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*Waukesha County*  
*Health Status Assessment*

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*May 11, 2017*



A special thank you to the CHIPP Data Subcommittee!

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# Community Health Status Assessment

## Core Indicator Lists

### Category One – Demographic Characteristics

Definition of Category: Demographic characteristics include measures of total population as well as percent of total population by age group, gender, race and ethnicity, and the rate of change in population density over time, due to births, deaths and migration patterns.

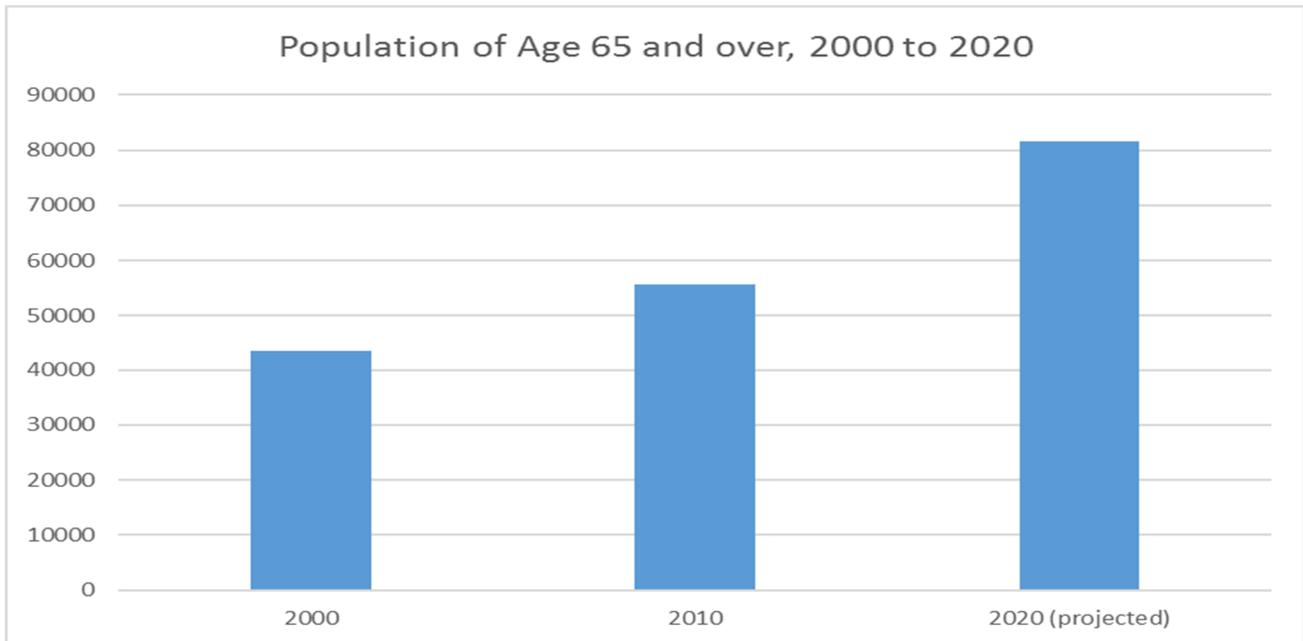
Data Highlights:

- Population percent growth change declined in Waukesha County between 1990 and 2010. Projections for 2020 show a similar trend
- The slowing population growth is due to a decline in natural increase (number of births minus number of deaths) that is not being offset by strong migration into the county
- Between 1990 and 2010, the White population grew at a much smaller growth rate than minority populations. This decline is projected to continue
- The population of age 65 and over will make up almost 25 percent of the county’s population by 2030. There are more women than men in this age group due to the fact that women are living longer than men

Demographics	Waukesha		WI
	#	%	%
<b>Age Group</b>			
Under 5	20,425	5.2	6.0
5 to 14	51,889	13.2	12.9
15 – 19	26,958	6.8	6.8
20 – 44	109,641	27.8	31.8
45 – 64	122,313	31.1	27.8
65 – 74	33,798	8.6	8.0
75 and older	28,849	7.3	6.7
Total	393,873	100.0	100.0
<b>Gender</b>			
Males	193,441	49.1	49.7
Females	200,432	50.9	50.3
<b>Race</b>			
White	365,833	92.9	86.5
Black or African Am.	5,605	1.4	6.3
American Indian or Alaska Native	730	0.2	0.9
Asian	11,662	3.0	2.5
Hispanic or Latino	17,660	4.5	6.3
Native Hawaiian or other Pacific Islander	119	0.03	0.02
Some other race/ 2 or more races	9,924	2.5	3.8

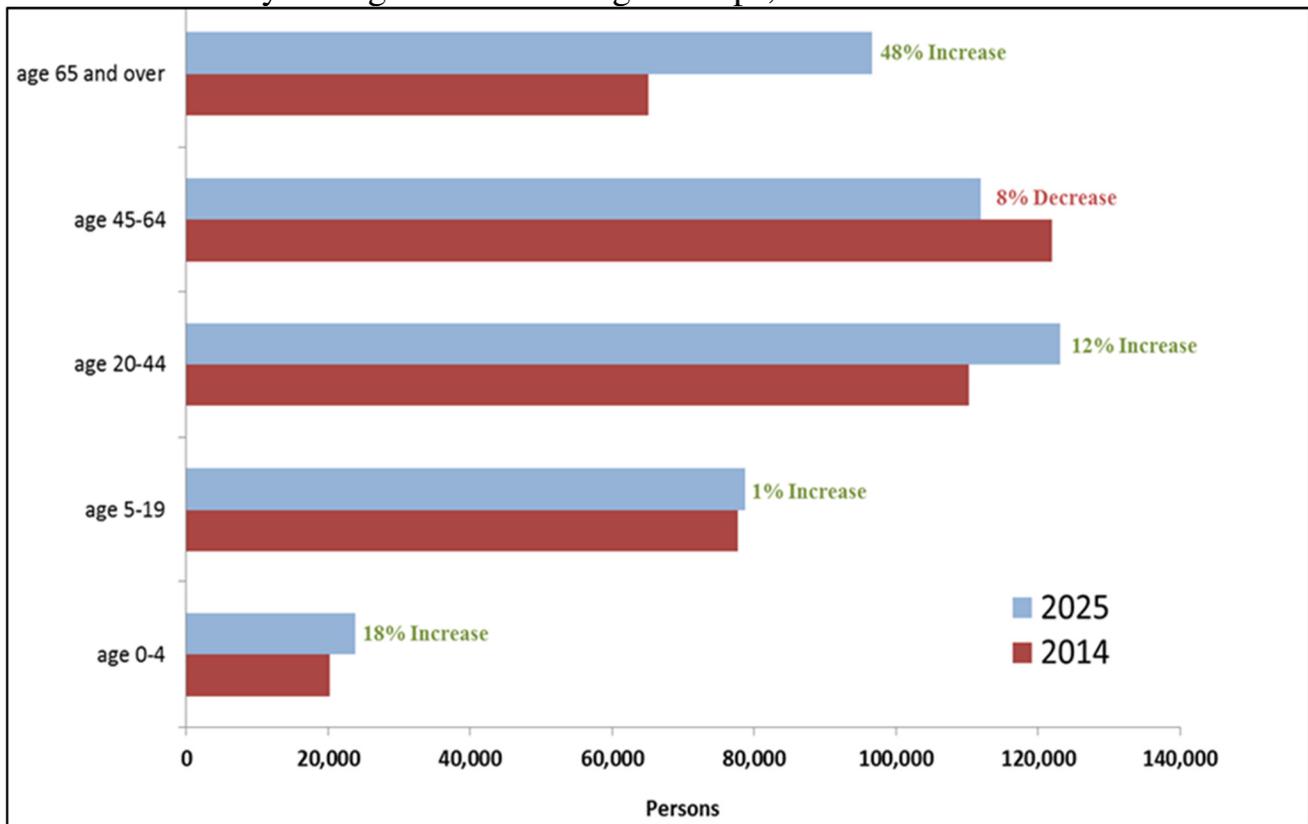
*US Census data – 2015 American Community Survey*

