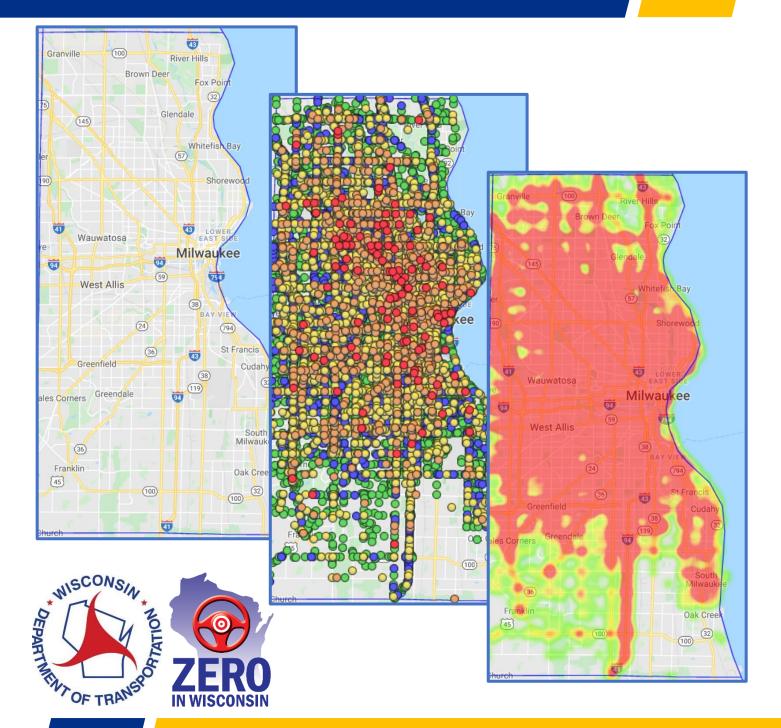
Anatomy of Milwaukee County A Traffic Safety Summary



Did you know...

one individual is killed or injured in a crash in Milwaukee County every one hour?

January 2020

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This document was created by the Division of State Patrol Bureau of Transportation Safety and Technical Services (BOTSTS). The data is based on a five-year (2014-2018) trend, while suspected drug or alcohol impairment and distracted driving is based on a two-year (2017-2018) trend. The intention of this document is to assist Traffic Safety Commissions to examine their own transportation safety issues within their respective county.

For further data, email BOTSTS at <u>CrashDataAnalysis@dot.wi.gov</u>.

Cover page (left to right): County map, five-year (2014-2018) trends of all crashes, heat map of crashes

Crash Trends

Per year in Milwaukee County, an average of

46,728 drivers are involved in a crash

10,430 people are injured



75 people are killed

While



January has the highest number of crashes



August has the highest number of injury and fatal crashes



9 out of 10 injured or killed people are Milwaukee County residents



Where



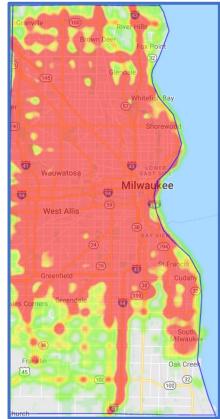
2 out of 10 fatal and injury crashes occur on an interstate or state road

