



Wisconsin Public Health Profiles 2016 | MADISON



Office of Health Informatics
Division of Public Health
Wisconsin Department of Health Services

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Technical Notes

BIRTH OUTCOMES

Normal birthweight babies: 92.7% of live births
(2,500+ grams) Wisconsin: 92.6% of live births

ACCESS TO HIGH QUALITY HEALTH SERVICES

Preventable hospitalizations: 11.9 per 1,000 population
(For conditions where timely and effective ambulatory care can reduce likelihood of hospitalization) Wisconsin: 13.2 per 1,000 population

SUBSTANCE ABUSE

Deaths related to alcohol and other drugs: 110.8 per 100,000 population
(Alcohol, tobacco, or other drugs listed on death certificate as underlying or contributing cause. May reflect mention of multiple substances.) Wisconsin: 179.3 per 100,000 population



BIRTHS

Nativity data are drawn from birth certificates maintained by the Vital Records Section, Division of Public Health. This report presents data from the calendar year 2014.

DATA DETAILS

These data include characteristics of the infant and pregnancy (birthweight, delivery method, birth order, trimester of first prenatal care visit, and number of prenatal care visits) and attributes of the mother (age, marital status, education, race/ethnicity, and smoking status).

Data include records on all births to state residents, including those that occur outside Wisconsin. Out-of-state records are obtained from the state of occurrence. Thus, county birth data include all births to county residents regardless of where the births occurred.

TOTAL BIRTHS

Total live births	3,265
Crude live birth rate (per 1,000)	13.2
General fertility rate (per 1,000)	49.9

PREGNANCY CHARACTERISTICS

Delivery Type	Births	%
Vaginal after prev. cesarean	108	3.0
Other vaginal	2,191	67.0
Primary cesarean	482	15.0
Repeat cesarean	297	9.0
Cesarean (unk. repeat/primary)	0	0.0
Vaginal vacuum	120	4.0
Forceps	65	2.0
Other/Unknown	2	0.1

Prenatal Care Visits	Births	%
No visits	12	0.4
1-4	52	2.0
5-9	385	12.0
10-12	1,018	31.0
13+	1,397	43.0
Unknown	401	12.0

First Prenatal Care Visit	Births	%
1st trimester	2,425	74.0
2nd trimester	369	11.0
3rd trimester	95	3.0
No visits	13	0.4
Unknown	363	11.0

MATERNAL CHARACTERISTICS

Marital	Births	%
Married	2,232	68.0
Not	1,033	32.0
Unknown	0	0.0

Education	Births	%
Elementary or less	99	3.0
Some high school	215	7.0
High school graduate	491	15.0
Some college	653	20.0
College graduate	1,801	55.0
Unknown	6	0.2

Smoking	Births	%
Smoker	310	9.0
Nonsmoker	2,932	90.0
Unknown	23	0.0

INFANT CHARACTERISTICS

Birthweight	Births	%
< 1,500 gm	44	1.3
1,500-2,499 gm	194	5.9
2,500+	3,026	92.7
Unknown	1	0.0

Birth Order	Births	%
First	1,472	45.0
Second	1,058	32.0
Third	446	14.0
Fourth or higher	259	8.0
Unknown	30	1.0

Reported congenital anomalies ¹	Births	%
	30	0.9

MATERNAL CHARACTERISTICS AND BIRTH OUTCOMES

	All Births		LBW		Trimester of First Prenatal Visit					
	Births	%	Births	%	1st		2nd		Other/Unk.	
					Births	%	Births	%	Births	%
Race/Ethnicity										
White	2,035	62.0	139	6.8	1,588	78.0	178	9.0	269	13.0
Black/African-American	367	11.0	39	10.6	235	64.0	65	18.0	67	18.0
American Indian	7	0.2	0	0.0	6	86.0	0	0.0	1	14.0
Hispanic/Latino	358	11.0	25	7.0	259	72.0	56	16.0	43	12.0
Asian	387	12.0	27	7.0	265	68.0	53	14.0	69	18.0
Two or more races	91	3.0	5	5.5	60	66.0	12	13.0	19	21.0
Other/Unknown	20	1.0	3	15.0	12	60.0	5	25.0	3	15.0
Age		Fertility rate (per 1,000)								
< 15	2	--	0	0.0	0	0.0	0	0.0	0	0.0
15-17	26	9.0	1	3.9	11	42	7	27.0	8	31.0
18-19	92	14.0	9	9.8	52	57	24	26.0	16	17.0
20-24	434	23.0	34	7.8	284	65	82	19.0	68	16.0
25-29	888	72.0	55	6.2	668	75	89	10.0	131	15.0
30-34	1,185	111.0	78	6.6	915	77	109	9.0	161	14.0
35-39	528	73.0	46	8.7	402	76	53	10.0	73	14.0
40+	110	16.0	15	13.6	92	84	4	4.0	14	13.0
Unknown	0	--	0	0.0	0	0.0	0	0.0	0	0.0
Teen Births	120	13.0								

DEFINITIONS

Birthweight - infant weight at time of delivery (reported here in grams).

Live birth - complete expulsion or extraction of an infant from its mother, irrespective of the duration of pregnancy, which after such separation breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

Low birthweight (LBW) - birthweight of a liveborn infant of less than 2,500 gm (5lbs, 8oz) regardless of gestational age.

