, Top US Performers (top 10%) and the Healthy People 2020 (HP) Goal. For all measures a decrease (shift left) in percentage represents improvement.

YOA: Years of Age. MHI: Median Household Income. HP 2020: Healthy People 2020 Goal. Adult Smoking: Percentage of adults who are current smokers. Source: Behavioral Risk Factor Surveillance System; 2006-2012. Adult Obesity: Percentage of adults that report a BMI of 30 or more. Source: CDC Diabetes Interactive Atlas; 2011. Physical Inactivity: Percentage of adults aged 20 and over reporting no leisure-time physical activity. Source: CDC Diabetes Interactive Atlas; 2011. Prepared by the Division of Administrative Services, Tennessee Department of Health. Nashville, TN. admin.health@tn.gov or 615-741-5001.

Health Outcomes

Length of Life

Premature Death

Years of potential life lost before age 75 per 100,000 population (age-adjusted)

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	36	Knox	9278.50	7735.80	1542.70	↑Bad ↓Good	6,600.00	Hamilton, OH	8203.30
For every 100 people in the county, 1 people in the county need to live one year closer to age 75.								Duval, FL	8714.30
Source	National Center for Health Statistics - Mortality files				Year(s)	2011-2013		Jefferson, KY	8714.00

Quality of Life

Poor or Fair Health*

Percentage of adults reporting fair or poor health (age-adjusted)

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	46	Rutherford	22.30%	19.60%	2.70%	↑Bad ↓Good	18.00%	Hamilton, OH	15.50%
Improve the health of 3 out of every 100 people in the county who, in general, report being in poor or fair health.								Duval, FL	16.60%
Source	Behavioral Risk Factor Surveillance System				Year(s)	2014		Jefferson, KY	18.40%

Poor Physical Health Days*

Average number of physically unhealthy days reported in past 30 days (age-adjusted)

	Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	5	Williamson	4.30	3.40	0.90	↑Bad ↓Good	3.8	Hamilton, OH	3.70
Engage people in the county on ways to reduce number of poor physical health days reported by residents by 1 days per month.								Duval, FL	3.70
Source	Behavioral Risk Factor Surveillance System				Year(s)	2014		Jefferson, KY	3.90

Poor Mental Health Days*

Average number of mentally unhealthy days reported in past 30 days (age-adjusted)

	Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	6	Williamson	4.40	3.80	0.60	↑Bad ↓Good	2.8	Hamilton, OH	4.00
Engage people in the county on ways to reduce number of poor physical health days reported by residents by 1 days per month.								Duval, FL	4.10
Source	Behavioral Risk Factor Surveillance System				Year(s)	2014		Jefferson, KY	3.70

Low Birthweight

Percentage of live births with low birthweight (< 2500 grams)

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	92	Pickett	11.25%	7.24%	4.01%	↑Bad ↓Good	8.00%	Hamilton, OH	9.95%
Reduce the number of low birth weight babies by 5 for every 100 live births.								Duval, FL	9.42%
Source	National Center for Health Statistics - Natality files				Year(s)	2007-2013		Jefferson, KY	9.22%

Health Factors

Health Behaviors

Adult Smoking*

Percentage of adults who are current smokers

	Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	8	Williamson	20.90%	16.20%	4.70%	↑Bad ↓Good	17.00%	Hamilton, OH	19.60%
Get 23 out of every 100 current adult smokers in the county to quit smoking.								Duval, FL	18.20%
Source	Behavioral Risk Factor Surveillance System				Year(s)	2014		Jefferson, KY	21.80%

Adult Obesity

Percentage of adults that report a BMI of 30 or more

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	57	Hamilton	33.50%	29.90%	3.60%	↑Bad ↓Good	27.00%	Hamilton, OH	28.90%
Get 11 out of every 100 current obese adults in the county to reduce their BMI below 30.								Duval, FL	29.50%
Source	CDC Diabetes Interactive Atlas				Year(s)	2012		Jefferson, KY	31.20%

Food Environment Index

Index of factors that contribute to a healthy food environment, 0 (worst) to 10 (best)

	Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	91	Cannon	5.50	7.9	2.4	↑Good ↓Bad	7.20	Hamilton, OH	6.30
Increase the county's food index score by 2.4.								Duval, FL	6.20
Source	USDA Food Environment Atlas, Map the Meal Gap				Year(s)	2013		Jefferson, KY	6.90

Health Factors

Health Behaviors

Physical Inactivity
Percentage of adults aged 20 and over reporting no leisure-time physical activity

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
10	Chester	30.20%	29.40%	0.80%	↑Bad ↓Good	23.00%	Hamilton, OH	23.20%

Get 3 out of every 100 currently physically inactive adults to exercise during leisure time.

