Health Informatics

Karl Pearson
Research Scientist-Demographer
Office of Health Informatics
Wisconsin Division of Public Health

Division of Public Health
Office of Health Informatics

- **Vital Records**
- **Health Analytics**
- **Informatics Architecture**

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OHI Systems and Projects

- BRFS, FHS, PRAMS surveys
- WCRS - Wisconsin Cancer Reporting System
- NVDRS – National Violent Death Reporting System
- WEDSS - Wisconsin Electronic Disease Surveillance System
- PHIN - Public Health Information Network systems
- EC-LDS – Early Childhood Longitudinal Data System
- SVRIS – State Vital Records Information System
- WHIO – WI Health Information Organization data mart
- IDAP – Integrated Data Analysis Project
- WISH - Wisconsin Interactive Statistics on Health

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Different types of public health data and questions you can ask

- Population-wide, everyone is counted (vital records, census)
  - How many babies were born to teens in 2012? (4,195)
- Population sample surveys (Behavioral Risk Factor, Family Health Survey, Pregnancy Risk Assessment Monitoring System)
  - What percent of adults currently smoke cigarettes? (20%)
- Specialized registries (cancer, violent death, immunization)
  - What is the age-adjusted cancer death rate for 2010? (173.7)
- Program data (WIC, MCH, WEDSS)
  - How many cases of Chlamydia trachomatis did WI have in 2013 (23,778)
- Healthcare provider (Hospital discharge data from inpatient and ER)
  - What percent of asthma hospitalizations were paid for by private insurance? (27%)

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Selected Sources to Get Data

- DHS Health Statistics
  - http://www.dhs.wisconsin.gov/stats/
- County Health Rankings
  - http://www.countyhealthrankings.org/
- Interactive Query Systems: Wonder & WISH
  - http://wonder.cdc.gov/
  - http://www.dhs.wisconsin.gov/wish/
- Analysis, Visualization & Reporting (AVR) – EPHT
  - https://avr.wisconsin.gov
  - http://www.dhs.wisconsin.gov/epht/
- Kids Count Data Center -- Wisconsin
  - http://datacenter.kidscount.org/wi
- USDA Economic Research Service Food Environment Atlas
  - http://www.ers.usda.gov/FoodAtlas/
- USDA ERS State Fact Sheets
  - http://www.ers.usda.gov/StateFacts/

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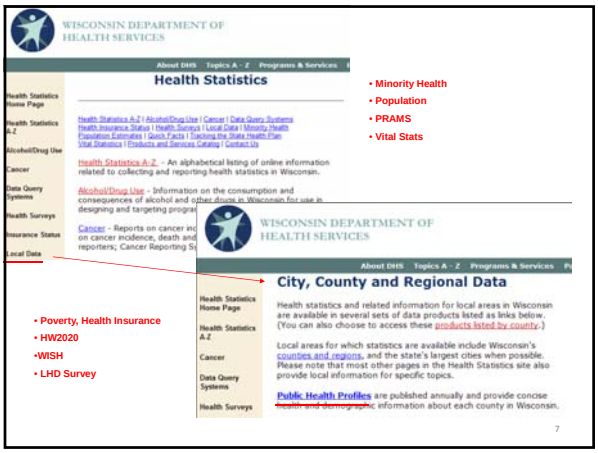
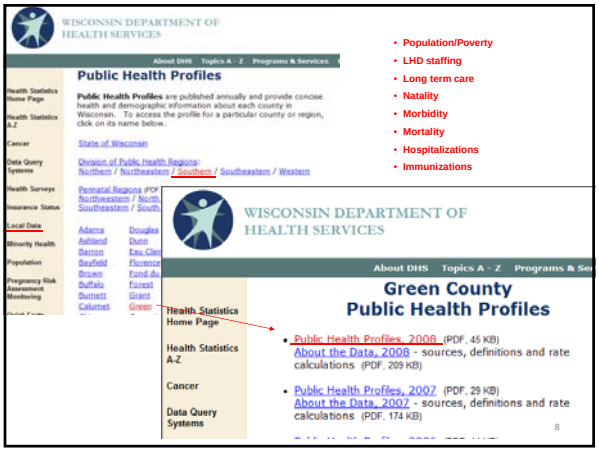
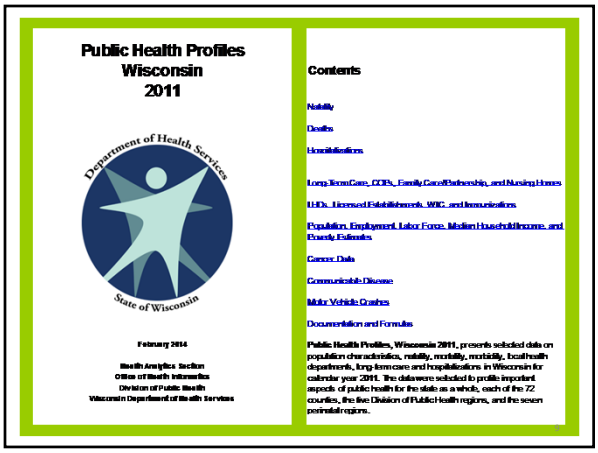
DHS Health Statistics


