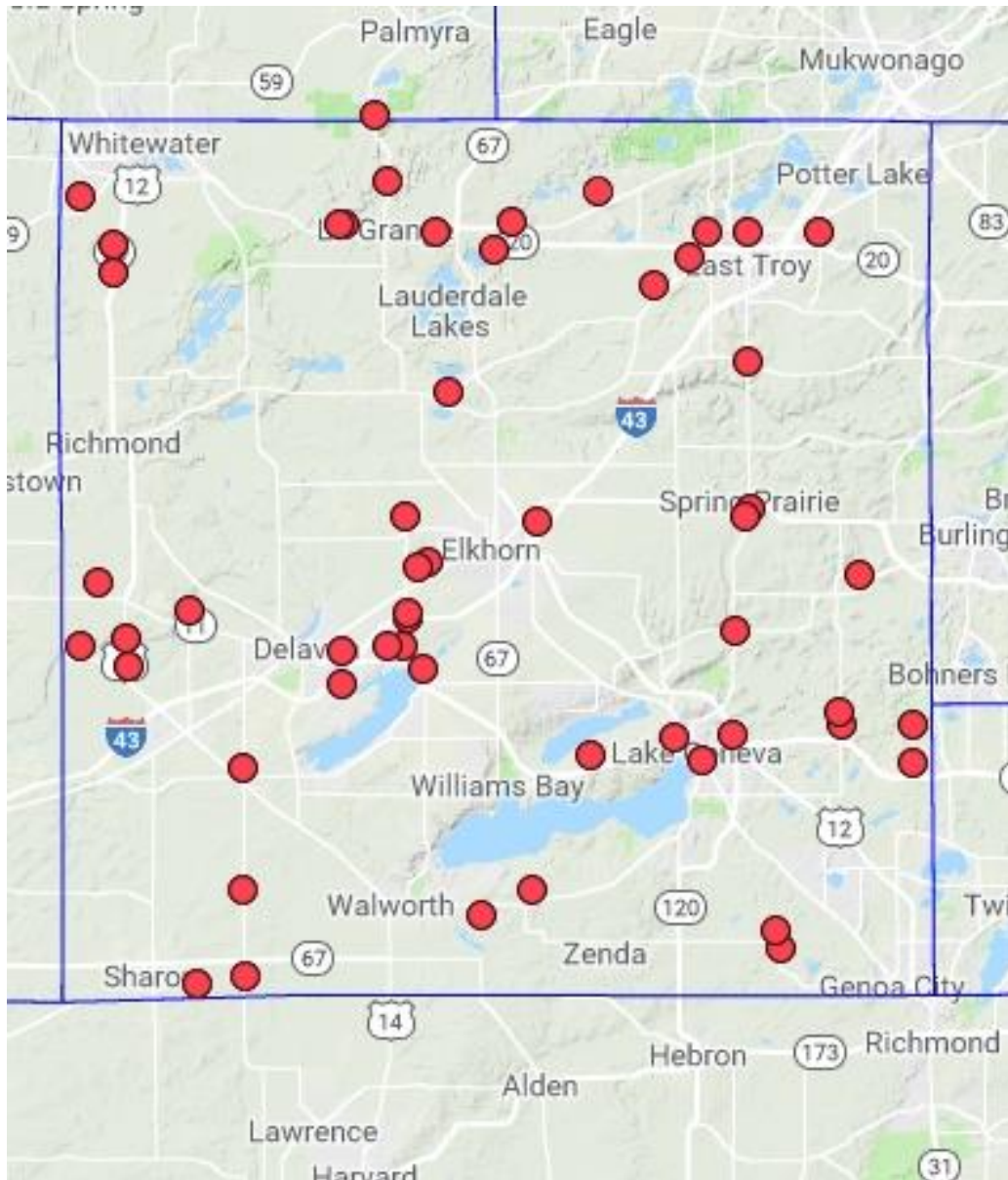


# ANATOMY OF WALWORTH COUNTY: A TRAFFIC SAFETY SUMMARY



There were 65 fatal crashes in Walworth County from 2012 to 2016.

## **THE PLACE**

### *Section Summary*

The principal routes in the county are I-43, USH 12, STH 50, STH 11 west of STH 50 and east of STH 67, and STH 67 between USH 12 and I-43. Walworth County is among the top ten counties in the state for miles of state highways.

### *Urbanization*

Walworth County contains the Whitewater urban cluster. It is adjacent to the Milwaukee-Waukesha-West Allis, Chicago-Naperville-Joliet, Racine, Rockford, and Janesville metropolitan areas as well as the Watertown-Fort Atkinson urban cluster. 65.80% of the population of the county lives in urban areas, and 8.69% of the area of the county is urban.<sup>1</sup>

### *Road Network*

Interstate 43 is a north-south highway that runs from southwest to northeast through the county, traveling through Darien, Delavan, Elkhorn, Troy, and Mukwonago. I-43 carries traffic to and from Beloit to the southwest and Milwaukee via Big Bend, New Berlin, and Greenfield to the northeast. I-43 connects Milwaukee with areas to the south and west of Wisconsin.

United States Highway (USH) 12 is an east-west primary arterial that traverses the county from northwest to southeast, traveling through Whitewater, Elkhorn, Lake Geneva, Bloomfield, and Genoa City, carrying traffic to and from Madison via Fort Atkinson and Cambridge to the northwest and Chicago, Illinois to the southeast via Richmond, Fox Lake, and Lake Zurich in Illinois. USH 12 is a two-lane north and west of Elkhorn. From Elkhorn southeast to Genoa City, USH 12 is a freeway. USH 14 is an east-west highway that goes from northwest to southeast through Darien and Walworth. To the west, USH 14 travels to Janesville, Evansville, and Madison, and to the east it travels to Harvard, Woodstock, and Crystal Lake in Illinois.

State Trunk Highway (STH) 11 goes from west to east through Delavan, Elkhorn, and Burlington. To the east, STH 11 travels to Union Grove, Sturtevant, and Racine, and to the west, it travels to Janesville, Brodhead, and Monroe. STH 11 is a primary arterial east of I-43 as well as from Delavan to the west. STH 50 is a primary arterial that begins at STH 11 in Delavan and heads east near Williams Bay and through Lake Geneva carrying traffic to and from Salem Lakes, Pleasant Prairie, and Kenosha. East of Williams Bay, STH 50 is a multi-lane divided highway.

STH 67 is a north-south highway traveling through Elkhorn, Williams Bay, Fontana-on-Geneva Lake, Walworth, and Sharon. To the north, STH 67 heads to Eagle, Summit, and Oconomowoc. South of Walworth, STH 67 runs west through Sharon toward South Beloit, Illinois. STH 120 begins at I-43 in East Troy, heading south through Lake Geneva. To the south, STH 120 becomes signed as Illinois Route 47, which travels to Hebron, Woodstock, and Huntley in Illinois. STH 36 is a north-south highway that begins at STH 120 in the community of Springfield and heads east toward STH 11, at which point it travels in a concurrency with STH 11 around Burlington. To the north, STH 36 travels to Milwaukee via Waterford, Franklin, and Greenfield. STH 89 begins at the junction of USH 14 and STH 11 in the town of Darien and

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<sup>1</sup> United States Census Bureau. "Percent urban and rural in 2010 by state and county." Accessed Sept. 29, 2017. <https://www.census.gov/geo/reference/ua/urban-rural-2010.html>

heads north, traveling through Whitewater. To the north, STH 89 heads to Fort Atkinson in a concurrency with USH 12, and then it diverges to travel to Lake Mills, Waterloo, and Columbus. STH 20 begins at the junction of USH 12 and STH 67 in the town of La Grange, and it heads east through East Troy to Waterford, Mount Pleasant, and Racine. STH 59 cuts across the northwest corner of the county, traveling through Whitewater. To the west, STH 59 travels to Milton and Edgerton, and to the east, it heads to Palmyra, North Prairie, and Waukesha. STH 83 cuts across the far northeast corner of the county in Mukwonago.

#### *Miles of Roadway*

There are 1,532 miles of roads in the county, of which 216 (14.1%) are state roads, 193 (12.6%) are county roads, and 1,123 (73.3%) are local roads.<sup>2</sup>

#### *Vehicle Registrations and Vehicle Miles of Travel (VMT)*

In 2016, there were 44,074 autos, 7,870 cycles, 8,310 trailers, and 57,948 trucks registered in Walworth County.<sup>3</sup> VMT in 2016 was 1,293,524,595.<sup>4</sup>

#### *Traffic Volume*

As can be seen in Figure 1, traffic volumes in Walworth County are highest in the central portion of the county, near Elkhorn, at the intersection of Interstate 43 and Highway 12. The maximum daily VMT in the county is measured at slightly over 26,000.

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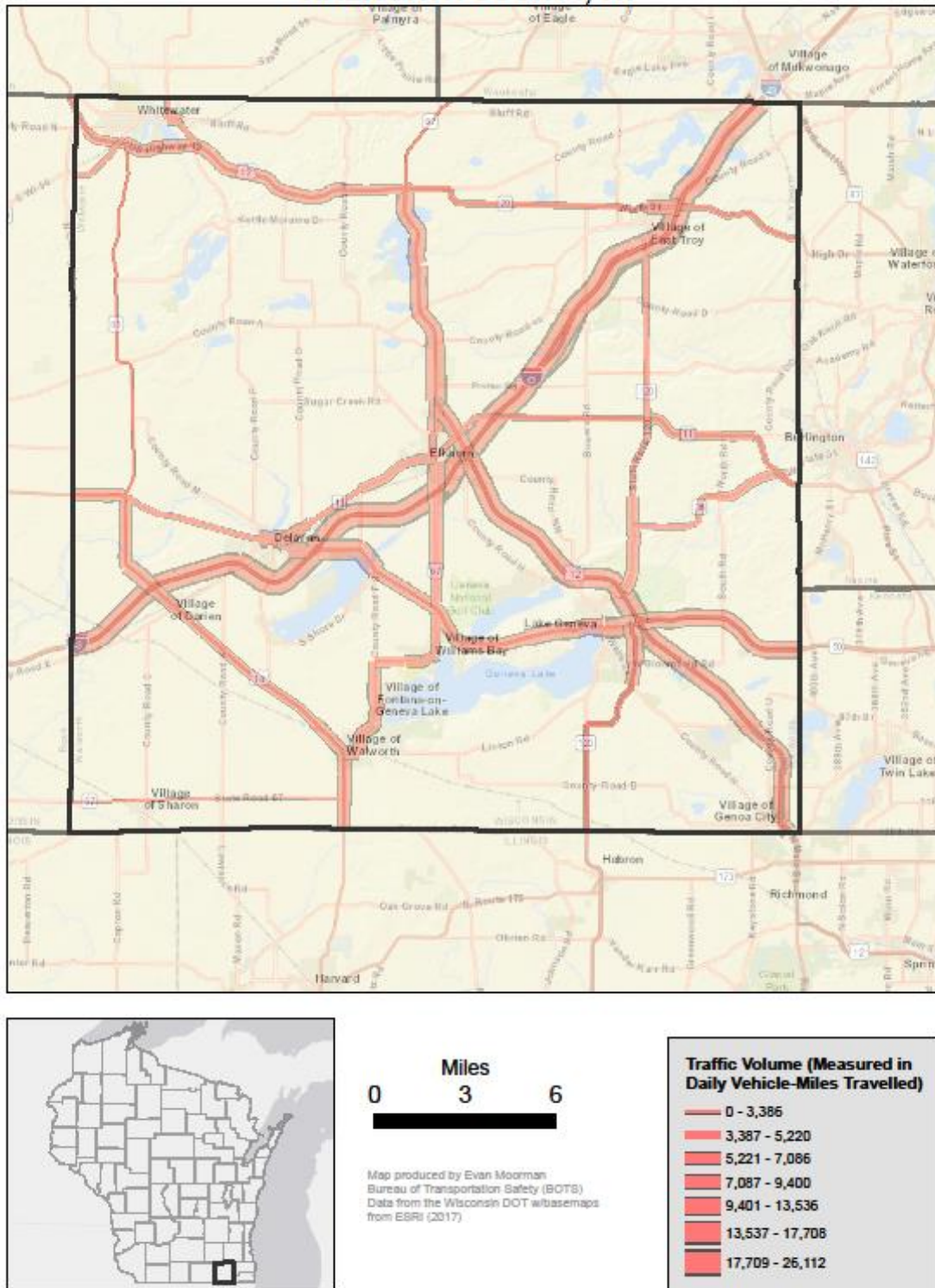
<sup>2</sup> Wisconsin Department of Transportation. "County Maps." Accessed Sept. 29, 2017. <http://wisconsindot.gov/Pages/travel/road/hwy-maps/county-maps/default.aspx>

<sup>3</sup> Wisconsin Department of Transportation. "Facts and Figures 2016, Vehicles Registered by County." Accessed Nov. 6, 2017. <http://wisconsindot.gov/Documents/about-wisdot/newsroom/statistics/factsfig/vehregcounty.pdf>

<sup>4</sup> Wisconsin Department of Transportation. "2016 Vehicles Miles of Travel (VMT) by County." Accessed Nov. 6, 2017. <http://wisconsindot.gov/Documents/projects/data-plan/veh-miles/vmt2016-c.pdf>

**FIGURE 1:**

## TRAFFIC VOLUME ON THE STATE TRUNK NETWORK WALWORTH COUNTY, WI



## Commuting Flows

As seen below in Figure 2, the majority of workers who reside in Walworth County also work in Walworth County, and vice versa.

