



**2016**

DRIVE YOUR COUNTY TO THE  
**TOP TEN**

INFORMING • CONNECTING • ACCELERATING

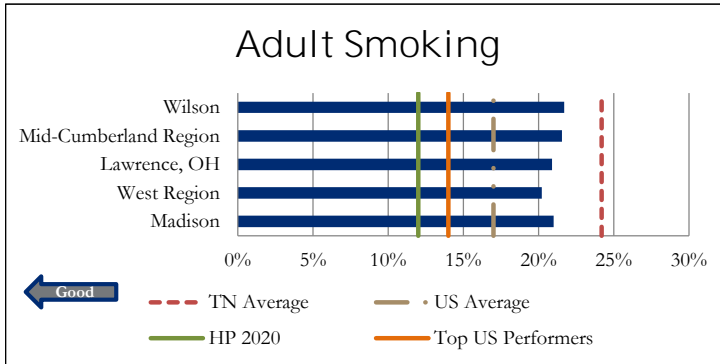
Madison County

**TN**

Department of  
**Health**

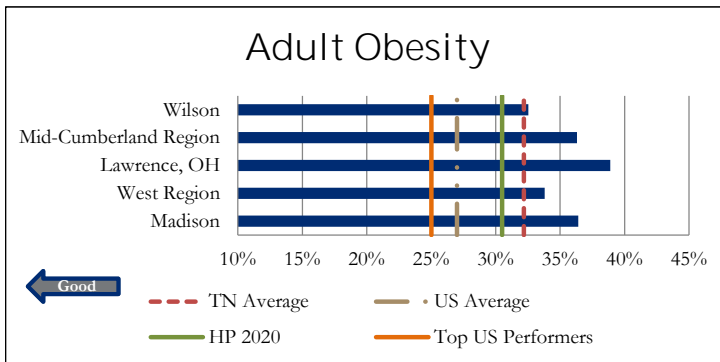
Demographics

<b>Population:</b>	98,178	<b>&lt;18 YOA:</b>	23.04%	<b>65+ YOA:</b>	14.92%	<b>% Rural:</b>	25.80%
<b>Unemployment:</b>	6.90%	<b>% Females:</b>	52.80%	<b>% Males:</b>	47.20%	<b>Graduation Rate:</b>	92.00%
<b>Single parent households:</b>	41.93%	<b>MHI:</b>	\$43,113				



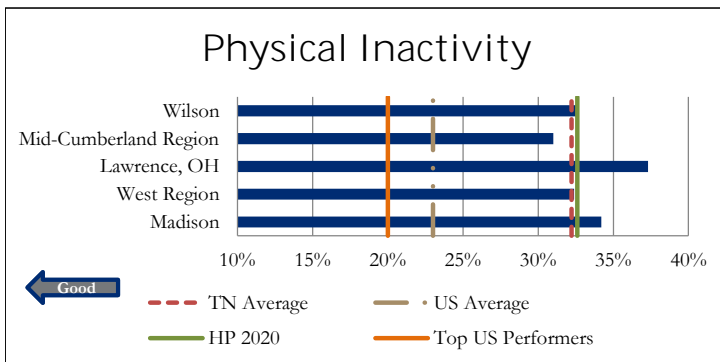
### Top Third

Measure	Value
Long Commute - Driving Alone	14.70%
Primary Care Physicians	690:1
Mental Health Providers	436:1
Injury Deaths	63.25
Dentists	1558:1
Social Associations	17.22
Physical Inactivity	31.00%
Uninsured	14.73%
Preventable Hospital Stays	57.26
Some College	56.89%



### Middle Third

Measure	Value
Teen Births	45.29
Mammography Screening	61.00%
Poor or Fair Health	21.60%
Alcohol-Impaired Driving Deaths	27.16%
High School Graduation	92.00%
Excessive Drinking	11.30%
Driving Alone to Work	84.67%
Children in Poverty	29.20%
Air Pollution - Particulate Matter	13.85