WISCONSIN DEPARTMENT OF HEALTH SERVICES
Health Statistics
• Minority Health
• Population
• PRAMS
• Vital Stats
City, County and Regional Data
• Poverty, Health Insurance
• HW2020
•WISH
• LHD Survey


WISCONSIN DEPARTMENT OF HEALTH SERVICES
Public Health Profiles
• Population/Poverty
• LHD staffing
• Long term care
• Natality
• Morbidity
• Mortality
• Hospitalizations
• Immunizations
Green County
Public Health Profiles


Public Health Profiles
Wisconsin
2011
Department of Health Services
State of Wisconsin
February 2014
Contents

2011 Profile for Brown County
Natality

	Births	Percent
Total live births	3,284	
Crude Live Birth Rate	13.6	
General Fertility Rate	62.6	
Live Births with reported congenital anomalies *	15	0.4%

Delivery Type		
Vaginal after previous cesarean	57	2%
Forceps	21	1%
Other vaginal	2,309	68%
Primary cesarean	492	14%
Repeat cesarean	310	9%

Birth Weight		
< 1,500 gm	45	1.3%
1,500-2,499 gm	200	5.9%
2,500+ gm	3,148	92.8%
Unknown	1	< .5%

First Prenatal Visit		
1st trimester	2,716	80%
2nd trimester	545	16%
3rd trimester	66	2%
No visits	21	1%
Unknown	46	1%

Mother's Information	**Births**	**Percent**
Marital Status		
Married	2,129	63%
Not	1,262	37%
Unknown	3	< .5%
Education of mother		
Elementary or less	135	4%
Some highschool	413	12%
Highschool	842	25%
Some college	985	29%
College graduate	1,019	30%
Unknown	0	0%
Smoking status 3 months prior to pregnancy		
Smoker	565	17%
Nonsmoker	2,829	83%
Unknown	0	0%
Birth Order		
First	1,275	38%
Second	1,110	33%
Third	576	17%
Fourth or higher	432	13%
Unknown	1	< .5%
Prenatal Visits		
No visits	18	1%
1-4	56	2%
5-9	507	15%
10-12	1,582	47%
13+	1,203	35%
Unknown	38	1%

	All Births		Low Birthweight (under 2,500 gm)		Trimester of First Prenatal Visit: 1st Trimester		2nd Trimester		Other/Unknown	
Race/Ethnicity	**Births**	**Percent**	**Births**	**Percent**	**Births**	**Percent**	**Births**	**Percent**	**Births**	**Percent**
White	2,332	70%	163	6.8%	2,087	88%	240	10%	55	2%
Black/Afr. American	182	5%	23	12.6%	105	58%	54	30%	23	13%
American Indian	153	5%	13	8.5%	102	67%	42	27%	9	6%
Hispanic/Latino	418	12%	31	7.4%	254	61%	59	14%	6	1%
Asian	199	6%	12	6.0%	127	64%	6	3%	1	1%
Other/Unknown	60	2%	3	5.0%	41	68%	144	240%	39	65%