**FIGURE 2: COMMUTING FLOWS AMONG COUNTIES**

Workers who Reside in Walworth County Work in:		People who Work in Walworth County Reside in:	
Walworth County	31,380	Walworth County	31,380
Waukesha County	4,261	Rock County	3,230
Milwaukee County	2,576	Jefferson County	2,434
Racine County	2,546	Racine County	2,102
McHenry County, IL	2,477	Waukesha County	1,268
Rock County	1,393	Kenosha County	1,187
Jefferson County	1,324	McHenry County, IL	952
Lake County, IL	1,295	Dane County	512
Cook County, IL	944	Milwaukee County	443
Kenosha County	745	Lake County, IL	275
Dane County	561	Winnebago County, IL	218
Winnebago County, IL	251	Cook County, IL	183
DuPage County, IL	134	Boone County, IL	165
Boone County, IL	128	Washington County	81
Others	947	Others	393

5

As seen below in Figure 3, the most common commuting flow between two different municipalities is between residences in the town of Delavan and workplaces in Delavan.

**FIGURE 3: COMMUTING FLOWS BETWEEN MUNICIPALITIES (TOP 15)<sup>6</sup>**

Residence	Place of Work	Number
Delavan (Town)	Delavan	680
Geneva (Town)	Lake Geneva	652
Elkhorn	Delavan	637
Bloomfield	McHenry Co., Illinois [all municipalities]	479
La Grange (Town)	Elkhorn	457
Elkhorn	Lake Geneva	422
Whitewater (Walworth Co. portion)	Fort Atkinson	403
Bloomfield	Lake Co., Illinois [all municipalities]	392
Janesville	Whitewater (Walworth Co. portion)	382
Delavan	Elkhorn	378
Fort Atkinson	Whitewater	375
Genoa City	McHenry Co., Illinois [all municipalities]	372
Lake Geneva	McHenry Co., Illinois [all municipalities]	372
Sugar Creek (Town)	Elkhorn	368
Lyons (Town)	Burlington	314

<sup>5</sup>United States Census Bureau. 2009-2013 5-Year American Community Survey Commuting Flows. <https://www.census.gov/data/tables/time-series/demo/commuting/commuting-flows.html> Accessed Sept. 29, 2017.

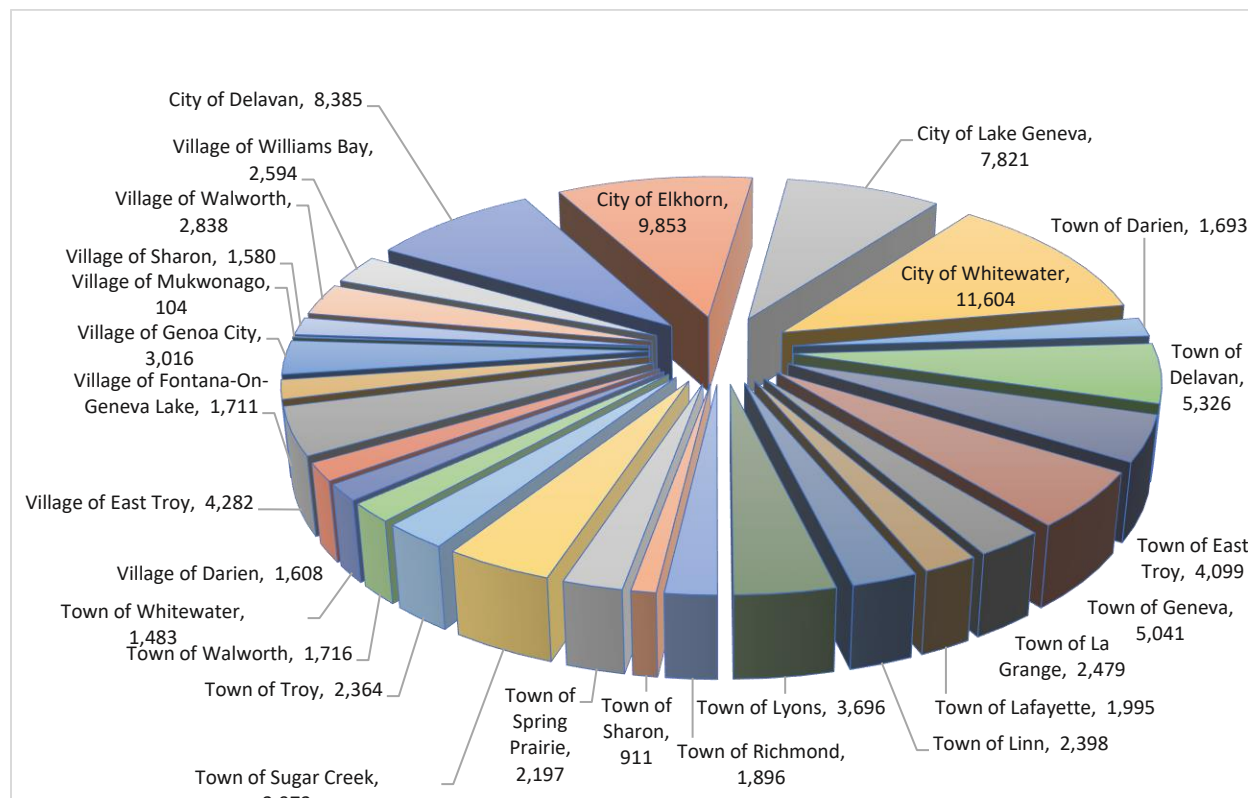
<sup>6</sup>United States Census Bureau. 2009-2013 5-Year American Community Survey Commuting Flows. <https://www.census.gov/data/tables/time-series/demo/commuting/commuting-flows.html> Accessed Oct. 5, 2017.



## THE POPULATION

The population of Walworth County—almost 97,000 individuals—is distributed through 27 jurisdictions, with the largest jurisdictions being the city of Whitewater, the city of Elkhorn, and the city of Delavan (in that order). However, these three largest jurisdictions only comprise less than a third of the county’s total population; the rest of the population inhabits many smaller jurisdictions.

**FIGURE 4: POPULATION OF WALWORTH COUNTY MUNICIPALITIES (2016)**

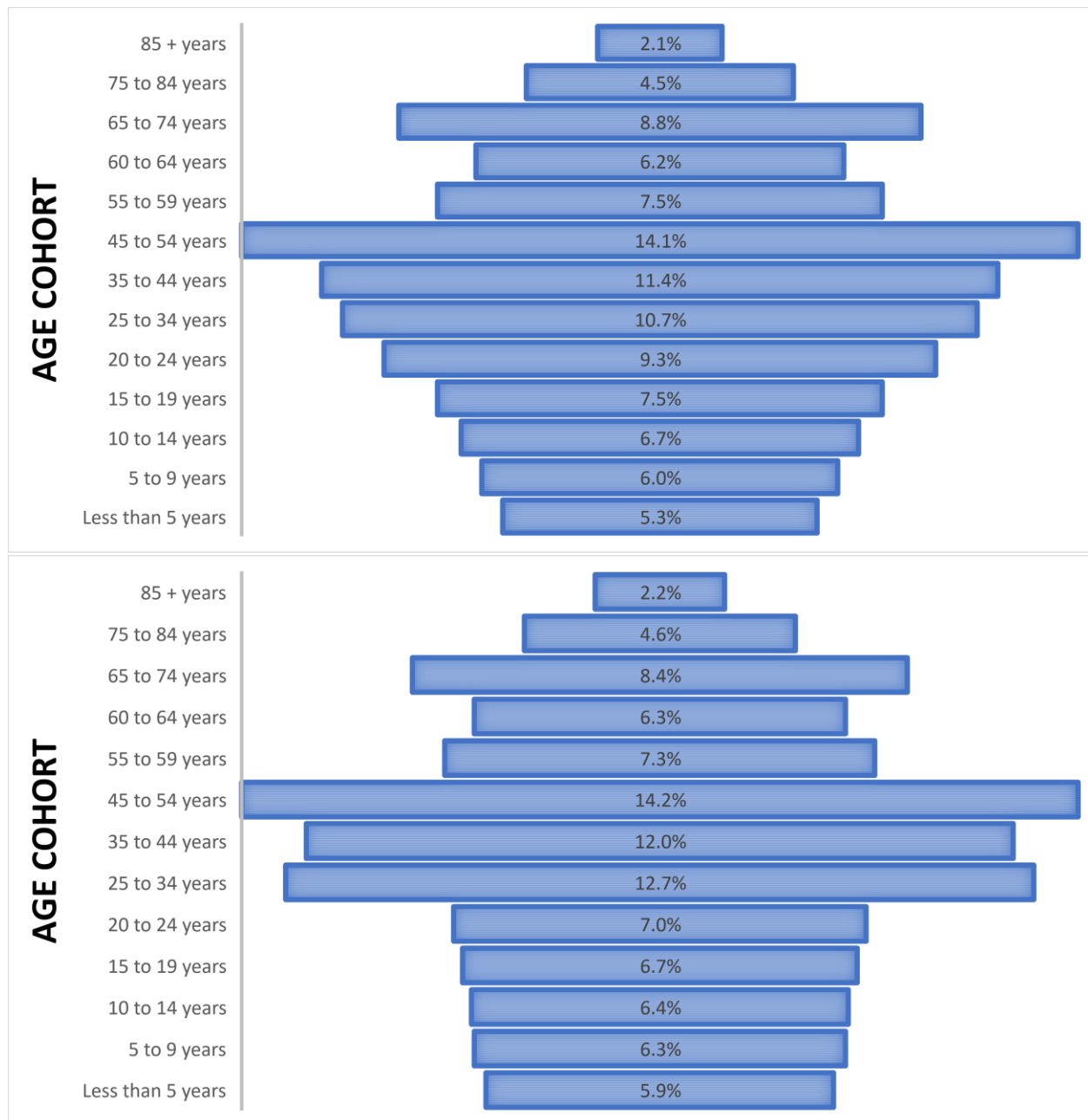


### Population Trends

Between 2010 and 2016, the county’s population increased by about 1.2%. The average age of the county is slightly younger than that of the state (37.5 vs. 39 years). Walworth County’s population pyramid is thus more “bottom-heavy” than Wisconsin’s population pyramid.

<sup>7</sup> United States Census Bureau. “Selected Economic Characteristics DP03, Employment Status.” 2012-2016 American Community Survey 5-Year Estimates. [https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_DP03&src=pt](https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_DP03&src=pt) Accessed November 4th, 2017.