## Community Health Status Assessment Core Indicator Lists



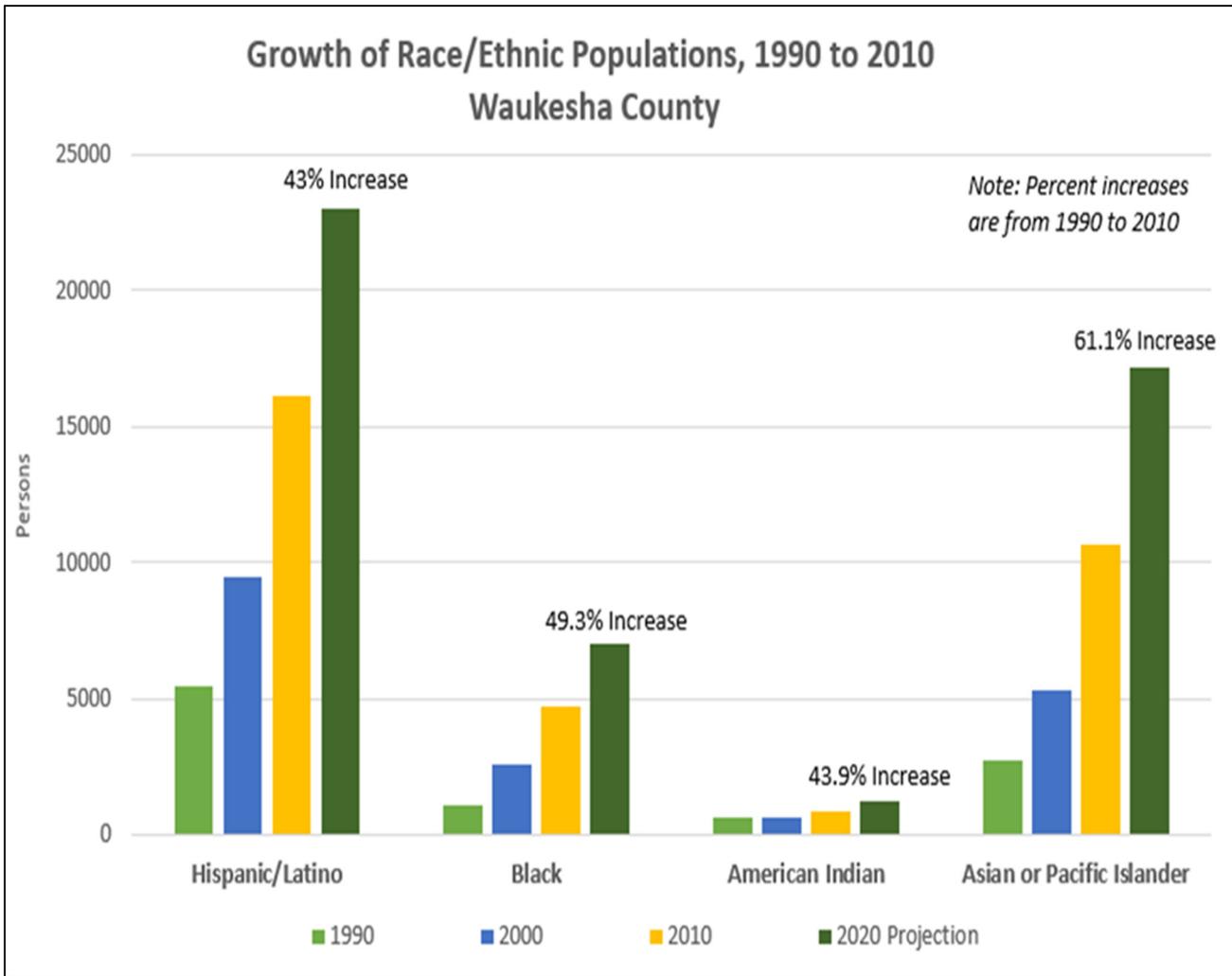
*US Census data*

### Waukesha County Change in Selected Age Groups, 2014 to 2025



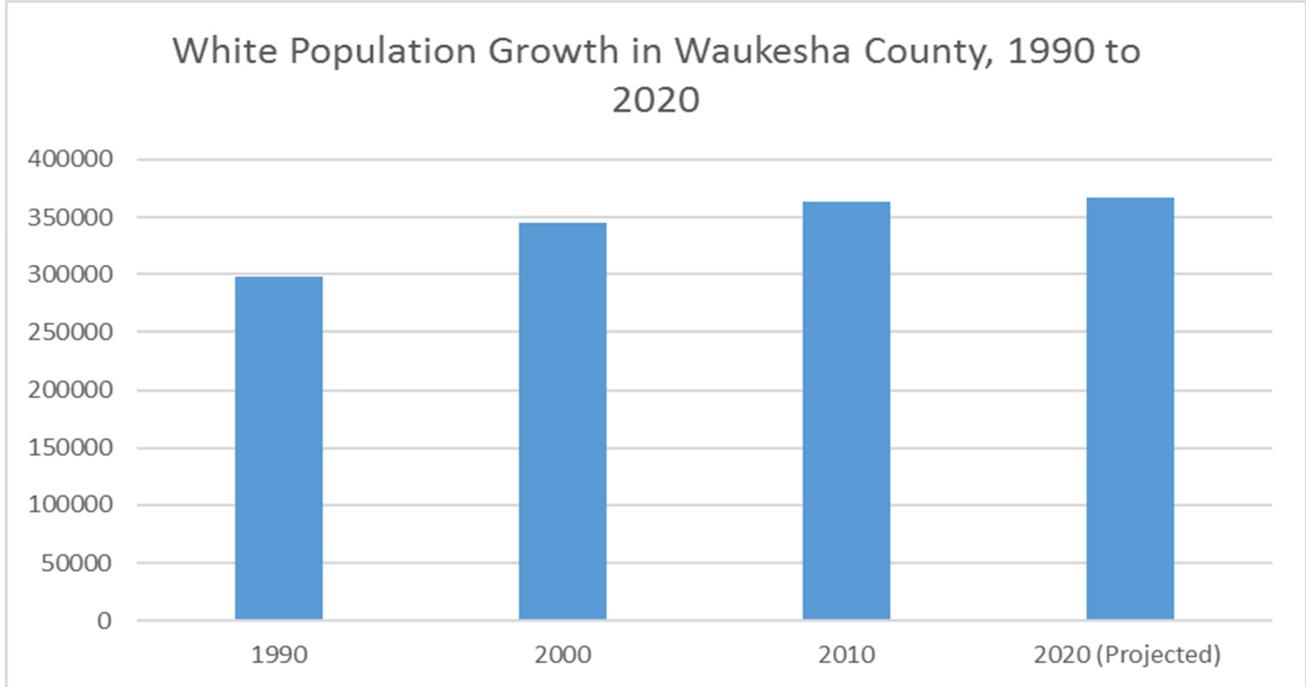
*US Census data*

## Community Health Status Assessment Core Indicator Lists

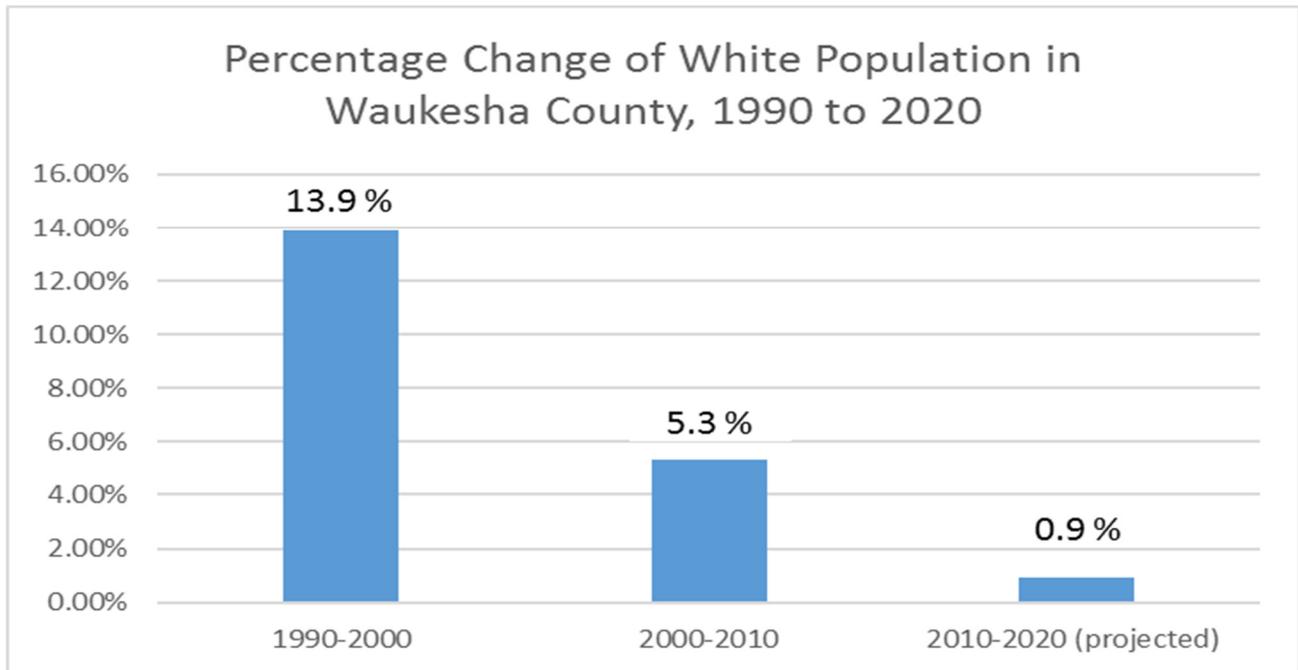


*US Census data*

## Community Health Status Assessment Core Indicator Lists



*US Census data*



*US Census data*

# Community Health Status Assessment

## Core Indicator Lists

### Category Two - Socioeconomic Characteristics

Definition of Category: Socioeconomic characteristics include measures that have been shown to affect health status, such as income, education, and employment, and the proportion of the population represented by various levels of these variables.