	All Births		Low Birthweight (under 2,500 gm)		Trimester of First Prenatal Visit: 1st Trimester		2nd Trimester		Other/Unknown	
Age of Mother	**Births**	**Percent**	**Births**	**Percent**	**Births**	**Percent**	**Births**	**Percent**	**Births**	**Percent**
< 15	4	-	*	%	*	%	*	%	*	%
15-17	58	11%	3	5.2%	32	55%	18	31%	8	14%
18-19	175	49%	13	7.4%	111	63%	51	29%	13	7%
20-24	727	84%	66	9.1%	543	75%	150	21%	34	5%
25-29	1,136	137%	73	6.4%	943	83%	152	13%	41	4%
30-34	908	109%	57	6.3%	781	86%	106	12%	21	2%
35-39	323	42%	27	8.4%	256	79%	55	17%	12	4%
40+	63	7%	6	9.5%	48	76%	12	19%	3	5%
Unknown	0	-		%		%		%		%
Teenage Births	237	27%								

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About DHS Topics A - Z Programs & Services Partners & Providers Reference Center

Wisconsin Population Estimates

The Department of Health Services, Office of Health Informatics, produces mid-year population estimates for the count Wisconsin by age and sex categories for non-Census years. Estimates are used to calculate population-based health st **age and sex categories may not sum to totals shown due to rounding.)**

Population data for Wisconsin are also available through a data query system.

Keep Me Posted
Notify me when an update is released.

Please Note:

2012 population estimates for the state, DHS regions, and counties of Wisconsin were posted on August 29, 2013 (see links below). Estimates for 1989-2012 are also available as a single spreadsheet, with a separate tab for each year. (Excel, 517 KB).

Wisconsin	2012 2011 2010 2009 2008 2000
Adams	2012 201
Ashland	2012 201
Barron	2012 201
Bayfield	2012 201

Adams County: July 1, 2012 Population

Age Group	Males	Females	Total	Percent Change from 2010
0-14	1,097	1,119	2,216	-20%
15-19	443	424	867	-18%
20-24	511	396	907	8%
25-29	611	377	988	0%
30-34	651	388	1,039	-2%
35-39	626	424	1,050	-9%
40-44	729	529	1,258	3%
45-54	1,914	1,656	3,570	6%
55-64	2,327	1,979	4,306	23%
65-74	1,556	1,468	2,964	-1%
75-84	589	639	1,228	-17%
85+	145	232	377	-13%
Total	11,199	9,571	20,770	-1%

Age Group	Males	Females	Total	Percent Change from 2010
0-17	1,350	1,364	2,714	-21%
18-44	3,318	2,293	5,611	-1%
45-64	4,241	3,635	7,876	1.4%
65+	2,290	2,279	4,569	-7%
Total	11,199	9,571	20,770	-3%

Source: Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services

Adams County
July 1, 2012 Population

The Department of Health Services, Office of Health Informatics, produces mid-year population estimates for Wisconsin by age and sex categories for non-Census years. Estimates are used to calculate population-based

Download Table (Excel, 10 KB)

Print Table (PDF, 13 KB)

PDF: The free Adobe Reader® software is needed to view and print portable document format (PDF) files. Learn more

Last Revised: August 29, 2013

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Chronic Disease Burden Reports

Asthma

Asthma ranks as an important public health issue in Wisconsin, and is routinely identified as a high priority in state and federal public health plans. Statewide asthma surveillance data demonstrate that such attention is warranted, and these data have helped identify populations where the burden of asthma in the state is particularly high. DHS comprehensively addresses the burden of asthma through surveillance, partnerships and interventions. Forming strong collaborations and partnerships with key asthma stakeholders around the state has been one of the program's greatest strengths over the past 15 years.

