



IBIS-PH

Utah's Indicator-Based Information
System for Public Health

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IBIS-PH: Overview & Potential PHIN Applications

Lois M. Haggard, Ph.D.

PHIN Stakeholders' Meeting

Atlanta, GA

May 26, 2004



IBIS Vision

- ❖ All Utahns will have quick and easy access to up-to-date health data,
 - ❖ for all priority health issues,
 - ❖ presented in its public health context,
 - ❖ for all populations of interest
 - ❖ with national benchmarks,
 - ❖ at the smallest geography available,
 - ❖ in a format that is understandable and easy to print or download.



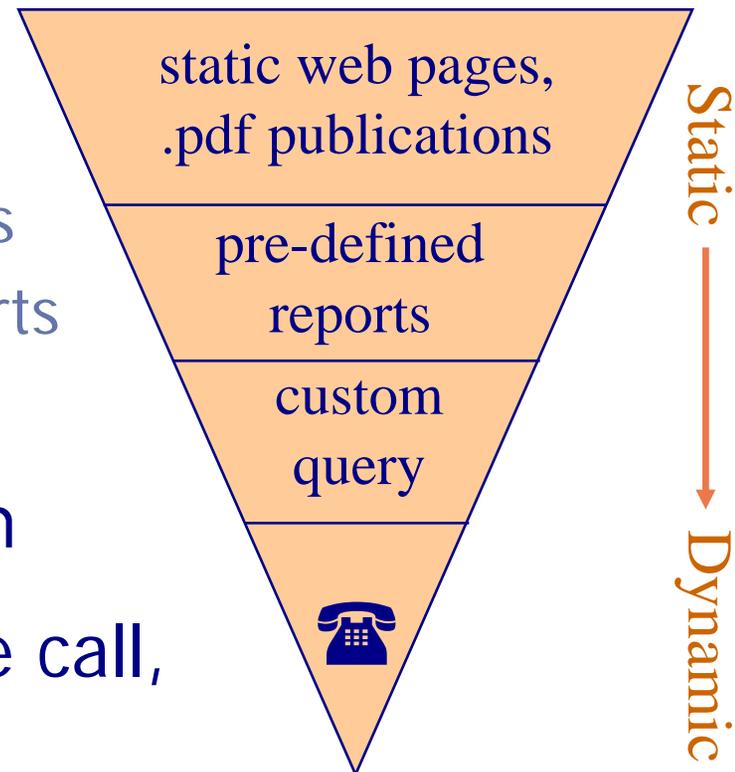
IBIS Requirements

- ❖ Flexible, powerful data analysis & display
- ❖ Supports both novice and experienced users
- ❖ Inexpensive for states to adopt
 - ❖ Platform independent, open standards
 - ❖ Minimal COTS software expense
- ❖ Easy to install, maintain, upgrade
 - ❖ Loosely-coupled components
 - ❖ Well documented
 - ❖ Minimize need for “real” programmers



IBIS Components

- Most frequently-asked questions:
 - Static web pages, .pdf files
 - Pre-defined indicator reports
- Less frequently-asked questions: Query System
- Unique questions: Phone call, data analysis with SAS



http://ibis.health.utah.gov

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- Health Status in Utah
- Utah Department of Health
- Local Public Health Systems
- Community Health Centers



IBIS-PH provides information on the health status of Utahns, the state of the health care system, and Utah public health activities. You can access published reports, dynamic indicator profiles, and even query health data directly. For more detailed information about the data that is available on this site, go to the "contents and usage" page.

This page takes you to various sections within each section. The menu on the left provides choices within each section.

- High-quality Graphics**
 The graphs on the indicator pages now use state-of-the-art, scalable vector graphics. You can pass your cursor over these new charts to get information. To use this feature you'll need to install an SVG viewer plugin on your computer. For instructions on how to download and install the free [Adobe SVG Viewer](#) [click here](#). We have created a pdf file of step-by-step instructions for getting [SVG indicator graphics into Powerpoint](#).
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Coming Soon

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- New IBIS-Q Navigation**
 The IBIS-PH query system is currently being integrated into the new IBIS look and feel.
- Indicator Maps**
 Watch for health indicator maps in the near future.
- Community Profiles**
 These will allow you to see results for your community for several indicators at once.

Center for Health Data, Utah Department of Health, Salt Lake City, UT 84114-2101, Phone: 801-538-9191



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Utah Department of Health Mission

The mission of the Utah Department of Health is to protect the public's health through:

- preventing avoidable disease, injury, disability and premature death;
- assuring access to affordable, quality health care;
- promoting healthy lifestyles; and
- documenting and monitoring health events.

We do this by working in partnership with public and private organizations and individuals within the community to:

- collect, analyze and disseminate health data;
- identify and prioritize health problems;
- implement programs and interventions which are designed to:
 - Investigate episodes of disease
 - Control the factors that allow preventable diseases to occur within our communities
 - Educate and inform the public about improving their health and making good health care decisions
 - Pay for or provide essential health care services
 - Improve the quality of health care services by inspecting and monitoring facilities including hospitals, nursing homes, home health care agencies, and laboratories; and
- evaluate the implementation, effectiveness, and cost-benefit of health interventions to improve programs and services.

Utah Department of Health Mission Statement Indexed to UDOH Areas of Program Focus

The mission of the Department of Health is to protect the public's health through:

- preventing avoidable disease, injury, disability, or premature death caused by:
 - Injuries
 - Heart Disease and Stroke
 - Cancer
 - Dental Disease
 - Premature Birth
 - Birth Defects
 - Childhood Disabilities



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Publications

[Alphabetical Indicator Index](#)

[Categorized Indicator Index](#)

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Search all UDOH reports available online through the U of U Eccles Health Sciences Library.