Data Highlights:

- The Waukesha County 2015 unemployment rate and median household income is similar to 2010 but food stamp percentage has gone up significantly
- Poverty rate has increased slightly since 2010 but remains lower than the state average
- High school graduation and bachelor degree rates in Waukesha County are higher than the state average
- Certain areas of the county have high rates of people living in poverty or ALICE range

Socioeconomic Measures	Waukesha County		WI
	2010	2015	2015
<b>Income and Employment</b>			
% Unemployed	4.8%	4.2%	6.3%
Median Household Income	\$75,064	\$76,545	\$53,357
% Households Receiving Food Stamps/SNAP*	2.5%	5.2%	12.9%
<b>Poverty</b>			
% of Children Living in Poverty	6.5%	6.8%	17.8%
% Age 18-64 Living in Poverty	4.6%	4.7%	12.4%
% Age 65+ Living in Poverty	4.0%	5.0%	7.7%
<b>Education</b>			
% Persons aged 25 and Older with Less than a High School Education	5.0%	4.3%	9.0%
% High School Graduate or Higher	95.0%	95.7%	91.0%
% Bachelor's Degree or Higher	39.2%	41.2%	27.8%
<b>Household</b>			
% Single Parent Families	18.7%	18.6%	29.4%
% Households with Language other than English	7.1%	7.4%	8.7%
% Households with No Vehicle Available	3.9%	4.2%	7.1%
Number Homeless		765	18,883
% Subsidized Housing per Total Number of Households		2.6%	4.7%
<b>Other</b>			
% with a Disability	8.4%	9.8%	11.7%
% of Persons without Health Insurance	4.6%	4.3%	7.9%

\*eligibility criteria changed in this time period

*US Census: 2006-2010, 2008-2010, 2011-2015 American Community Survey  
Affordable Housing Online*

## Community Health Status Assessment

### Core Indicator Lists

ALICE is an acronym that stands for Asset Limited, Income Constrained, Employed, comprising of households with income above the Federal Poverty Level but below the basic cost of living. The ALICE rate for the State of Wisconsin stands at 42%. In Waukesha County the rate is 29% (6% poverty and 23% ALICE population). The ALICE population are employed, but many of the jobs do not pay enough to afford the basics of housing, child care, food, health care and transportation.

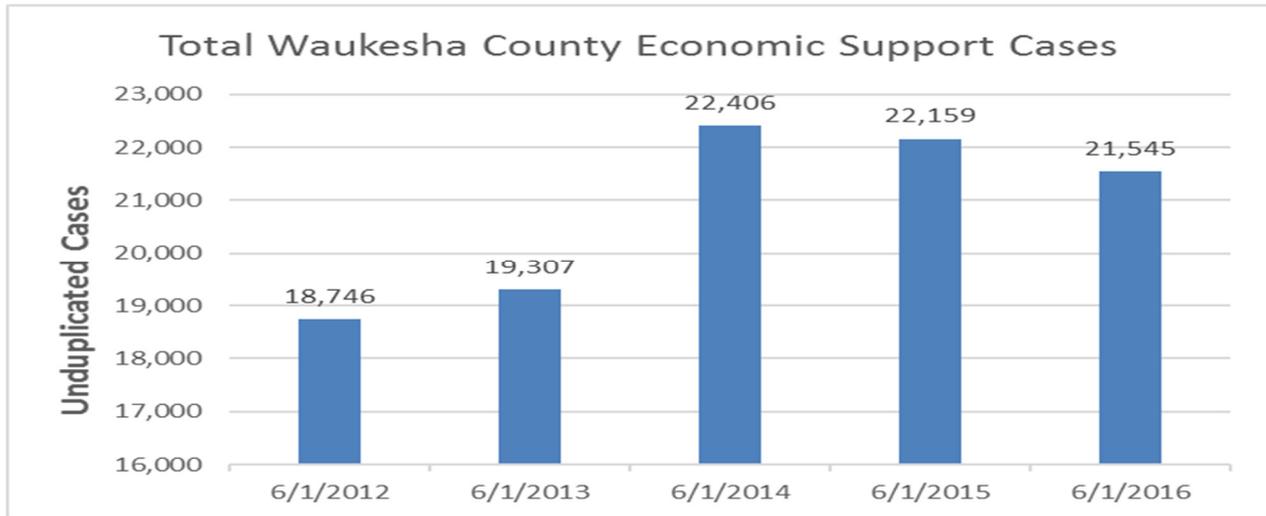
#### ALICE Report - Waukesha County, 2014

Town	Total Households	% ALICE & Poverty*
Big Bend	470	28%
Brookfield	14,557	22%
Brookfield Town	2,716	35%
Butler	863	52%
Chenequa	238	11%
Delafield	2,892	31%
Delafield Town	2,873	14%
Dousman	926	34%
Eagle	676	25%
Eagle Town	1,212	17%
Elm Grove	2,263	13%
Genesee	2,613	15%
Hartland	3,602	36%
Lac La Belle	106	16%
Lannon	497	40%
Lisbon	3,797	35%
Menomonee Falls	14,539	31%
Merton	1,036	11%
Merton Town	2,922	16%
Mukwonago	2,991	36%
Mukwonago Town	2,885	16%
Muskego	9,220	26%
Nashotah	577	22%
New Berlin	16,612	28%
North Prairie	807	20%
Oconomowoc	6,278	34%
Oconomowoc Lake	216	20%
Oconomowoc Town	3,335	23%
Ottawa	1,422	17%
Pewaukee	5,451	23%
Pewaukee Village	3,910	40%
Summit	1,685	20%
Sussex	3,880	29%
Vernon	2,843	20%
Wales	1,013	23%
Waukesha	28,466	41%
Waukesha Town	3,493	25%

\* Alice/Poverty level is below \$25,392 for single adult and \$66,840 for family of four

*United Way*

## Community Health Status Assessment Core Indicator Lists



*Waukesha County HHS Data*

Free and Reduced Lunch School Lunch		
School Year	Number of free and reduced lunch	% of free and reduced lunch
2011-2012	10,526	16.6%
2012-2013	11,537	18.3%
2013-2014	11,675	18.6%
2014-2015	11,235	18.1%
2015-2016	10,903	17.6%

*Wisconsin Department of Public Instruction*

Food Insecurity				
	Waukesha			WI
	2012	2013	2014	2014
% food insecure	9%	9%	8%	12%

*County Health Rankings*

# Community Health Status Assessment

## Core Indicator Lists

### Category Three - Health Resource Availability

Definition of Category: This domain represents factors associated with health system capacity, including both the number of licensed medical providers and the physical capacity of health facilities. In addition, the category of health resources includes measures of access, utilization, cost and quality of health care and prevention services.

Data Highlights:

- The availability of primary care, mental health and dental providers in Waukesha County exceeds Wisconsin State averages (as expressed in rate per 100,000 population)
- The aging/retiring healthcare workforce, combined with increasing demands of caring for the aging population (silver tsunami) poses significant challenge
- Unmet medical and dental care appears to be increasing. Seventeen percent of respondents reported medical care was not received due to cost concerns

Healthcare Providers			
	Waukesha County		Wisconsin
	Number	Rate per 100,000 population	Rate per 100,000 population
Primary Care Physicians	600	151.85	90.6
Mental Health Providers	768	194.3	170.7
Dentists	342	86.26	64

*Community commons*

Waukesha County Medical Facilities		
	Facilities	Beds
Hospitals	5	737
Nursing Homes	18	1,876
Federally Qualified Health Center	1	N/A

*AHD.com, DHS.wisconsin.gov*

State of Wisconsin Healthcare Workforce			
	Turnover Rate	Vacancy Rate	Projected national demand for 2014-2025
CNAs	23%	10.1%	+34.0%
Lab Tech	18.6%	5.5%	
RN	13.4%	6.2%	
RNs planning to leave workforce within 10 years	40%		

*WHA workforce report*

## Community Health Status Assessment Core Indicator Lists

Medicare Costs		
	Waukesha County	Wisconsin
Total Medicare Costs	\$385 Million	\$5.1 Billion
Per Capita Costs	\$8,202	\$8,102
Average Hierarchical Condition Category (HCC) Score	0.93	0.95
Average Beneficiary Age	72	71

<http://medicare-usage.healthgrove.com>

Health Information and Services			
		2012	2015
<b>Unmet care in last 12 months</b>			
	Medical care	4%	9%
	Dental care	9%	12%
	Mental Health care	<1%	3%
<b>Did Not Receive Care Needed due to Cost</b>			
	Medical care	n/a	17%
	Prescription	8%	8%
<b>Primary Source of Health Information</b>			
	Doctor	40%	47%
	Internet	28%	30%
	Myself/Family member in health field	9%	6%

*Community Health Survey*

# Community Health Status Assessment

## Core Indicator Lists

### Category Four - Quality of Life

Definition of Category: Quality of Life (QOL) is a construct that “connotes an overall sense of well-being when applied to an individual” and a “supportive environment when applied to a community” (Moriarty, 1996). While some dimensions of QOL can be quantified using indicators research has shown to be related to determinants of health and community-wellbeing, other valid dimensions of QOL include perceptions of community residents about aspects of their neighborhoods and communities that either enhance or diminish their quality of life.