**FIGURE 5 <sup>8</sup>: POPULATION PYRAMIDS (WALWORTH COUNTY ABOVE AND STATE BELOW)**



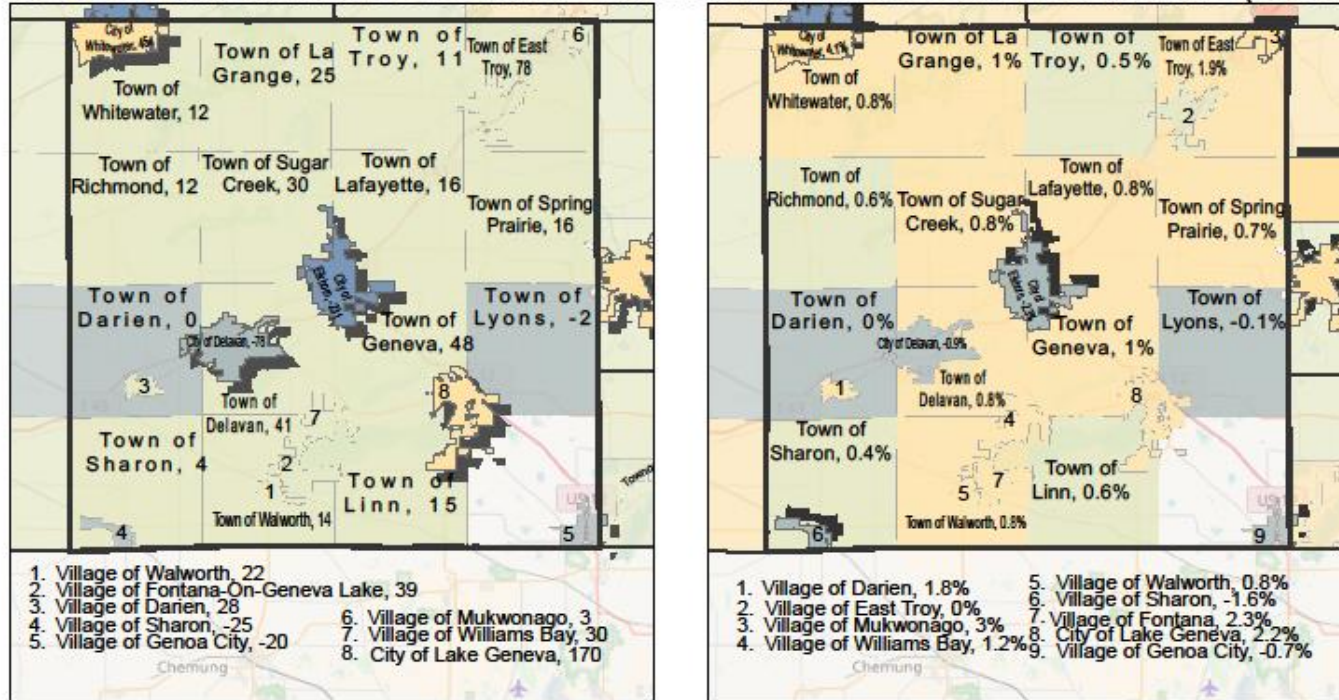
Most jurisdictions in the county are either slightly losing population or slightly gaining population (with changes ranging from -2% to +2%). (In Figure 6, the measure of absolute population change merely shows the raw population changes between 2010 and 2016, while the measure of “relative population change” weights such absolute changes by the base population figures of 2010).<sup>9</sup>

<sup>8</sup> United States Census Bureau. “Selected Economic Characteristics DP03, Employment Status.” 2012-2016 American Community Survey 5-Year Estimates. [https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_DP03&src=pt](https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_DP03&src=pt) Accessed November 6th, 2017.

<sup>9</sup> The highlighted jurisdiction in the image shows the two jurisdictions that are growing fastest and the two jurisdictions growing the slowest.

FIGURE 6:

# ABSOLUTE AND RELATIVE POPULATION CHANGES WALWORTH COUNTY MUNICIPALITIES (2010-2016)



0 5 10 20  
Miles

## Absolute Population Changes



Produced by E. Moorman, Bureau of Transportation Safety and the Division of State Patrol,  
Data from ESRI and the US Census Bureau, 2016

## Relative Population Changes



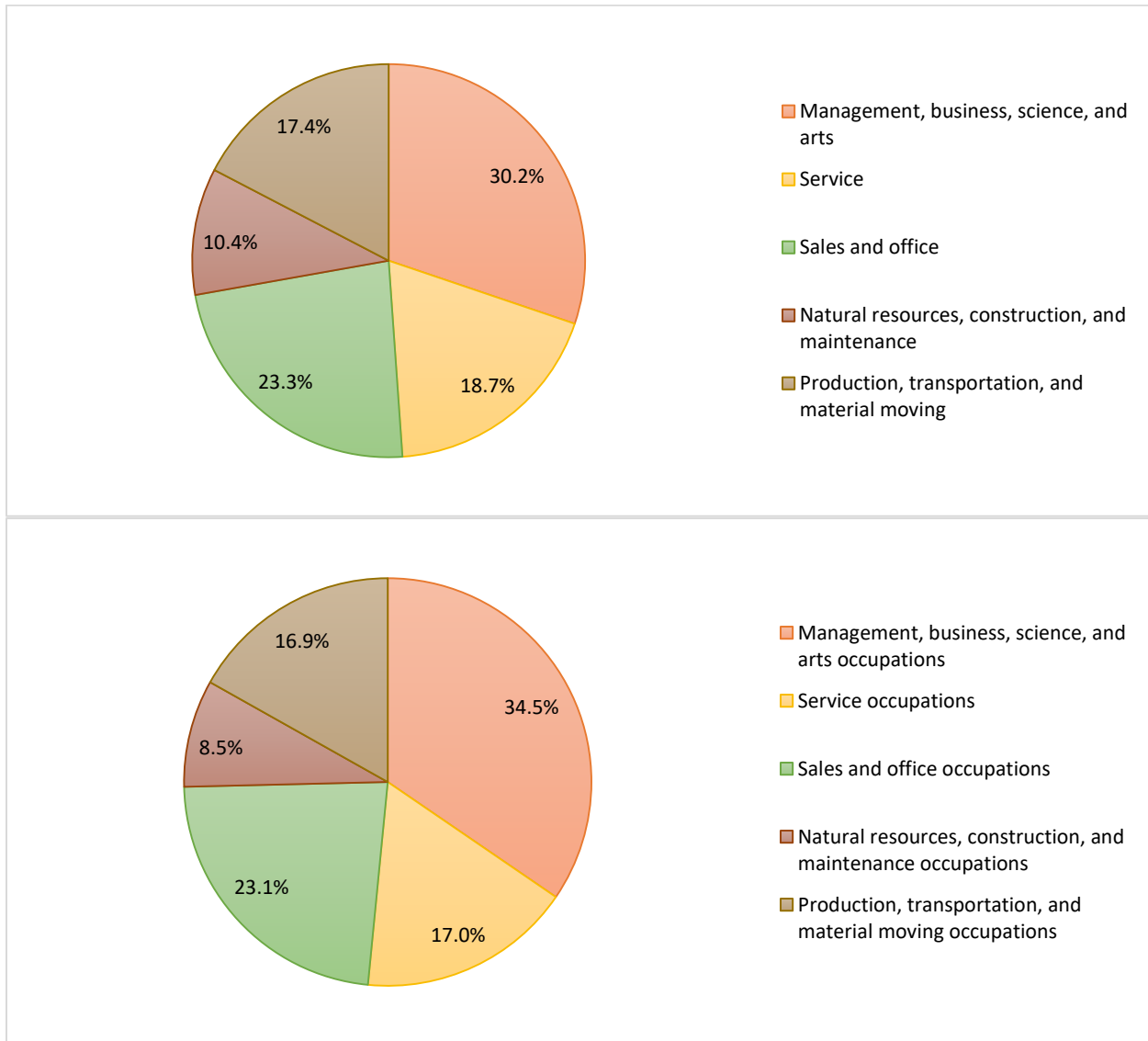


## THE ECONOMY

### Section Summary

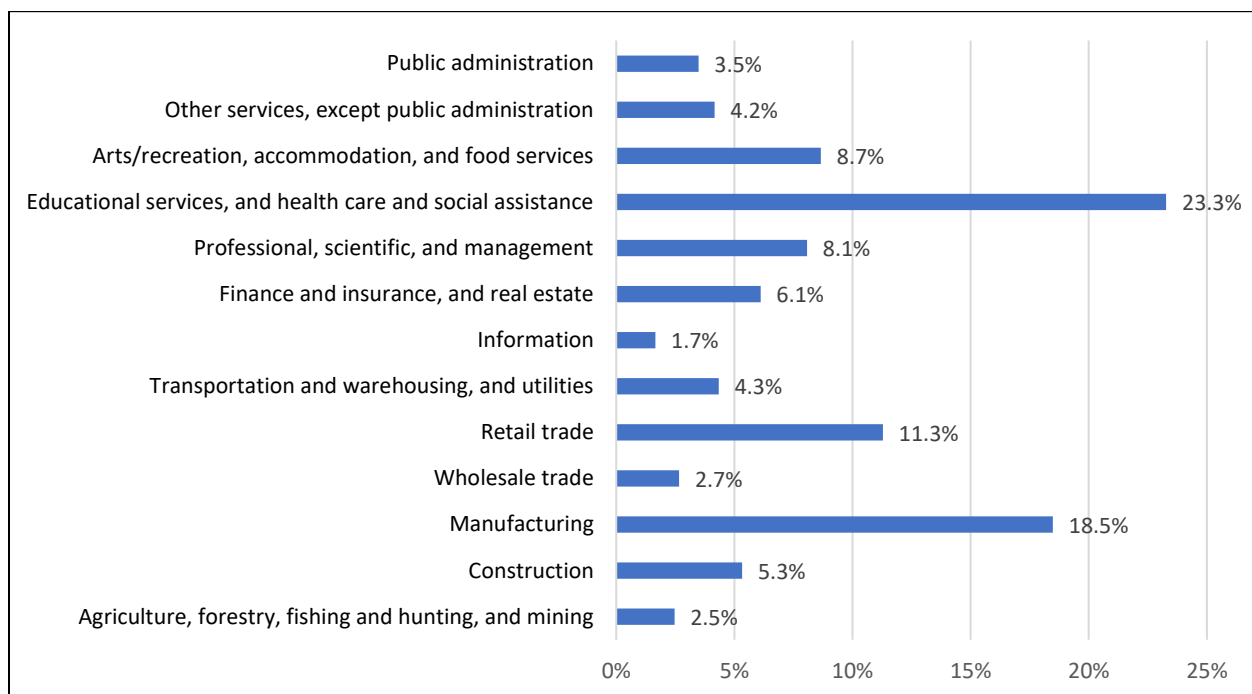
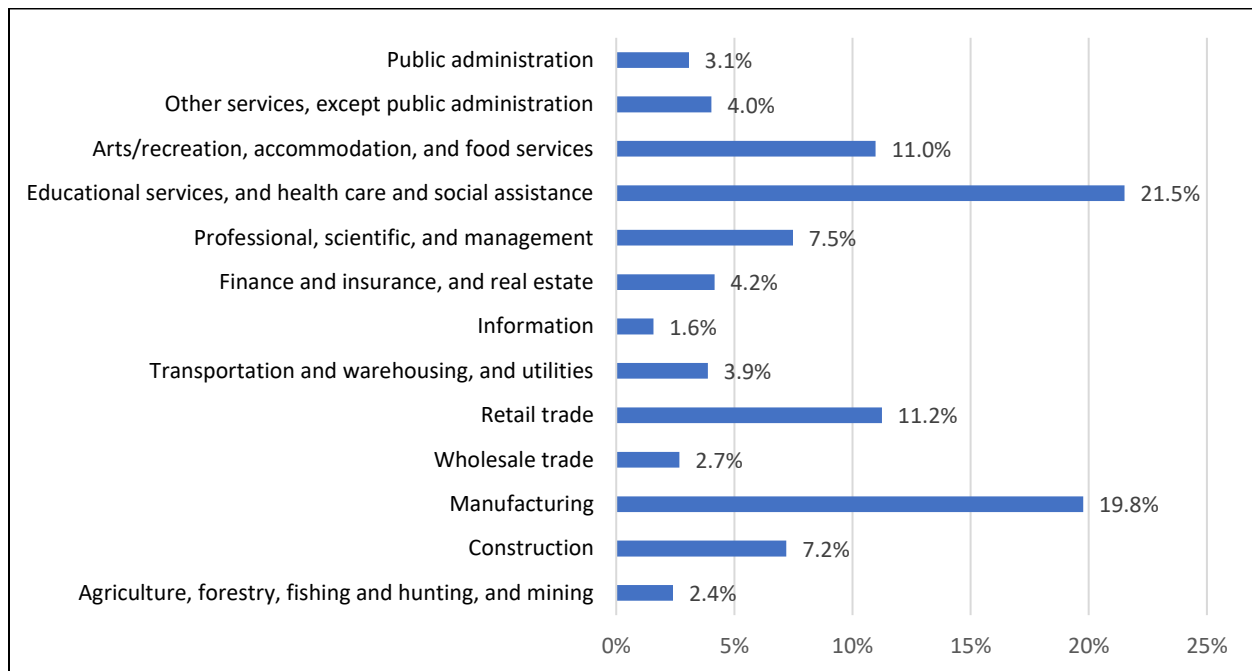
The unemployment rate in Walworth County has been, on average, 0.1% higher than that of the state over the last decade. The county has a fairly typical distribution for types of occupations and types of industries.