When

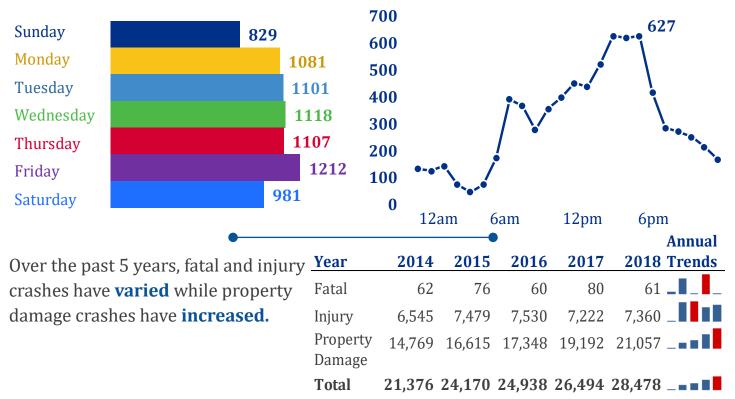


5pm-6pm is the peak time for injury and fatal crashes

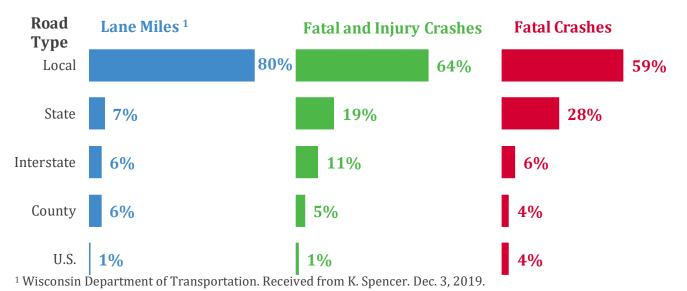
Hotspots of all crashes (2014-2018)



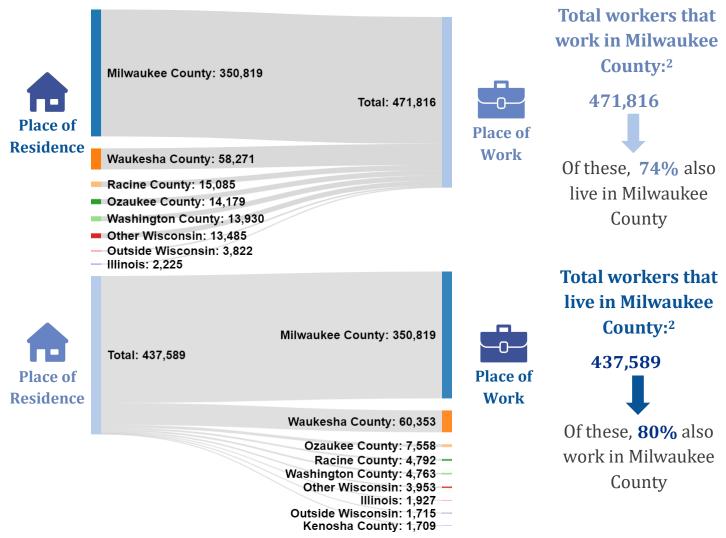
Source: TOPS Lab Community Maps. Explore this tool <u>here</u>. On an average year in Milwaukee County, injury and fatal crashes occur somewhat consistently over the weekday while **Friday** has the **most crashes**. In addition, over a 24-hour period, injury and fatal crashes occur **most frequently** between **5pm-6pm**, peaking at **627** crashes in total throughout the year.



Crashes on state and interstate roads are disproportionally represented in injury and fatal crashes. On roads with **higher posted speed limits**, there's a higher risk for a **severe injury or fatality** if a crash were to occur.



Commuting Flows



Locals are **more likely** to be involved in a crash in Milwaukee County as opposed to visitors. **87%** of occupants injured or

killed in a crash in Milwaukee County also live in Milwaukee County.

Injured or Killed Occupants live in	Milwaukee County Crashes	Crashes in each Wisconsin County			
County of crash		87%	77%		
Wisconsin, outside county of crash	10%	17%			
Unknown/Other	1%	2%			
Illinois	1%	2%			
Michigan	0%	0%			
Minnesota	0%	1%			

² United States Census Bureau. 2011-2015 5-Year American Community Survey Commuting Flows. https://www.census.gov/ data/tables/2015/demo/metro-micro/commuting-flows-2015.html Accessed Oct. 11, 2019.

Transportation Safety

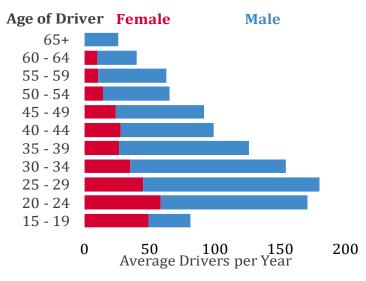
Alcohol and Drug-Impaired Driving

In Milwaukee County, **695** people are injured or killed in a crash involving a driver believed to be impaired by drugs or alcohol, in an average year.