Recent Documents

New Living with Asthma: Families Speak (Adobe Connect app)
The Wisconsin Department of Health Services, American Lung Association in Wisconsin and Wisconsin Asthma Coalition have developed this informational asthma video geared toward parents of children with asthma. The video features four families telling their asthma story along with professional commentary on the facts surrounding this chronic condition. The video

WISCONSIN DEPARTMENT OF HEALTH SERVICES

Wisconsin Diabetes Prevention and Control Program

Diabetes is a costly, complex, and devastating chronic illness that poses a major public health problem. Diabetes affects over 475,000 adults and 4,300 children and adolescents in Wisconsin. It is the seventh leading cause of death in Wisconsin, costing an estimated annual $6.15 billion in health care costs and lost productivity. Each year, more than 1,100 Wisconsin residents die from diabetes and many more suffer disabling complications, such as heart disease, kidney disease, blindness, and amputations. This burden is higher among minority populations. Much of the health and economic burden of diabetes can be averted through known prevention measures.

The Wisconsin Diabetes Prevention and Control Program (DPCP) is dedicated to improving the health of people at risk for or with diabetes. We rely on our strong partnerships in the development, distribution, and implementation of resources. Please use the links to the left as well as those below to access these resources.

Popular Links

Wisconsin Diabetes Surveillance Report 2012 (PDF, 4.5 MB)
2011 Burden of Diabetes in Wisconsin (PDF, 2.2 MB)
Wisconsin Diabetes Mellitus Essential Care Guidelines 2012
Students with Diabetes: A Resource Guide for Wisconsin Schools and Families
Diabetes Self-Care Information and Record Booklet English, 12 pages (PDF, 1.2 MB)
Personal Diabetes Care Record English, 2 pages (PDF, 197 Kb)
Blood Sugar Log Booklet English, 10 pages (PDF, 1.2 MB)
PDF: The free Adobe Reader® software is needed to view and print portable document format (PDF) files. Learn more

Last Revised: March 26, 2014

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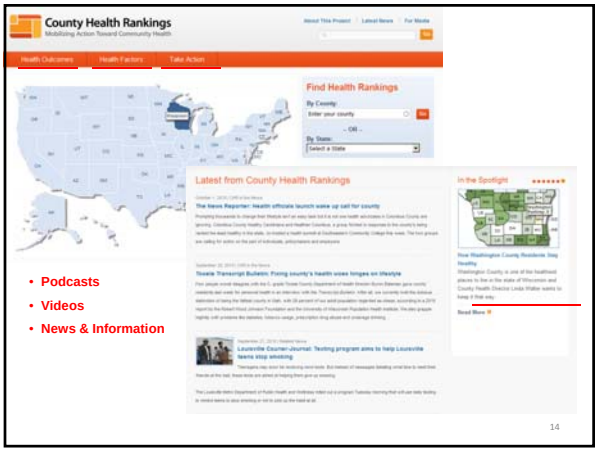
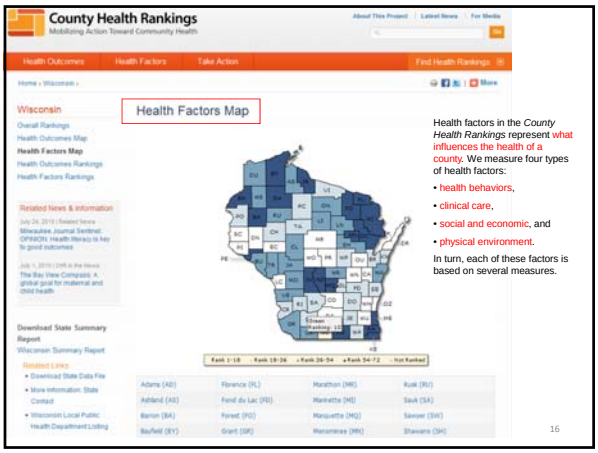
County Health Rankings



Health outcomes in the *County Health Rankings* represent how healthy a county is. We measure two types of health outcomes: how long people live (mortality) and how healthy people feel while alive (morbidity).



Health Factors Map

Health factors in the *County Health Rankings* represent what influences the health of a county. We measure four types of health factors:

- health behaviors,
- clinical care,
- social and economic, and
- physical environment.

In turn, each of these factors is based on several measures.