**FIGURE 7: EMPLOYMENT BY OCCUPATION (WALWORTH ON TOP AND THE STATE BELOW)**<sup>10</sup>



<sup>10</sup> United States Census Bureau. "Selected Economic Characteristics DP03, Employment Status." 2011-2015 American Community Survey 5-Year Estimates. [https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_DP03&src=pt](https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_DP03&src=pt) Accessed September 29, 2017.

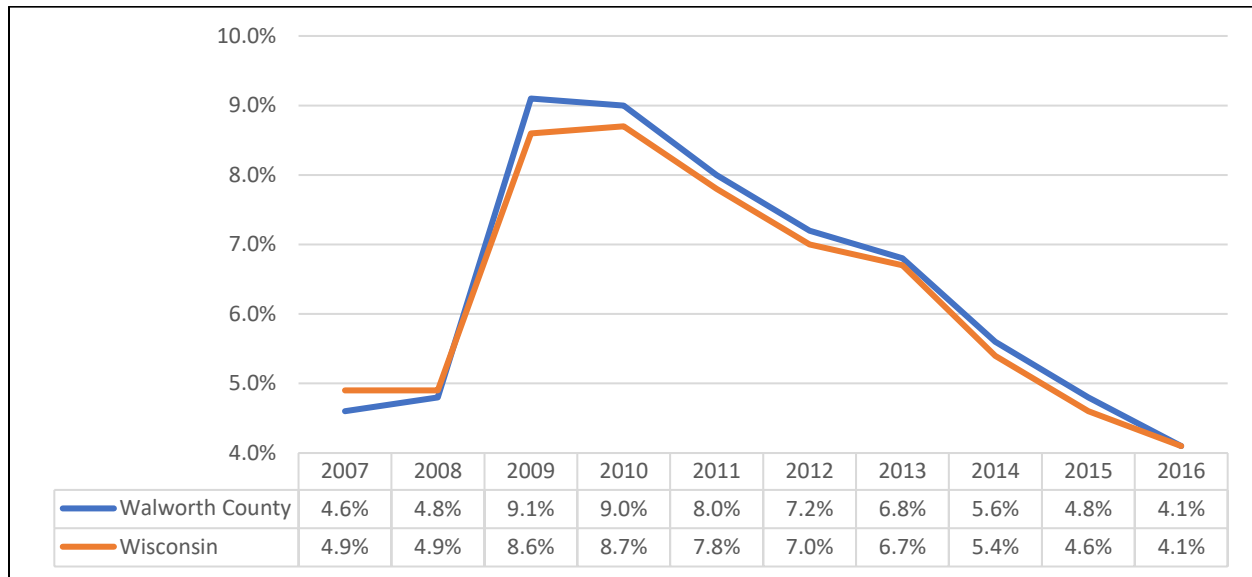
**FIGURE 8: EMPLOYED POPULATION BY INDUSTRY (WALWORTH ON TOP AND STATE BELOW)**



11

<sup>11</sup> United States Census Bureau. "Selected Economic Characteristics DP03, Employment Status." 2011-2015 American Community Survey 5-Year Estimates. [https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS\\_15\\_5YR\\_DP03&src=pt](https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_15_5YR_DP03&src=pt) Accessed September 29, 2017.

**FIGURE 9: UNEMPLOYMENT RATES, WALWORTH COUNTY AND WISCONSIN, 2007-2016**



12

<sup>12</sup> United States Department of Labor, Bureau of Labor Statistics. Local Area Unemployment Statistics. "Labor Force Data by County," annual averages. <https://www.bls.gov/lau/#tables> Accessed Sept. 29, 2017.

## ALCOHOL RISK FACTORS

### Section Summary

Nearly 60% of licensees have liquor for sale for consumption on site. Eighteen percent of licensees are in Lake Geneva, 12% are in Whitewater, 8% are in Delavan, and 30% are in towns.

**FIGURE 10: ALCOHOL BEVERAGE LICENSES BY JURISDICTION, WALWORTH COUNTY**

	AB or AC	AL or ALB	BB or CW	BL or BLB	Others	Total (By Municipality)
Bloomfield		2		10		12
Darien	1	2	1	4		8
City of Delavan		6	8	12		26
Village of East Troy	1	6	2	6		15
Elkhorn		3	2	13		18
Fontana-on-Geneva Lake		1	4	7		12
Genoa City	1	3	2	4		10
Lake Geneva	1	16	12	28	1	58
Sharon		1		1		2
Walworth	4	3	4	5		16
Whitewater	6	4	6	24		40
Williams Bay		5	2	3		10
Town of Delavan		2	4	11		17
Town of East Troy				7		7
Town of Geneva		1	1	15		17
Town of Linn	1	1	1	5		8
Town of Troy				1		1
Other Towns	1	7	3	37		48
<b>Total (By Liq. License)</b>	<b>16</b>	<b>63</b>	<b>52</b>	<b>193</b>	<b>1</b>	<b>325</b>

<sup>13</sup>

Establishments within a municipality but outside the county are not included in the table.

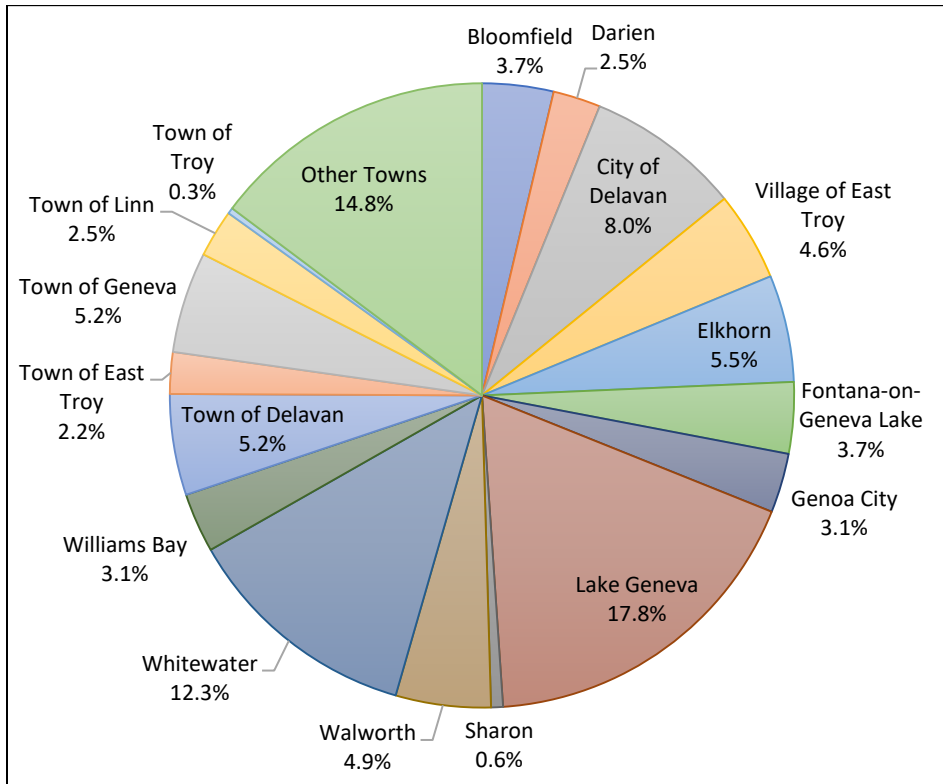
CODE	DESCRIPTION
AB	Beer for sale off site (convenience stores, grocery stores)
AC	Cider for sale off site (convenience stores, grocery stores)
AL	Liquor for sale off site (drug stores, wineries)
ALB	Beer, wine, or liquor for sale off site
BB	Beer for sale on site or off site
BL	Liquor for sale on site (winery)
BLB	Beer or liquor for sale on site (taverns, supper clubs)
CW	Wine for sale on site (restaurants) (usually in conjunction with BB)

<sup>14</sup>

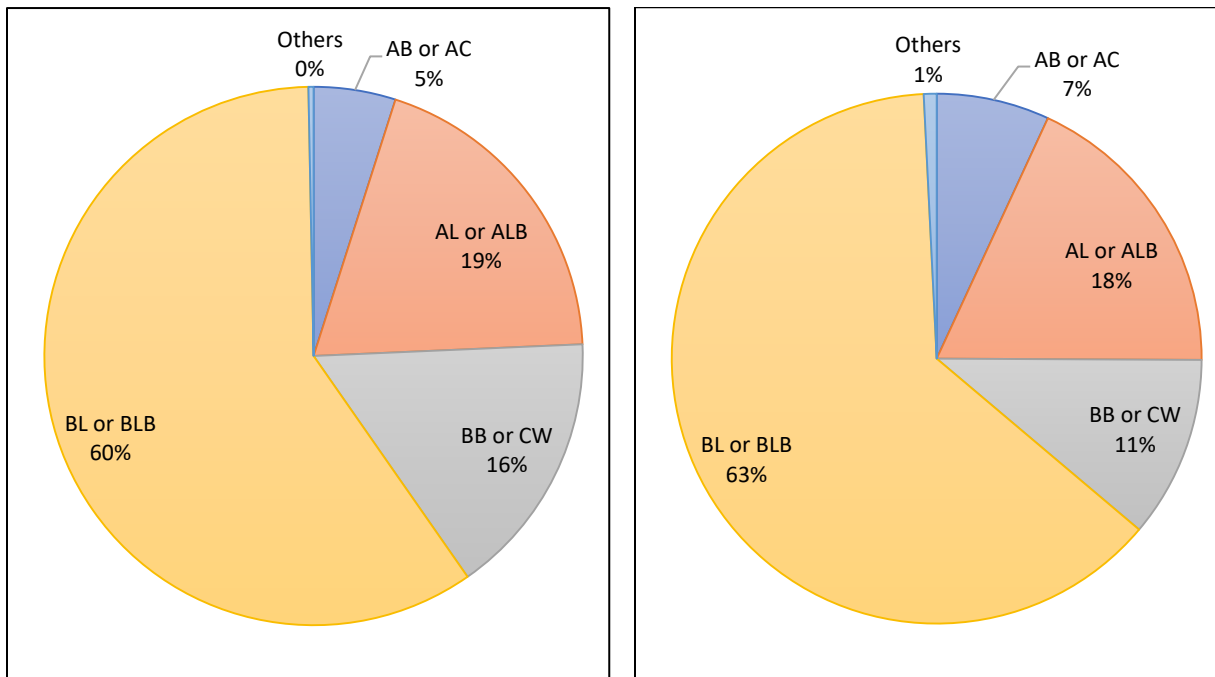
<sup>13</sup> Wisconsin Department of Revenue. Oct. 4, 2017. "WI Liquor Licenses 2017-18."

<sup>14</sup> Wisconsin Department of Revenue. "Liquor License Report, Liquor License Codes." <https://www.revenue.wi.gov/Pages/OnlineServices/liqlcprt.aspx>. Accessed Oct. 25, 2017.

**FIGURE 10.2: ALCOHOL LICENSES IN WALWORTH COUNTY BY JURISDICTION**



**FIGURE 11: ALCOHOL BEVERAGE LICENSES BY TYPE, 2017-2018 (WALWORTH COUNTY ON THE LEFT, STATE ON THE RIGHT)**





## **HEALTH INFRASTRUCTURE**

### *Injury-to-Death Ratios*

Injury-to-death ratios are computed by dividing the total number of crash injuries by the crash fatalities. Higher rates are positive in that fatalities comprise a smaller percentage of crash victims. In general, higher rates are found in the state's urbanized southeastern and south-central regions and the Fox Valley, where crashes are more likely to occur in more developed areas (and thus at slower speeds). In rural areas, the converse is true (highways and county roads predominate, with crashes occurring at higher average speeds). Generally, rural areas also suffer from a relative lack of proximate hospitals and emergency response services, which means that some crashes which would be survivable in urban areas correspond to fatalities in more rural areas.