Duval, FL — 23.70%

Source	CDC Diabetes Interactive Atlas	Year(s)	2012	Jefferson, KY	25.60%

Access to Exercise Opportunities
Percentage of population with adequate access to locations for physical activity

Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
3	Johnson	90.07%	100.00%	9.93%	↑Good ↓Bad	84.00%	Hamilton, OH	94.63%

Consider how to remove barriers to access exercise locations to reach an additional 9.93 percent of the county's population.

Duval, FL — 93.47%

Source	Business Analyst, Delorme, ESRI, & US Census Tigerline Files	Year(s)	2010 & 2014	Jefferson, KY	95.25%

Excessive Drinking
Percentage of adults reporting binge or heavy drinking

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
19	Benton	10.90%	10.60%	0.30%	↑Bad ↓Good	17.00%	Hamilton, OH	18.80%

Get 3 out of every 100 adults in the county that currently drink to excess (binge and heavy drinkers) to stop drinking more than one (women) or two (men) drinks per day on average.

Duval, FL — 19.40%

Source	Behavioral Risk Factor Surveillance System	Year(s)	2014	Jefferson, KY	15.90%

Alcohol-Impaired Driving Deaths
Percentage of driving deaths with alcohol involvement

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
6	Hardeman	16.32%	13.04%	3.27%	↑Bad ↓Good	31.00%	Hamilton, OH	40.89%

Reduce the number of alcohol related driving deaths by 3.27 percent.

Duval, FL — 34.09%

Source	Fatality Analysis Reporting System	Year(s)	2010-2014	Jefferson, KY	31.51%

Sexually Transmitted Infections
Number of newly diagnosed chlamydia cases per 100,000 population

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
94	Overton	900.44	153.22	747.22	↑Bad ↓Good	446.60	Hamilton, OH	820.91

Consider ways to educate 9 out of every 10 persons self-reporting to be involved in any sexual contact to commit to using safe sex practices to prevent the infection of Chlamydia.

Duval, FL — 650.29

Source	National Center for HIV/AIDS, Viral Hepatitis, STD, & TB Prevention	Year(s)	2013	Jefferson, KY	658.47

Teen Births
Teen birth rate per 1,000 female population, ages 15-19

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
70	Putnam	55.21	34.87	20.34	↑Bad ↓Good	35.00	Hamilton, OH	38.76

For every 100 teenage females (ages 15 to 19 years) in the county, consider ways to prevent 37 teen(s) from becoming pregnant.

Duval, FL — 42.75

Source	National Center for Health Statistics - Natality files	Year(s)	2007-2013	Jefferson, KY	43.54

Clinical Care

Uninsured
Percentage of population under age 65 without health insurance

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
61	Cheatham	17.41%	14.54%	2.87%	↑Bad ↓Good	17.00%	Hamilton, OH	13.23%

Get 17 out of every 100 currently uninsured adults ages 18-64 to obtain health insurance.

Duval, FL — 19.38%

Source	Small Area Health Insurance Estimates	Year(s)	2013	Jefferson, KY	15.92%

Primary Care Physicians
Ratio of population to primary care physicians

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
8	Knox	1266:1	895:1	371	↑Bad ↓Good	1320:1	Hamilton, OH	955:1

To reach a population-to-provider ratio at or exceeding that of the 5th ranking county, 40 primary care providers would need to be recruited to the county. More importantly, if the county's value is greater than 3,500, this county would be considered a Health Professional Shortage Area.