### Bottom Third

Measure	Value
Violent Crime	887.56
Sexually Transmitted Infections	779.48
Severe Housing Problems	18.50%
Food Environment Index	6.00
Children in Single-Parent Households	41.93%
Income Inequality	5.22
Adult Obesity	36.30%
Low Birthweight	10.13%



### 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									
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value	
		18	Knox	8382.50	7735.80	646.70	↑Bad ↓Good	6,600.00	Guernsey, OH	8679.90	
		For every 100 people in the county, 1 people in the county need to live one year closer to age 75.							Randolph, IN	8328.50	
		Source		National Center for Health Statistics - Mortality files			Year(s)	2011-2013	Lawrence, OH	9427.20	
Health Outcomes	Quality of Life	Poor or Fair Health*									
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value	
		37	Rutherford	21.60%	19.60%	2.00%	↑Bad ↓Good	18.00%	Guernsey, OH	18.00%	
		Improve the health of 2 out of every 100 people in the county who, in general, report being in poor or fair health.							Randolph, IN	17.60%	
		Source		Behavioral Risk Factor Surveillance System			Year(s)	2014	Lawrence, OH	18.30%	
		Percentage of adults reporting fair or poor health (age-adjusted)									
			Poor Physical Health Days*								
	Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
	16	Knox	4.50	4.30	0.20	↑Bad ↓Good	3.8	Guernsey, OH	4.10		
	Engage people in the county on ways to reduce number of poor physical health days reported by residents by 1 days per month.							Randolph, IN	4.00		
	Source		Behavioral Risk Factor Surveillance System			Year(s)	2014	Lawrence, OH	4.30		
	Average number of physically unhealthy days reported in past 30 days (age-adjusted)										
		Poor Mental Health Days*									
Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value			
16	Williamson	4.50	3.80	0.70	↑Bad ↓Good	2.8	Guernsey, OH	4.30			
Engage people in the county on ways to reduce number of poor physical health days reported by residents by 1 days per month.							Randolph, IN	4.10			
Source		Behavioral Risk Factor Surveillance System			Year(s)	2014	Lawrence, OH	4.50			
Average number of mentally unhealthy days reported in past 30 days (age-adjusted)											
		Low Birthweight									
Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value			
83	Pickett	10.13%	7.24%	2.89%	↑Bad ↓Good	8.00%	Guernsey, OH	8.11%			
Reduce the number of low birth weight babies by 3 for every 100 live births.							Randolph, IN	9.25%			
Source		National Center for Health Statistics - Natality files			Year(s)	2007-2013	Lawrence, OH	10.07%			
Percentage of live births with low birthweight (< 2500 grams)											
Health Factors	Health Behaviors	Adult Smoking*									
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value	
		17	Humphreys	21.70%	21.10%	0.60%	↑Bad ↓Good	17.00%	Guernsey, OH	21.00%	
	Get 3 out of every 100 current adult smokers in the county to quit smoking.							Randolph, IN	20.20%		
	Source		Behavioral Risk Factor Surveillance System			Year(s)	2014	Lawrence, OH	20.90%		
	Percentage of adults who are current smokers										
			Adult Obesity								
	Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
	85	Hamilton	36.30%	29.90%	6.40%	↑Bad ↓Good	27.00%	Guernsey, OH	36.40%		
Get 18 out of every 100 current obese adults in the county to reduce their BMI below 30.							Randolph, IN	33.80%			
Source		CDC Diabetes Interactive Atlas			Year(s)	2012	Lawrence, OH	38.90%			
Percentage of adults that report a BMI of 30 or more											
		Food Environment Index									
Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value			
88	Cannon	6.00	7.9	1.9	↑Good ↓Bad	7.20	Guernsey, OH	7.00			
Increase the county's food index score by 1.9.							Randolph, IN	6.80			
Source		USDA Food Environment Atlas, Map the Meal Gap			Year(s)	2013	Lawrence, OH	7.00			
Index of factors that contribute to a healthy food environment, 0 (worst) to 10 (best)											

Prepared by the Division of Administrative Services, Tennessee Department of Health, Nashville, TN. May 2016. admin.health@tn.gov or 615-741-9398. The full report can be accessed at: <http://tn.gov/health/topic/specialreports>. All data is from the University of Wisconsin Population Health Institute and Robert Wood Johnson Foundation's, 2015 *County Health Rankings and Roadmaps* report. Difference statements represent the absolute value using the following formula: ["Value" - "10th Ranked Value"]. \*The action statements are based on the assumption that no new additional cases occur. \*\*Data should not be compared with prior years due to changes in definition/methods. All rankings and action statements presented in this report must be interpreted with caution due to various limitations of each measurement. Further information with regards to the strengths and limitations of each measurement may be found by clicking the hyperlink found in the description of each measurement.