Select your search:

Title Keyword

Enter your search term(s) here:

Browse by UDOH Office

[Office of Health Care Statistics](#)

[Technical Publications](#) or [Consumer Publications](#)

- Hospital Utilization and Charges
- Ambulatory Surgery
- Health Plan Consumer Surveys
- Ambulatory Care Sensitive Conditions
- Cesarean Sections

[Office of Public Health Assessment](#)

- Health Status Indicators and Outcome Measures
- Health Status Update - Back Issues
- Utah Health Status Survey, and Other Health Surveys
- Behavioral Risk Factor Surveillance System (BRFSS)
- Leading Causes of Death

[Office of Vital Records and Statistics](#)

- Births and Deaths

[Bureau of Health Promotion](#)

- Arthritis Program
- Asthma Program
- Cancer Control Program
- Cardiovascular Health Program
- Diabetes Program
- Tobacco Prevention and Control Program
- Violence and Injury Prevention Program

[Bureau Maternal and Child Health](#)

- Child Adolescent and School Health
- Immunization
- Oral Health
- Reproductive Health
- Women, Infants and Children (WIC)

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IBIS-PH Alphabetical Indicator Profiles Index

Welcome to the IBIS-PH Alphabetical Indicator Profiles Index Navigation Menu. To view an indicator's information simply click on the desired indicator. A hierarchical folder tree indicator profile index is also available that provides selection by topic or subject area.

Index: [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Indicator Profile	Published Date
5 A Day - Fruit	12/31/03
5 A Day - Vegetables	12/31/03
Adolescent Births	03/23/04
Adverse Events Related to Hospital Inpatient Care	12/22/03
Age Distribution of the Population	01/08/04
Air Quality	04/22/04
Alcohol Consumption - Binge Drinking	03/31/04
Alcohol-Related Motor Vehicle Crash Deaths	01/14/04
Ambulatory Care Sensitive Conditions: Asthma Hospitalization Among Children	03/24/04
Ambulatory Care Sensitive Conditions: Diabetes Hospitalization Among Adults	03/24/04
Ambulatory Care Sensitive Conditions: Pneumonia and Influenza Hospitalization Among the Elderly	03/24/04
Assisted Living Occupancy Rate: Type I	01/08/04
Assisted Living Occupancy Rate: Type II	12/22/03

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IBIS-PH Categorized Indicator Profiles Index

Welcome to the IBIS-PH Categorized Indicator Index Navigation Menu. Click on this [Alphabetical Index](#) link to view a list of all of the available indicators sorted alphabetically.

Use the hierarchical folder tree to navigate by topic or subject area. To see folder contents, click on the . Clicking on the will hide the menu folder contents. Viewable indicator reports are represented by the icon. To view, simply click on the icon or the indicator's title.

[Complete Alphabetical Index of All Indicators](#)

[Top of the Categorized Index](#)

- [Utah Public Health Outcome Measures Report: Population, Health Care System, Risk Factors, Health Outcomes](#)
- [U.S. Public Health Service's Healthy People 2010](#)
- [UDOH Division and Program](#)
- [Utah's Community Health Indicators](#)
- [Leading Causes of Death](#)
- [Communicable Diseases](#)**
- [Primary Care Needs Assessment](#)
- [C.S.T.E. Chronic Disease Indicators](#)

[Complete Alphabetical Index of All Indicators](#)

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- [Communicable Diseases](#)
 - [Food-borne Illnesses](#)
 - [Vaccine-Preventable Diseases](#)
 - [Measles Cases](#)
 - [Pertussis Cases](#)
 - [Hepatitis A](#)
 - [Tuberculosis Cases](#)
 - [Immunization - Adequately Immunized Two Year Olds](#)
 - [Immunization - Influenza, Adults](#)
- [Sexually-Transmitted Diseases](#)



Important Facts

Graphical Views

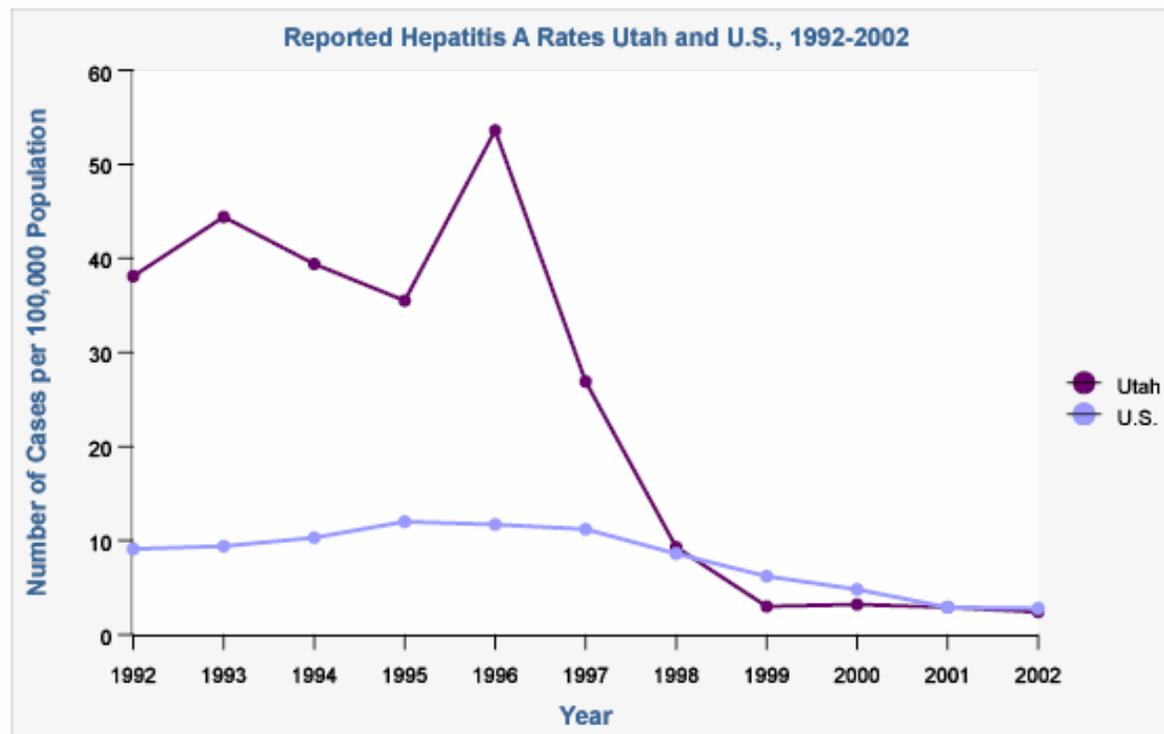
Related Indicators

Available Services

Other Resources & Links

Complete Profile

Indicator Profile of Hepatitis A



Data Sources

Utah Department of Health, Office of Epidemiology;