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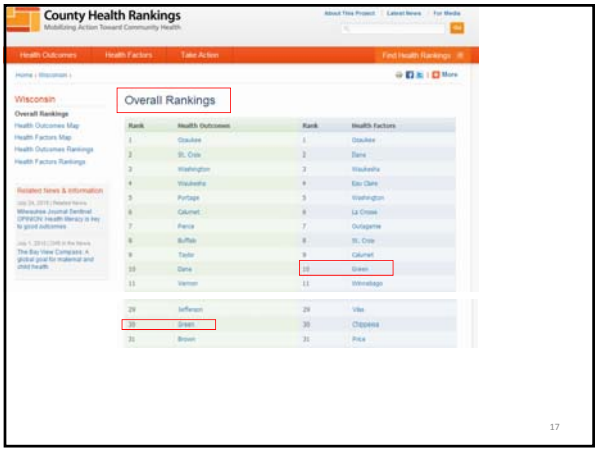

Overall Rankings

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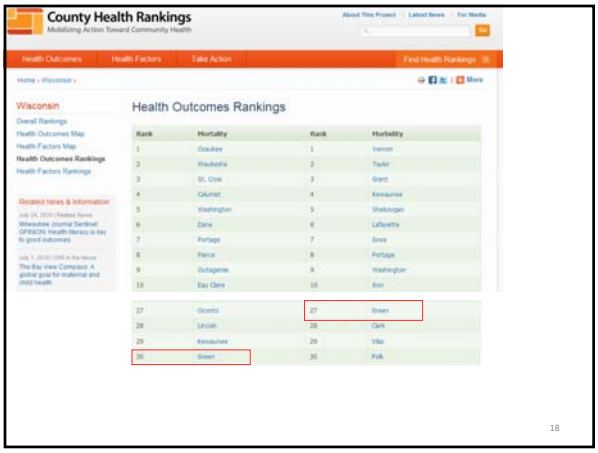

Health Outcomes Rankings

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County Health Rankings
Mobilizing Action Toward Community Health

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Wisconsin

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- Health Outcomes Map
- Health Factors Map
- Health Outcomes Rankings
- Health Factors Rankings

Related News & Information

Health Factors Rankings

Rank	Health Behaviors	Rank	Clinical Care	Rank	Social & Economic Factors	Rank	Physical Environment
1	Ozaukee	1	La Crosse	1	Ozaukee	1	Eau Claire
2	Dane	2	Ozaukee	2	Waukesha	2	Burnett
3	Iron	3	Wood	3	St. Croix	3	La Crosse
4	Waukesha	4	Waukesha	4	Dane	4	Price
5	Green	5	Dane	5	Pierce	5	Chippewa
17	Bayfield	17	Langlade	17	Sheboygan	17	Green
21	La Crosse	21	Sauk	21	Green	21	Jackson
22	Columbia	22	Crawford	22	Wood	22	Marinette
23	Calumet	23	Green	23	Winnebago	23	Vernon

Health Behaviors: Alcohol Use; Tobacco Use; Diet and Exercise; Unsafe Sex

Clinical Care: Access to Care; Quality of Care

Social and Economic Factors: Education; Employment; Income; Family and Social Support; Community Safety

Physical Environment: Environmental Quality; Built Environment

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County Health Rankings
Mobilizing Action Toward Community Health

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Resources For

- Community Leaders
- Employers and Businesses
- Government Officials
- Health Care Professionals and Advocates
- Public Health Professionals and Advocates

Resources To

- Work Together
- Assess Needs and Resources
- Pick Priorities
- Find Programs and Policies that Work
- Implement Strategies
- Evaluate Efforts

Stay Updated

Your email address | Go

Take Action

Working together to improve your community's health involves a cycle of activities: assessing needs and resources, picking priorities, finding programs and policies that work, implementing strategies, and evaluating efforts. Depending on the progress your community has already made, you can enter this cycle at any point. In addition, depending on the role you play, additional resources are available to help you take action.

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Having trouble viewing this email? Click here

County Health Rankings
Mobilizing Action Toward Community Health

Healthy Community Design Webinar

Every time we step out our doors, our health is affected by the physical design of our community. Healthy community design can help improve the quality of life in every community -- giving everyone a variety of healthy, available, accessible, and affordable options to live, learn, work and play.