Between 2012 and 2017, as can be seen in Figure 12, Walworth County reported a far lower injury-to-death ratio than the state generally (39.1 vs. 73.1).

### *Emergency Services*

As can be seen in Figure 13, Walworth County contains two trauma centers within its borders, both of which are ranked level III.<sup>15</sup> The closest level II trauma center is located either in Rock County or in Illinois depending upon the exact location of the crash. The closest level I trauma center is located in Dane County or Milwaukee County (again, depending upon the exact location of the crash).

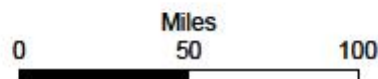
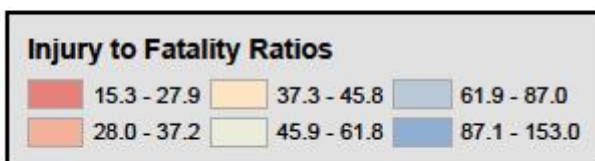
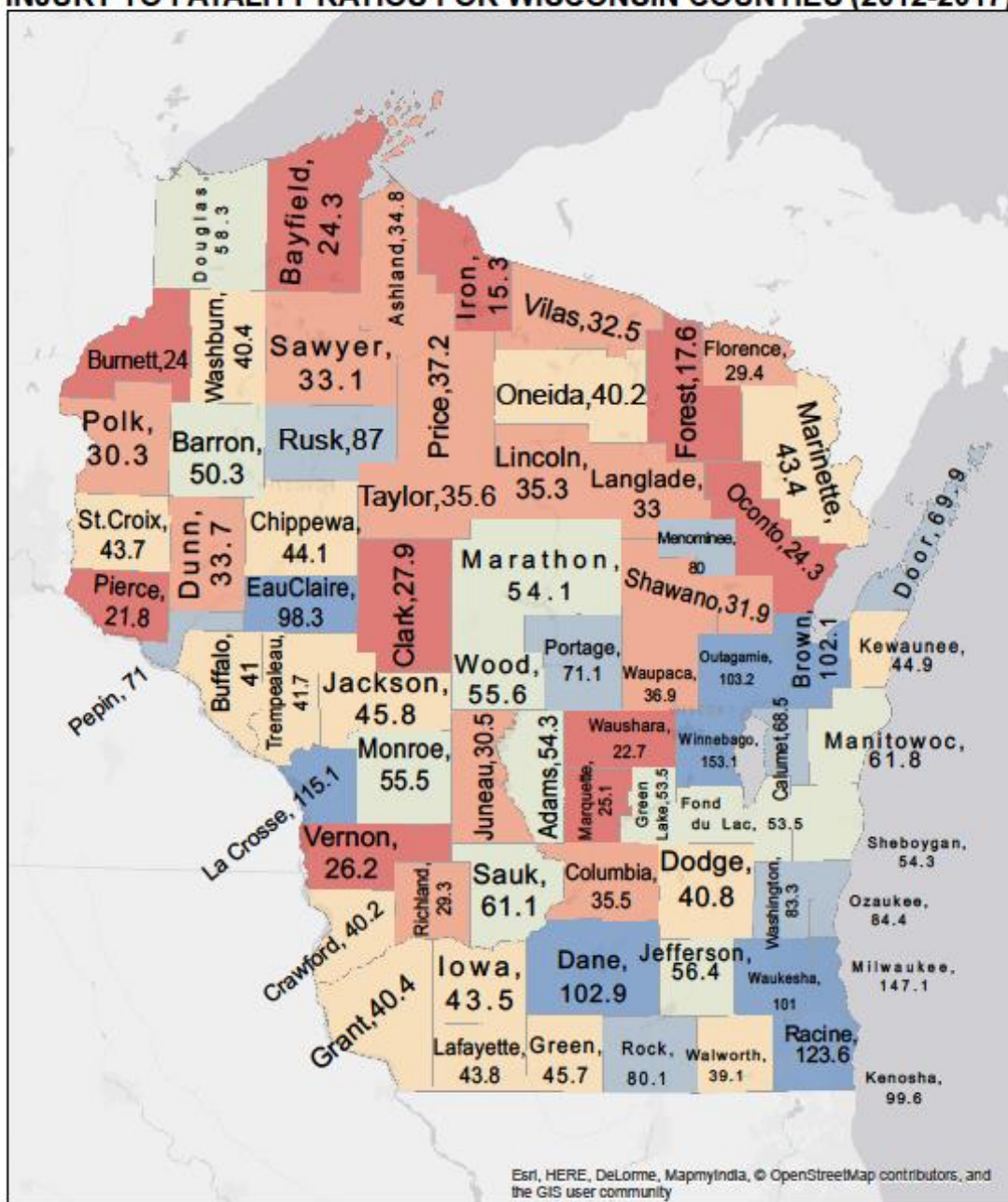
Walworth County maintains 10 different emergency providers (Figure 14). This company employs 480 emergency personnel. Consequently, the county is the site of 4.60 emergency response personnel per 1,000 residents. This is higher than the state figure of 4.02 emergency response personnel per 1,000 residents.

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<sup>15</sup> The trauma capacities of hospitals are rated on a I-IV scale, with some remaining unrated; Level I hospitals have the greatest capacity. In the image, brighter colors show hot spots, where crash numbers are (locally) concentrated.

FIGURE 12:

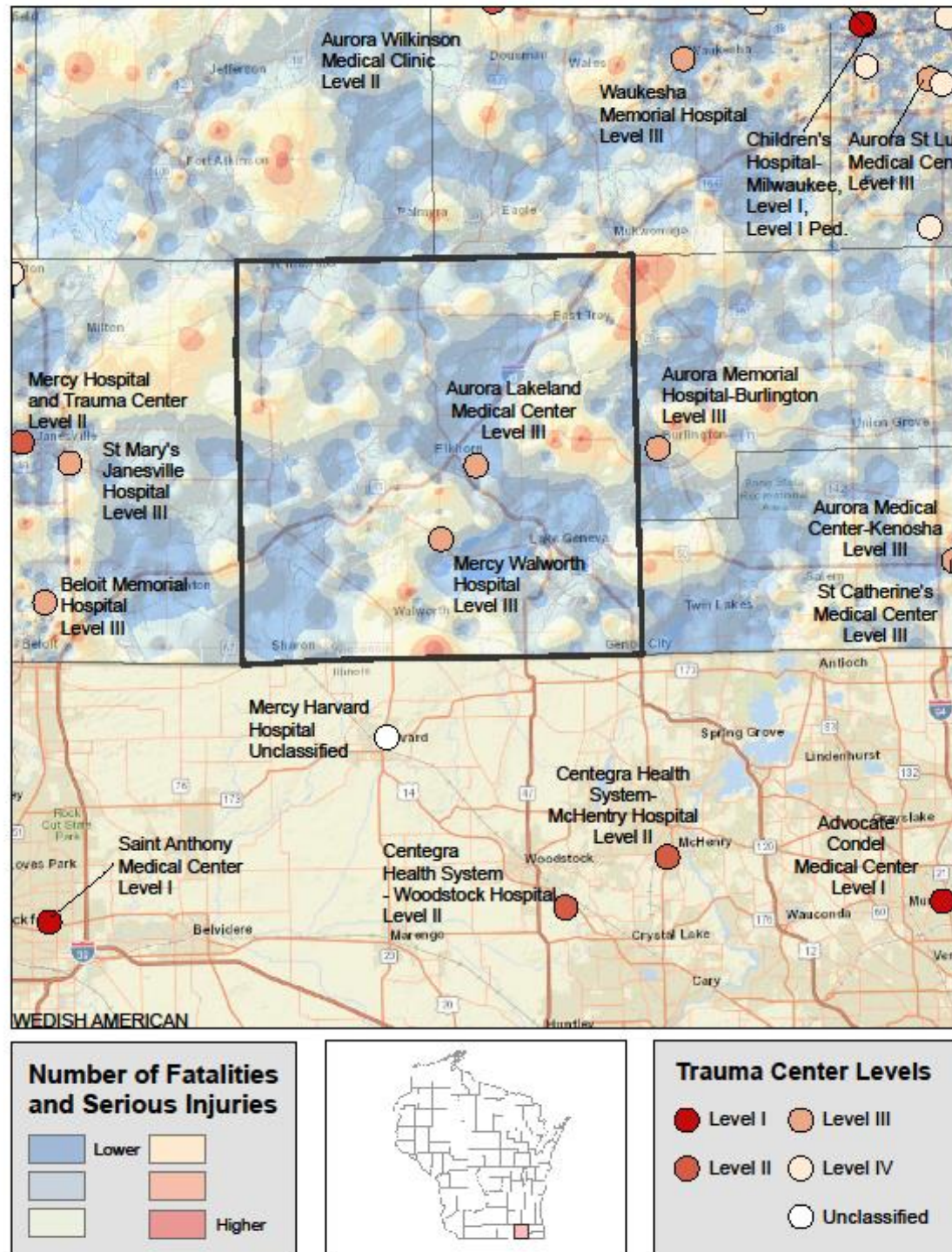
# INJURY TO FATALITY RATIOS FOR WISCONSIN COUNTIES (2012-2017)



Prepared by Evan Moorman, 2017  
Bureau of Transportation Safety, Division of State Patrol  
Data from WisTransPortal and ESRI

FIGURE 13:

# **WALWORTH COUNTY FATALITIES AND SERIOUS INJURIES (2014-2017) WITH MAP OF HOSPITALS**





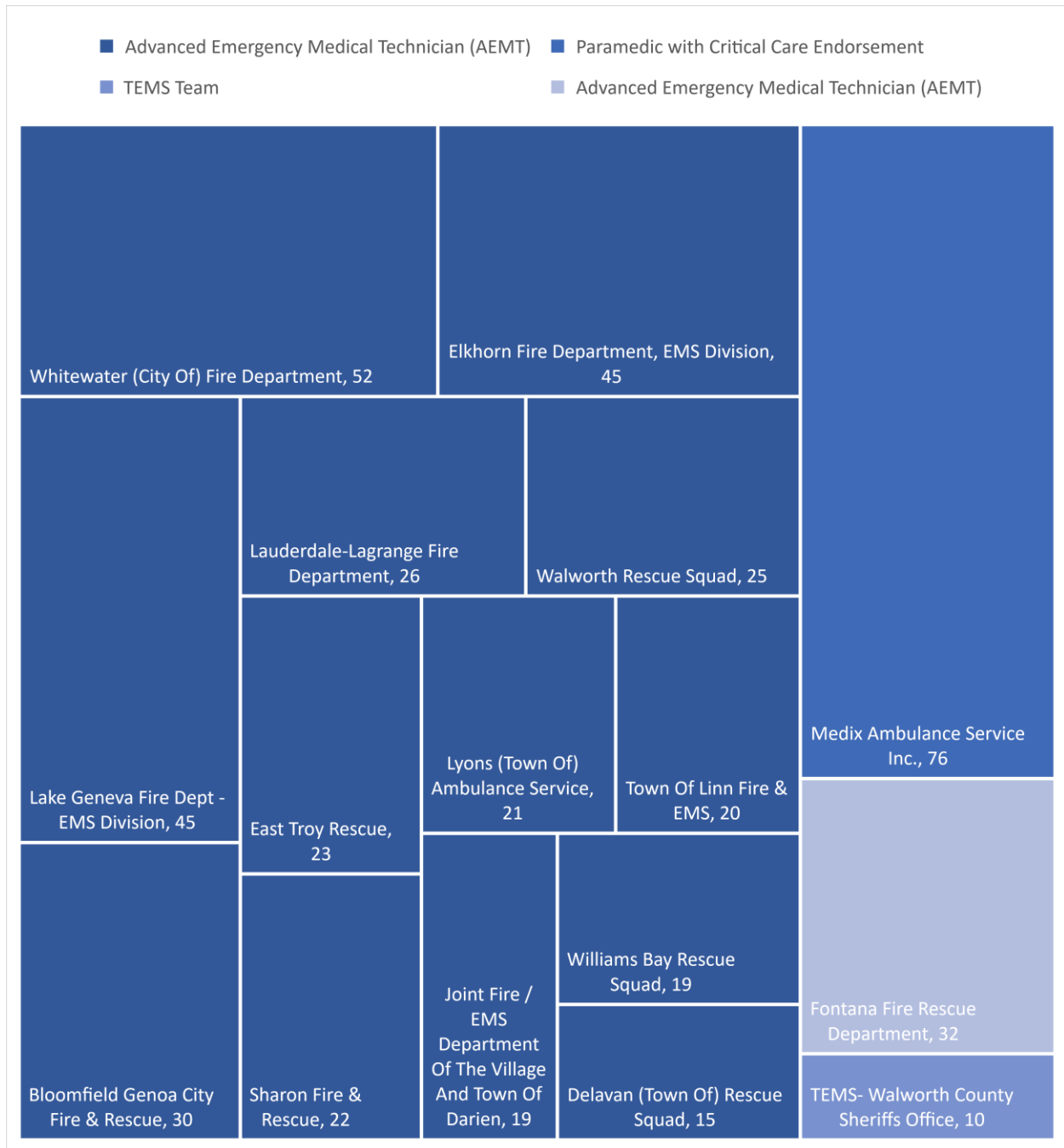
**FIGURE 14: NUMBER OF EMT PERSONNEL/JURISDICTION <sup>16</sup>**