Data Highlights:

- A 2017 community survey indicates broad belief that the quality of life in Waukesha County is quite good. Scores on a five-point scale ranged from a low of 3.48 (regarding all resident’s ability to improve the community) to 4.28 (regarding suitability to raising children). Mean score from all responses is 3.86 out of 5.0
  - Areas on concern point to drug use, transportation, awareness of services and affordability
- Individual perception of overall health has remained essentially unchanged since 2012
- Concern for personal safety has remained essentially unchanged since 2012. In general, bullying has diminished overall, with the largest decrease expressed in verbal bullying

**2017 Survey “Perception of Quality of Life in Waukesha County” (N=379)**

Quality of Life Measure	Score (1 least satisfied, 5 most satisfied)
Persons satisfied with the quality of life in Waukesha County	4.20
Adults satisfied with the health care system in the community	3.90
Persons who believe Waukesha County is a good place to raise children	4.28
Persons who believe Waukesha County is a good place to grow old	3.77
Persons who feel there is sufficient economic opportunity in Waukesha County	3.74
Persons who feel Waukesha County is safe place to live	4.06
Persons who feel there are adequate networks of support in Waukesha County	3.76
Persons who believe all individuals and groups have the opportunity to contribute and participate in the community’s quality of life	3.66
Persons who feel that all residents can make the community a better place to live	3.48
Persons who believe there is an active sense of civic responsibility and engagement	3.74
<b>Key areas of concern as expressed in narrative comments</b>	
<i>Community concern over drug activity and substance abuse</i>	
<i>Transportation for seniors</i>	
<i>Lack of awareness around available services in the community</i>	
<i>Lack of affordable housing for lower and middle class families and those on fixed incomes</i>	
<i>Lack of awareness around mental health services</i>	
<i>Economic opportunity restricted</i>	

## Community Health Status Assessment Core Indicator Lists

Health and Safety		
	<b>2012</b>	<b>2015</b>
<b>Overall Health</b>		
Rate health as fair or poor	10%	11%
<b>Personal Safety in Waukesha County</b>		
Afraid for personal safety	4%	4%
Pushed, Kicked, Slapped or Hit	1%	3%
Had at Least One Safety Issue	4%	5%
<b>Children in Household and Bullying</b>		
Experienced Some form of Bullying (past 12 months)	18%	14%
Verbally Bullied	18%	14%
Physically Bullied	5%	2%
Cyber Bullied	3%	4%

*Community Health Survey*

# Community Health Status Assessment

## Core Indicator Lists

### Category Five - Behavioral Risk Factors

Definition of Category: Risk factors in this category include behaviors which are believed to cause, or to be contributing factors to, injuries, disease, and significant morbidity and mortality later in life.

Data Highlights:

- Percentage of adults that are overweight or obese continues to increase and has surpassed the State, whereas exercise has decreased
- Percentage of adults with high blood pressure, high blood cholesterol and diabetes continues to increase
- Screenings and routine procedures have stayed relatively stable

<b>Behavioral Risk Factors</b>	<b>Waukesha County</b>			<b>WI</b>
	<b>2009</b>	<b>2012</b>	<b>2015</b>	<b>2014/2015</b>
<b>Substance Use and Abuse</b>				
Tobacco use (past 30 days)	17%	17%	13%	17.3%
Binge drinking (past 30 days)	27%	22%	29%	22.9%
<b>Lifestyle</b>				
Overweight or Obese	63%	65%	70%	66.0%
Fruit Intake (2+ servings/day)*	68%	65%	65%	62.1%
Vegetable Intake (3+ servings/day)*	30%	29%	25%	76.0%
Recommended Moderate or Vigorous Activity	53%	47%	46%	52.8%
<b>Health Conditions in Past 3 years</b>				
High Blood Pressure	22%	26%	33%	29.6%
High Blood Cholesterol	24%	25%	26%	36.1%
Diabetes	6%	7%	9%	8.4%
Asthma (current)	9%	8%	8%	9.6%
<b>Screenings</b>				
Pap Smear (18-65, within past 3 years)	89%	83%	82%	76.6%
Mammography (50+, within past 2 years)	76%	77%	78%	77.0%
Colonoscopy (50+, within past 10 years)*	62%	59%	62%	75.9%
<b>Routine Procedures</b>				
Routine checkup (2 yrs. Ago or less)	84%	85%	85%	83.6%
Dental checkup (past year)	74%	75%	76%	70.1%
Eye Exam (past year)	41%	49%	55%	51.7%
Cholesterol Test (past 4 years)	82%	79%	84%	77.5%

2015 Community Health Survey, 2014-2015 Wisconsin BRFSS

\*Risk factor measured differently for State

# Community Health Status Assessment

## Core Indicator Lists

### Category Six - Environmental Health Indicators

Definition of Category: The physical environment directly impacts health and quality of life. Clean air and water, as well as safe home and yard environments, are essential to physical health. Exposure to environmental substances, such as lead, increases risk for preventable disease.

Data Highlights:

- Waukesha County rates well in the category of Home Hazards
  - Emergency Room visits due to carbon monoxide is lower than the State rate
  - The percent of children with elevated blood lead levels is much lower than the State percent
- While Waukesha County rates very well on Ozone air quality, it is higher than the State for Particulate Matter
- Waukesha County has higher rates of Arsenic in its water, but lower Nitrates when compared to the State
- While animal bite incidents have remained fairly stable, more animals positive for Rabies have been found lately



## HOME HAZARDS

### Carbon Monoxide (CO)

7.1 | Rate of ER visits per 100,000 people  
Wisconsin: 8.2

### Childhood Lead Poisoning

2.2% | Percent with blood lead  $\geq 5$   $\mu\text{g/L}$   
Wisconsin: 6.3%

*Waukesha County Environmental Health Profile 2015*



## AIR QUALITY

### Ozone

0.0 | Annual days above standard  
Wisconsin: 0.7

### Particulate Matter 2.5

1.1 | Annual days above standard  
Wisconsin: 0.1

*Waukesha County Environmental Health Profile 2015*

## Community Health Status Assessment Core Indicator Lists



*Waukesha County Environmental Health Profile 2015*

<b>Animal Bites and Rabies</b>				
	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Animal Bites</b>	675	584	638	617
<b>Rabies submissions</b>	175	133	134	156
<b># positive</b>			4	1
<b># inconclusive</b>	7	9	7	8

*Waukesha County Environmental Health Data*

# Community Health Status Assessment

## Core Indicator Lists

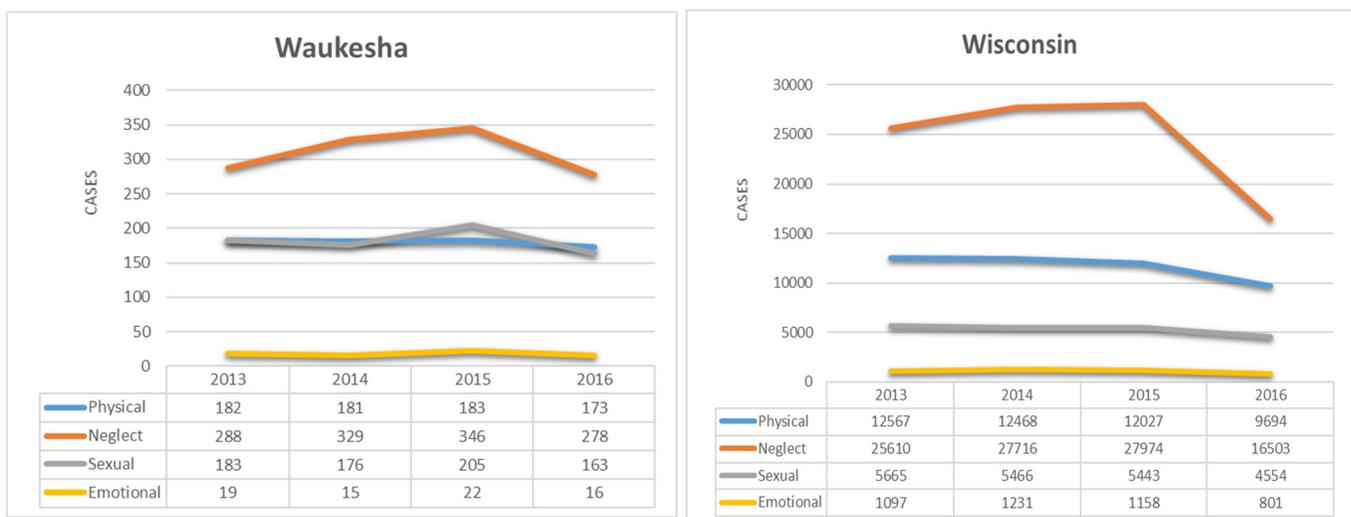
### Category Seven - Social and Mental Health

Definition of Category: This category represents social and mental factors and conditions which directly or indirectly influence overall health status which contribute to individual and community quality of life. Mental health conditions and overall psychological well-being and safety may be influenced by child maltreatment, access to mental health care, school attendance and exposure to violence within the home and within the community.

Data Highlights:

- Child Protection Service data represents all screened in cases of maltreatment in Waukesha over a period of four years. State data is included for comparison purposes
  - Trend lines are similar for County and State data. In Waukesha there are similar numbers of physical abuse and sexual abuse cases whereas at the State physical abuse exceeds sexual abuse
  - Child abuse data reflects a flat trend line for physical, sexual and emotional abuse, whereas there has been a decline in the numbers of neglect cases in the past year when compared to the previous 3 years
- There has been a trend toward higher numbers of truants within the county over the past 4 years. Barring a slight decrease in 2016, current patterns of truancy are consistent with rates in the early 2000s
- Mobile Crisis Services were expanded in 2016. There has been a general trend toward increase calls and increased assessments over the course of the year
- Violent crime rates are trending upward in all areas measured (assault, robbery, rape and homicide)
- Overall, there is a pattern of increased concern in the areas of Social and Mental Health of the community