That is **28%** of all persons killed in a crash. Statewide, this is 33% of all persons killed.



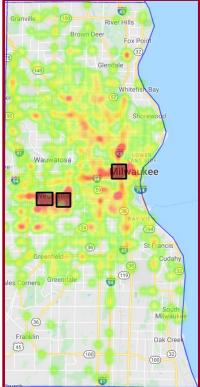
While **72%** of drivers believed to be impaired by drugs or alcohol are **male**.

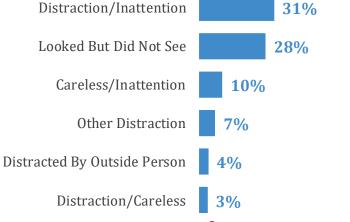


Hotspots of alcohol and drug-related crashes with an

Top 3 Areas:

- 1. West Allis (W Greenfield Ave./S 84th St.)
- West Allis (W Greenfield/W National Ave./S 60th St.)
- Milwaukee (I.H. 43/W Wells St./ N 17th St.)





Occupant Protection

Distracted Driving

Top factors a driver

was distracted were

In Milwaukee County, a driver being

in **15%** of injury and fatal crashes.

distracted is listed as a contributing factor

Statewide seatbelt usage has been increasing over the past two decades. This past year experienced a usage rate of 90.2%, which is based on an annual seatbelt survey.

Occupants **not wearing a seatbelt** are more likely to suffer a serious injury or fatality. Of the total statewide occupant fatalities, **1 out of 3** were not wearing a seatbelt.

Suspected Serious Injury

34%

20%

Fatal

5%

6%

0%

1%

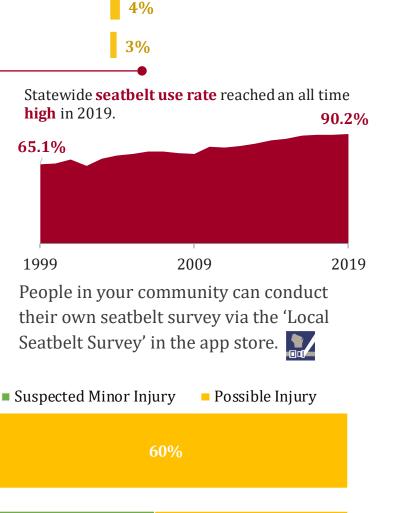
Seatbelt

Worn

Seatbelt

Not Worn





32%

Below shows the **breakdown** of the factors in these distracted driving crashes.

9%

6%

Statewide, this is 22% of injury and fatal crashes.

28%

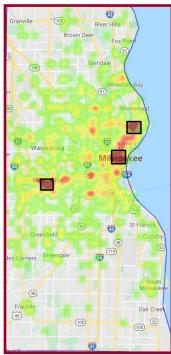
42%

5

Bicyclist and Pedestrian Safety

In the last 5 years in Milwaukee County, **926** cyclists and **2,634** pedestrians were killed or injured.

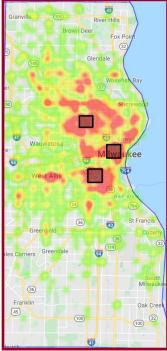
Hotspots of injury and fatal bicycle crashes



Top 3 Areas:

- West Allis (W Greenfield Ave./W National Ave./S 76th St.)
- 2. Milwaukee (downtown)
- Milwaukee (E Locust St./N Oakland Ave.)

Hotspots of injury and fatal pedestrian crashes



Top 3 Areas:

- Milwaukee (W Fond du Lac Ave./ W Burleigh St./W Center St.)
- 2. Milwaukee (downtown)
- Milwaukee (W National Ave./W Greenfield Ave./S Layton Blvd/Cesar E Chavez Dr.)

A bike or pedestrian crash is more likely to happen in an urban area, however, a fatal or serious injury crash is more likely to occur in a rural area due to higher speeds.