<b>Service License Level</b>	<b>Service Name</b>	<b>Number of Personnel</b>
Advanced Emergency Medical Technician (AEMT)	Whitewater (City of) Fire Department	52
Advanced Emergency Medical Technician (AEMT)	Elkhorn Fire Department, EMS Division	45
Advanced Emergency Medical Technician (AEMT)	Lake Geneva Fire Department - EMS Division	45
Advanced Emergency Medical Technician (AEMT)	Bloomfield Genoa City Fire & Rescue	30
Advanced Emergency Medical Technician (AEMT)	Lauderdale-Lagrange Fire Department	26
Advanced Emergency Medical Technician (AEMT)	Walworth Rescue Squad	25
Advanced Emergency Medical Technician (AEMT)	East Troy Rescue	23
Advanced Emergency Medical Technician (AEMT)	Sharon Fire & Rescue	22
Advanced Emergency Medical Technician (AEMT)	Lyons (Town of) Ambulance Service	21
Advanced Emergency Medical Technician (AEMT)	Town of Linn Fire & EMS	20
Advanced Emergency Medical Technician (AEMT)	Joint Fire / EMS Department of The Village and Town of Darien	19
Advanced Emergency Medical Technician (AEMT)	Williams Bay Rescue Squad	19
Advanced Emergency Medical Technician (AEMT)	Delavan (Town of) Rescue Squad	15
Paramedic with Critical Care Endorsement	Medix Ambulance Service Inc.	76
TEMS Team	TEMS- Walworth County Sheriff's Office	10
Advanced Emergency Medical Technician (AEMT)	Fontana Fire Rescue Department	32

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<sup>16</sup> Department of Health Services, 2017, Received through Happel, C.

**FIGURE 14.2: NUMBER AND LEVEL OF EMERGENCY RESPONDERS PER JURISDICTION**





## **THE CRASHES**

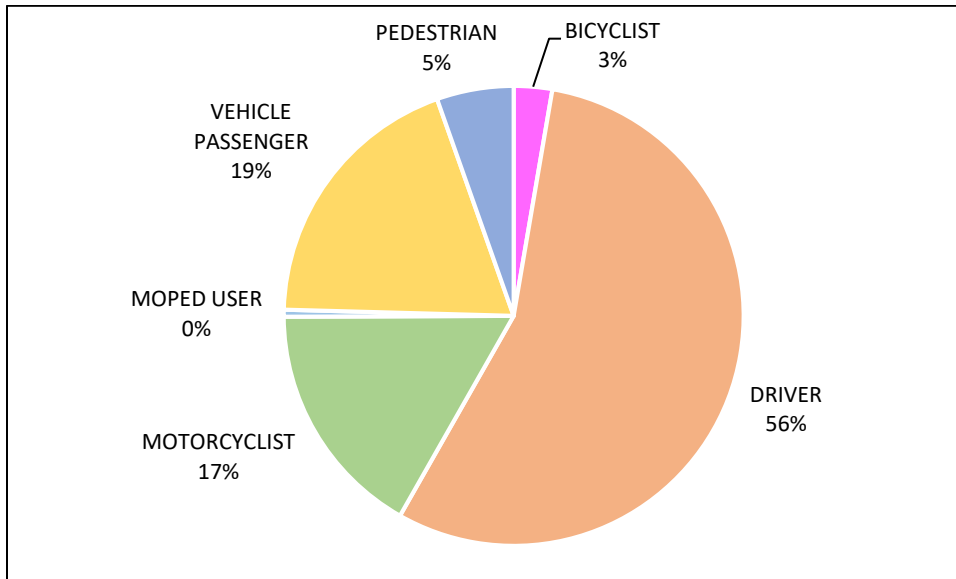
*The State of Wisconsin, in a months-long process, solicited input from a diverse variety of stakeholders to create the most recent version of our Strategic Highway Safety Plan (SHSP), a document that guides investment and safety decisions for three years. The plan has ten different issue areas. General crash-related statistics for Walworth County are listed below, and then facts and figures are organized to correspond with these ten issue areas.*

### **GENERAL CRASH-RELATED STATISTICS**

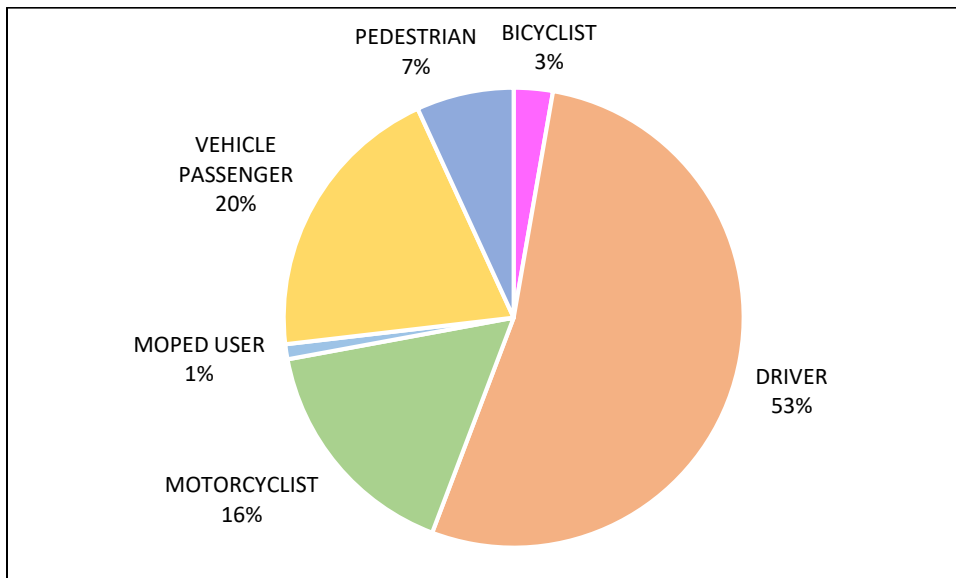
**FIGURE 15: NUMBER OF CRASHES BY MOST SEVERE INJURY IN THE CRASH AND PERSONS INVOLVED IN CRASHES BY INJURY SEVERITY**

	2012		2013		2014		2015		2016		2012-2016 Average	
	Crashes	Persons	Crashes	Persons	Crashes	Persons	Crashes	Persons	Crashes	Persons	Crashes	Persons
Fatality	13	14	11	11	10	12	13	14	18	23	13.0	14.8
Incapacitating Injury	71	85	55	70	39	48	49	62	54	68	53.6	66.6
Non-Incapacitating Injury	155	206	161	216	176	229	177	245	190	254	171.8	230.0
Possible Injury	195	304	198	291	216	288	204	326	243	354	211.2	312.6
No Apparent Injury	1,171	2,572	1,374	2,996	1,296	2,887	1,267	2,896	1,424	3,344	1,306.4	2,939.0
Totals	1,605	3,181	1,799	3,584	1,737	3,464	1,710	3,543	1,929	4,043	1,756.0	3,563.0

**FIGURE 16: FATALITIES AND INCAPACITATING INJURIES BY ROLE, WALWORTH COUNTY, 2012-2016**

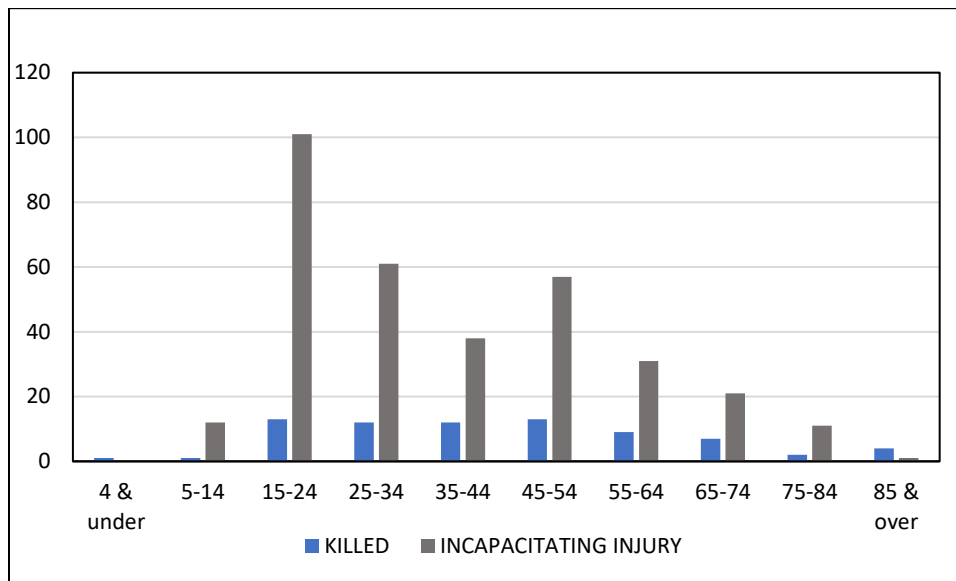


**FIGURE 17: FATALITIES AND INCAPACITATING INJURIES BY ROLE, WISCONSIN, 2012-2016**

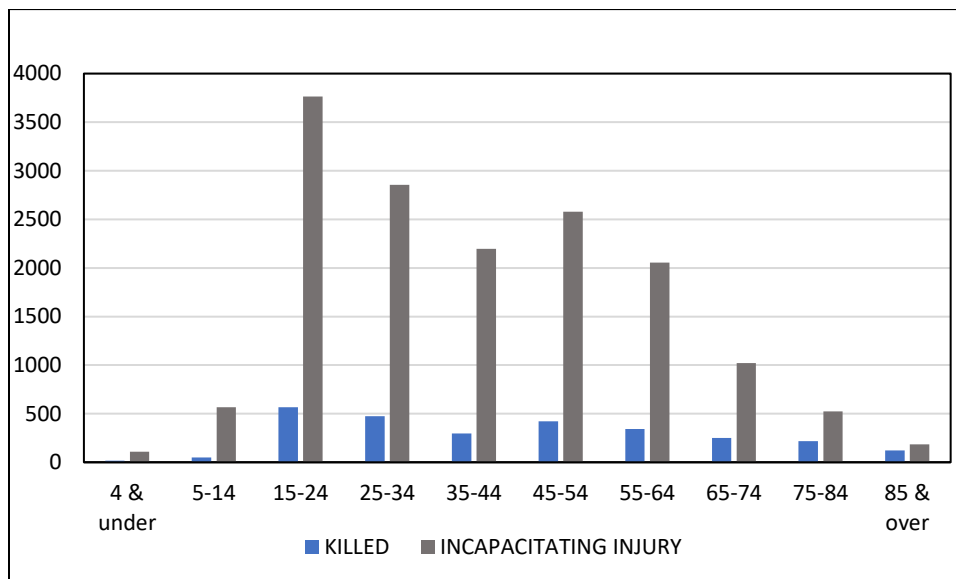


Vehicle drivers make up the highest percentage of fatalities and incapacitating injuries within Walworth County and the state of Wisconsin.