Other Views

- [by Local Health District, Utah, 2001-200](#)
- [View the Numbers](#)

Definition

Hepatitis A is a serious viral illness involving inflammation of the liver and can be spread through personal contact. The rate of hepatitis A is the reported hepatitis A cases divided by total people in population.



Important Facts

Graphical Views

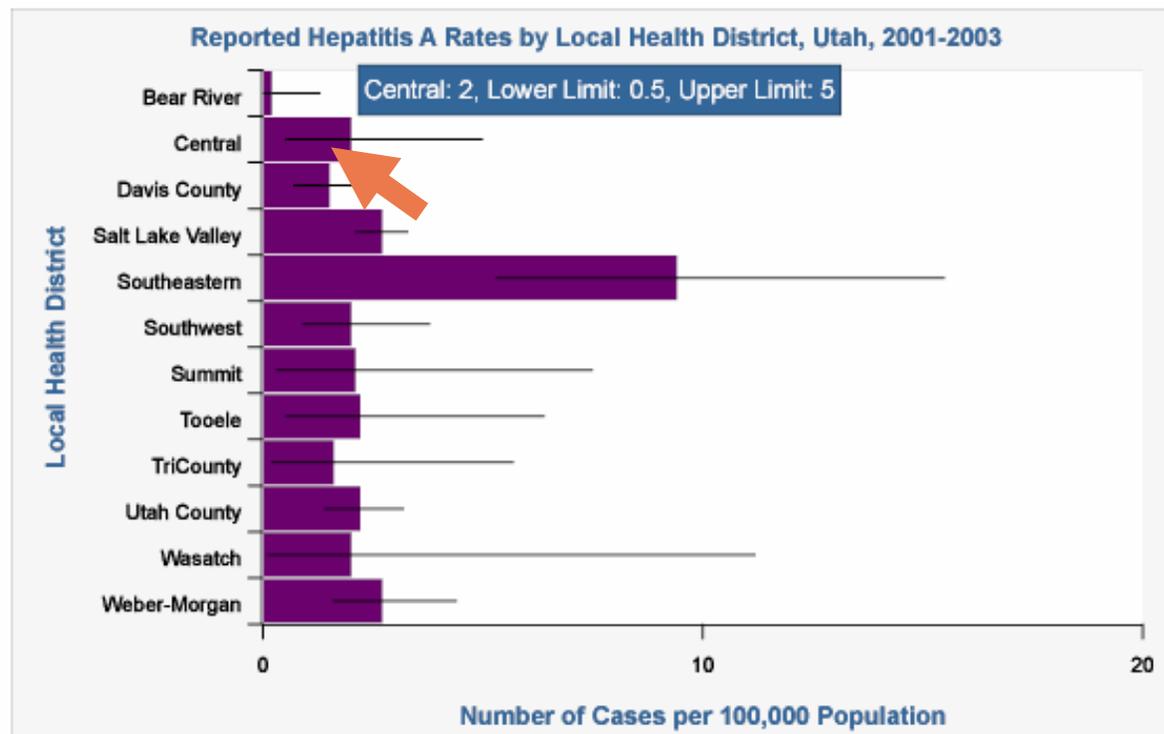
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Important Facts

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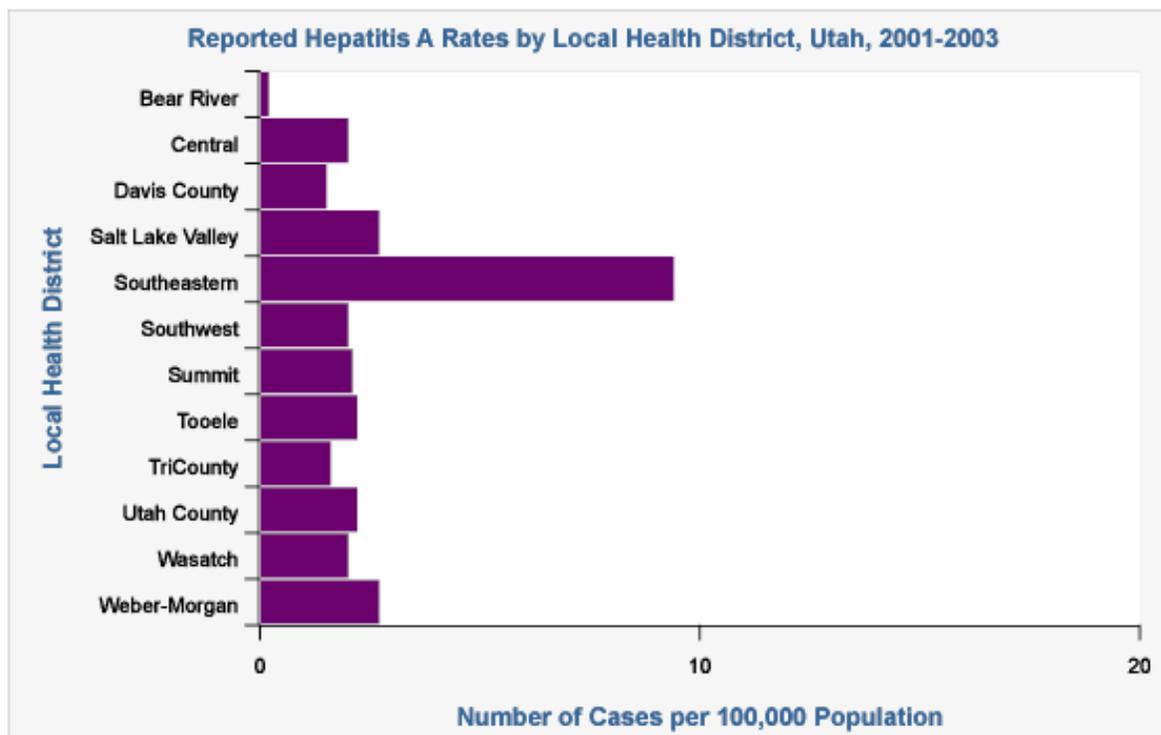
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Important Facts for Hepatitis A