Smoking status - a mother is defined as a smoker if she reports smoking cigarettes at any time during or three months prior to the pregnancy. This is not comparable to Wisconsin data on maternal smoking for births prior to 2011.

Teen birth - births in which the mother was less than 20 years old.

MEASURES

Crude live birth rate - number of live births per 1,000 population.

General fertility rate - number of live births per 1,000 women of childbearing age (15-44).

Age-specific fertility rate - number of births to women in an age category, per 1,000 women of that age.

Teen fertility rate - number of live births to females under 20 years of age per 1,000 females age 15-19.

NOTES

¹ **Live births with reported congenital anomalies.** Due to the change in Wisconsin birth data collection beginning in 2011, the number of live births with reported congenital anomalies in 2011 and subsequent years cannot be compared with the number in 2010 and earlier years.



DEATHS

Mortality data are drawn from three sources maintained by the Vital Records Section, Division of Public Health: death certificates, infant death certificates matched with the corresponding birth certificates, and fetal death reports (deaths of fetuses of at least 20 weeks of gestation). This report presents data from the calendar year 2014.

DATA DETAILS

This report presents Wisconsin resident data (deaths of Wisconsin residents). The majority of these deaths occurred in Wisconsin, although death certificates of Wisconsin residents are received from other states and countries as well. Deaths have been assigned to the area where the person lived (usually legal residence), regardless of where the death occurred.

PERINATAL MORTALITY	Deaths	Rate (per 1,000)
Total perinatal mortality	22	6.7
Neonatal	7	.
Fetal	15	.

INFANT MORTALITY	Deaths	Rate (per 1,000)
Total infant mortality	12	.
Neonatal	7	.
Postneonatal	5	.
Birthweight		
< 1,500 gm	3	.
1,500-2,499 gm	3	.
2,500+ gm	6	.
Unknown	0	.
Race of Mother		
White	7	.
Black	2	.
Hispanic	2	.
Asian	0	.
Other/Unknown	1	.

TOTAL DEATHS

Total deaths	1,489
Crude death rate (per 100,000)	604.2

CHILD AND ADULT MORTALITY

Age	Deaths	Rate (per 100,000)
1-4	0	.
5-14	0	.
15-19	2	.
20-34	41	48.2
35-54	116	206.4
55-64	180	735.9
65-74	245	1,865.0
75-84	305	4,128.3
85+	588	15,111.8

Selected Underlying Causes

Heart disease (total)	303	122.9
Ischemic heart disease	162	65.7
Cancer (total)	321	130.3
Trachea/Bronchus/Lung	71	28.8
Colorectal	31	12.6
Female breast*	20	16.0
Cerebrovascular disease	75	30.4
Lower respiratory disease	68	27.6
Pneumonia and influenza	21	8.5
Accidents	104	42.2
Motor vehicle	9	.
Diabetes	29	11.8
Infectious/Parasitic diseases	36	14.6
Suicide	30	12.2
Alcohol and Drug Abuse as Underlying or Contributing Cause of Death		
Alcohol	22	8.9
Tobacco use	250	101.4
Other drugs	1	.

* Based on female deaths from breast cancer and female population.

DEFINITIONS

Cause of death - reported underlying cause of death, as recorded on death certificates. The categories and ICD-10 codes are listed in the Technical Notes.

Fetal death - death occurring prior to the complete expulsion or extraction from its mother of a product of conception; the fetus shows no signs of life such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles. Only deaths of fetuses of at least 20 weeks of gestation must be reported in Wisconsin. Fetal death reports do not include induced abortions.

Infant death - death of a live-born individual less than one year of age.

Neonatal death - death of a live-born infant less than four weeks (28 days) of age.

Perinatal deaths - neonatal deaths plus all reported fetal deaths of 20 or more weeks of gestation.

Postneonatal death - death of an infant between four weeks (28 days) and one year of age.

MEASURES

Crude death rate - number of deaths per 100,000 population.

Crude cause-specific death rate - number of deaths from a cause per 100,000 population.

Death rate by age - number of deaths in an age group per 100,000 population in that age group.

Neonatal, postneonatal, and infant death rates - number of deaths per 1,000 live births.

Fetal and perinatal death rates - number of deaths per 1,000 live births and fetal deaths.

Race-specific and age-specific infant death rates - deaths per 1,000 live births in that race or weight category.

NOTES

Alcohol and Drug Abuse as Underlying or Contributing Cause of Death provides a count of deaths with any mention of alcohol, tobacco use, or other drugs on the death certificate. A death with more than one of these causes mentioned is counted for each one. For instance, a death that mentions both alcohol and tobacco will be counted in both categories.



Hospitalizations

Hospitalization data are obtained from hospital inpatient discharge files prepared by the Health Analytics Section, Division of Public Health (DPH), from data collected by the Wisconsin Hospital Association Information Center. This report presents data from the calendar year 2014.

DATA DETAILS

Diagnostic definitions used for the categories are based on the principal diagnosis. Hospitalizations are measured as inpatient discharges. Hospitalizations for an individual can occur more than once due to multiple admissions and transferring between hospitals. The diagnoses most affected by transfers are malignant neoplasms, mental disorders, cerebrovascular disease, coronary heart disease, and injury-related diagnoses.