### Number of Confirmed Cases of Child Abuse & Neglect among Children

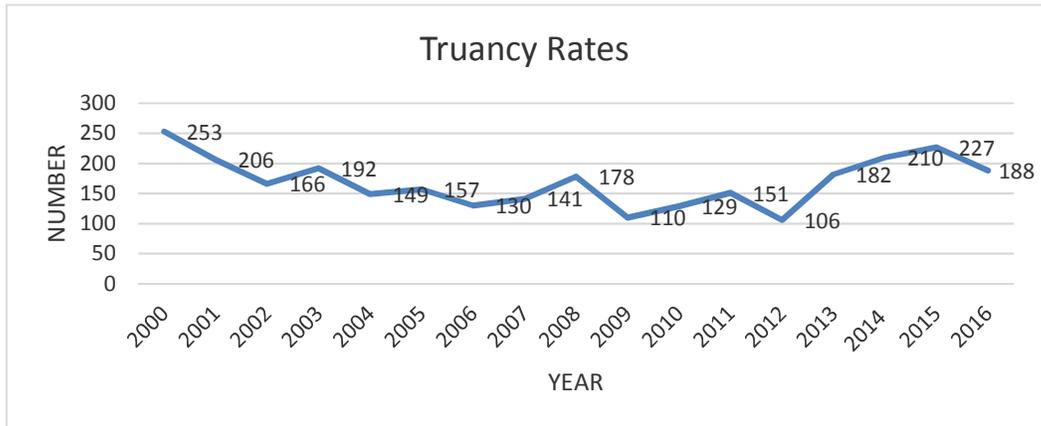


eWiSACWIS. SM02X100 – Access Report (Enhanced) 2013-2016

# Community Health Status Assessment

## Core Indicator Lists

### Truancy Rates in Waukesha County



Waukesha County Adolescent & Family Division. 2016

### Waukesha County DHHS Clinical Services Division • Mobile Crisis Intervention Data 2016

Availability of Crisis Services		Total Calls	Assessments	Outcome of Assessment			
				Safety Plan	Voluntary Admission	Emergency Detention	Emergency Protective Placement
Monday-Friday 8am-9pm Weekends & Holidays 12pm-8pm	JAN	134	25	18	6	0	1
	FEB	168	42	29	6	6	1
	MAR	166	28	14	7	4	3
Mon—Fri, 8am-12am Weekends, 12pm-8pm	APR	178	21	6	5	5	5
8am-12am, 7 days/week	MAY	289	66	32	16	17	1
	JUN	277	98	33	19	42	4
Monday-Friday, 24/7 Weekends, 8am-12am	JUL	365	116	58	11	45	2
Monday-Friday 24/7, Weekends 6am-12am	AUG	405	118	53	21	43	1
	SEP	345	115	53	14	47	1
Monday-Friday 24/7, Weekends 5am-12am	OCT	369	122	47	16	57	2
	NOV	293	122	-	-	-	-
24/7, Seven days/week	DEC	255	103	-	-	-	-
		<b>3,244</b>	<b>976</b>	<b>343 (46%)</b>	<b>121 (16%)</b>	<b>266 (35%)</b>	<b>21 (3%)</b>

**Notes:**

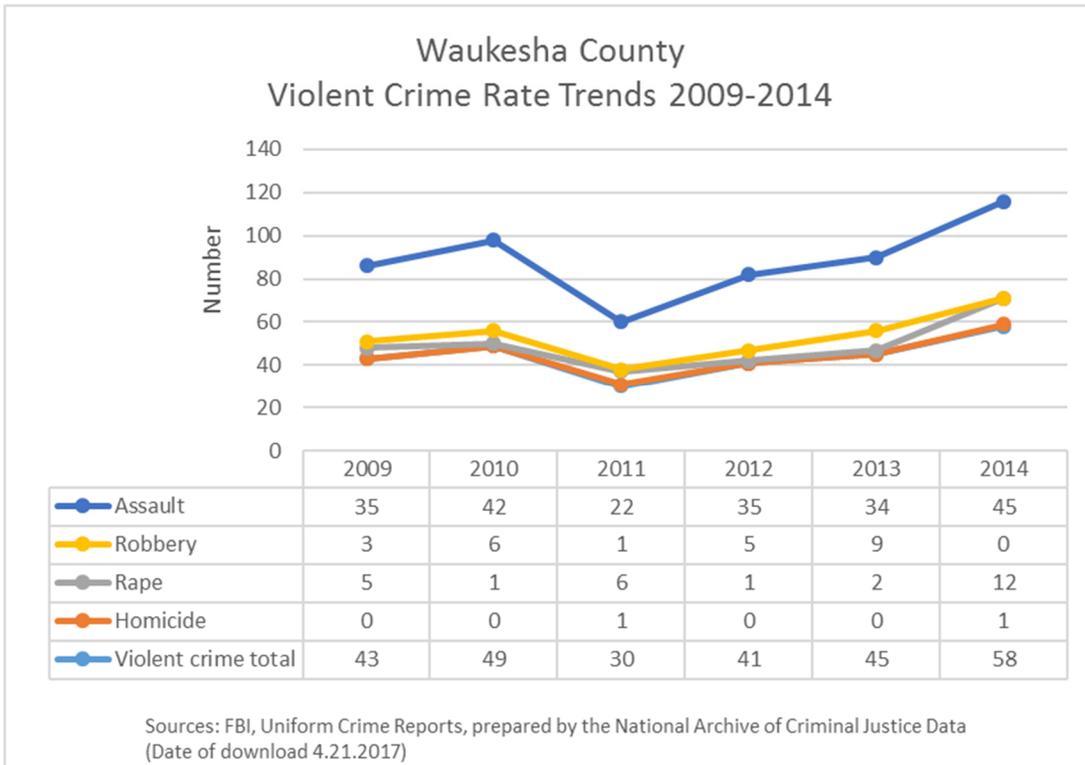
Total Calls for July-October: Crisis workers documented Follow-Up Calls on crisis log, which contributed to the total calls. Once Avatar was implemented on 11/07/16, follow-up calls were documented separately from total calls.

Outcome of Assessment November & December: These outcomes are not tracked in Avatar, therefore, there is no process in place to calculate these totals.

02.06.17

WCHHS Mental Health Clinic Data

## Community Health Status Assessment Core Indicator Lists



Domestic Violence and Sexual Assault		
	2015	2016
<b>Domestic Violence</b> (unduplicated)		
Adults	694	669
Children	188	159
<b>Total Domestic Violence</b>	882	828
<b>Sexual Assault</b> (unduplicated)		
Adults	231	212
Children	36	36
<b>Total Sexual Assault and Abuse</b>	267	248

*Women's Center Data*

# Community Health Status Assessment

## Core Indicator Lists

Adverse Childhood Experience (ACEs) is a traumatic experience, which occurs prior to the age of 18, such as child physical or sexual abuse, having an incarcerated household member, exposure to domestic violence or parental divorce. ACEs have been linked to a range of negative outcomes in adulthood.

### ACEs in Wisconsin (2011-2012 data)

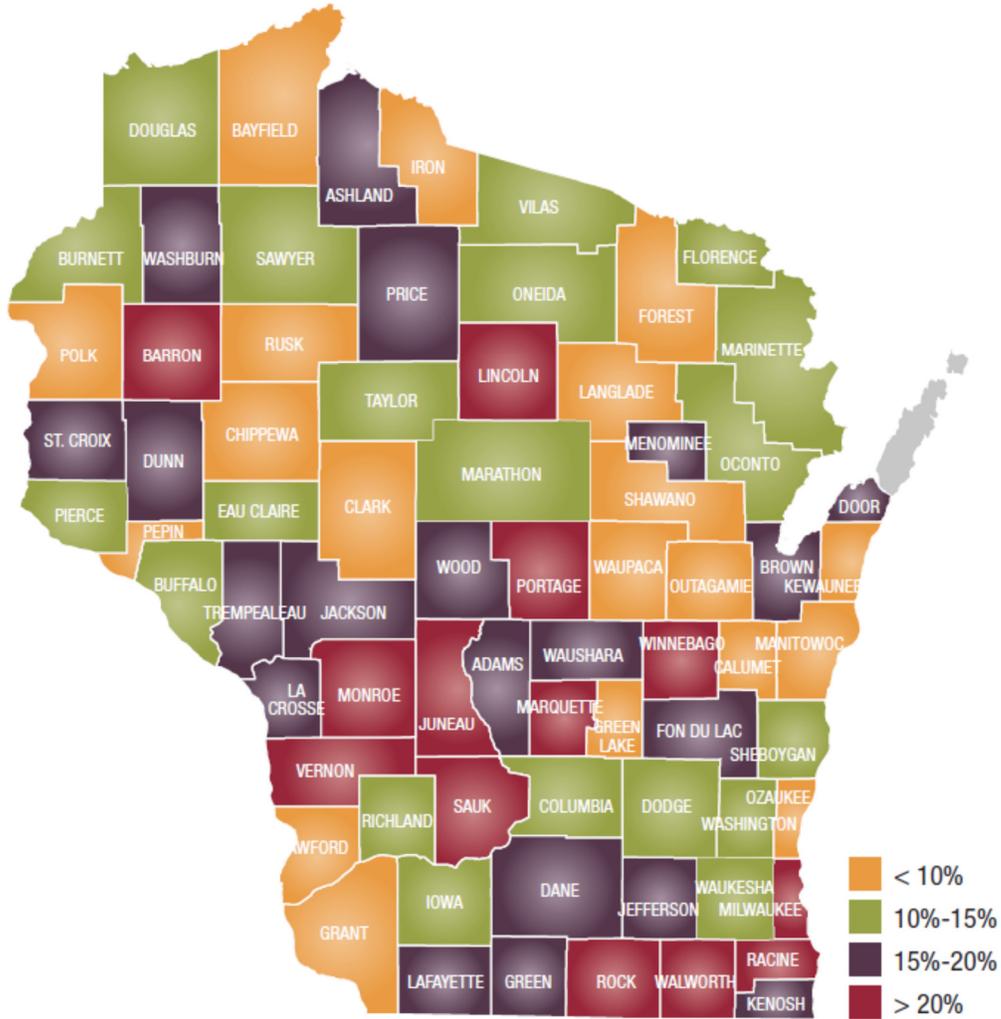


Figure 3. Prevalence of 4 or more ACEs in Wisconsin Counties

*Children's Trust Fund data*

# Community Health Status Assessment

## Core Indicator Lists

### Category Eight - Maternal and Child Health

Definition of Category: One of the most significant areas for monitoring and comparison relates to the health of a vulnerable population: infants and children. This category focuses on birth data and outcomes as well as mortality data for infants and children. Because maternal care is correlated with birth outcomes, measures of maternal access to, and/or utilization of, care is included. Births to teen mothers is a critical indicator of increased risk for both mother and child.