Health Factors		Health Behaviors		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
				Physical Inactivity	11	Shelby	31.00%	30.20%	0.80%	↑Bad ↓Good	23.00%	Guernsey, OH
<a href="#">Percentage of adults aged 20 and over reporting no leisure-time physical activity</a>		Get 3 out of every 100 currently physically inactive adults to exercise during leisure time.									Randolph, IN	32.40%
		Source	CDC Diabetes Interactive Atlas			Year(s)	2012	Lawrence, OH	37.30%			
Access to Exercise Opportunities		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		15	Loudon	74.39%	78.48%	4.09%	↑Good ↓Bad	84.00%	Guernsey, OH	48.09%		
<a href="#">Percentage of population with adequate access to locations for physical activity</a>		Consider how to remove barriers to access exercise locations to reach an additional 4.09 percent of the county's population.									Randolph, IN	33.21%
		Source	Business Analyst, Delorme, ESRI, & US Census Tigerline Files			Year(s)	2010 & 2014	Lawrence, OH	96.23%			
Excessive Drinking		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		41	Benton	11.30%	10.60%	0.70%	↑Bad ↓Good	17.00%	Guernsey, OH	17.60%		
<a href="#">Percentage of adults reporting binge or heavy drinking</a>		Get 7 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.									Randolph, IN	14.20%
		Source	Behavioral Risk Factor Surveillance System			Year(s)	2014	Lawrence, OH	15.20%			
Alcohol-Impaired Driving Deaths		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		37	Sullivan	27.16%	19.17%	7.99%	↑Bad ↓Good	31.00%	Guernsey, OH	30.56%		
<a href="#">Percentage of driving deaths with alcohol involvement</a>		Reduce the number of alcohol related driving deaths by 7.99 percent.									Randolph, IN	22.22%
		Source	Fatality Analysis Reporting System			Year(s)	2010-2014	Lawrence, OH	35.48%			
Sexually Transmitted Infections		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		90	Overton	779.48	153.22	626.25	↑Bad ↓Good	446.60	Guernsey, OH	296.36		
<a href="#">Number of newly diagnosed chlamydia cases per 100,000 population</a>		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.									Randolph, IN	278.91
		Source	National Center for HIV/AIDS, Viral Hepatitis, STD, & TB Prevention			Year(s)	2013	Lawrence, OH	175.50			
Teen Births		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		36	Putnam	45.29	34.87	10.41	↑Bad ↓Good	35.00	Guernsey, OH	39.09		
<a href="#">Teen birth rate per 1,000 female population, ages 15-19</a>		For every 100 teenage females (ages 15 to 19 years) in the county, consider ways to prevent 23 teen(s) from becoming pregnant.									Randolph, IN	44.54
		Source	National Center for Health Statistics - Natality files			Year(s)	2007-2013	Lawrence, OH	47.68			
Uninsured		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		12	Cheatham	14.73%	14.54%	0.19%	↑Bad ↓Good	17.00%	Guernsey, OH	14.10%		
<a href="#">Percentage of population under age 65 without health insurance</a>		Get 2 out of every 100 currently uninsured adults ages 18-64 to obtain health insurance.									Randolph, IN	16.94%
		Source	Small Area Health Insurance Estimates			Year(s)	2013	Lawrence, OH	13.43%			
Primary Care Physicians		Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		3	Washington	690:1	618:1	72	↑Bad ↓Good	1320:1	Guernsey, OH	2086:1		
<a href="#">Ratio of population to primary care physicians</a>		To reach a population-to-provider ratio at or exceeding that of the 1st ranking county, 21 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.									Randolph, IN	3661:1
		Source	Area Health Resource File/American Medical Association			Year(s)	2013	Lawrence, OH	1876:1			
Dentists		Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value		
		8	Hamilton	1558:1	1416:1	142	↑Bad ↓Good	1540:1	Guernsey, OH	2084:1		
<a href="#">Ratio of population to dentists</a>		To reach a population-to-provider ratio at or exceeding that of the 5th ranking county, 8 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.									Randolph, IN	4231:1
		Source	Area Health Resource File/National Provider Identification file			Year(s)	2014	Lawrence, OH	2934:1			
Clinical Care												