Motorcycle Safety

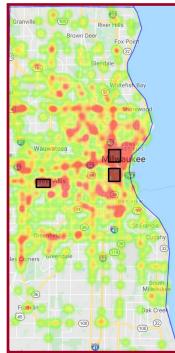
In the last 5 years in Milwaukee County, **1,251** motorcyclists were killed or injured.

Of these, **45%** were not wearing a helmet.



The type of helmet and other safety equipment worn, such as protective gear and gloves, can also impact the type of injury sustained.

Hotspots of injury and fatal motorcycle crashes



Top 3 Areas:

- West Allis (W Greenfield Ave./S 84th St.)
- Milwaukee (I.H. 43/N 6th St.)
- Milwaukee (I.H. 94/S 1st St./W National Ave.)

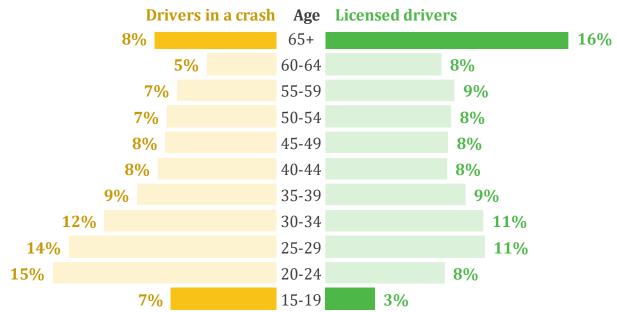
Teen and Older Drivers

In Milwaukee County, **teen or older drivers** make up **15%** of drivers involved in a fatal or injury crash. Statewide, this is 21% of drivers in fatal and injury crashes.

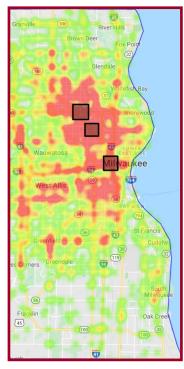
Breaking this down,

teen drivers make up **7%** of drivers involved in a crash and make up **3%** of licensed drivers and

older drivers make up **8%** of drivers involved a crash and make up **16%** of licensed drivers.

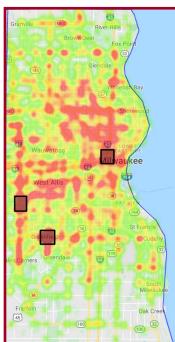


Hotspots of injury and fatal crashes involving a teen driver



Top 3 Areas:

- Milwaukee (W Fond du Lac Ave./ N Sherman Blvd/ W Capitol Dr.)
- Milwaukee (W Fond du Lac Ave./ W Burleigh St./W Center St.)
- Milwaukee (I.H. 43/W Wells St./ I.H. 94)

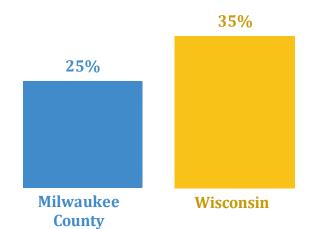


involving an older driver Top 3 Areas:

Hotspots of injury and fatal crashes

- West Allis (W National Ave./S 108th St.)
- Milwaukee (I.H. 43/N 6th St./W Highland Ave.)
- 3. Greenfield (S 76th St./W Layton Ave.)

Lane Departure Crashes

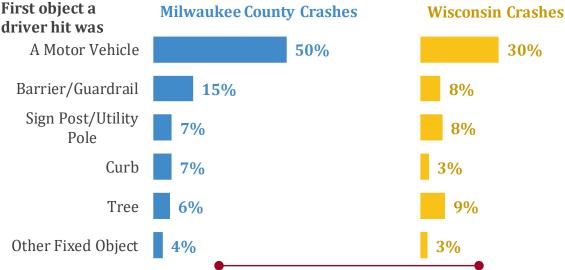


Below shows the **breakdown** of the 'first harmful event' in these lane departure crashes.

Fewer lane departure crashes occur in Milwaukee County, out of total injury and fatal crashes, compared to the state. **Colliding** with a **Motor Vehicle** was the most frequent 'first harmful event.'