Prior to 2011, information was not reported on Wisconsin residents hospitalized out of state. As a result, the hospital data for border counties were incomplete, since residents of these counties may receive a significant amount of care from out-of-state facilities. Beginning in 2011, the Public Health Profiles include records for Wisconsin residents treated in Minnesota hospitals. Therefore, counts and rates of hospitalizations in the affected counties changed substantially and caution is advised when comparing across data years. Counts and rates remain underestimated for those counties whose residents receive a significant amount of care in Iowa, Michigan, or Illinois hospitals.

Hospital patient records include only the ZIP code and county of residence. DPH used Census data and surveyed Local Health Departments (LHDs) to determine the best defining combination of ZIPs for each sub-county LHD and each municipality.

TOTAL HOSPITALIZATIONS		Rate	Average	Charge
	Cases	(per 1,000)	charge	per capita
Total	28,060	113.9	\$29,646	\$3,376
Age				
<18	5,537	125.8	\$16,629	\$2,091
18-44	8,248	65.3	\$21,162	\$1,381
45-64	6,244	120.9	\$40,158	\$4,854
65+	8,031	328.9	\$39,163	\$12,881

Cause by selected age group	Cases	Rate (per 1,000)	LOS	Average charge	Charge per capita
INJURY-RELATED					
Injury: All					
Total	2,138	8.7	4.4	\$42,175	\$366
<18	138	3.1	3.6	\$35,708	\$112
18-44	515	4.1	3.9	\$41,899	\$171
45-64	633	12.3	4.6	\$44,274	\$542
65+	852	34.9	4.8	\$41,831	\$1,460
Injury: Hip Fracture					
Total	211	0.9	4.8	\$43,880	\$38
65+	180	7.4	4.9	\$45,204	\$333
Injury: Poisonings					
Total	332	1.3	2.8	\$22,165	\$30
18-44	155	1.2	2.7	\$22,339	\$27
DRUG & ALCOHOL USE					
Alcohol-Related					
Total	417	1.7	3.8	\$21,341	\$36
18-44	168	1.3	3.3	\$17,863	\$24
45-64	216	4.2	4.1	\$22,222	\$93
Drug-related					
Total	98	0.4	6.2	\$14,512	\$6
18-44	53	0.4	5.1	\$11,373	\$5
MENTAL DISORDERS					
Total	1,985	8.1	7.7	\$17,435	\$140
<18	350	7.9	6.8	\$20,280	\$161
18-44	1,007	8.0	7.2	\$15,064	\$120
45-64	485	9.4	8.0	\$17,406	\$163
65+	143	5.9	11.9	\$27,265	\$160
PREVENTABLE HOSPITALIZATIONS					
Total	2,937	11.9	4.6	\$31,942	\$381
<18	201	4.6	2.5	\$16,475	\$75
18-44	450	3.6	4.2	\$33,317	\$119
45-64	799	15.5	5.0	\$35,652	\$551
65+	1,487	60.9	4.8	\$31,623	\$1,926

Cause by selected age group	Cases	Rate (per 1,000)	LOS	Average charge	Charge per capita
DIABETES					
Total	370	1.5	4.6	\$30,995	\$47
65+	94	3.8	6.0	\$36,120	\$139
CARDIOVASCULAR DISEASE					
Coronary Heart Disease					
Total	582	2.4	3.7	\$72,147	\$170
45-64	244	4.7	3.1	\$72,429	\$342
65+	314	12.9	4.2	\$72,530	\$933
Cerebrovascular Disease					
Total	564	2.3	4.2	\$44,034	\$101
45-64	146	2.8	4.5	\$50,164	\$142
65+	380	15.6	4.1	\$38,589	\$601
CHRONIC PULMONARY DISEASE					
Asthma					
Total	241	1.0	2.7	\$18,986	\$19
<18	78	1.8	2.2	\$17,272	\$31
18-44	49	0.4	2.2	\$15,837	\$6
45-64	65	1.3	3.1	\$20,630	\$26
65+	49	2.0	3.4	\$22,683	\$46
Other Chronic Obstructive Pulmonary Disease					
Total	218	0.9	3.8	\$24,449	\$22
45-64	66	1.3	3.6	\$26,063	\$33
65+	146	6.0	3.9	\$23,744	\$142
PNEUMONIA & INFLUENZA					
Total	578	2.3	4.2	\$27,537	\$65
<18	53	1.2	2.9	\$18,188	\$22
45-64	118	2.3	4.5	\$29,925	\$68
65+	346	14.2	4.4	\$28,327	\$401
NEOPLASMS					
Malignant Neoplasms (Cancers): All					
Total	712	2.9	5.7	\$60,331	\$174
18-44	61	0.5	5.6	\$61,332	\$30
45-64	302	5.8	5.2	\$59,642	\$349
65+	334	13.7	5.9	\$56,875	\$778
Neoplasms: Female Breast (rates for female population)					
Total	26	0.2	2.8	\$52,487	\$11
Neoplasms: Colorectal					
Total	75	0.3	7.6	\$61,843	\$19
65+	41	1.7	8.2	\$60,170	\$101
Neoplasms: Lung					
Total	25	0.3	5.8	\$54,726	\$19

DEFINITIONS

Length of stay (LOS) - average duration, in days, of a single episode of hospitalization for an individual with the specified condition.

Preventable hospitalizations - Hospitalizations for conditions where timely and effective ambulatory care can reduce the likelihood of hospitalization (see Technical Notes).

MEASURES

Average charge - total charges within a particular diagnostic category and age group divided by the number of discharges with reported charges in that group.