Definition

Hepatitis A is a serious viral illness involving inflammation of the liver and can be spread through personal contact. The rate of hepatitis A is the reported hepatitis A cases divided by total people in population.

Numerator

Reported hepatitis A cases.

Denominator

Total people in population.

Data Interpretation Issues

Rate reported is per 100,000 persons.

Why Is This Important?

Hepatitis A is the most common type of hepatitis reported in the United States. Utah was identified as one of 11 states with average annual disease rates at least twice the national average during 1987-1997.

Surveillance data are used to detect outbreaks, determine the effectiveness of hepatitis A vaccination, monitor disease incidence in all age groups, determine the epidemiologic characteristics of infected persons including source of infection, and assess and reduce missed opportunities for vaccination.

Healthy People 2010 Objective 14.6:

Hepatitis A - (new cases per 100,000 population)

U.S. Target for 2010: 4.5/100,000 population

Utah Target for 2010: 1.3/100,000 population

Other Objectives

Utah's 42 Community Health Indicators

How Are We Doing?

Since 1997, the incidence of hepatitis A in Utah has decreased and the average annual rates have been lower than the national average.

What Is Being Done?

Per Communicable Disease Rule R386-702-3, health care providers and laboratories are required to report suspected cases of hepatitis A immediately by telephone to the Office of Epidemiology or



IBIS-PH

Data Maintenance and Administration System

Release Date: 20-December-2003

Admin User: OPEN SYSTEM

Important Facts of Stroke (Cerebrovascular Disease) Deaths:

Status: Open, 05/20/04

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Graph Specifications

Graph Data Sources

Graph Values

Why Important *

Stroke, the death of brain tissue usually resulting from artery blockage, is the third leading cause of death in Utah, behind heart disease and cancer. About 600,000 people in the U.S. suffer a new or recurrent stroke each year.(1) Stroke is a leading cause of long-term disability.(1)

Other Objective Description

Utah's 42 Community Health Indicators

How Doing

Death rates for stroke have generally declined in recent decades. Much of this decline can be attributed to control of high blood pressure.

State vs US

Death rates for stroke have not been declining in the United States and Utah as rapidly as heart disease deaths. Utah's death rate from stroke in 2002 was 59.3 per 100,000 (up from 57.3 in 2001), similar to the U.S. 2001 rate of 60.8 per 100,000.

What Doing

Other Program Information

* = Required Input



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Show the main IBIS-PH Custom Query page

IBIS-PH: Utah's Public Health Data Resource

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IBIS-PH Custom Query Main Page

NOTICE: You are using the IBIS-Q TEST SITE. This site may be used for testing the query system software application. If you need accurate health data, please use the IBIS production site: <http://ibis.health.utah.gov>. Thank you.

Welcome

Welcome to the IBIS-Q interactive query system. This system allows users to query public health data sets directly. The information is intended to support evidenced-based decision making in Utah to plan and improve service delivery, evaluate health care systems, and inform policy decisions. Other uses are not permissible.

Getting Started

Select a data set from the menu buttons on the left. Then follow the steps to select a specific query module. Each query module will take you through all the necessary steps to formulate your query. When you are done forming your query, click "Submit Query" in the last step to get your results.

User Help

Use the HELP button at the left for a menu of instructions and examples. Help buttons throughout the query modules also provide information necessary to make specific query-related selections.

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Population Query Module

Step: [1.](#) | [2.](#) | [3.](#) | [4.](#) | [5.](#) | [Finish](#)

[Overview](#) | [Options](#)

- Save these option settings as future preferences
- Show Overview section on entry
- Auto advance to next step
- Automatically submit query from the Query Confirmation page.

Step/Selection Hiding Options:

- Auto hide step when moving off to another step
- Show only questions which have answers selected
- Show all questions and answers visited

Step 1: Select year

Step 2: Select age

Step 3: Select gender

Step 4: Select geographic area

Step 5: Select how to group the query results

Step 6: Finish

Population Query Module

Step: 1. | 2. | 3. | 4. | 5. | Finish

Overview | Options

Step 1: Select year

Select years.

1998
1999
2000
2001
2002
2003
2004
2005
2006

Help



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Microsoft Internet Explorer



Select a range of years.
Hold down Ctrl key to make multiple selections.
Select Year in Step 5. to display population estimates for individual years selected.

OK

Step 5: Select how to display the results

Step 6: Finish

Submit

Reset

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Female only

Step 4: Select geographic area

First choose a geography type. (Default is all Utah resident)

[Help](#)

- Local health district
 - All local health districts
 - Select from list of local health district
 - Bear River
 - Central Utah
 - Davis County
 - Salt Lake County
 - Southeastern
 - Southwest UT
 - Summit County
 - Tooele County
 - Tri-County
 - Utah County
 - Wasatch County
 - Weber/Morgan

County

Step 5: Select how to display the results

Step 6: Finish



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- Southwest CO
- Summit County
- Tooele County
- Tri-County
- Utah County
- Wasatch County
- Weber/Morgan

County

Step 5: Select how to display the results

Select how you would like the queried data results to be tabulated and displayed. If both the "Row values to group by" and the "Column values to group by" are selected, then a two dimensional table will be presented. In either case, a standard data list which contains any lower and upper confidence limits as well as applicable numerator, denominator values will be displayed.