**FIGURE 18: FATAL AND INCAPACITATING INJURIES BY AGE IN WALWORTH COUNTY, 2012-2016**

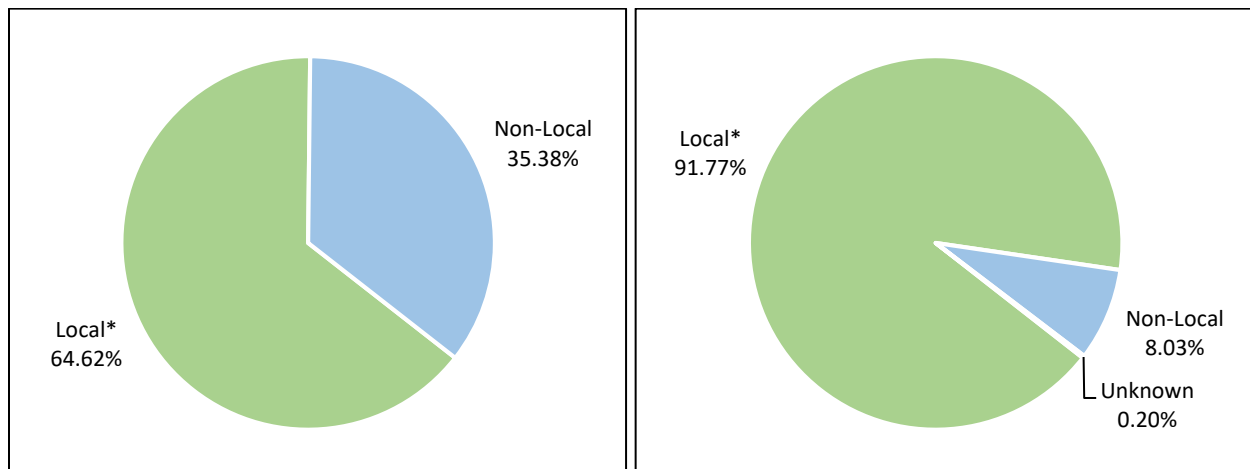


**FIGURE 19: FATAL AND INCAPACITATING INJURIES BY AGE IN WISCONSIN, 2012-2016**



The highest number of incapacitating injuries occurred in the age group 15-24 within Walworth County, the same for the state of Wisconsin. The highest number of fatalities occurred in the age groups 15-24 and 45-54 in Walworth County, compared to 15-24 for the state of Wisconsin.

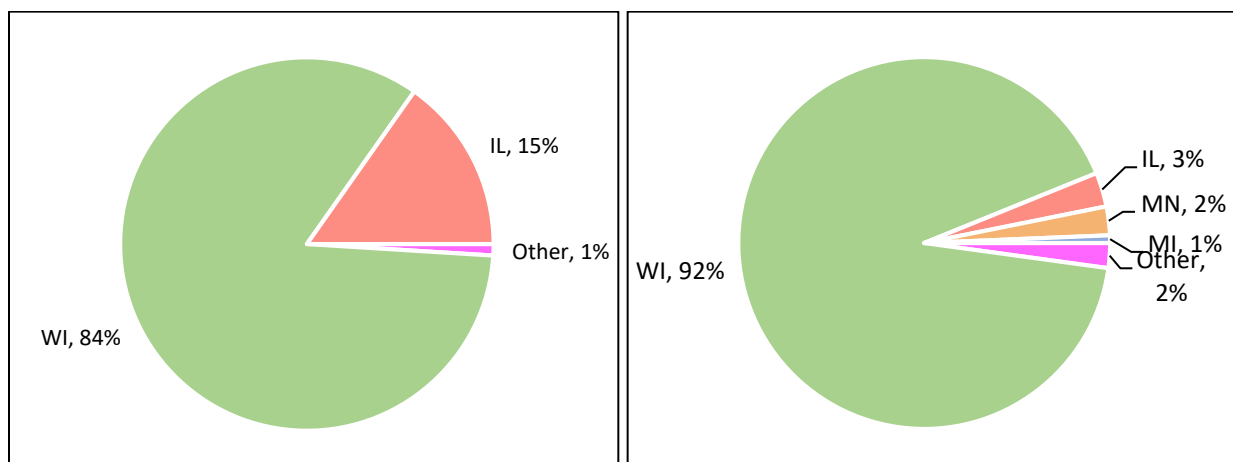
**FIGURE 20: TOTAL FATALITIES AND INCAPACITATING INJURIES BY PLACE OF RESIDENCE (WALWORTH COUNTY ON LEFT AND STATE OF WISCONSIN ON RIGHT), 2012-2016**



\*Local is defined as persons with addresses that have ZIP codes fully or partially within the county.

Over 1/3 of the fatalities and injuries in Walworth County occurred to non-local individuals.

**FIGURE 21: FATALITIES AND INCAPACITATING INJURIES BY STATE OF RESIDENCE (WALWORTH COUNTY ON LEFT AND STATE OF WISCONSIN ON RIGHT), 2012-2016**



15% of fatality and injury crashes in Walworth County occur to Illinois residents.

**FIGURE 22: LOCATION OF CRASHES BY ROAD TYPE IN WALWORTH COUNTY, 2012-2016**

	Total Fatal Crashes	Total Non-Fatal Injury Crashes
Interstate Highways	1.5%	5.6%
US/State Highways	46.2%	40.4%
County Highways	21.5%	14.7%
Local Roads	30.8%	39.3%

The highest percentage of fatal crashes occurred on US/state highways within Walworth County.

**FIGURE 23: REPORTING OF FATAL AND SERIOUS INJURY CRASHES BY AGENCY, 2012-2016**

LEA	TOTAL
DELAVAN POLICE DEPARTMENT	15
EAST TROY POLICE DEPARTMENT	3
ELKHORN POLICE DEPARTMENT	6
FONTANA POLICE DEPARTMENT	3
LAKE GENEVA POLICE DEPARTMENT	13
TOWN OF BLOOMFIELD POLICE DEPARTMENT	26
TOWN OF DELAVAN POLICE DEPARTMENT	31
TOWN OF EAST TROY POLICE DEPARTMENT	9
TOWN OF GENEVA POLICE DEPARTMENT	15
TOWN OF LINN POLICE DEPARTMENT	8
WALWORTH COUNTY SHERIFF	182
WHITEWATER POLICE DEPARTMENT	13
WILLIAMS BAY POLICE DEPARTMENT	2
WISCONSIN STATE PATROL	7
TOTAL	333

Walworth County Sheriff's Office has the highest reporting of fatal and serious injury crashes within Walworth County.

**ISSUE AREA: IMPROVE SAFETY CULTURE, SAFETY DATA, AND DATA TECHNOLOGY**

Because this information is difficult to quantify and visualize, we recommend that readers view the most recent edition of the Wisconsin Strategic Highway Safety Plan at the following location: <http://wisconsindot.gov/Documents/safety/education/frms-pubs/strategichwy-17-20.pdf>

**ISSUE AREA: REDUCE DRIVER DISTRACTION/IMPROVE DRIVER ALERTNESS**

**FIGURE 24: INATTENTION-RELATED FATAL AND INJURY-CAUSING CRASHES BY LOCATION, 2012-2016**

	Inattention-Related Fatal Crashes	Inattention- Related Non-Fatal Injury Crashes
Interstate Highways	0.0%	4.0%
US/State Highways	60.0%	45.8%
County Highways	26.7%	12.7%
Local Roads	13.3%	37.5%

The most common location for inattention-related fatal and serious injury crashes in Walworth County is on US/state highways.



## ISSUE AREA: REDUCE ALCOHOL & DRUG-IMPAIRED DRIVING

**FIGURE 25: ALCOHOL OR DRUG-RELATED CRASHES BY LOCATION, 2012-2016**

	Alcohol or Drug-Related Fatal Crashes	Alcohol or Drug-Related Non-Fatal Injury Crashes
Interstate Highways	3.1%	4.9%
US/State Highways	34.4%	26.4%
County Highways	28.1%	17.4%
Local Roads	34.4%	51.3%

The most common locations for alcohol/drug-related fatal crashes in Walworth County are on US/state highways and local roads.

**FIGURE 26: IMPAIRED DRIVING STATISTICS IN WALWORTH COUNTY, 2012-2016**

Average Total Fatal Crashes	Average Non-Fatal Injury Crashes	Average Alcohol or Drug-Related Fatal Crashes	Average Alcohol or Drug-Related Non-Fatal Injury Crashes
13.0	436.6	6.4	53.0

<b>Walworth County</b>	% of alcohol or drug-related fatal crashes to all fatal crashes	49.2%
<b>Wisconsin</b>	% of alcohol or drug-related fatal crashes to all fatal crashes	45.0%

Walworth County has a higher percentage of alcohol or drug-related fatal crashes than the state of Wisconsin.

## ISSUE AREA: REDUCE THE INCIDENCE AND SEVERITY OF MOTORCYCLE CRASHES

**FIGURE 27: WALWORTH COUNTY MOTORCYCLISTS KILLED OR SERIOUSLY INJURED, 2012-2016**

	% Killed	% Seriously Injured	5-Yr Ave Killed	5-Yr Ave Seriously Injured
County	17.6%	16.5%	2.6	11.0
State	15.3%	16.5%	84.8	525.6

Walworth County had an equal percentage of motorcyclists seriously injured when compared to the state, but a higher percentage of motorcyclist fatalities.

## ISSUE AREA: IMPROVE NON-MOTORIST SAFETY

**FIGURE 28: WALWORTH COUNTY PEDESTRIANS KILLED OR SERIOUSLY INJURED, 2012-2016**

	% Killed	% Seriously Injured	5-Yr Ave Killed	5-Yr Ave Seriously Injured
County	5.4%	5.4%	0.8	3.6
State	8.1%	6.6%	44.8	211.2

Walworth County had lower percentages of crashes where pedestrians were killed and seriously injured, compared to the state.

**FIGURE 29: PEDESTRIANS INVOLVED IN CRASHES BY ACTION AND LOCATION, 2012-2016**

PEDESTRIAN ACTION	PEDESTRIAN LOCATION					TOTAL
	BLANK	IN CROSSWALK	IN ROADWAY	NOT IN ROADWAY	ON SIDEWALK	
BLANK	0	13	9	3	2	27
WALKING NOT FACING TRAFFIC	2	3	10	1	0	16
DISREGARDED SIGNAL	0	2	1	0	0	3
DARTING INTO ROAD	0	2	9	0	0	11
DARK CLOTHING	0	3	7	0	0	10
WALKING FACING TRAFFIC	0	4	8	1	0	13
TOTAL	2	27	44	5	2	80

The most common location for pedestrians involved in crashes was in the roadway.

**FIGURE 30: WALWORTH COUNTY BICYCLISTS KILLED OR SERIOUSLY INJURED, 2012-2016**

	% Killed	% Seriously Injured	5-Yr Ave Killed	5-Yr Ave Seriously Injured
County	0.0%	3.3%	0.0	2.2
State	1.8%	2.9%	10.2	92.4

Walworth County had a higher percentage of crashes where bicyclists were seriously injured, compared to the state. However, Walworth County also had zero bicyclist fatalities from 2012 to 2016.

#### ISSUE AREA: IMPROVE SAFETY OF INTERSECTIONS

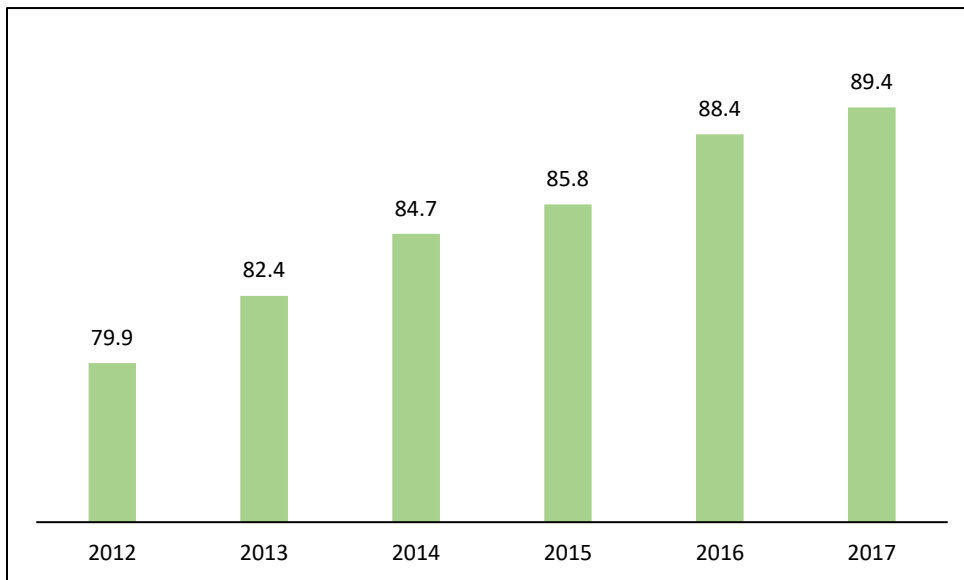
**FIGURE 31: WALWORTH COUNTY TOTAL CRASHES BY LOCATION, 2012-2016**

	County	State
% Intersection	34.9%	37.8%
% Non-Intersection	65.1%	62.8%

There were fewer crashes at intersections in Walworth County, compared to the state of Wisconsin.