Health Factors	Clinical Care	Mental Health Providers		Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Ratio of population to mental health providers</a>		4	Knox	436:1	303:1	133	↑Bad ↓Good	490:1	Guernsey, OH	1042:1
		Source		CMS, National Provider Identification file		Year(s)		2015	Lawrence, OH	1712:1	Randolph, IN 3626:1	
		Preventable Hospital Stays		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Number of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees</a>		12	Anderson	57.26	50.27	6.99	↑Bad ↓Good	54.00	Guernsey, OH	96.44
		Source		Dartmouth Atlas of Health Care		Year(s)		2013	Lawrence, OH	105.81	Randolph, IN 78.71	
		Diabetic Monitoring		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Percentage of diabetic Medicare enrollees ages 65-75 that receive HbA1c monitoring</a>		30	Giles	87.63%	89.20%	1.57%	↑Good ↓Bad	63.00%	Guernsey, OH	84.23%
		Source		Dartmouth Atlas of Health Care		Year(s)		2013	Lawrence, OH	85.02%	Randolph, IN 85.27%	
		Mammography Screening		Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Percentage of female Medicare enrollees ages 67-69 that receive mammography screening</a>		36	Cumberland	61.00%	71.00%	10.00%	↑Good ↓Bad	63.00%	Guernsey, OH	64.00%
		Source		Dartmouth Atlas of Health Care		Year(s)		2013	Lawrence, OH	56.00%	Randolph, IN 71.00%	
		High School Graduation		Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Percentage of ninth-grade cohort that graduates in four years</a>		38	Tipton	92.00%	98.00%	6.00%	↑Good ↓Bad	82.00%	Guernsey, OH	88.53%
		Source		EDFacts		Year(s)		2012-2013	Lawrence, OH	92.20%	Randolph, IN 87.15%	
		Some College		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Percentage of adults ages 25-44 years with some post-secondary education</a>		12	Shelby	56.89%	62.28%	5.40%	↑Good ↓Bad	64.00%	Guernsey, OH	49.67%
		Source		American Community Survey		Year(s)		2010-2014	Lawrence, OH	48.02%	Randolph, IN 55.48%	
		Unemployment		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Percentage of population ages 16 and older unemployed but seeking work</a>		30	Robertson	6.90%	5.69%	1.21%	↑Bad ↓Good	6.20%	Guernsey, OH	6.67%
		Source		Bureau of Labor Statistics		Year(s)		2014	Lawrence, OH	6.53%	Randolph, IN 6.58%	
		Children in Poverty		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Percentage of children under age 18 in poverty</a>		54	Dickson	29.20%	21.10%	8.10%	↑Bad ↓Good	22.00%	Guernsey, OH	26.40%
		Source		Small Area Income and Poverty Estimates		Year(s)		2014	Lawrence, OH	27.40%	Randolph, IN 23.70%	
		Income Inequality		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		<a href="#">Ratio of household income at the 80th percentile to income at the 20th percentile</a>		87	Houston	5.22	4.11	1.11	↑Bad ↓Good	4.70	Guernsey, OH	4.37
		Source		American Community Survey		Year(s)		2010-2014	Lawrence, OH	4.78	Randolph, IN 4.18	