Duval, FL — 1159:1

Source	Area Health Resource File/American Medical Association	Year(s)	2013	Jefferson, KY	1075:1

Dentists
Ratio of population to dentists

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
6	Hamilton	1497:1	1416:1	81	↑Bad ↓Good	1540:1	Hamilton, OH	1405:1

To reach a population-to-provider ratio at or exceeding that of the 5th ranking county, 5 dental care providers would need to be recruited to the county. More importantly, if the county's value is greater than 5,000, this county would be considered a Health Professional Shortage Area.

Duval, FL — 1385:1

Source	Area Health Resource File/National Provider Identification file	Year(s)	2014	Jefferson, KY	1020:1

Health Factors

Clinical Care

Mental Health Providers
Ratio of population to mental health providers

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
14	Henry	763:1	644:1	119	↑Bad ↓Good	490:1	Hamilton, OH	423:1
To reach a population-to-provider ratio at or exceeding that of the 10th ranking county, 30 mental health providers would need to be recruited to the county. More importantly, if the county's value is greater than 30,000, this county would be considered a Health Professional Shortage Area.							Duval, FL	615:1
Source	CMS, National Provider Identification file				Year(s)	2015	Jefferson, KY	359:1

Preventable Hospital Stays
Number of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
6	Knox	47.91	45.07	2.84	↑Bad ↓Good	54.00	Hamilton, OH	51.00
For every 100 Medicare enrollees, prevent 1 Medicare enrollees from being hospitalized for ambulatory-care sensitive conditions.							Duval, FL	62.42
Source	Dartmouth Atlas of Health Care				Year(s)	2013	Jefferson, KY	60.86

Diabetic Monitoring
Percentage of diabetic Medicare enrollees ages 65-75 that receive HbA1c monitoring

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
79	Giles	84.31%	89.20%	4.90%	↑Good ↓Bad	63.00%	Hamilton, OH	86.77%
For every 100 diabetic Medicare enrollees, get 5 additional Medicare enrollees to receive HbA1c screening.							Duval, FL	84.59%
Source	Dartmouth Atlas of Health Care				Year(s)	2013	Jefferson, KY	87.17%

Mammography Screening
Percentage of female Medicare enrollees ages 67-69 that receive mammography screening

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
36	Cumberland	61.00%	71.00%	10.00%	↑Good ↓Bad	63.00%	Hamilton, OH	62.00%
For every 100 female Medicare enrollees, get 10 additional Medicare enrollees to receive their mammography screening.							Duval, FL	65.00%
Source	Dartmouth Atlas of Health Care				Year(s)	2013	Jefferson, KY	63.00%

Social & Economic Factors

High School Graduation
Percentage of ninth-grade cohort that graduates in four years

Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
94	Tipton	73.97%	98.00%	24.03%	↑Good ↓Bad	82.00%	Hamilton, OH	81.52%
For every 100 ninth graders, assist 25 additional ninth graders to graduate within four years.							Duval, FL	72.00%
Source	EDFacts				Year(s)	2012-2013	Jefferson, KY	77.00%

Some College
Percentage of adults ages 25-44 years with some post-secondary education

Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
10	Davidson	62.28%	67.02%	4.73%	↑Good ↓Bad	64.00%	Hamilton, OH	68.85%
For every 100 adults between 25-44 years of age, assist 5 additional adults to complete some coursework at the collegiate level.							Duval, FL	64.18%
Source	American Community Survey				Year(s)	2010-2014	Jefferson, KY	68.02%

Unemployment
Percentage of population ages 16 and older unemployed but seeking work

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
48	Robertson	7.85%	5.69%	2.16%	↑Bad ↓Good	6.20%	Hamilton, OH	5.34%
For every 100 persons ages 16 years and older, help 3 persons successfully find employment.							Duval, FL	6.70%
Source	Bureau of Labor Statistics				Year(s)	2014	Jefferson, KY	6.09%

Children in Poverty
Percentage of children under age 18 in poverty

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
85	Dickson	34.50%	21.10%	13.40%	↑Bad ↓Good	22.00%	Hamilton, OH	24.40%
For every 100 children (under 18 years) in poverty, help 39 children to find assistance to get out of poverty.							Duval, FL	26.70%
Source	Small Area Income and Poverty Estimates				Year(s)	2014	Jefferson, KY	23.90%