#### ISSUE AREA: INCREASE OCCUPANT PROTECTION

**FIGURE 32: SEATBELT USE STATEWIDE, 2012-2017**



Seatbelt usage statewide has increased over the past six years.

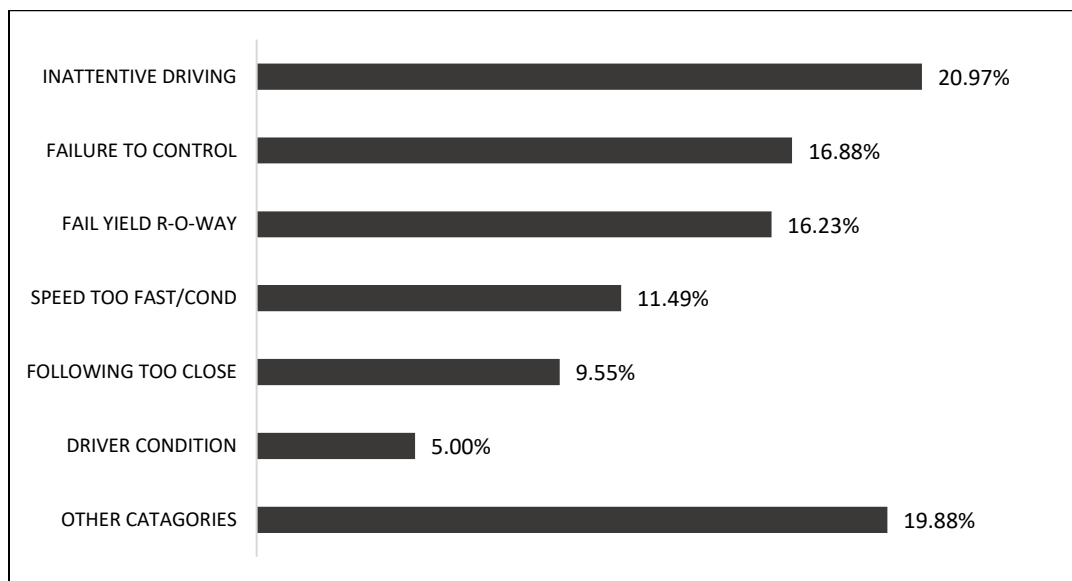
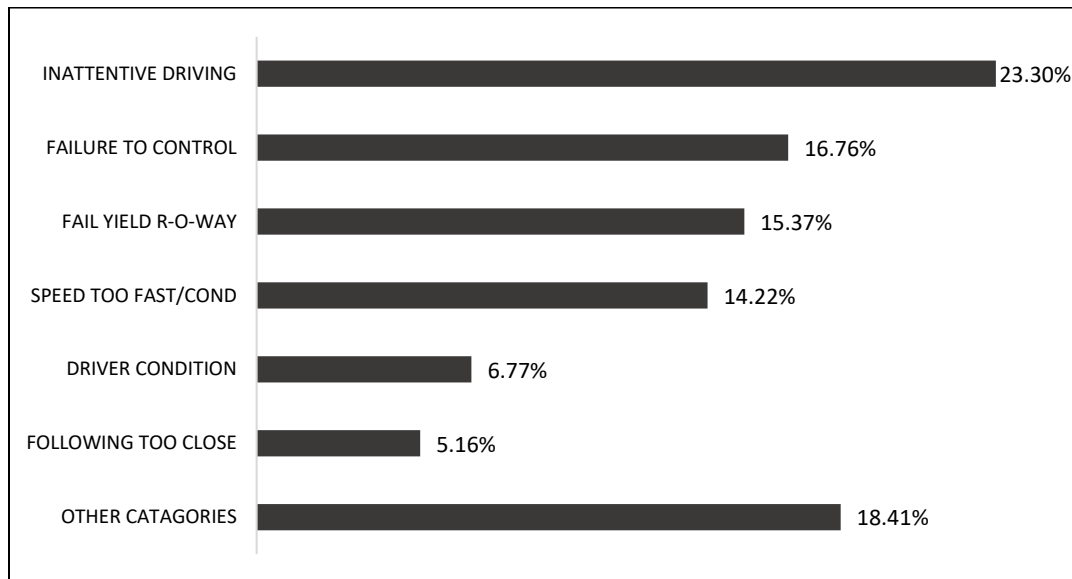
**FIGURE 32.2: SAFETY EQUIPMENT USAGE IN PASSENGER CAR AND LIGHT TRUCKS DURING CRASHES, 2012-2016**

	Belted	Unbelted
Fatalities and Serious Injuries	72.2%	27.8%

Over 1/4 of the people killed or seriously injured in crashes in Walworth County were not wearing a seatbelt.

**ISSUE AREA: CURB AGGRESSIVE DRIVING/REDUCE SPEED-RELATED CRASHES**

**FIGURE 33: DRIVER POSSIBLE CONTRIBUTING CIRCUMSTANCES FOR CRASHES IN WALWORTH COUNTY (TOP) AND STATEWIDE (BOTTOM), 2012-2016**



**Inattentive driving** is the most significant contributing factor for all crashes within Walworth County.

**FIGURE 34: SPEEDING STATISTICS IN WALWORTH COUNTY, 2012-2016**

Average Speed-Related Fatal Crashes	Average Speed-Related Non-Fatal Injury Crashes
3.4	97.4

<b>Walworth County</b>	% of speed-related fatal crashes to all fatal crashes	26.2%
<b>Wisconsin</b>	% of speed-related fatal crashes to all fatal crashes	28.9%

	Total Fatal Crashes	Total Non-Fatal Injury Crashes	Speed-Related Fatal Crashes	Speed-Related Non-Fatal Injury Crashes
Interstate Highways	1.5%	5.6%	0.0%	9.4%
US/State Highways	46.2%	40.4%	35.3%	28.5%
County Highways	21.5%	14.7%	17.6%	18.1%
Local Roads	30.8%	39.3%	47.1%	43.9%

Walworth County has a smaller percentage of speed-related fatal crashes than the state. The most common location for speed-related fatal crashes in Walworth County is on local roads.

#### **ISSUE AREA: REDUCE LANE DEPARTURE CRASHES**

**FIGURE 35: WALWORTH COUNTY RUN-OFF-THE-ROAD CRASHES, 2012-2016**

	5 Year Average of Run-Off-the-Road Crashes	% of Run-Off-the-Road Crashes to Total Crashes
County	519.8	29.6%
State	30,395.6	25.4%

Walworth County had a greater percentage of run-off-the-road crashes when compared to the state.

## **THE IMPACT**

The number of persons involved in traffic crashes is low, comparatively.

### ***2011-2015 Annual Averages***

	Walworth County	Wisconsin
Average Annual Population	102,731	5,716,883
Persons in Crashes (per 1,000 residents)	34.6	46.0
Crash-Related Emergency Room Visits (per 100,000 residents)	365.8	407.3
Crash-Related Hospitalizations (per 100,000 residents)	58.6	49.3
Quality of Life Costs (per 100,000 residents)	\$44,631,441	\$36,819,900
Lost Years of Life (per 1,000 residents)	4.37	3.04
Medical Costs (per 100,000 residents)	\$9,992,933	\$10,482,526

<sup>17,18</sup>

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<sup>17</sup>University of Wisconsin-Madison, Center for Health Systems Research & Analysis. Wisconsin Crash Outcome Data Evaluation System Project. "Wisconsin CODES Report Builder Custom Reporting System," <http://www.chsra.wisc.edu/codes/query/overview.html> Accessed Oct. 2, 2017.

<sup>18</sup>University of Wisconsin-Madison, Center for Health Systems Research & Analysis. Wisconsin Crash Outcome Data Evaluation System Project. "Community Crash Reports," <http://www.chsra.wisc.edu/codes/community/default.htm> Accessed Oct. 3, 2017.

## **THE GRANTS**

The Bureau of Transportation Safety targets counties throughout the state based on crash frequency and severity, considering their size, location, and contributing behavioral factors as indicated on crash forms received from local law enforcement agencies. Overtime enforcement grants are offered to the law enforcement agencies of a county to form a high-visibility enforcement task force that will coordinate efforts with each other and locals to change the driving behavior in their county. If a county makes the targeting list for an enforcement grant to address a behavioral highway safety issue, all law enforcement agencies within the county are eligible to participate on a task force to address the problem. National priority issue areas include impaired driving, seat belt use, speeding, and distracted driving.

### *2016 Task Forces*

	Grant Amount
Walworth County OWI Task Force	\$167,040
Walworth County Speed Task Force	\$59,392
Walworth County Seat Belt Task Force	\$59,392

### *2016 Grant Participation*

	Impaired Driving	Occupant Protection	Speed
Walworth County Sheriff's Office	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force; \$19,348
Bloomfield Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Delavan Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Delavan Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
East Troy Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
East Troy Town Police Dept.	Walworth Co. OWI Task Force		Walworth Co. Speed Task Force
Elkhorn Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Fontana Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Geneva Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Genoa City Police Dept.			
Lake Geneva Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Linn Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Mukwonago Police Dept.	\$4,840	Mukwonago Seat Belt Task Force	So. Waukesha Co. Speed Task Force
Sharon Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
UW-Whitewater Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Walworth Police Dept.		Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Whitewater Police Dept.		Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force
Williams Bay Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seat Belt Task Force	Walworth Co. Speed Task Force

Mukwonago Police Department participated on the Southeast Wisconsin Multijurisdictional OWI Task Force.



### 2017 Task Forces

	Grant Amount
Walworth County OWI Enforcement Task Force	\$46,592
Walworth County Seatbelt Enforcement Task Force	\$46,592

### 2017 Task Force Participation

	Impaired Driving	Occupant Protection	Speed
Walworth County Sheriff's Office	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Bloomfield Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Delavan Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Delavan Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
East Troy Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
East Troy Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Elkhorn Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Fontana Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Geneva Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Genoa City Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Lake Geneva Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Linn Town Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Mukwonago Police Dept.	Waukesha Co. So. OWI Task Force	Waukesha Co. So. Seatbelt Task Force	Waukesha Co. So. Speed Task Force
Sharon Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
UW-Whitewater Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Walworth Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Whitewater Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	
Williams Bay Police Dept.	Walworth Co. OWI Task Force	Walworth Co. Seatbelt Task Force	

### 2018 Task Force Eligibility

	Impaired Driving	Occupant Protection	Speed
Walworth County Law Enforcement Agencies	eligible	eligible	not eligible

*Agency Mobilizations 2016-2017*

	FY2016 Drive Sober or Get Pulled Over- Winter Holidays	2016 Click It or Ticket	2016 Drive Sober or Get Pulled Over – Labor Day	FY2017 Drive Sober or Get Pulled Over- Winter Holidays	2017 Click It or Ticket	2017 Drive Sober or Get Pulled Over – Labor Day
Walworth County Sheriff's Office		yes	yes	yes	yes	
Bloomfield Police Dept.						
Delavan Police Dept.						
Delavan Town Police Dept.						
East Troy Police Dept.		yes	yes	yes	yes	yes
East Troy Town Police Dept.						
Elkhorn Police Dept.	yes	yes		yes	yes	yes
Fontana Police Dept.	yes	yes		yes		
Geneva Town Police Dept.						
Genoa City Police Dept.		yes			yes	
Lake Geneva Police Dept.		yes				
Linn Town Police Dept.						
Mukwonago Police Dept.	yes	yes		yes	yes	yes
Sharon Police Dept.					yes	
UW-Whitewater Police Dept.	yes	yes	yes		yes	
Walworth Police Dept.	yes	yes	yes	yes	yes	yes
Whitewater Police Dept.						
Williams Bay Police Dept.	yes	yes		yes	yes	

The Wisconsin State Patrol participates in all three mobilizations each year. Law enforcement agencies should participate for the chance to receive an equipment grant for ongoing high-visibility enforcement.