Charge per capita - total charges divided by the estimated total population (within age groups: age-specific charges divided by the estimated age-specific population).

Rate of discharge - number of discharges in that diagnostic category and age group per 1,000 population in that age group.

Rate of discharge for female breast neoplasms - number of discharges in that diagnostic category per 1,000 women.

NOTES

Length of stay and charge outliers were defined as values below the 1st percentile or above the 99th percentile (i.e., the highest one percent and the lowest one percent). In these cases, the length of stay or charge was set to the 1st or 99th percentile value. Since reporting of charges is optional for lengths of stay over 100 days, the charges for those cases with a missing charge and length of stay over 100 days were also set to the 99th percentile value.

Data for the Community Options Program (COP) and Medicaid Waiver programs are maintained in the Human Services Reporting System (HSRS), managed by the Division of Long Term Care (DLTC). Nursing home data are drawn from the Division of Quality Assurance (DQA) Staffing Survey, as well as the federal MDS (minimum dataset) resident-based data collected from Medicare- and/or Medicaid-certified nursing homes, and were provided by the Division of Quality Assurance (DQA). The data do not include the five state-licensed-only nursing homes in Wisconsin. This report presents data from the calendar year 2014.

DATA DETAILS

In most counties, the COP and Medicaid Waiver programs are administered by a single county agency. For counties that have more than one agency serving different populations, the data were combined to produce the numbers in the county report. Data from the Oneida Tribe were included in Brown County data. Both the client counts and the costs are taken from the reporting system prior to any year-end contract adjustments with the provider agencies. COP and Medicaid Waiver counts represent unduplicated cases, as reported by DLTC. Waiver costs reported include federal funding.

COMMUNITY OPTIONS PROGRAM (COP)			
This data available at county level only			
MEDICAID WAIVER*			
This data available at county level only			
CIP1A Developmentally disabled			
CIP1B Developmentally disabled			
CIP2 Elderly/Physically disabled adults			
COP-W Elderly/Physically disabled adults			
CLTS Disabled children			
Brain injury			
Total COP/Waivers			
Eligible and Waiting			
FAMILY CARE/PARTNERSHIP PROGRAM		Clients	Costs
Family Care		781	\$22,947,217
NURSING HOMES		Count	
Nursing homes		8	
Licensed beds		769	
Nursing home residents on December 31		597	
RESIDENTS AGE 65+ PER 1,000 POPULATION		22.0	

NOTES

Clients eligible and waiting for the COP/Medicaid Waiver programs are phased into care as appropriate based on DLTC policies.

Community Integration Program-1A (CIP1A) is authorized by Wis. Stat. § 46.275. It is a Medicaid-funded (state and federal) program designed to provide community services to persons who are relocated or diverted from the state centers for the developmentally disabled. Participants must be Medicaid eligible. The target group is developmentally disabled persons, of any age, who reside in or would enter a state center for the developmentally disabled without this program.

Community Integration Program-1B (CIP1B) is authorized by Wis. Stat. § 46.278. It is a Medicaid-funded (state and federal) program designed to provide long-term care assessments, care plans, and community services to persons who are relocated or diverted from ICFs-MR other than a state center for the developmentally disabled. Participants must be Medicaid eligible. The target group is developmentally disabled persons, of any age, who are diverted or relocated from an ICF-MR (not a state center) and certain nursing homes.

Community Options Program-Waiver (COP-W) is authorized by Wis. Stat. § 46.27 (11). It is a Medicaid-funded (state and federal) program designed to provide community services as an alternative to nursing home placement. Participants must be Medicaid eligible. The target group is frail elderly and physically disabled adults. COP-W is funded as an allocation to counties, based on the Community Aids formula or as designated by legislative intent. Counties manage these funds by serving eligible people within the total amount of COP-W funding.

Community Integration Program II (CIP2) targets the same group of frail elderly and physically disabled adults. This program is intended to increase the capacity of home-based and community-based care programs when nursing home resources are lost due to closing of facilities or reducing the number of licensed beds.

Children's Long-Term Support Waivers (CLTS) are authorized by Wisconsin Statute in 2001 Wisconsin Act 16, § 9123 (16rs); and 2003 Wisconsin Act 33, § 9124 (8c). This is a Medicaid-funded (county, state and federal) program designed to provide long-term care assessments, care plans, and community services to children who meet functional and financial eligibility criteria. Participants must be Medicaid eligible. The target group is children with developmental, mental health, or physical disabilities up to age 22. Beginning in 2012, CLTS claims for all counties are submitted for payment processing to the Third-Party Administrator (TPA), Wisconsin Physicians Service (WPS).

Family Care is a Medicaid long-term care program for adults with physical or intellectual/developmental disabilities and frail elders. The Department of Health Services (DHS) contracts with managed care organizations (MCOs) to operate Family Care. DHS provides the MCO with a monthly capitation payment for each member. The MCO uses these funds to provide individually planned services for all of its members. Care managers work with members to identify their needs, strengths, and preferences. Together, they identify the resources available and develop a care plan that may include help from family, friends, and neighbors. When this help is not available, the MCO will purchase necessary services from a contracted provider. The Partnership and PACE (Program of All-Inclusive Care for the Elderly) programs are similar to Family Care, but include primary and acute care services, and prescription drugs.