Data Highlights:

- While child death rates have remained stable, infant mortality rates have improved, and both rates are lower than the State
- Waukesha County's Birth rate and Fertility Rate are lower in comparison to the State
- Adolescent pregnancy rate is much lower in Waukesha County compared to the State
- Waukesha County has less participation of eligible recipients who could receive WIC services in comparison to the state

<b>Maternal and Child Health</b>	<b>Waukesha County</b>			<b>Wisconsin</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2015</b>
<b>Mortality</b>				
Child Mortality Rate, Deaths 1-14 yrs. per 100,000 population	11.6	10.5	12	15.5
Infant Mortality, Deaths within 1st year per 1,000 live births	6	2.8	3.8	5.7
Post Neonatal (28-364 days) Mortality Rate per live births	1.9	0.5	0.8	1.7
Neonatal (<28 days) mortality Rate per live births	4.1	2.3	3	4
<b>Birth rates</b>				
Live birth Rate - Births per 1,000 population	9.4	9.9	9.4	11.6
Fertility Rates- Births per 1,000 Women Ages 15-44	55.2	57.9	55.2	61.8
Births to adolescents (10-17yrs.) - % of all births	0.4	0.4	0.1	1.1
Adolescent Pregnancy Rate (15-17 yrs.) - Births per 1,000 Females age 15-17 yrs.	2	1.9	0.6	6.6
Low Birth Weight - (Less than 2,500 grams)	6.3	5.7	5.6	7.3
Very low birth Weight - (Less than 1,500 grams)	1.1	0.8	1	1.3
<b>Prenatal Care</b>				
Entrance into Prenatal Care in 1st Trimester, % of total	85.3	86.5	85.3	75.5
Entrance into Prenatal Care in 3rd Trimester, % of total	2.1	2.4	2.4	3.8
No Prenatal Care, % of total	0.3	0.3	0.2	0.6
<b>WIC Participation</b>				
WIC recipients as % of those eligible	48.4	44.1	46.3	61

*WISH, WIC Data*

# Community Health Status Assessment

## Core Indicator Lists

### Category Nine - Death, Illness, and Injury

Definition of Category: Health status in a community is measured in terms of mortality (rates of death within a population) and morbidity (rates of the incidence and prevalence of disease).

Mortality may be represented by crude rates or age-adjusted rates, and by cause (i.e. disease, cancer or injuries). Morbidity may be represented by age-adjusted incidence of cancer and chronic disease.

#### Data Highlights:

- The leading causes of deaths have changed slightly since the year 2000, with the biggest increases seen in Alzheimer's and suicide
- Crude rates for new cases of cancer are higher in Waukesha County than the State for most types of cancer
- Most mortality rates are stable or decreasing with the exceptions of the following which are increasing: Cervical Cancer, Alzheimer's, Unintentional Injuries, and Suicide
- There are significant racial/ethnic disparities identified in the mortality rates for Diabetes, Alzheimer's, Stroke, Heart Disease and Infant Mortality
- Hospitalizations and deaths due to Falls have been fairly stable, with Waukesha County better than the State in hospitalization rates, but worse in death rates

Leading causes of Death 2000 vs 2015		
Rank	Year 2000 (# of deaths)	2015 (# of deaths)
1	Heart Disease (858)	Cancer (753)
2	Cancer (638)	Heart Disease (677)
3	Stroke (215)	Accidents (229)
4	Accidents (141)	Stroke (174)
5	Chronic lower respiratory diseases (130)	Alzheimer's (170)
6	Influenza and pneumonia (83)	Chronic lower respiratory diseases (160)
7	Diabetes (81)	Influenza and pneumonia (82)
8	Alzheimer's (57)	Diabetes (73)
9	Nephritis/nephrosis (52)	Nephritis/nephrosis (66)
10	Chronic liver disease and cirrhosis (35)	Suicide (58)

WISH

## Community Health Status Assessment Core Indicator Lists

New Cases of Cancer							
Primary site of Cancer	Waukesha County						Wisconsin
	2011		2012		2013		2013
	Cases	Rates	Cases	Rates	Cases	Rates	Rates
Female Breast	374	189.0	383	193.3	390	195.1	154.5
Prostate	334	173.3	286	147.9	271	140.6	124.1
Lung & Bronchus	258	66.0	264	67.4	287	73.1	70.9
Colorectal	191	48.9	173	44.2	175	44.6	43.1
Cervical	12	6.1	10	5.0	10	5.0	5.6
Other Sites	1,205	308.5	1,169	298.5	1,251	318.6	278.4
Total	2,376	608.2	2,293	585.6	2,384	607.1	534.6

Rates are Crude Incidence Rates per 100,000 population

*Public Health Profiles 2014-2016*

Age-Adjusted Mortality Rates*				
Disease	Waukesha County			Wisconsin
	2013	2014	2015	2015
All Causes	610.3	617.6	593.2	716.4
Cancers				
All Cancers	143.8	149.7	136.4	159.5
Lung Cancer	38.4	37.4	33.5	39.8
Breast cancer	11.3	11.6	8.9	10.2
Colorectal Cancer	11.9	10.6	8.7	12.8
Cervical/Uterus Cancer	1.3	2.4	4.4	4.1
Chronic Conditions/ Diseases				
Cardiovascular Disease	125.8	122.5	117.0	156.1
Stroke	28.5	25.5	30.5	35.6
COPD	29.6	32.3	28.1	39.3
Alzheimer's Disease	18.0	20.5	27.5	27.5
Diabetes Mellitus	16.6	14.8	12.8	19.4
Chronic Kidney Disease	14.1	11.1	11.7	13.7
Chronic Liver Disease	7.8	7.6	6.3	8.5
Other				
Unintentional Injuries	40.4	41.2	44.7	49
Suicide	13.1	10.7	14.3	14.6
Pneumonia/Influenza	15.9	16.9	13.8	14.2
Motor Vehicle Crashes	7	6	5.5	10

\*All rates per 100,000 population

*WISH Data*

## Community Health Status Assessment Core Indicator Lists

<b>Waukesha County Deaths by Race/Ethnicity 2012-2015</b>		
<b>Race/Ethnicity</b>	<b>Death Rate*</b>	<b>Disparity</b>
<b>Diabetes</b>		
White	14	
Asian	18.1	1.3 times higher than White Rate
Non-Hispanic	14	
Hispanic	20.6	1.5 times higher than Non-Hispanic rate
<b>Alzheimer's Disease**</b>		
Non-Hispanic	20.6	
Hispanic	35.6	1.7 times higher than non-Hispanic rate
<b>Stroke</b>		
White	34.5	
Black	49.9	1.4 times higher than White rate
American Indian	46.6	1.4 times higher than White rate
Asian	48.7	1.4 times higher than White rate
Non- Hispanic	28.4	1.1 times higher than Hispanic rate
Hispanic	24.9	
<b>Heart Disease</b>		
White	124.1	1.8 times higher than Asian rate
Black	104	1.5 times higher than Asian rate
Asian	68.8	
Non-Hispanic	123.8	1.5 times higher than Hispanic rate
Hispanic	81.1	
<b>Infant mortality</b>		
White	3.5	
Black	4.4	1.3 times higher than White rate
Non-Hispanic	7.3	
Hispanic	10.8	1.5 times higher than non-Hispanic rate

\*Age Adjusted Mortality Rate: Deaths per 100,000 population

\*\*Data is 2011-2015

*WISH Data*

## Community Health Status Assessment Core Indicator Lists

### Waukesha County Medical Examiner Suicide Death Statistics 2005 - 2017

Category	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*	2017**
Asphyxia	--	2	--	1	--	2	--	--	--	--	2	3	2
Carbon Monoxide	3	1	1	--	4	3	1	2	1	1	2	4	--
Drowning	--	--	1	1	--	--	--	--	--	--	--	--	--
Fall	--	--	1	--	1	--	--	--	1	2	--	--	--
Fire	--	2	--	1	--	--	--	--	--	--	1	--	--
Gunshot/Shotgun Wound	17	14	18	15	18	25	17	24	27	23	30	23	10
Hanging	6	3	6	5	8	14	9	14	14	9	10	6	1
Incised Wounds	--	--	2	--	1	--	2	1	1	1	1	3	--
Ingestion	4	5	12	8	3	7	7	7	5	5	7	4	--
Inhalation	--	--	--	--	--	3	1	1	3	1	2	--	--
Motor Vehicle	1	--	--	--	1	1	--	--	--	3	--	--	--
Pedestrian VS Train	--	3	--	--	--	--	2	1	2	--	1	2	--
Sharp Force Injury	--	1	--	--	1	2	--	--	--	--	1	--	--
<b>Total</b>	<b>31</b>	<b>31</b>	<b>41</b>	<b>31</b>	<b>37</b>	<b>57</b>	<b>39</b>	<b>50</b>	<b>54</b>	<b>45</b>	<b>57</b>	<b>45</b>	<b>13</b>

Demographics	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016*	2017**
Male	24	22	30	22	28	40	29	42	44	34	45	34	11
Female	7	9	11	9	9	17	10	8	10	11	12	10	2
Age 19 years and under	2	3	1	1	1	6	5	3	1	3	4	2	1
Ages 20-40	10	11	15	9	10	14	12	11	9	10	14	6	2
Ages 41-64	13	10	18	9	18	28	16	27	34	25	31	24	8
Ages 65 and above	6	7	7	12	8	9	6	9	10	7	8	12	2

\*2016 data is based on completed death certificates as of 5/22/2017. Totals may or may not increase once all cases are no longer pending.