Income Inequality
Ratio of household income at the 80th percentile to income at the 20th percentile

Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
90	Houston	5.44	4.11	1.33	↑Bad ↓Good	4.70	Hamilton, OH	5.81
To reach a household income ratio at or below that of the 10th ranking county reduce the gap between the 80th percentile and 20th percentile by 2 household(s).							Duval, FL	4.72
Source	American Community Survey				Year(s)	2010-2014	Jefferson, KY	5.01

Health Factors

Social & Economic Factors

Children in Single-Parent Households

Percentage of children that live in a household headed by single parent

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	92	Lawrence	50.34%	23.36%	26.98%	↑Bad ↓Good	34.00%	Hamilton, OH	43.19%
	For every 100 single parent households in the county, investigate ways to encourage 54 households to be a multi-parent household.							Duval, FL	42.48%
Source	American Community Survey				Year(s)		2010-2014	Jefferson, KY	42.49%

Social Associations

Number of membership associations per 10,000 population

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	67	Johnson	9.13	16.13	7.00	↑Good ↓Bad	9.00	Hamilton, OH	10.95
	For every 100 people in the county, increase the number of membership associations by 1.							Duval, FL	9.12
Source	County Business Patterns				Year(s)		2013	Jefferson, KY	10.03

Violent Crime

Number of reported violent crime offenses per 100,000 population

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	95	Carter	1235.83	206.33	1029.50	↑Bad ↓Good	392.00	Hamilton, OH	500.87
	For every 100 persons in the county, prevent 84 people from committing a violent crime.							Duval, FL	645.58
Source	Uniform Crime Reporting - FBI				Year(s)		2010-2012	Jefferson, KY	579.11

Injury Deaths

Number of deaths due to injury per 100,000 population

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	11	Washington	70.58	70.04	0.54	↑Bad ↓Good	60.00	Hamilton, OH	63.19
	For every 1,000 population consider ways to prevent 8 deaths as a result of intentional and unintentional injury.							Duval, FL	74.79
Source	CDC WONDER mortality data				Year(s)		2009-2013	Jefferson, KY	71.67

Air Pollution - Particulate Matter

Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)

	Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	1	Shelby	12.83	12.83	0.00	↑Bad ↓Good	11.40	Hamilton, OH	13.27
	No action required.							Duval, FL	12.02
Source	CDC WONDER Environmental data				Year(s)		2011	Jefferson, KY	13.52

Physical Environment

Drinking Water Violations

Percentage of population potentially exposed to water exceeding a violation limit during the past year

	Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	No Rank	NA	No	No	NA	NA	NA	Hamilton, OH	No
	There were no health-based drinking water violations.							Duval, FL	Yes
Source	Safe Drinking Water Information System				Year(s)		FY2013-14	Jefferson, KY	No

Severe Housing Problems

Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	95	Unicoi	21.79%	11.70%	10.09%	↑Bad ↓Good	19.00%	Hamilton, OH	17.83%
	For every 100 persons in the county experiencing housing problems, help 47 person(s) to find housing assistance.							Duval, FL	19.75%
Source	Comprehensive Housing Affordability Strategy (CHAS) data			Year(s)			2008-2012	Jefferson, KY	15.79%

Driving Alone to Work

Percentage of the workforce that drives alone to work

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	22	Grundy	82.70%	80.27%	2.43%	↑Bad ↓Good	76.00%	Hamilton, OH	79.65%
	For every 100 persons that currently drive alone to work, convince 3 to carpool or take mass-transportation.							Duval, FL	80.41%
Source	American Community Survey				Year(s)		2010-2014	Jefferson, KY	82.24%

Long Commute - Driving Alone

Among workers who commute in their car alone, the percentage that commute more than 30 minutes

	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
	25	Hamilton	29.70%	25.20%	4.50%	↑Bad ↓Good	31.00%	Hamilton, OH	28.00%
	For every 100 persons that currently drive more than 30 minutes alone to work, convince 16 to carpool or take mass-transportation.							Duval, FL	29.70%
Source	American Community Survey				Year(s)		2010-2014	Jefferson, KY	23.90%