Local Health Departments, Programs & Licenses

Local health department (LHD) statistics come from the 2013 Local Health Department Survey, which was conducted within the Wisconsin Department of Health Services (DHS) by the Office of Policy and Practice Alignment (OPPA), Division of Public Health (DPH).

DATA DETAILS

The percent of children compliant with immunization requirements is based on reports required from all public and private schools and compiled by the Immunization Section, Bureau of Communicable Diseases (BCD), DPH. Immunization data in this report are for the 2014-2015 school year.

The Food Safety and Recreational Licensing Section of the Bureau of Environmental and Occupational Health (BEOH), DPH, provided the licensed establishment data. This report includes licensed establishment data for State Fiscal Year 2014.

LOCAL HEALTH DEPARTMENTS		This data available at county level only		LICENSED ESTABLISHMENTS		Count	
Staffing - Full-Time Equivalent (FTE)							
Total FTEs				Bed & Breakfast			3
Administrative				Camps			3
Public health nurses				Hotels/Motels			59
Oral health professionals				Tourist rooming			6
Environmental health professionals				Pools			258
Public health educators				Restaurants			878
Nutritionists				Body art			22
Other professional staff				WIC PARTICIPANTS			Count
Technical/Paraprofessionals				Total			6,740
Support staff				Pregnant/Postpartum women			2,054
Funding				Infants			1,396
Total funding				Children, age 1-4			3,290
Local taxes				Non-English-speaking			1,977
				English-speaking			4,762
IMMUNIZATIONS		Count	%				
Children in Grades K-12							
Compliant		29,764	99.0				
Noncompliant		288					

DEFINITIONS

Environmental health professionals - includes registered sanitarians and other environmental professionals.

Other professional staffing - includes dietitians, physicians, epidemiologists, laboratory professionals, registered nurses, nurse practitioners, and other public health professionals.

Technical and paraprofessionals - includes computer specialists, diet technicians, interpreters, lab technicians, licensed practical nurses, and other paraprofessionals.

Lodging facilities - includes hotels, motels, tourist rooming houses, and bed and breakfast establishments.

Recreational facilities - includes water attractions, swimming pools, recreational educational camps, and campgrounds.

Body art establishments - includes both tattoo and body piercing establishments.

NOTES

Local Health Departments - The Office of Policy and Practice Alignment distributed the 2014 survey to local health officers via the online survey tool, which allowed the LHDs to submit their responses electronically. Some local health departments serve populations that do not coincide with county boundaries. For example, the city of Appleton is located in three counties. This report apportions staff and funding according to the percent of the health department's population in each county, using population estimates provided by the Wisconsin Department of Administration for January 1, 2014.

Immunization - The number of children noncompliant with immunization requirements does not include those whose parents have filed waivers based on personal conviction, religious, or medical grounds.

Licensed Establishments - The facilities in this report are active establishments licensed and inspected by the Food Safety and Recreational Licensing Section, or by local health departments under contract with the Division of Public Health. Restaurants are categorized by the complexity or risk of their fare (prepackaged, simple, moderate, complex).

WIC - The number of participants in the Supplemental Nutrition Program for Women, Infants and Children (WIC) represents an unduplicated count of participants by county. The state and regional values were obtained by summing the county values, which introduced duplication, reflecting those participants who moved to another county during the year. The number of WIC participants in a county may seem high compared to the number of births. Once a participant enters the WIC program, that participant's status is not modified as it changes. For example, an infant may be 11 months old in January and change to a new status of "child" in the next month. For purposes of the unduplicated count, this participant is counted as an infant for the fiscal year report. Starting from 2008, the Profiles include the number of WIC participants who do not speak English and those who do. Totals may differ somewhat from totals for type of participants because the timeframes are slightly different. For 2009 and future WIC data, if a WIC participant lived in more than one county in the year and did not speak English, that participant is reported in each county of residence.



Population

The population by age, sex, race, and ethnicity was estimated for July 1, 2014, by the Health Analytics Section, Division of Public Health. Estimates of poverty and median household income in Wisconsin were obtained from the U.S. Census Bureau's Small Area Income and Poverty Estimates (SAIPE) program website. Employment statistics (civilian labor force, unemployment rate, and average wage) were obtained from the Division of Workforce Solutions, Wisconsin Department of Workforce Development.

POPULATION ESTIMATES

Total 2013 population	246,440
Population per square mile	3,149
Population growth 2010-2014	6,954

	Female	Male	Total
Total	124,630	121,850	246,440
Age			
0-14	18,300	19,610	37,910
15-17	2,990	3,130	6,120
18-19	6,440	5,820	12,250
20-24	18,900	18,880	37,780
25-44	37,090	39,250	76,340
45-64	26,790	24,880	51,660
65-84	11,790	8,740	20,530
85+	2,340	1,550	3,890
Race/Ethnicity			
White	93,160	89,620	182,770
African American	9,170	9,200	18,370
American Indian	420	350	770
Hispanic	8,540	9,430	17,960
Asian	10,130	9,630	19,770

POVERTY ESTIMATES

This data available at county level only

All ages
Ages 0-17

EMPLOYMENT

This data available at county level only

Average wage for jobs covered by unemployment compensation (place of work)
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LABOR FORCE

Annual

Average

Civilian labor force	149,599
Unemployment rate	3.7
5-year avg. unemployment rate (2010-2014)	4.8

DEFINITIONS

Civilian labor force - includes all persons 16 years of age or over who are either working or looking for work. This statistic does **not** include members of the armed forces; "discouraged workers" who are not actively seeking employment, about to start a new job, or waiting to be called back from a layoff; or other people (such as students or retired persons) not working or looking for work.