On October 4, 2011 from 2:00 - 3:00 pm CDT, Arthur Wendel, M.D., Team Lead for the Centers for Disease Control and Prevention's Healthy Community Design Initiative, and Leslie Meehan AICP, Transportation Planner with the Nashville Area Metropolitan Planning Organization, will discuss:

- How healthy community design integrates evidence-based health strategies into community planning, transportation, and land-use decisions.
- How planning and designing communities with health in mind can lead to improved community health, wellness, and quality of life.
- Strategies and tools for ensuring that healthy community design decisions are being considered in your community.
- How the Nashville Area Metropolitan Planning Organization integrated public health into their 25 year plan for transportation infrastructure in the greater Nashville region.

HEALTHY COMMUNITY DESIGN

NASHVILLE AREA Metropolitan Planning Organization

Please join us on October 4, 2011 to learn the basics of healthy community design and hear about specific healthy community design elements that could be implemented in your area.
Click here to register for this webinar.

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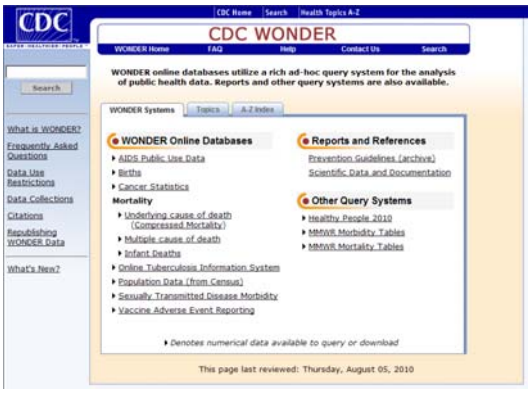
Wide-ranging Online Data for Epidemiologic Research

CDC Wonder

DHS WISH

Wisconsin Interactive Statistics on Health



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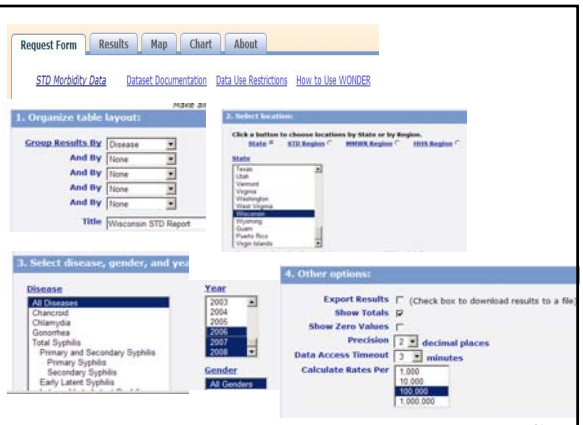

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Request Form | Results | Map | Chart | About

STD Mortality Data | Dataset Documentation | Help for Results | Printing Tips | Help with Exports

Export | Reset

1 | 2 | 3 | 4 | More Options

Top | Notes | Citation | Query Criteria

Disease	Count	Population	Rate Per 100,000
Chancroid	2	16,759,786	0.01
Chlamydia	60,741	16,759,786	362.42
Gonorrhea	19,766	16,759,786	117.94
Total Syphilis	527	16,759,786	3.14
Primary and Secondary Syphilis	199	16,759,786	1.19
Primary Syphilis	51	16,759,786	0.30
Secondary Syphilis	148	16,759,786	0.88
Early Latent Syphilis	229	16,759,786	1.37
Late and Late Latent Syphilis	97	16,759,786	0.58
Congenital Syphilis	2	217,020	0.92

Top | Options | Notes | Citation | Query Criteria

Notes:

Caveats: The phrase 'Not Reported' is shown when the specific disease was not reported for the given location and year. The phrase 'Not Applicable' is shown when the denominator population is not on record, or when the rate cannot be calculated due to lack of disease incidence count or lack of denominator population.

The denominator population for Congenital Syphilis is the total number of live births in the given year(s). More information.