\*\*2017 data is based on completed death certificates as of 5/22/17.

### *Medical Examiner Data*

## Community Health Status Assessment

### Core Indicator Lists

Hospitalizations 2014			
Cause of Hospitalization	Waukesha County		Wisconsin
	Cases	Rate (per 1,000)	Rate (per 1,000)
Total Hospitalizations	39,252	99.6	104.1
Preventable Hospitalizations	4,457	11.4	13.2
Injury-Related	3,182	8.1	8.6
Mental Disorders	2,129	5.4	6.6
Cancers	1,247	3.2	3.0
Coronary Heart Disease	1,023	2.6	2.8
Stroke	992	2.5	2.5
Pneumonia & Influenza	904	2.3	2.8
Alcohol-Related	768	1.9	1.8
Diabetes	389	1.0	1.3
Asthma	271	0.7	0.9
Drug-related	284	0.7	0.6

*Public Health Profiles 2016*

Fall Data by Age Group							
Age Groups	Waukesha County						Wisconsin
	2012		2013		2014		2014
	#	Rate*	#	Rate*	#	Rate*	Rate*
<b>Fall-Related Hospitalizations</b>							
Under 1	1	26.8	4	107.1	1	26.0	64.5
1-14	31	41.5	27	39.0	13	17.3	25.9
15-24	21	43.5	19	40.8	19	39.3	44.1
25-44	64	71.0	58	65.6	64	73.7	93.0
45-64	298	244.3	313	239.2	281	216.9	286.2
65-84	778	1,577.3	826	1,610.5	825	1,553.3	1,418.0
85+	630	6,490.2	659	6,932.5	601	5,793.3	5,660.6
Total	1,823	365.8	1,906	373.7	1,804	341.7	348.5
<b>Fall-Related Deaths</b>							
Under 1	0	0	0	0	0	0	0
1-14	0	0	0	0	0	0	0
15-24	1	2.1	0	0	1	2.1	0.9
25-44	1	1.1	1	1.1	0	0	1.8
45-64	7	5.9	3	2.0	11	8.0	6.5
65-84	43	88.3	35	68.8	40	76.3	62.7
85+	64	659.3	65	683.8	65	626.6	509.8
Total	116	33.8	104	54.5	117	41.5	21.6

\*All rates are Age-Adjusted for Age Groups and per 100,000 population

*WISH Data*

# Community Health Status Assessment

## Core Indicator Lists

### Category Ten - Communicable Disease

Definition of Category: Measures within this category include diseases which are usually transmitted through person-to-person contact or shared use of contaminated instruments / materials. Many of these diseases can be prevented through a high level of vaccine coverage of vulnerable populations, or through the use of protective measures.

Data Highlights:

- Waukesha County has fairly high rates of pneumococcal and influenza vaccine among those age 65 and older
- The proportion of 2 year olds who have received all age appropriate vaccines continues to increase and is approaching the Healthy People 2020 goal of 80%
- There is an increasing number of children with vaccine personal conviction waivers, which when combined with noncompliant equals approximately 5,000 children that are not fully immunized
- Communicable diseases continue to increase, from 2013 to 2016, there was a 50% increase in the number of diseases investigated
  - Largest increases have been seen in STDs, Hepatitis B and C and some enteric diseases

Proportion of adults aged 65+ who have				
	Waukesha			WI
	2009	2012	2015	2013
Ever been immunized for pneumococcal pneumonia	74%	75%	73%	73%
Been immunized in the past 12 months for influenza	75%	64%	73%	55%

*Community Health Survey*

Proportion of 2-year old children who have				
	Waukesha			WI
	2014	2015	2016	2016
Received all age-appropriate vaccines (4:3:1:3:3:1:4)	72%	77%	77%	73%

*State of Wisconsin Data*

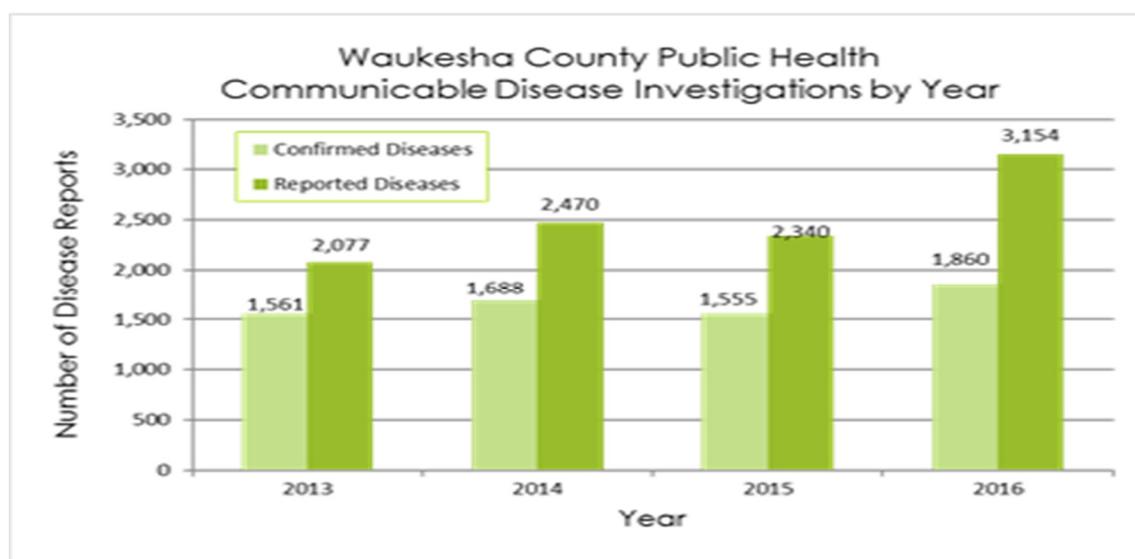
Compliance with school immunization laws			
	School Year		
	2012-2013	2013-2014	2014-2015
Total Enrollment	73,984	72,889	76,598
% fully immunized for age	93%	93%	93%
% waivers	6%	6%	6%
# Health	261	271	266
# Religious	139	129	149
# Personal	3,711	3,714	4,076
% not compliant	1%	1%	1%

*School Immunization Report*

## Community Health Status Assessment Core Indicator Lists

<b>SELECTED REPORTABLE ACUTE AND COMMUNICABLE DISEASES WAUKESHA COUNTY 2012-2016</b>					
Name of Diseases	2012	2013	2014	2015	2016
<b>Enteric Diseases</b>					
Campylobacteriosis	77	72	68	79	99
Cryptosporidiosis	10	14	10	8	19
E. coli , Shiga toxin-producing (STEC)	13	11	17	12	23
Giardiasis	32	18	21	14	25
Hepatitis A	5	3	0	1	0
Salmonellosis	68	43	50	47	59
Shigellosis	6	6	25	10	13
<b>Vaccine Preventable Diseases</b>					
Hepatitis B	12	16	13	14	23
Measles	0	0	1	0	0
Mumps	0	0	4	0	5
Pertussis	477	80	91	74	91
Rubella	0	0	0	0	0
<b>Sexually Transmitted Diseases</b>					
Chlamydia	591	661	621	630	788
Gonorrhea	85	78	69	75	113
HIV/AIDS	9	5	3	5	3
Syphilis	7	5	6	3	18
<b>Other Selected Reportable Diseases</b>					
Hepatitis C	69	90	95	127	112
Influenza A, novel subtype	2	0	0	0	0
Influenza-Associated Hospitalization	190	179	282	161	101
Legionellosis	7	11	7	9	10
Lyme Disease	43	54	31	45	43
Meningococcal Disease	0	0	0	2	0
Mycobacterial Disease (Non-TB)	103	80	82	73	85
Tuberculosis, Active	1	5	4	2	1

WEDSS data



WEDSS data

# Community Health Status Assessment

## Core Indicator Lists

### Category Eleven - Sentinel Events

Definition of Category: Sentinel events are those cases of unnecessary disease, disability, or untimely death that could be avoided if appropriate and timely medical care or preventive services were provided. These include vaccine-preventable illness and unexpected syndromes or infections. Sentinel events may alert the community to health system problems such as inadequate vaccine coverage or the introduction of globally transmitted infections. This category includes emerging issues such as the heroin/opiate epidemic.