Employed persons - individuals 16 years or older who worked for pay anytime during the week that includes the 12th day of the month, or who worked unpaid for 15 hours or more in a family-owned business, or who were temporarily absent from their jobs due to illness, bad weather, vacation, labor dispute, or personal reasons.

Unemployed persons - individuals 16 years or older who had no employment, were available for work, and either actively seeking employment, about to start a new job, or waiting to be called back from a layoff.

NOTES

Estimated populations are reported rounded to the nearest 10.

The **race/ethnicity categories** are mutually exclusive (racial categories exclude Hispanics). Estimated populations are reported rounded to the nearest 10.

Cancer incidence data are compiled from reports submitted by Wisconsin hospitals, clinics, and physicians to the Wisconsin Cancer Reporting System (WCRS), Health Analytics Section, Division of Public Health, as mandated under Wis. Stat. § 255.04. This report presents cancer incidence data for cases diagnosed in the calendar year 2013 (the latest data available).

DATA DETAILS

Hospitals report all cases seen with active cancers. Clinics and physicians report all treated cases and any non-treated cases that have not been referred to a Wisconsin hospital. Central cancer registries in 19 other states and several Minnesota hospitals that diagnose and/or treat Wisconsin resident cancer patients report voluntarily to WCRS.

All reports sent to WCRS include patient demographics, tumor-specific characteristics, and type of treatment. WCRS reportable cancers include all malignant invasive and noninvasive neoplasms (except basal cell and squamous cell carcinomas that arise in the skin and noninvasive cervical cancers) plus in situ (pre-malignant) bladder cancers and (since January 1, 2004) benign tumors of the brain and central nervous system.

PRIMARY SITE	Cases	Crude incidence rate (per 100,000)
Female breast*	161	133.8
Cervical*	5	4.2
Colorectal	71	29.8
Lung and bronchus	102	42.9
Prostate*	89	75.6
Other sites	535	224.8
Total	963	404.6

*Rates include cases per 100,000 sex-specific population

MEASURES

Crude incidence rate - cases per 100,000 unadjusted population.

NOTES

Totals include only invasive cancers and are thus not comparable to any previous publications that included both invasive and noninvasive cancers.



Data for communicable diseases are shown for selected reportable diseases. Numbers of confirmed cases were obtained from the Bureau of Communicable Diseases, Division of Public Health. Wisconsin Stat. ch. 252 and Wis. Admin. Code ch. DHS 145 require the surveillance and control of certain communicable diseases. This report presents data from the calendar year 2014.

DATA DETAILS

Completeness of reporting varies by disease. The figures for a county or region refer to reported cases among residents of that county or region, regardless of where the disease was contracted.

Specific counts for a year are subject to some slight changes over time as medical tests reveal previously unidentified cases or change previous diagnoses.

NOTES

The symbol "<5" denotes that the number of reported cases is between 1 and 4. The exact number is suppressed to maintain confidentiality.

DISEASE	Cases
Babesiosis	0
Blastomycosis	0
Campylobacter enteritis	59
Cryptosporidiosis	27
E.coli, shiga toxin-producing (STEC)	13
Ehrlichiosis/Anaplasmosis	<5
Giardiasis	30
Haemophilus influenzae, invasive	<5
Hepatitis A	<5
Hepatitis B*	33
Hepatitis C	145
Influenza-associated hospitalization	175
Legionnaires'	<5
Lyme	28
Measles	0
N. meningitidis (Meningococcal disease)	<5
Meningitis, other bacterial	0
Mumps	29
Pertussis	27
Salmonellosis	53
Shigellosis	11
Streptococcus pneumoniae, invasive	10
Streptococcal diseases, all other	23
Tuberculosis	<5
Sexually Transmitted Disease	
Chlamydia trachomatis	1,298
Gonorrhea	313
Syphilis	31

*Includes all positive HBsAg test results.



Motor Vehicle Crashes

2016 Profile for Madison

Data on injuries and fatalities in motor vehicle crashes are obtained from the WisDOT-DMV Traffic Accident Database of the Wisconsin Department of Transportation (DOT). This report presents data from the calendar year 2014.

DATA DETAILS

These data are based on location of crash, not on residence.

Motor vehicle crash data are occurrence data from the county in which the crash took place. (Most other data in the Profiles are based on the county of residence.) County statistics on persons injured and killed therefore do not include county residents who were injured or killed outside the county, and may include persons who are residents of other counties or other states.

TYPE OF MOTOR VEHICLE CRASH	Persons Injured	Persons Killed
All crashes	1,806	7
Alcohol-related	83	4
With citation for OWI	92	0
With citation for speeding	91	0
Motorcyclist	45	0
Bicyclist	103	0
Pedestrian	51	3

DEFINITIONS

Persons injured - persons who were physically harmed or complained of physical harm from injuries received in the crash, but did not die within 30 days of the crash.

Persons killed - were all persons who died within 30 days from injuries received in the crash .

Alcohol-related crash - a crash in which either a driver, bicyclist, or pedestrian is listed on a police or coroner report as drinking alcohol before the crash.