A **lane departure crash** is defined as when the driver crosses the centerline, edge line, or leaves the roadway and then usually colliding with another vehicle or an object, such as a guardrail or a tree.

The cause of a lane departure crash could be a mixture of factors – speeding, being impaired by alcohol, or feeling tired.

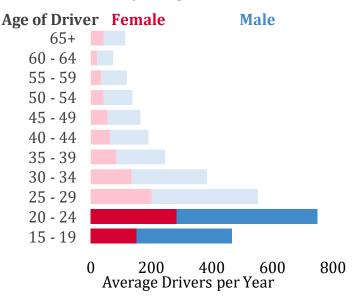


Speeding

Speeding includes both **exceeding the speed limit** and **driving too fast for conditions.** Speeding has a compounded affect in a crash; decreasing speed can reduce the crash risk, reduce injury severity, and make it possible to control the vehicle if an event were to occur.

Of all fatal and injury crashes, **16%** involved speed as a contributing factor resulting in **1,822** fatalities and injuries. Statewide, this is 19% of fatal and injury crashes.

2 out of 5 of all crashes where **speed** is a factor involves **a young driver**.



Appendix

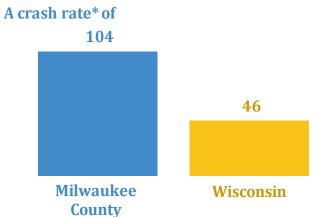
Urbanization

An urban county, Milwaukee County is the center of the Milwaukee-Waukesha-West Allis metropolitan area, which is adjacent to the neighboring Racine metropolitan area. The eastern boundary of the county is the eastern boundary of the state, which is in the center of Lake Michigan.

Vehicle Miles of Travel (VMT)³

VMT is a measure of the total amount of and distance of vehicle travel in a year.

In Milwaukee County, the 2018 VMT was 7,104,038,800 miles with a crash rate of 104 injury and fatal crashes per 100 million VMT, higher than the state's rate of 46 crashes.



*Crash rate as measured by total injury and fatal crashes per 1 million vehicles miles traveled in 2018

Grants

The State Patrol Bureau of Transportation Safety and Technical Services (BOTSTS) administers federally funded overtime traffic safety grants to local law enforcement agencies each year.

The overtime grants are offered to agencies using a data driven targeting process. The targeting process includes a review of crash data from previous years to determine what areas have a traffic safety problem. The process is used to determine locations of concern in the areas of impaired driving, speeding, and unbelted vehicle occupants. If an agency participates in our national mobilizations, the agency may also receive one or more equipment grants, as determined in several annual drawings.

BOTSTS also provides grants to agencies that are not targeted but are part of a task force in their area. A task force is a group of law enforcement agencies working together to plan high visibility enforcement in their communities. Task forces can operate in their individual communities but only on the same day and at the same time as the group. They can also concentrate on one agency's community during a deployment.

³ Wisconsin Department of Transportation. "2018 Vehicles Miles of Travel (VMT) by County." Accessed October 10, 2019. https://wisconsindot.gov/Documents/projects/data-plan/veh-miles/vmt2018.pdf Below are **agency mobilizations** and **grants** that were recently awarded to Milwaukee County agencies.