Query Criteria:

Title:	Wisconsin STD Report
Disease:	All
Gender:	All
HHS Region:	Wisconsin
NMWR Region:	Wisconsin
State:	Wisconsin [SS]
STD Region:	Wisconsin
Year:	2006, 2007, 2008
Group By:	Disease
Show Totals:	Disabled
Show Zero Values:	False
Calculate Rates Per:	100,000

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WISCONSIN DEPARTMENT OF HEALTH SERVICES

About DHS | Topics A - Z | Programs & Services

- Health Statistics Home Page
- Health Statistics A-Z
- Alcohol/Drug Use
- Cancer
- Data Query Systems
- Health Surveys
- Insurance Status
- Local Data
- Minority Health
- Population
- Pregnancy Risk Assessment Monitoring
- Quick Facts

Wisconsin Interactive Statistics on Health (WISH)

This site gives you information about health indicators (measures of health) in Wisconsin. WISH allows policy makers, health professionals, and the public to submit questions (requests for data) and receive answers (tables) over the Internet. To construct answers to your questions, WISH uses protected databases containing Wisconsin data on births, deaths, population estimates, injuries, behavioral risk factors, and violent death. Most modules contain data for multiple years and geographic areas.

To access WISH, select a topic from the following choices, then click on "Begin Query" for further directions.

Please select topic:

Birth Counts	Mortality
Low Birthweight	Injury Mortality
Teen Births	Injury Hospitalizations
Prenatal Care	Injury Emergency Department Visits
Fertility	Behavioral Risk Factor Survey
Infant Mortality	Violent Death
Population	

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Step 1. All births to Wisconsin residents

If you submit your request at this point, you will see birth counts for Wisconsin statewide and for the five Department of Health Services regions for the latest available year of data (2008).

Submit

- Wisconsin statewide
- Region: All; Southern, Southeastern, Northeastern, Western, Northern
- County: All; ADAMS, ASHLAND, BARRON, BAYFIELD, BROWN
- City: All; Appleton, Beloit, Brookfield, Caledonia (V), De Pere, Eau Claire, Fitchburg, Fond du Lac, Franklin

Step 2. Choose One or More Geographic Areas

You can ask for data for the entire state of Wisconsin or for smaller geographic areas. All locations refer to residence of mother.

- City of Milwaukee Zip Codes: All; 53202, 53204, 53206, 53208, 53209
- Local Health Departments: Fond du Lac Health Department; Forest County Health Department; Franklin Health Department; Grant County Health Department; Green County Health Department; Greendale Health Department; Greenfield Health Department; Green Lake County Dept. Health and Human Services; Halas Comaro Health Department; Iowa County Health Department

Step 3. Choose One or More Years

You can see data for the latest available year (2008). Or you can choose to see one or more single years, or one or more groups of years. If you are requesting data for an area or group with few annual births, it may be useful to combine years of data. WISH suppresses small numbers (cell size less than 5) to comply with Wisconsin vital records data privacy guidelines.

Step 4. Choose Specific Characteristics (Optional)

This limits your analysis to a specific subpopulation. (Example: Births to mothers 18-19 years of age, non-Hispanic white, who used tobacco during pregnancy.) Choose one or more characteristics to focus your analysis.

Maternal Characteristics:

- Age: All (default); Under 15 years; 15-17 years; 18-19 years
- Education: All; None; Elementary; Some High School
- Marital Status: All; Married; Not Married; Missing
- Race/Ethnicity: All; White (Non-Hispanic); Black (Non-Hispanic); American Indian (Non-Hisp); Hispanic; Laotian / Hmong (Non-Hisp); Other (Non-Hispanic)
- Weight Gain During Pregnancy: All; Less than 16 lb; 16 - 25 lb; 26 - 35 lb
- Tobacco Use During Pregnancy: All; No; Yes

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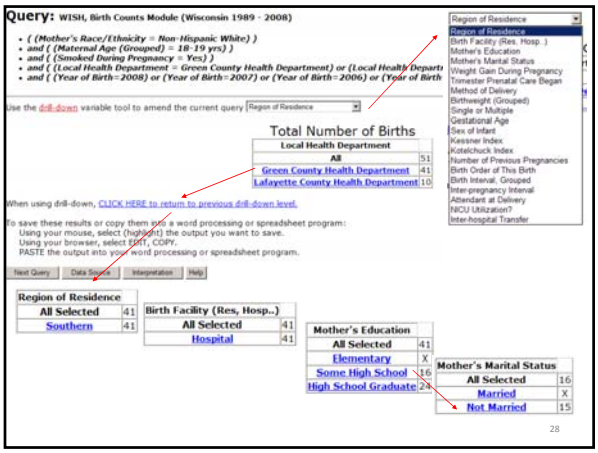