Crashes with a citation for OWI - crashes in which a law enforcement official has issued a citation for violation of Wis. Stat. § 346.63, "operating under influence of intoxicant or other drug."

NOTES

These data are reported by state and local law enforcement agencies. Because crash data are from a different source, the number of 'Persons Killed' in motor vehicle crashes will not match the number of deaths from 'Accidents, Motor Vehicle' in the profile's Child and Adult Mortality section.

ABOUT THE DATA: DOCUMENTATION

Public Health Profiles, Wisconsin 2016, presents selected data on population characteristics, births, deaths, morbidity, local health departments, long-term care, and hospitalizations in Wisconsin for calendar year 2014. The data were selected to profile important aspects of public health for the state as a whole, each of the 72 counties, the five Division of Public Health (DPH) regions, the seven perinatal regions, as well as 34 additional sub-county local health departments and municipalities. Local public health professionals and others seeking general information about the health of Wisconsin's population use these data to establish yearly goals, conduct community health assessments, write grant proposals, and develop education and outreach programs.

The Wisconsin Department of Health Services (DHS) provided funds for developing and disseminating this report. This report is produced by the Health Analytics Section.

Most of the statistics included in this report came from data systems maintained in DPH. The DPH Health Analytics section provided mortality, birth, and infant mortality data; 2014 population estimates; cancer incidence for 2013 (latest available); and prepared hospitalization data from the inpatient discharge files, with data collected by the Wisconsin Hospital Association Information Center. The DPH Office of Policy and Practice Alignment compiled Local Health Department Survey data for 2014 collected online via Select Survey. The Bureau of Communicable Diseases provided morbidity data and immunization data. The Bureau of Community Health Promotion, Special Supplemental Nutrition Program for Women, Infants and Children (WIC), provided WIC participant data. The Bureau of Environmental and Occupational Health provided licensed establishment data.

Nursing home data were provided by the Division of Quality Assurance. Community Options Program data and Medicaid Waiver data were provided by the Bureau of Long-Term Support, Division of Long Term Care. Data for eligible and waiting clients were also provided by this bureau. Family Care data were derived from the Wisconsin Managed Care database. All of these entities are in the Department of Health Services.

Employment data were provided by the Bureau of Workforce Information, Division of Workforce Solutions, Wisconsin Department of Workforce Development.

Motor vehicle crash data are maintained by the Wisconsin Department of Transportation (DOT), Division of Motor Vehicles, Traffic Accident Section. Figures were compiled from that source by the Bureau of Transportation Safety in DOT's Division of State Patrol.

Comments, suggestions, and requests for information may be addressed to:

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Formulas for Birth and Death Rates

Births

Crude live birth rate	= 1,000	x	$\frac{\text{Number of resident live births}}{\text{Total resident population}}$
General fertility rate	= 1,000	x	$\frac{\text{Number of resident live births}}{\text{Number of females ages 15-44}}$
Age-specific fertility rate	= 1,000	x	$\frac{\text{Number of resident live births in age category}}{\text{Number of females in age category}}$
Teen fertility rate	= 1,000	x	$\frac{\text{Number of resident live births to females under 20 years of age}}{\text{Number of females under 20 years of age}}$

Deaths

Crude death rate	= 100,000	x	$\frac{\text{Number of resident deaths}}{\text{Total resident population}}$
Crude cause-specific death rate	= 100,000	x	$\frac{\text{Number of resident deaths from cause}}{\text{Total resident population}}$
Fetal death rate	= 1,000	x	$\frac{\text{Number of resident fetal deaths}}{\text{Total resident live births and fetal deaths}}$
Neonatal death rate	= 1,000	x	$\frac{\text{Number of resident neonatal deaths}}{\text{Total resident live births}}$
Postneonatal death rate	= 1,000	x	$\frac{\text{Number of resident postneonatal deaths}}{\text{Total resident live births}}$
Perinatal death rate	= 1,000	x	$\frac{\text{Number of resident fetal and neonatal deaths}}{\text{Total resident live births and fetal deaths}}$
Infant death rate	= 1,000	x	$\frac{\text{Number of resident infant deaths}}{\text{Total resident live births}}$
Race-specific infant death rate	= 1,000	x	$\frac{\text{Number of infant deaths to mothers in race category}}{\text{Number of live births to mothers in race category}}$
Weight-specific infant death rate	= 1,000	x	$\frac{\text{Number of infant deaths in birthweight category}}{\text{Number of live births in birthweight category}}$

Rates

Most rates per population included in the Public Health Profiles were calculated using 2014 population data. A crude rate is the number of events per 1,000 (or 10,000 or 100,000) people. It is called "crude" because its magnitude may be affected by the population's age distribution. In contrast, an age-specific or age-standardized rate considers age distribution, and would be preferred over a crude rate for comparisons between populations with different age distributions.

Rates for some events were not calculated. For most measures, numerators of fewer than 20 events (indicated by ".") were judged to be too small to calculate rates that are meaningful; such rates would be misleadingly unstable over time because small annual fluctuations in the number of events can create large changes in a rate. Calculation of other rates was not done for other reasons (indicated by "--"); for example, the population base for a fertility rate for females under 15 years old cannot be estimated accurately.

