

Wisconsin
Public Health Information Network
Analysis, Visualization, and Reporting
(PHIN AVR)

Status Update

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What is Wisconsin PHIN?

The Wisconsin Public Health Information Network is a secure, online network from the Wisconsin Department of Health and Family Services for integrating the information resources of the public health system and all public health partners.

Wisconsin PHIN...

- Expands the vision of the Centers for Disease Control and Prevention (CDC) national PHIN.
- Allows public health practitioners to securely contribute, retrieve, analyze and visualize public health data.
- Supports the entire spectrum of public health through:
 - Disease detection and monitoring
 - Data analysis
 - Secure network communications
 - Emergency alert and response
 - Knowledge management



What is PHIN AVR?

- The analysis, visualization, and reporting (AVR) component of the Wisconsin PHIN.
- A “toolkit” allowing public health professionals to securely examine and analyze public health data.
- A mechanism to electronically generate reports - including tables, graphs, and maps – and make them available to public health professionals.

What are the PHIN AVR Tools?

- SAS Enterprise Business Intelligence Server (SAS EBIS).
- ESRI ArcGIS Server (AGS), ArcSDE, ArcInfo, Spatial Analyst.
- CDC's Early Aberration Reporting System (EARS).

Who Can Use PHIN AVR?

- Members of the “Public Health Community” (not the public).
- Registered PHIN/Health Alert Network (HAN) users.
- Granted access to data by Data Stewards.
- May require a Data Confidentiality / Use Agreement.
- Granted access to PHIN AVR.

What's the Current Status?

- In Development / Test:
 - 9 Projects
 - 13 Data Sets
 - 45 User Accounts
- In Production:
 - CDC Mortality (now)
 - Wisconsin Interactive Statistics on Health (WISH) – 5/1
 - Wisconsin Poison Control Center/ToxiTrack – 5/1
 - SPHERE Aggregate Birth Report* – 5/8

* *Example*

Example - SPHERE Report

- A local public health department staff person.
- Who has been granted access to the Secure Public Health Electronic Environment (SPHERE) System.
- And, has the “Birth Record Review Staff” Role.
- Even then, can only access Aggregate Birth Report for their jurisdiction.

From SPHERE



Unregistered Page [\[Register\]](#) Birth Data Delivery Reports [\[Edit\]](#)

SPHERE Home

Activities

Reports

Birth Records

Birth Reports

Administration

Development

Log Out

Birth Data Delivery Reports

1. [Birth Report Variables by Name Listing](#) - Confidential Birth Record Report by Selected Variables and Name Listing

2. [Aggregate Birth Report](#) - Confidential preliminary report about births by selected indicators for the Local Health Department (LHD). When you click on the link, a new window will pop up. Log in using the same username you use for SPHERE, except add @phin at the end, e.g., jdoe@phin, and the same password. Then click on the SPHERE tab. Click "SPHERE Aggregate Birth Report Documentation" to read the documentation and click "SPHERE Aggregate Birth Report.srx" to run the report.

PHIN AVR Login

SAS Information Delivery Portal - Microsoft Internet Explorer provided by DHF5 - State of Wisconsin

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites RSS Mail Print W Links

Address <https://avr.phin.wisc.edu/Portal/displayLogon.do> Go Links >>

Wisconsin Public Health Information Network [Help](#)

■ ■ ■ ■ ■ User name:

Password:

PHIN AVR Portal Home

Options ▾ | Search | Log Off eaganmk@phin | Help ▾

Wisconsin Public Health Information Network 

Home SPHERE

Sticky: PHIN User

Mortality *Shared: PHIN Users* 

[Click here to refresh collection.](#)

-  [Mortality Demo Data Documentation](#)
Please read this before use.
-  [Mortality Cube](#)
Mortality Data in OLAP Cube Form
-  [Mortality Map](#)
Map of mortality count or rate by state of residence
-  [Wisconsin Mortality Report 1.srx](#)
Age-specific Rate for Deaths Due to Flu and Pneumonia for Wisconsin Residents
-  [US Mortality Report 1.srx](#)
US Mortality Count by Month

SPHERE Tab

The screenshot shows a web browser window with a blue header. The header contains the text "Wisconsin Public Health Information Network" on the left and the "sas" logo on the right. In the top right corner of the header, there are links for "Options", "Search", "Log Off eaganmk@phin", and "Help". Below the header is a navigation bar with "Home" and "SPHERE" tabs. The "SPHERE" tab is active. To the right of the navigation bar, it says "Sticky: SPHERE Birth". Below this is a "Reports" section with a "Shared: SPHERE Birth" label and an upward arrow. The "Reports" section contains a link to "Click here to refresh collection." and two items: "SPHERE Aggregate Birth Report Training Manual" with a document icon and the text "Please read this before use.", and "SPHERE Aggregate Birth Report.srx" with a document icon.