#### Data Highlights:

- During the last 15 years, Waukesha County has experienced a large increase in the number of new or emerging disease threats that require a significant public health response. These threats pose significant risk to the health of Waukesha County residents and necessitate a rapidly evolving all-hazards public health response plan
- The Opiate and Heroin epidemic continues to grow at an alarming rate:
  - Hospital encounters involving opiates has increased, with the largest increase relating to Heroin, which has now surpassed the State rate
  - Neonatal Abstinence Syndrome and Ambulance runs utilizing naloxone have remained stable and similar to State rates
  - There was a sharp increase in deaths related to Heroin in 2012, and the numbers have remained high

New or Emerging Disease Threats that required Public Health Response since 2003		
Monkeypox	SARS	Pertussis
Rubella	Measles	Pandemic/Avian Flu
Ebola	Zika	Elizabethkingia
Hantavirus	Drug-resistant Tuberculosis	

*Public Health Data*

Opiate and Heroin Related Data								
	Waukesha						WI	
	2012		2013		2014		2014	
	#	Rate	#	Rate	#	Rate	#	Rate
Hospital Encounters involving opiates*	159	40.6	190	48.4	191	48.5	2,991	52.0
-involving Heroin specifically*	44	11.2	77	19.6	98	24.9	999	17.4
Neonatal Abstinence Syndrome**	31	8.0	37	10.0	33	8.5	583	8.7
Ambulance runs utilizing naloxone*	218	55.7	236	60.1	211	53.6	3,557	61.9

\*crude rate per 100,000 population

\*\*crude rate per 1,000 live births

*Select Opioid-Related Morbidity and Mortality Data for Wisconsin November 2016*

## Community Health Status Assessment Core Indicator Lists

2008 – 2016 Drug Related Deaths by Manner, Age and Gender							
Year	Total number Drug Related Deaths	Accident	Suicide	Undetermined	Gender Male; Female	Age Range	Avg. Age
2008	37	27	6	4	21 M ; 16 F	17 – 77 yrs	39 yrs
2009	29	23	3	3	15 M ; 14 F	19 – 83 yrs	44 yrs
2010	42	29	10	3	21 M ; 21 F	20 – 74 yrs	44 yrs
2011	47	38	8	1	27 M ; 20 F	13 – 71 yrs	41 yrs
2012	59	49	7	3	39 M ; 20 F	20 - 82 yrs	41 yrs
2013	39	33	5	1	23 M ; 16 F	19 – 87 yrs	44 yrs
2014	50	40	5	5	33 M; 17 F	12-64 yrs	37 yrs
2015	49	39	7	3	26M; 23 F	20-94 yrs	43 yrs
2016 (to date)	41	36	4	1	32 M; 9 F	15 – 88 yrs	

*Waukesha County Medical Examiners Data*

2008 -2016 Drug Related Deaths by Substances Identified					
Year	Total number of Drug Related Deaths	Drug Related Deaths by Substance(s)			
		Total Heroin-related (alone or in combination)	Opioid Medications (alone or in combination)	Synthetic Opioids (non-prescription)	Other Drugs or Medications
2008	37	7	22		8
2009	29	3	20		6
2010	42	5	33		4
2011	47	6	35		6
2012	59	21	27/1*		10
2013	39	11	23**		5
2014	50	15	29		6
2015	49	20	23**		6
2016 (adtl. data pending)	41	15	19/1*	1	5

\*One death in 2012 and one in 2016 involved injury sustained while under the influence of prescription opiate medication

\*\*One opiate related death in 2013 and two in 2015 had morphine identified but it was undetermined whether it originated from a prescription or heroin metabolism

*Waukesha County Medical Examiners Data*

Waukesha County Gun-related deaths by age 2011-2013									
	Age Groups								TOTAL
	13-17	18-19	20-29	30-39	40-49	50-59	60-69	70+	
Gun-related deaths	2	3	6	10	11	17	16	9	74

*WISH*

# Community Health Status Assessment

## Core Indicator Lists

### References

#### *Affordable Housing Online*

Affordable Housing Online serves low income renters in the U.S. with the most complete and up-to-date info on low income housing, affordable housing, affordable apartments, subsidized housing, Public Housing and Section 8 Housing Choice Voucher (HCV) waiting list information. <https://affordablehousingonline.com/>

#### *The American Hospital Directory (AHD.com)*

The American Hospital Directory provides data and statistics about more than 7,000 hospitals nationwide. AHD.com® hospital information includes both public and private sources such as Medicare claims data, hospital cost reports, and commercial licensors. AHD data is evidence-based and derived from the most definitive sources.

[www.ahd.com](http://www.ahd.com)

#### *Community commons*

Community Commons is a place where data, tools, and stories come together to inspire change and improve communities. They provide public access to thousands of meaningful data layers that allow mapping and reporting capabilities so people can thoroughly explore community health.

[www.communitycommons.org](http://www.communitycommons.org)

#### *Community Health Survey*

The Waukesha County Community Health Survey provides valuable behavioral data, lifestyle habits, and the prevalence of risk factors and disease conditions of Waukesha County residents. [https://www.waukeshacounty.gov/uploadedFiles/Media/PDF/Health\\_and\\_Human\\_Services/Public\\_Health/WC\\_Comm\\_Health\\_Survey\\_2015\\_Summary.pdf](https://www.waukeshacounty.gov/uploadedFiles/Media/PDF/Health_and_Human_Services/Public_Health/WC_Comm_Health_Survey_2015_Summary.pdf)

#### *County Health Rankings*

The annual *County Health Rankings* measure vital health factors, including high school graduation rates, obesity, smoking, unemployment, access to healthy foods, the quality of air and water, income inequality, and teen births in nearly every county in America. The annual *Rankings* provide a revealing snapshot of how health is influenced by where we live, learn, work and play.

<http://www.countyhealthrankings.org/app/wisconsin/2016/rankings/waukesha/county/outcomes/overall/snapshot>

#### *DHS.wisconsin.gov*

An internal report from the Division of Health Services of Wisconsin.

#### *Medicare usage data from HealthGrove*

HealthGrove is a health site that uses semantic technology to deliver deep insights via data-driven articles, visualizations and research tools providing health data.

<http://medicare-usage.healthgrove.com>

# Community Health Status Assessment

## Core Indicator Lists

### *Public Health Data*

[Internal data from Waukesha County Public health](#)

### *Public Health Profiles 2014-2016*

Public Health Profiles are published annually and provide concise health and demographic information about each county in Wisconsin.

<https://www.dhs.wisconsin.gov/stats/phprofiles/waukesha.htm>

### *School Immunization Report*

School Immunization Reports list data from each school regarding the number of students who are update with vaccines, in process, or have waivers from vaccines.

### *Select Opioid-Related Morbidity and Mortality Data for Wisconsin November 2016*

### *United Way*

Internal data from United Way

### *US Census data*

The U.S. Census Bureau is the leading source of quality data about the nation's people and economy.

<https://www.census.gov/>

### *US Census data – 2015 American Community Survey*

The American Community Survey is the premier source for information about America's changing population, housing and workforce.

<https://www.census.gov/programs-surveys/acs/>

### *Waukesha County Adolescent & Family Division. 2016*

[Internal data from Waukesha County adolescent & Family Division](#)

### *Waukesha County Environmental Health Profile 2015*

Environmental Health Profiles are summary reports of the environmental health data and provide a snapshot of a county's environmental health.

<https://www.dhs.wisconsin.gov/publications/p0/p00719-waukesha.pdf>

### *Waukesha County HHS data*

[Internal data from Waukesha County Waukesha County Health and human Services](#)

### *Waukesha County Medical Examiners Data*

[Internal data from Waukesha County Medical Examiner](#)

### *WCHHS Mental Health Clinic Data*

[Internal data from Waukesha County Health and Human Services Mental Health Clinic](#)

### *WEDSS data*

The Wisconsin Electronic Disease Surveillance System (WEDDS) is a secure, web-based

## Community Health Status Assessment

### Core Indicator Lists

system designed to facilitate reporting, investigation, and surveillance of communicable diseases in Wisconsin. It is designed for public health staff, infection control practitioners, clinical laboratories, clinics, and other disease reporters.

#### *WHA workforce report*

The Wisconsin Hospital Association's Healthcare Workforce Report is based on data collected by WHA in its Annual Personnel Survey. This survey is a tool that collects data from all WHA member hospitals. The Personnel Survey collects workforce information to better track, analyze, and understand workforce issues that affect Wisconsin hospitals.

<http://www.wha.org/pdf/2016workforcereport.pdf>

#### *WIC Data*

Internal data from Wisconsin's women Infant and Children program

#### *Wisconsin BRFSS 2014-2015*

The Wisconsin Behavioral Risk Factor Survey (BRFS) is a telephone survey that addresses a variety of topics, such as behaviors related to smoking, alcohol use, physical activity and overweight; prevalence of chronic diseases such as diabetes, asthma and hypertension; and receipt of recommended cancer and cholesterol screening tests.

<https://www.dhs.wisconsin.gov/stats/brfs.htm>

#### *Wisconsin Department of Public Instruction*

Internal data from the Wisconsin Department of Instruction.

#### *WISH*

The Wisconsin Interactive Statistics on Health (WISH) site gives information about health indicators (measures of health) in Wisconsin. WISH uses protected databases containing Wisconsin data from a variety of sources.

<https://www.dhs.wisconsin.gov/wish/index.htm>

#### *Women's Center Data*

Internal data from the Women's Center of Waukesha County. The Women Center provide safety, shelter, and support to women and their families affected by domestic violence, sexual assault and abuse, and to facilitate their development.

<http://twcwaukesha.org/>

*eWiSACWIS. SM02X100 – Access Report (Enhanced) 2013-2016*