Participate 🗌 Did not participate	Milwaukee	Bayside	Brown	Cudahy	Fox Point	Franklin	Glendale	
Mobilization Campaign	County SO	PD	Deer PD	PD	PD	PD	PD	
2017 Drive Sober or Get Pulled Over- Winter Holidays								
2018 Click It or Ticket								
2018 Drive Sober or Get Pulled Over – Labor Day								
2018 Drive Sober or Get Pulled Over- Winter Holidays								
2019 Click It or Ticket								
2019 Drive Sober or Get Pulled Over – Labor Day								
2018 Equipment Grant								
2019 Equipment Grant								
2019 Task Force Participation								
Impaired Driving	MC Central	MC Northeast	MC Northeast	MC Southeast	MC Northeast	MC Southwest	MC Northeast	
Speed Enforcement	MC Central	MC Northeast	MC Northeast	MC Southeast	MC Northeast	MC Southwest	MC Northeast	
Occupant Protection	MC Central	MC Northeast	MC Northeast	MC Southeast	MC Northeast	MC Southwest	MC Northeast	
2019 Grant Funded Amount for a Task Force								
Milwaukee County Central Impaired Driving Taskforce	\$170,000	Milwaukee	County No	rtheast Impa	aired Driving	g Taskforce	\$100,000	
Milwaukee County Central Speed Enforcement Taskforce	\$56,000	Milwaukee	County No	rtheast Spee	ed Enforcem	ent Taskforc	\$28,000	
Milwaukee County Central Occupant Protection Taskforce	\$84,000	Milwaukee	County No	rtheast Occu	ipant Protec	tion Taskfor	(\$49,000	

Participate 🗌 Did not participate	Greendale	Greenfield	Hales Corners	Marquette University	Milwaukee	Oak	River	
Mobilization Campaign	PD	PD	PD	PD	PD	Creek PD	Hills PD	
2017 Drive Sober or Get Pulled Over- Winter Holidays								
2018 Click It or Ticket								
2018 Drive Sober or Get Pulled Over – Labor Day								
2018 Drive Sober or Get Pulled Over- Winter Holidays								
2019 Click It or Ticket								
2019 Drive Sober or Get Pulled Over – Labor Day								
2018 Equipment Grant								
2019 Equipment Grant								
2019 Task Force Participation							11	
Impaired Driving	MC Southwest	MC Southwest	MC Southwest		MC Central	MC Southeast	MC Northeast	
Speed Enforcement	MC Southwest	MC Southwest	MC Southwest		MC Central	MC Southeast	MC Northeast	
Occupant Protection	MC Southwest	MC Southwest	MC Southwest		MC Central	MC Southeast	MC Northeast	
2019 Grant Funded Amount for a Task Force								
Milwaukee County Northwest Impaired Driving Taskforce	\$40,000	Milwaukee	County Sout	heast Impain	red Driving Ta	askforce	\$65,000	
Milwaukee County Northwest Speed Enforcement Taskforce	\$30,000	Milwaukee	County Sout	heast Speed	Enforcement	Taskforce	\$65,000	
Milwaukee County Northwest Occupant Protection Taskforce	\$24,500	Milwaukee	County Sout	heast Occup	ant Protectio	n Taskforce	\$49,000	
Abbreviations: Milwaukee County = MC, DPS = Department of Public Safety, PD = Police Department, SO = Sheriff's Office								

Participate 🗌 Did not participate	Shorewood	South Milwaukee	St Francis	UW- Milwaukee	Wauwatosa	West Allis
Mobilization Campaign	PD	PD	PD	PD	PD	PD
2017 Drive Sober or Get Pulled Over- Winter Holidays						
2018 Click It or Ticket						
2018 Drive Sober or Get Pulled Over – Labor Day						
2018 Drive Sober or Get Pulled Over- Winter Holidays						
2019 Click It or Ticket						
2019 Drive Sober or Get Pulled Over – Labor Day						
2018 Equipment Grant						
2019 Equipment Grant						
2019 Task Force Participation	МС	МС	МС		МС	МС
Impaired Driving	Northeast	Southeast	Southeast	MC Central	Northwest	Northwest
Impaired Driving Speed Enforcement				MC Central MC Central		Northwest MC
	Northeast MC Northeast MC	Southeast MC	Southeast MC Southeast MC		Northwest MC	Northwest MC Northwest MC
Speed Enforcement	Northeast MC Northeast MC	Southeast MC Southeast MC	Southeast MC Southeast MC	MC Central	Northwest MC Northwest MC	Northwest MC Northwest MC
Speed Enforcement Occupant Protection	Northeast MC Northeast MC	Southeast MC Southeast MC	Southeast MC Southeast MC	MC Central	Northwest MC Northwest MC	Northwest MC Northwest MC
Speed Enforcement Occupant Protection 2019 Grant Funded Amount for a Task Force	Northeast MC Northeast MC Northeast	Southeast MC Southeast MC	Southeast MC Southeast MC	MC Central	Northwest MC Northwest MC	Northwest MC Northwest MC
Speed Enforcement Occupant Protection 2019 Grant Funded Amount for a Task Force Milwaukee County Southwest Impaired Driving Taskforce	Northeast MC Northeast Northeast \$63,000	Southeast MC Southeast MC	Southeast MC Southeast MC	MC Central	Northwest MC Northwest MC	Northwest MC Northwest MC