The Training Manual

SPHERE Aggregate Birth Report Training Document (Last revised: 4/19/2007)

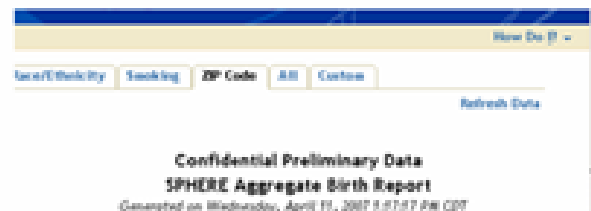
I. Overview

The SPHERE Aggregate Birth Report is a confidential preliminary report about births by selected indicators for the Local Health Department (LHD). Only the data from the year 2006 is available. The report uses the *preliminary* birth record data sent nightly to SPHERE from the Wisconsin Vital Records Office. Vital Records requires Hospitals to submit a birth record within seven days of the birth.


II. Confidential Agreement

The Local Health Officer is required to sign an *Agreement for Use of Birth Record Data with the State Vital Records Office*. In addition, staff must sign the *Authorization and Agreement to Access Birth Record Data for Local Health Department Staff*. This authorization is submitted by the LHD Health Officer and maintained at the Vital Records office. In order to view and print the report, LHD staff must sign the SPHERE User Security and Confidentiality Agreement. The SPHERE Local Organization Administrator (LOA) must assign staff to SPHERE rights and the role of *Birth Record Review Staff*.

If you have signed a Vital Records Authorization and Agreement and a SPHERE User Security and Confidentiality Agreement for access to data for multiple agencies, there is a navigation box where you can choose the agency to view.



The Report

SAS Web Report Viewer **SPHERE Aggregate Birth Report** 


[Report](#) ▾ [How Do I?](#) ▾

Please answer the prompts below and click the View Report button to continue.

* **Select birth date range** ▾
Birth Year-month Minimum:

* **Select birth date range** ▾
Birth Year-month Maximum:

Set Date Range

SAS Web Report Viewer SPHERE Aggregate Birth Report 

[Report](#) [How Do I?](#)

Please answer the prompts below and click the View Report button to continue.

* **Select birth date range**
Birth Year-month Minimum:

* **Select birth date range**
Birth Year-month Maximum:

(Dropdown menu for Maximum date range is open, showing options from 2006-06 to 2007-04, with 2006-12 selected)

Reminder

SAS Web Report Viewer • SPHERE Aggregate Birth Report

Report ▾ How Do I? ▾

Age Birthweight Low Birthweight Prematurity Race/Ethnicity Smoking ZIP Code All Custom

Refresh Data

Confidential Preliminary Data
SPHERE Aggregate Birth Report
Generated on Wednesday, April 11, 2007 1:17:17 PM CDT

Please Note: These confidential preliminary data are not to be released outside of the Local Health Department. The data are for internal use only. If data are misused or released, any staff involved will lose his/her role (and the rights inherent with that role) as Birth Record Review Staff in SPHERE. For a full description of the data use policy, see the “Standards of Practice” document that accompanied the “Authorization and Agreement to Access Birth Record Data for Local Health Department Staff”.