Categories of Underlying Cause of Death

Description	ICD-10 CODE
Infectious and Parasitic Diseases	A00-B99
Total Malignant Neoplasms	C00-C97
Trachea, bronchus, lung cancer	C33-C34
Breast cancer	C50
Colorectal cancer	C18-C21
Diabetes	E10-E14
Diseases of the Heart	I00-I09, I11, I13, I20-I51
Ischemic heart disease	I20-I25
Cerebrovascular Disease	I60-I69
Pneumonia and Influenza	J09-J18
Chronic Lower Respiratory Disease	J40-J47
Total Accidents	V01-X59, Y85-Y86
Motor vehicle accidents (crashes)	V02-V04, V09.0-V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2
Intentional self-harm (suicide)	U-03, X60-X84, Y87.0

Drugs Listed as Underlying or Contributory Cause of Death

Alcohol	F10-F10.9, G31.2, G62.1, I42.6, K29.2, K70, R78.0, X45, X65, Y15
Tobacco	F17.9
Other Drugs	F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.8, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, F19.7-F19.9, X40-X44, X60-X64, X85, Y10-Y14

First-Listed Diagnoses Associated With Hospitalizations

Description	ICD-9-CM CODE
Malignant neoplasms	140.0-208.9, 230.0-234.9
Lung cancer	162.0-162.9
Female breast cancer	174.0-174.9
Colorectal cancer	153.0-154.8
Diabetes	250.0-250.9
Alcohol-related	
Alcohol psychoses	291.0-291.9
Alcohol dependence syndrome	303.0-303.03
Alcohol abuse	305.00-305.03
Alcoholic polyneuropathy	357.5
Alcoholic cardiomyopathy	425.5
Alcoholic gastritis	535.3
Chronic liver disease and cirrhosis	571.0-571.3
Excessive blood level of alcohol	790.3
Drug-related	
Drug psychoses	292.0-292.9
Drug dependency	304.00-304.93
Non-dependent abuse of drugs	305.10-305.93
Mental Disorders (excluding those related to alcohol or drugs)	290.0-319
Coronary heart disease	
Ischemic heart disease	410.0-414.9
Unspecified cardiovascular disease	429.2
Cerebrovascular disease	430-438
Pneumonia and influenza	480.0-487.8
Other chronic obstructive pulmonary disease	490-492, 494-496
Asthma	493
Osteoporosis	733.00-733.09
All injuries	800-999
Hip fracture	820.00-820.9
Poisonings	960.0-989.9

Diagnoses Defining Preventable Hospitalizations

(Principal Diagnosis only except where noted)

The list of conditions included in preventable hospitalizations was adapted with some modification from a study done between 1991 and 1994 by the United Hospital Fund of New York (Billings J, Anderson GM and Newman LS. "Recent Findings on Preventable Hospitalizations." Health Affairs, 15(3): 239–249, 1996). The diagnoses were defined by a medical panel of internists and pediatricians, and included conditions where timely and effective ambulatory care can reduce the likelihood of hospitalization by preventing the onset of an illness or condition, controlling an acute episodic illness or condition, or managing a chronic disease or condition. The descriptions and ICD-9-CM diagnostic codes for each preventable hospitalization category are listed below.

Description	ICD-9-CM CODE
Congenital syphilis	090.0-090.9 (includes secondary diagnosis for newborns)
Immunization - preventable conditions	033.0-033.9, 390, 391.0-391.9, 037, 045.00-045.93, (320.0 - age 1-5)
Grand mal status and other epileptic convulsions	345.0-345.9
Convulsions	780.3 (age >5)
Severe ear, nose, and throat infections	382.0-382.9, 462, 463, 465.0-465.9, 472.1 (except with a procedure of 20.01)
Pulmonary tuberculosis	011.00-011.96
Other tuberculosis	012.00-018.96
Chronic obstructive pulmonary disease	491.0-492.8, 494, 496, (466.0 with secondary diagnosis of 491.0-492.8, 494, 496)
Bacterial pneumonia	481, 482.2, 482.3, 482.9, 483, 485, 486 (except when there is a secondary diagnosis of 282.6 or patient is less than two months old)
Asthma	493.00-493.91
Congestive heart failure	428.0-428.9, 402.01, 402.11, 402.91, 518.4 (except with a procedure of 36.01-36.02, 36.05, 36.1, 37.5, 37.7)
Hypertension	401.0, 401.9, 402.00, 402.1, 402.90 (except with a procedure 36.01-36.02, 36.05, 36.1, 37.5, 37.7)
Angina	411.1, 411.8, 413.0-413.9 (except with any procedure 01.01-86.99)
Cellulitis	681.00-683, 686.0-686.9 (except with any procedure 01.01-86.99 unless only listed procedure is 86.0)
Skin grafts with cellulitis	DRG 263 and 264 (except if admitted from an SNF)
Diabetes A	250.10-250.31
Diabetes B	250.80-250.91
Diabetes C	250.00-250.01
Hypoglycemia	251.2
Gastroenteritis	558.9
Kidney/urinary infection	590.0-590.9, 599.0, 599.9
Dehydration – volume depletion	276.5
Iron deficiency anemia	280.1, 280.8, 280.9 (age 0-5 only; either principal or secondary diagnosis)
Nutritional deficiencies	260-262, 268.0, 268.1 (either principal or secondary diagnosis)
Failure to thrive	783.4 (age <1)
Pelvic inflammatory disease	614.0-614.9 (except with a procedure 68.3-68.8)
Dental conditions	521.0-523.9, 525.0-525.9, 528.0-528.9
Cancer of the cervix	180.0-180.9