Participate 🗌 Did not participate	West Milwaukee	Whitefish
Mobilization Campaign	PD	Bay PD
2017 Drive Sober or Get Pulled Over- Winter Holidays		
2018 Click It or Ticket		
2018 Drive Sober or Get Pulled Over – Labor Day		
2018 Drive Sober or Get Pulled Over- Winter Holidays		
2019 Click It or Ticket		
2019 Drive Sober or Get Pulled Over – Labor Day		
2018 Equipment Grant		
2019 Equipment Grant		

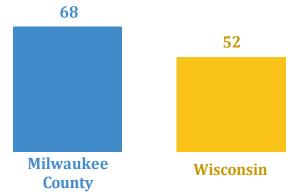
2019 Task Force Participation

Impaired Driving	MC Northwest	MC Northeast					
Speed Enforcement	MC Northwest	MC Northeast					
Occupant Protection	MC Northwest	MC Northeast					
2019 Grant Funded Amount for a Task Force							
Milwaukee County Northwest Impaired Driving Taskforce	\$40,000						
Milwaukee County Northwest Speed Enforcement Taskforce	\$30,000						
Milwaukee County Northwest Occupant Protection Taskforce	\$24,500						

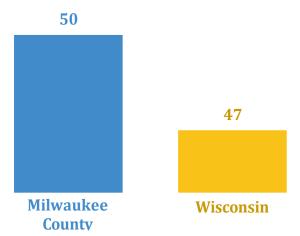
Abbreviations: Milwaukee County = MC, PD = Police Department

Health Impacts and Medical Costs

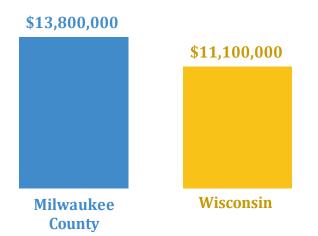
Compared to Wisconsin, **more** people are in a crash in Milwaukee County (per 1,000 residents)⁴



And **more** people are hospitalized due to a crash (per 100,000 residents)⁴

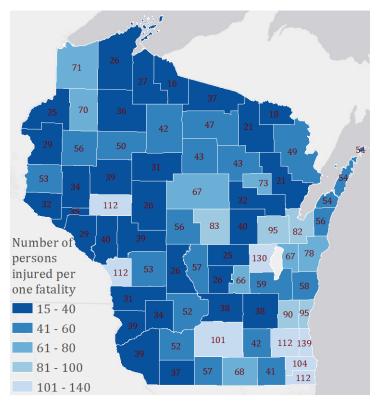


While total medical costs are **higher** (per 100,000 residents)⁴



In Milwaukee County, for every **139 people injured, 1 person is killed**

This is the **injury-to-fatality ratio** and is above average from Wisconsin where the ratio is **74 to 1**.



Injury-to-Fatality Ratio

The injury-to-fatality ratio is computed by dividing the total number of crash injuries by the total number of crash fatalities. A higher ratio is more ideal since fatalities comprise a smaller proportion of total crash victims.

The ratio tends to be lower in rural areas where there's a higher proportion of county and state roads. Higher speed limits means higher crash injury severity. Also rural areas generally suffer from a longer distance to hospitals and fewer emergency response services.

⁴ University of Wisconsin-Madison, Center for Health Systems Research & Analysis. Wisconsin Crash Outcome Data Evaluation System Project. http://www.chsra.wisc.edu/codes/query/overview.html Accessed Oct. 11, 2019.