Health Factors	Social & Economic Factors	Children in Single-Parent Households								
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		88	Lawrence	41.93%	23.36%	18.56%	↑Bad ↓Good	34.00%	Guernsey, OH	32.59%
		For every 100 single parent households in the county, investigate ways to encourage 45 households to be a multi-parent household.							Randolph, IN	34.44%
		Source		American Community Survey		Year(s)		2010-2014	Lawrence, OH	37.01%
		Percentage of children that live in a household headed by single parent								
Health Factors	Social & Economic Factors	Social Associations								
		Rank	5th Ranked	Value	5th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		8	Crockett	17.22	17.82	0.60	↑Good ↓Bad	9.00	Guernsey, OH	15.64
		For every 100 people in the county, increase the number of membership associations by 1.							Randolph, IN	19.90
		Source		County Business Patterns		Year(s)		2013	Lawrence, OH	10.50
		Number of membership associations per 10,000 population								
Health Factors	Social & Economic Factors	Violent Crime								
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		92	Carter	887.56	206.33	681.23	↑Bad ↓Good	392.00	Guernsey, OH	141.84
		For every 100 persons in the county, prevent 77 people from committing a violent crime.							Randolph, IN	24.93
		Source		Uniform Crime Reporting - FBI		Year(s)		2010-2012	Lawrence, OH	166.55
		Number of reported violent crime offenses per 100,000 population								
Health Factors	Social & Economic Factors	Injury Deaths								
		Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		5	Williamson	63.25	43.01	20.24	↑Bad ↓Good	60.00	Guernsey, OH	71.10
		For every 1,000 population consider ways to prevent 320 deaths as a result of intentional and unintentional injury.							Randolph, IN	65.41
		Source		CDC WONDER mortality data		Year(s)		2009-2013	Lawrence, OH	73.81
		Number of deaths due to injury per 100,000 population								
Health Factors	Social & Economic Factors	Air Pollution - Particulate Matter								
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		60	Greene	13.85	13.14	0.71	↑Bad ↓Good	11.40	Guernsey, OH	13.73
		Reduce the average daily measure of fine particulate matter by 0.71 micrograms per cubic meter (PM2.5).							Randolph, IN	13.46
		Source		CDC WONDER Environmental data		Year(s)		2011	Lawrence, OH	13.13
		Average daily density of fine particulate matter in micrograms per cubic meter (PM2.5)								
Health Factors	Physical Environment	Drinking Water Violations								
		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	Guernsey, OH	No
		There were no health-based drinking water violations.							Randolph, IN	No
		Source		Safe Drinking Water Information System		Year(s)		FY2013-14	Lawrence, OH	No
		Percentage of population potentially exposed to water exceeding a violation limit during the past year								
Health Factors	Physical Environment	Severe Housing Problems								
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		90	Unicoi	18.50%	11.70%	6.79%	↑Bad ↓Good	19.00%	Guernsey, OH	12.71%
		For every 100 persons in the county experiencing housing problems, help 37 person(s) to find housing assistance.							Randolph, IN	12.45%
		Source		Comprehensive Housing Affordability Strategy (CHAS) data		Year(s)		2008-2012	Lawrence, OH	12.07%
		Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, or lack of kitchen or plumbing facilities								
Health Factors	Physical Environment	Driving Alone to Work								
		Rank	10th Ranked	Value	10th Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		44	Grundy	84.67%	80.27%	4.41%	↑Bad ↓Good	76.00%	Guernsey, OH	85.38%
		For every 100 persons that currently drive alone to work, convince 6 to carpool or take mass-transportation.							Randolph, IN	83.75%
		Source		American Community Survey		Year(s)		2010-2014	Lawrence, OH	89.07%
		Percentage of the workforce that drives alone to work								
Health Factors	Physical Environment	Long Commute - Driving Alone								
		Rank	1st Ranked	Value	1st Ranked Value	Difference	Shift in Value	US Average	Peer County	Peer Value
		1	Madison	14.70%	14.70%	0.00%	↑Bad ↓Good	31.00%	Guernsey, OH	27.40%
		For every 100 persons that currently drive more than 30 minutes alone to work, convince 0 to carpool or take mass-transportation.							Randolph, IN	34.00%
		Source		American Community Survey		Year(s)		2010-2014	Lawrence, OH	29.20%
		Among workers who commute in their car alone, the percentage that commute more than 30 minutes								