Age Tab Results

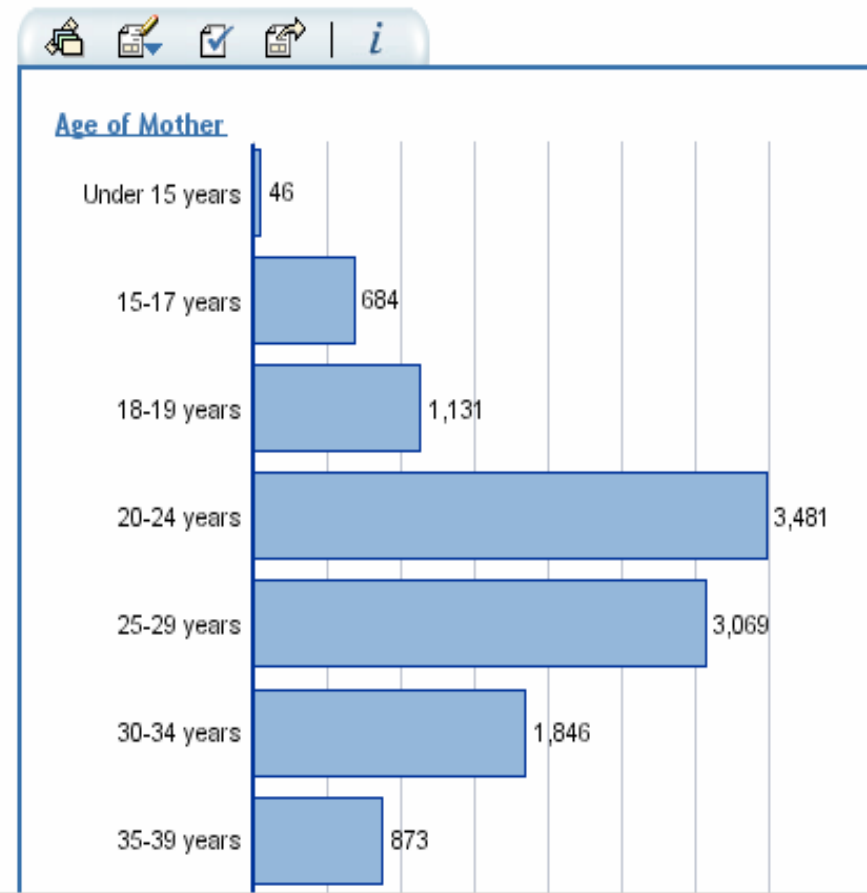
Age of Mother

Applied filters: Birth Year-month between 2006-01 and 2006-12

	Birth Count	Percent
Age of Mother		
Under 15 years	46	0.41%
15-17 years	684	6.04%
18-19 years	1,131	9.99%
20-24 years	3,481	30.75%
25-29 years	3,069	27.11%
30-34 years	1,846	16.31%
35-39 years	873	7.71%
40-44 years	184	1.63%
45+ years	4	0.04%
Missing/Unknown	2	0.02%
Total	11,320	100.00%

Age of Mother

Applied filters: Birth Year-month between 2006-01 and 2006-12



Other Tabs

Births by Birthweight

Applied filters: Birth Year-month between 2006-01 and 2006-12

Birthweight ▲	Birth Count	Percent
< 1,000 grams	146	1.29%
1,000 – 1,499 grams	118	1.04%
1,500 – 2,499 grams	872	7.70%
2,500 – 3,999 grams	9,314	82.28%
4,000+ grams	869	7.68%
Missing/Unknown	1	0.01%
Total	11,320	100.00%

Low Birthweight

Applied filters: Birth Year-month between 2006-01 and 2006-12

	Birth Count	Percent
Low Birthweight		
< 2,500 grams	1,136	10.04%
2,500+ grams	10,183	89.96%
Missing/Unknown	1	0.01%
Total	11,320	100.00%

Prematurity

Applied filters: Birth Year-month between 2006-01 and 2006-12

Prematurity ▲	Birth Count	Percent
Full Term (37+ weeks)	2,647	90.78%
Premature (<37 weeks)	268	9.19%
Missing/Unknown	1	0.03%
Total	2,916	100.00%

Smoked during pregnancy

Applied filters: Birth Year-month between 2006-01 and 2006-12

Mother Smoked During Pregnancy ▲	Birth Count	Percent
No	391	76.22%
Yes	121	23.59%
Missing/Unknown	1	0.19%
Total	513	100.00%

Custom Tab

Births by Age of Mother and Prematurity

Applied filters: Birth Year-month between 2006-01 and 2006-12

<u>Prematurity</u>	Full Term (37+ weeks)		Premature (<37 weeks)		Missing/Unknown	
	<u>Birth Count</u>	<u>Percent</u>	<u>Birth Count</u>	<u>Percent</u>	<u>Birth Count</u>	<u>Percent</u>
<u>Age of Mother</u>						
Under 15 years	42	0.42%	4	0.32%	.	.
15-17 years	598	5.94%	86	6.89%	.	.
18-19 years	1,016	10.09%	112	8.97%	3	75.00%
20-24 years	3,127	31.06%	353	28.26%	1	25.00%
25-29 years	2,755	27.37%	314	25.14%	.	.
30-34 years	1,622	16.11%	224	17.93%	.	.
35-39 years	745	7.40%	128	10.25%	.	.
40-44 years	156	1.55%	28	2.24%	.	.
45+ years	4	0.04%
Missing/Unknown	2	0.02%
Total	10,067	100.00%	1,249	100.00%	4	100.00%

SPHERE Aggregate Birth Report Training Reminder

- Announcement sent to all Local Health Officers, SPHERE Local Org Administrators (LOA's), and Regional Office Directors.
- Training scheduled for May 8th and May 10th.
- Training will show how to navigate the system and access all the functionality.
- Training will be available from archive to view later.

Thanks to...

Susan Kratz - SPHERE State Administrator

WI Division of Public Health - Northeastern Regional Office

Linda Spaans Esten, R.D., M.S.

WI Division of Public Health - Bureau of Community Health
Promotion

Yvonne S. Eide, RN, MS - Public Health Nurse Consultant

– WI Division of Public Health - Southern Regional Office

Local Public Health staff for input & feedback

PHIN Staff at UW-DoIT

If you have additional questions...

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