<p>Row Values Grouped By:</p> <p>Year</p>	<p>Column Values Grouped By:</p> <p>None</p> <p>Year</p> <p>Gender</p> <p>Geographic area</p> <p>Age Group</p>	Population Counts
---	--	-------------------

Step 6: Finish

 **Submit**  **Reset**

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Query Confirmation

Please review your selections. If they are correct press the "Proceed and Get Results" button located on the bottom of this page. If they are not correct press the "Return and Modify Query" to correct the selections. Once the proceed button is pressed the query will be sent to the server. Some queries may take several minutes, depending on the query and the server load.

Query Item	Description / Value
Navigation Path	IBIS-PH > Custom Query > Population Estimates > Utah population by county, sex, and single year of age
Module	Population Query Module
Measure	Count

Step 1: Select year

Year Filter	2000, 2001, 2002, 2003, 2004
-------------	------------------------------

Step 2: Select age

agegrp9 Filter	0-9, 10-19, 20-29, 30-39
----------------	--------------------------

Step 3: Select gender

No Filter	Using all values
-----------	------------------

Step 4: Select geographic area

geo2 Filter	Davis County, Salt Lake County, Utah County, Weber/Morgan
-------------	---

Step 5: Select how to group the query results

Data grouped by	Year, Geographic area
-----------------	-----------------------

Proceed and Get Results

Return and Modify Query





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Query Results for Population Query Module

Query Item	Description / Value
Navigation Path	IBIS-PH > Custom Query > Population Estimates > Utah population by county, sex, and single year of age
Module	Population Query Module
Measure	Count
Year Filter	2000, 2001, 2002, 2003, 2004
agegrp9 Filter	0-9, 10-19, 20-29, 30-39
geo2 Filter	Davis County, Salt Lake County, Utah County, Weber/Morgan

[Modify Current Query](#)

[Start New Query](#)

[Output to Excel](#)

[Output XML](#)

New Drill Down Data Grouping:

2-d Data Table

Year	Geographic area				Total
	Davis County	Salt Lake County	Utah County	Weber/Morgan	
2000	164,439	602,623	282,002	132,011	1,181,075
2001	166,299	608,991	291,684	133,556	1,200,530
2002	168,462	607,924	295,244	132,140	1,203,770
2003	168,830	609,425	301,802	133,363	1,213,420
2004	171,329	618,723	311,275	136,341	1,237,668
Total	839,359	3,047,686	1,482,007	667,411	6,036,463

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Data List

Geographic area	Year	Value
All	All	6,036,463
All	2000	1,181,075
All	2001	1,200,530
All	2002	1,203,770
All	2003	1,213,420
All	2004	1,237,668
Davis County	All	839,359
Davis County	2000	164,439
Davis County	2001	166,299
Davis County	2002	168,462
Davis County	2003	168,830
Davis County	2004	171,329
Salt Lake County	All	3,047,686
Salt Lake County	2000	602,623
Salt Lake County	2001	608,991
Salt Lake County	2002	607,924
Salt Lake County	2003	609,425
Salt Lake County	2004	618,723
Utah County	All	1,482,007
Utah County	2000	282,002
Utah County	2001	291,684
Utah County	2002	295,244
Utah County	2003	291,000



Population Estimates	Utah County	2004	311,275
	Weber/Morgan	All	667,411
Birth & Infant Death	Weber/Morgan	2000	132,011
Mortality	Weber/Morgan	2001	133,556
Hospital & Emergency Department	Weber/Morgan	2002	132,140
	Weber/Morgan	2003	133,363
	Weber/Morgan	2004	136,341

Record Count: 30

Data Notes

All population estimates and projections apply to July 1 of the selected year.

Data Sources

Utah Governor's Office of Planning and Budget (GOPB). Population estimates for future years (projections) were based on the Utah Process Economic and Demographic (UPED) model. Numbers for past years (estimates) were produced by the Utah Population Estimates Committee (UPEC); U.S. Bureau of the Census;

Data Issues

Population projections are updated each year, based on UPED model inputs, such as public school enrollments and Utah births. The new projections are typically released at the beginning of the calendar year, at the time of the publication of the GOPB Economic Report to the Governor.

The GOPB uses the April 1st estimates from the U.S. Census Bureau's decennial censuses as a starting point, and then makes estimates and projections for intercensal years based on their models. Population estimates and projections for intercensal years (e.g., 2001-2009) produced by the GOPB are considered to be more accurate than those produced by the U.S. Bureau of the Census because the GOPB model takes more local information into account.

The county totals in 2002 and later will vary slightly from the official UPEC estimates for the entire state of Utah. This is because all county estimates after 2001 are produced by the UPED model and the state of Utah estimate is produced by the Utah Population Estimates Committee (UPEC). Totals may also vary due to rounding. For the most accurate estimates for the entire state of Utah, go to <http://governor.utah.gov/dea/People.html>.