Public Health Information Network (PHIN)

The OHI Informatics Architecture Section provides services to the remainder of the Department of Health Services, which include:

- Health data/systems requirements gathering;
- Health data/systems architecture consulting;
- Facilitation of health data system evaluation, hosting, development, maintenance and support to help ensure that health data systems meet business requirements; and,
- Support of several specific health data systems within the WI Public Health Information Network (PHIN), such as WEDSS, SPHERE, WE-TRAC, WBDR, DPH Customer Hub, Vital Records Reporting Database; and,
- Analytics support through Analysis, Visualization and Reporting (AVR) toolsets, including WISH.

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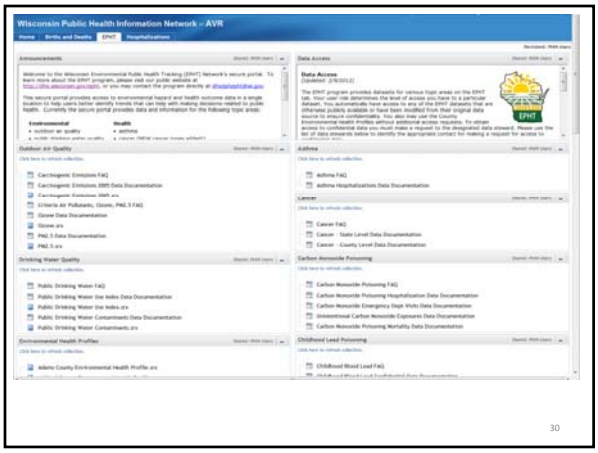

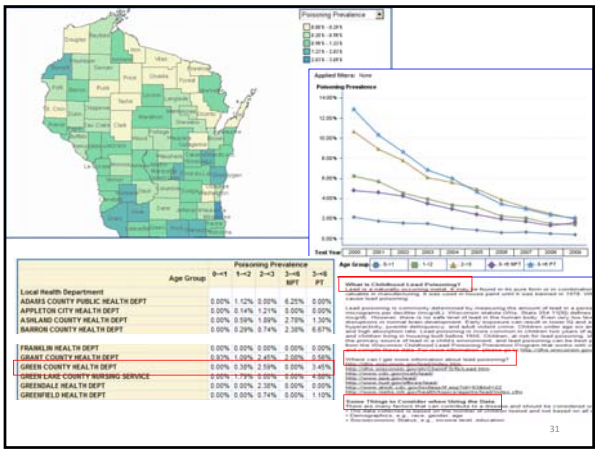

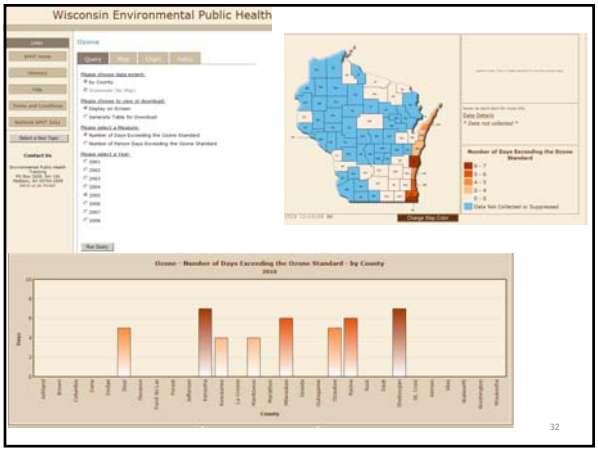

Federal Data Sources & Tools

Census Annual Data

Factfinder – Interactive + Data Downloads

Contact Information at OHI

- Karl Pearson
  Research Scientist-Demographer
  karlt.pearson@wi.gov
- Keep me posted email sign up
  http://www.dhs.wisconsin.gov/healthcareinfo/forms/docs.asp
- List of contacts:
  http://www.dhs.wisconsin.gov/stats/contact.htm
- Email: dhshealthstats@wisconsin.gov

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