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- Mortality
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geo2 Filter	Davis County, Salt Lake County, Utah County, Weber/Morgan

New Drill Down Data Grouping: Gender

Gender

Age Group

2-d Data Table

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	Davis County	Salt Lake County	Utah County	Weber/Morgan	
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Data List

Geographic area	Year	Value
All	All	6,036,463
All	2000	1,181,075



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Query Results for Population Query Module

Query Item	Description / Value
Navigation Path	IBIS-PH > Custom Query > Population Estimates > Utah population by county, sex, and single year of age
Module	Population Query Module
Measure	Count
Year Filter	2000, 2001, 2002, 2003, 2004
agegrp9 Filter	0-9, 10-19, 20-29, 30-39
geo2 Filter	Salt Lake County

[Modify Current Query](#)

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New Drill Down Data Grouping:

2-d Data Table

Year	Gender		Total
	Male only	Female only	
2000	310,994	291,629	602,623
2001	314,222	294,769	608,991
2002	313,616	294,308	607,924
2003	314,364	295,061	609,425
2004	319,078	299,645	618,723
Total	1,572,274	1,475,412	3,047,686

Population Estimates

Birth & Infant Death

Mortality

Hospital & Emergency Department

Health Surveys

Cancer Registry

Help

	A	B	C	D	E	F	G	H	I
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1	Query Results for	Population Query Module
2	Query Item	Description / Value
3	Navigation Path	IBIS-PH > Custom Query > Population Estimates > Utah population by county, sex, and single year of age
4	Module	Population Query Module
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2-d Data Table

	Gender		
Year	Male	Female	Total
2000	310,994	291,629	602,623
2001	314,222	294,769	608,991
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2003	314,364	295,061	609,425
2004	319,078	299,645	618,723
Total	1,572,274	1,475,412	3,047,686

Data List

Gender	Year	Value
All	All	3,047,686
All	2000	602,623
All	2001	608,991
All	2002	607,924
All	2003	609,425
All	2004	618,723
Male only	All	1,572,274
Male only	2000	310,994
Male only	2001	314,222
Male only	2002	313,616



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Population Estimates

Birth & Infant Death

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Help



```

    <TITLE>All</TITLE>
  </VALUE>
</DIMENSION>
<VALUE>6,036,463</VALUE>
<PERCENTAGE>100.0</PERCENTAGE>
</RECORD>
- <RECORD>
- <DIMENSION>
  <NAME>geo2</NAME>
  <TITLE>Local Health District</TITLE>
- <VALUE>
  .
  <TITLE>ALL</TITLE>
  </VALUE>
</DIMENSION>
- <DIMENSION>
  <NAME>year</NAME>
  <TITLE>Year</TITLE>
- <VALUE>
  2000
  <TITLE>2000</TITLE>
  </VALUE>
</DIMENSION>
<VALUE>1,181,075</VALUE>
<PERCENTAGE>19.57</PERCENTAGE>
</RECORD>
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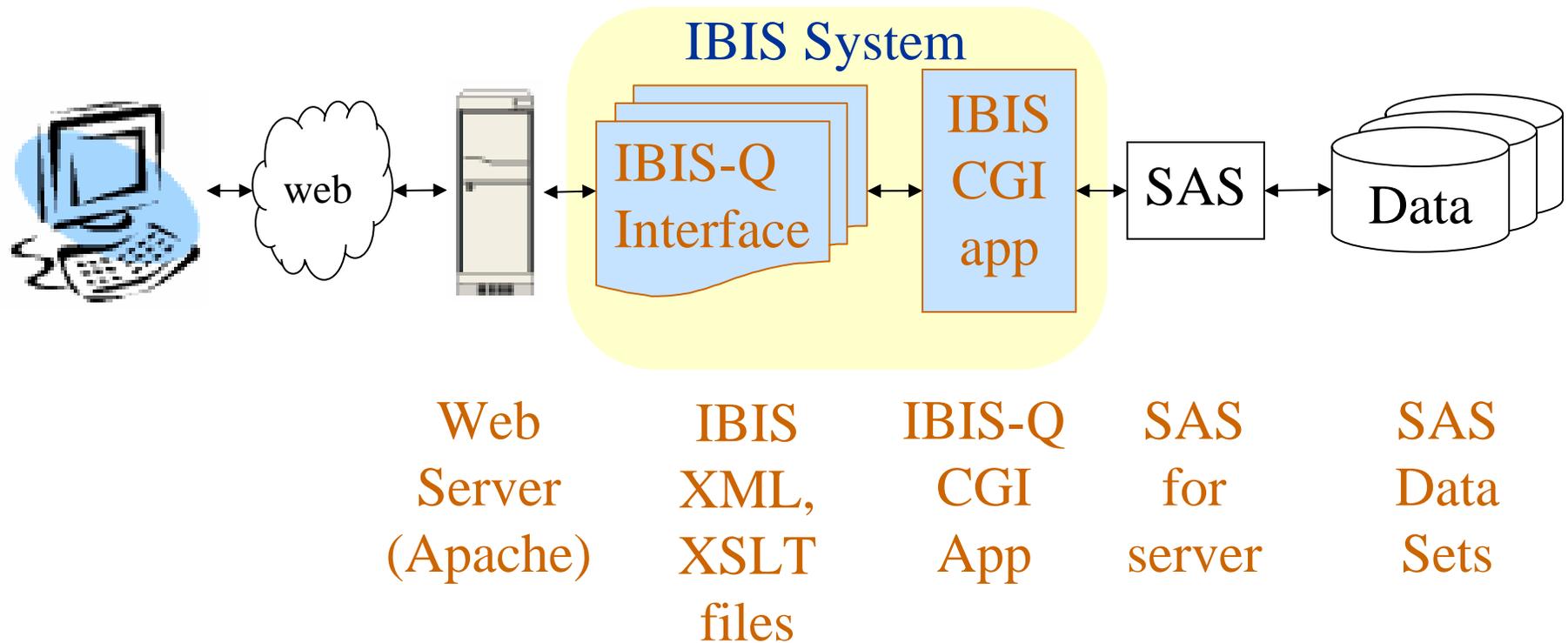
Mortality Data Output Example

Data List

Local health districts	Numerator	Denominator	Value	Lower 95% Confidence Limit	Upper 95% Confidence Limit
All	49,969	26,743,084	186.85	185.21	188.49
Bear River	2,877	1,632,801	176.20	169.77	182.63
Central Utah	2,045	774,738	263.96	252.53	275.39
Davis County	4,428	2,846,501	155.56	150.98	160.14
Salt Lake County	20,345	10,550,738	192.83	190.18	195.48
Southeastern	1,607	599,562	268.03	254.94	281.12
Southwest UT	4,071	1,767,334	230.35	223.28	237.41
Summit County	367	377,554	97.20	87.26	107.14
Tooele County	882	533,894	165.20	154.31	176.10
Tri-County	1,118	466,816	239.49	225.47	253.52
Utah County	6,325	4,605,725	137.33	133.95	140.71
Wasatch County	357	199,197	179.22	160.65	197.79
Weber/Morgan	5,547	2,388,224	232.26	226.16	238.37



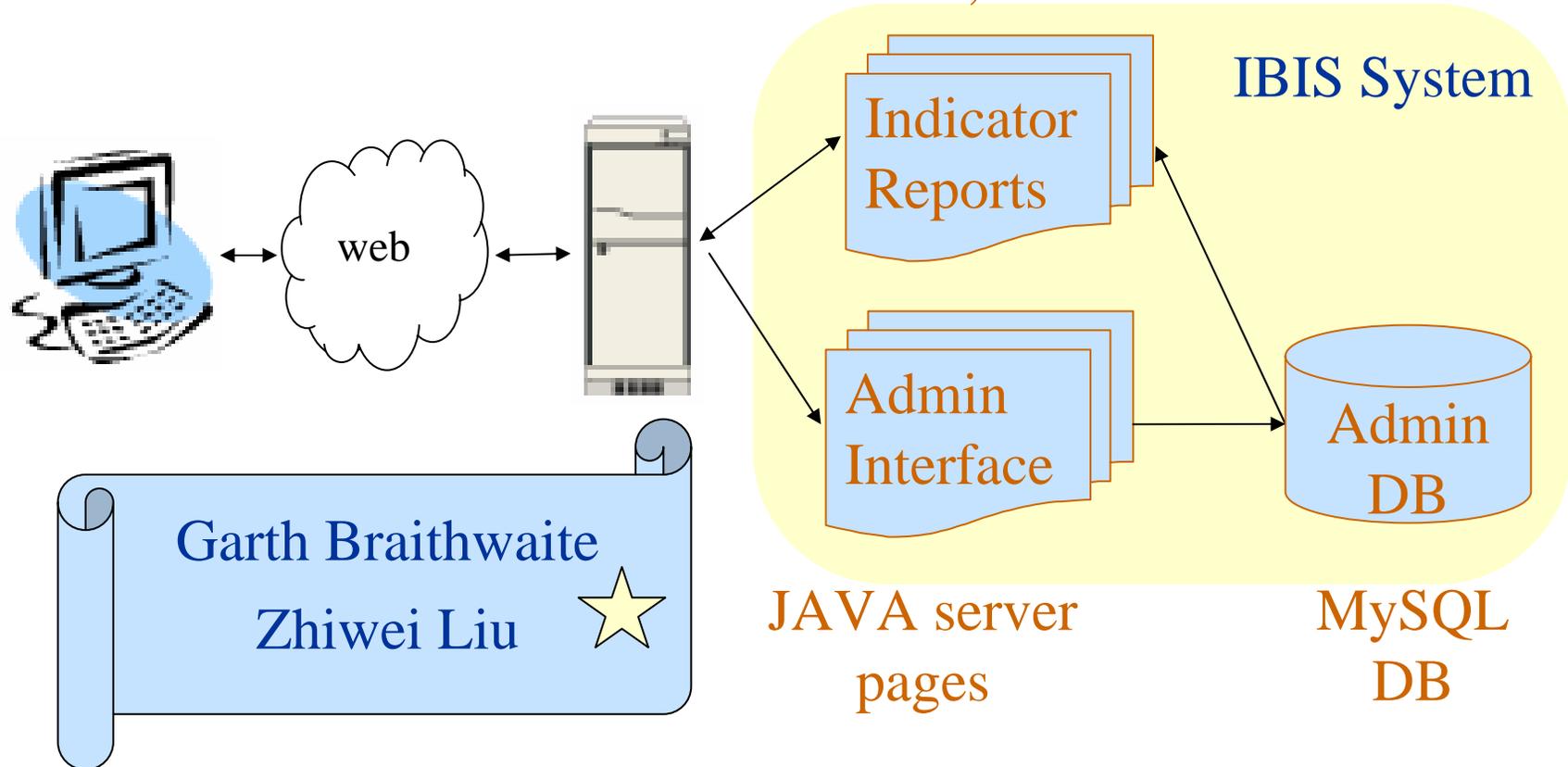
IBIS Architecture – Query Sys.





IBIS Architecture – Indicators

IBIS XML, XSLT files



Garth Braithwaite

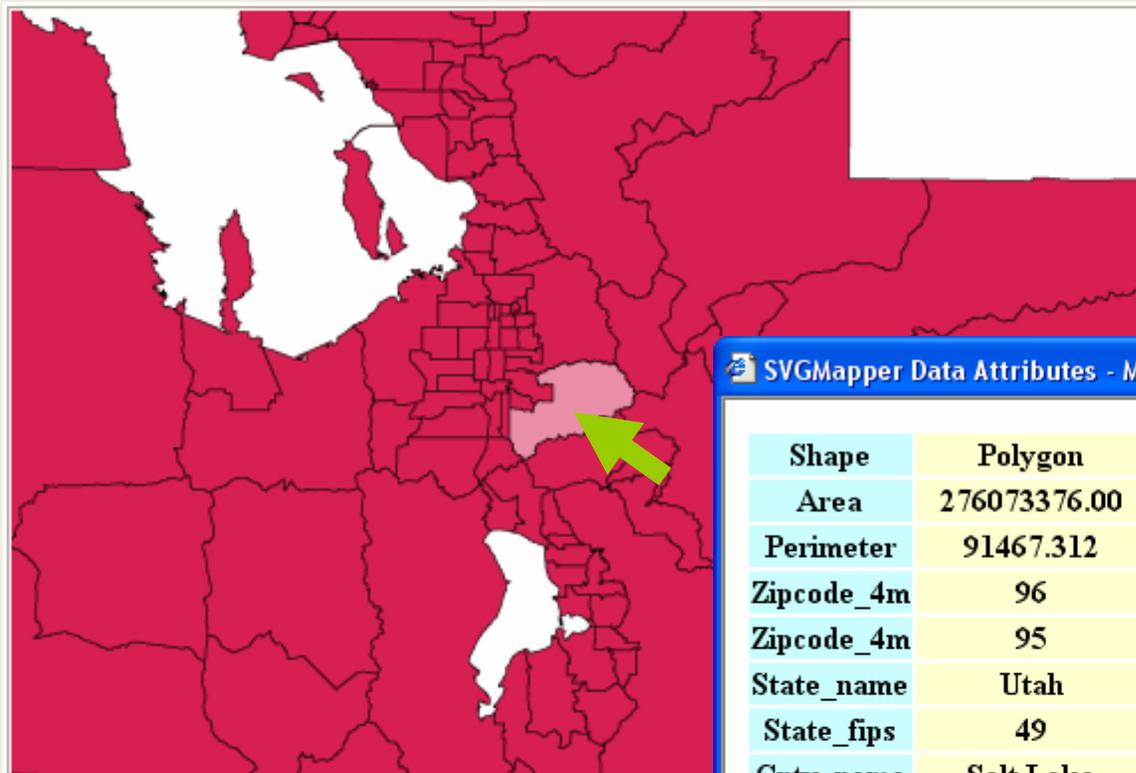
Zhiwei Liu





NEDSS, EPHTP Collaboration

- ❖ Collaboration with SERPH (Utah's NEDSS), Environmental Public Health Tracking Program (EPHTP)
 - ❖ Maps -- technology in place, but not attached to data
 - ❖ Secure access / authentication
 - ❖ Extend analysis capabilities – IBIS can do anything SAS can do



Zip Codes Legend

Avzips.shp

Avzips.shp
 Avzips.shp

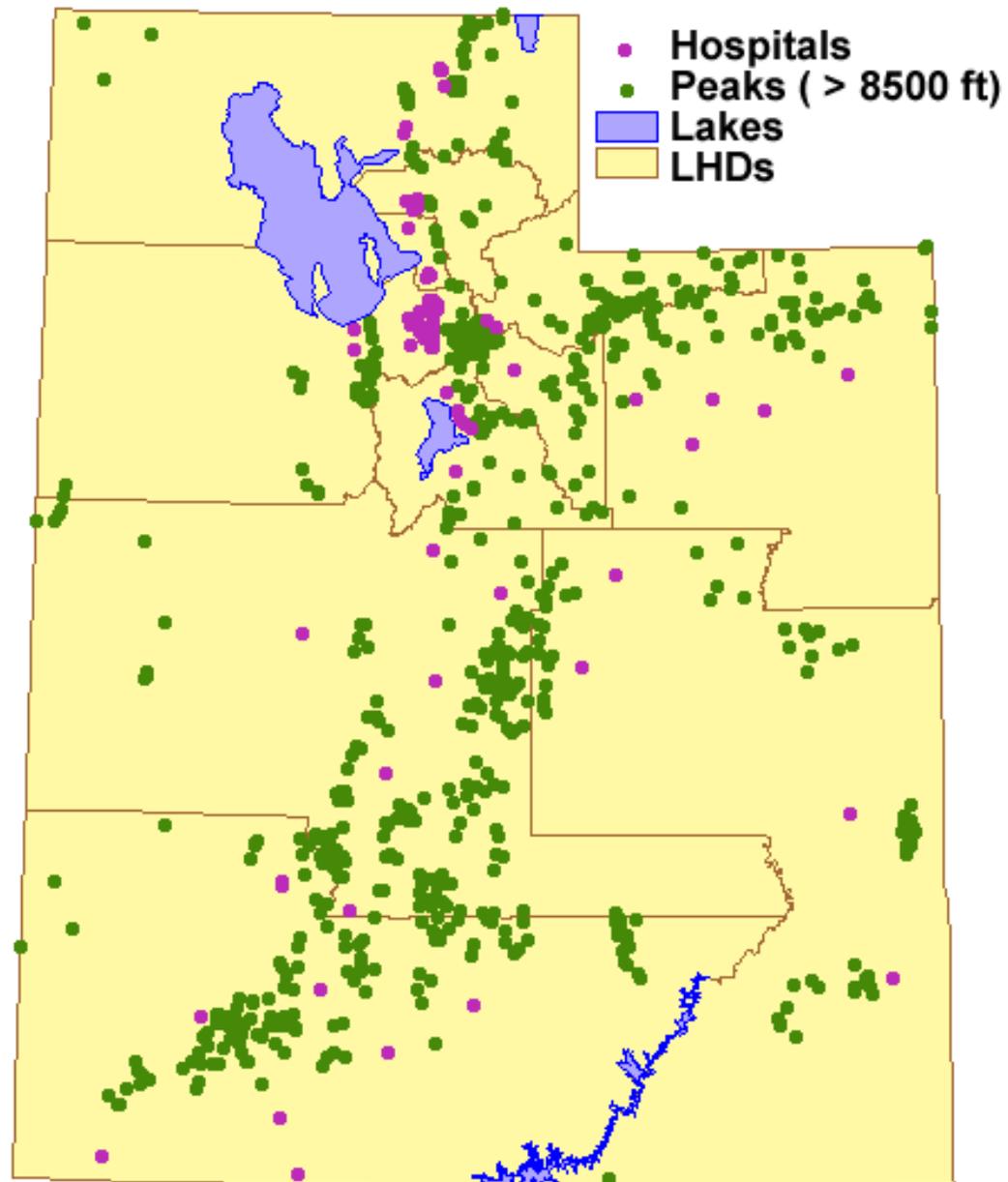
Instructions for the map:

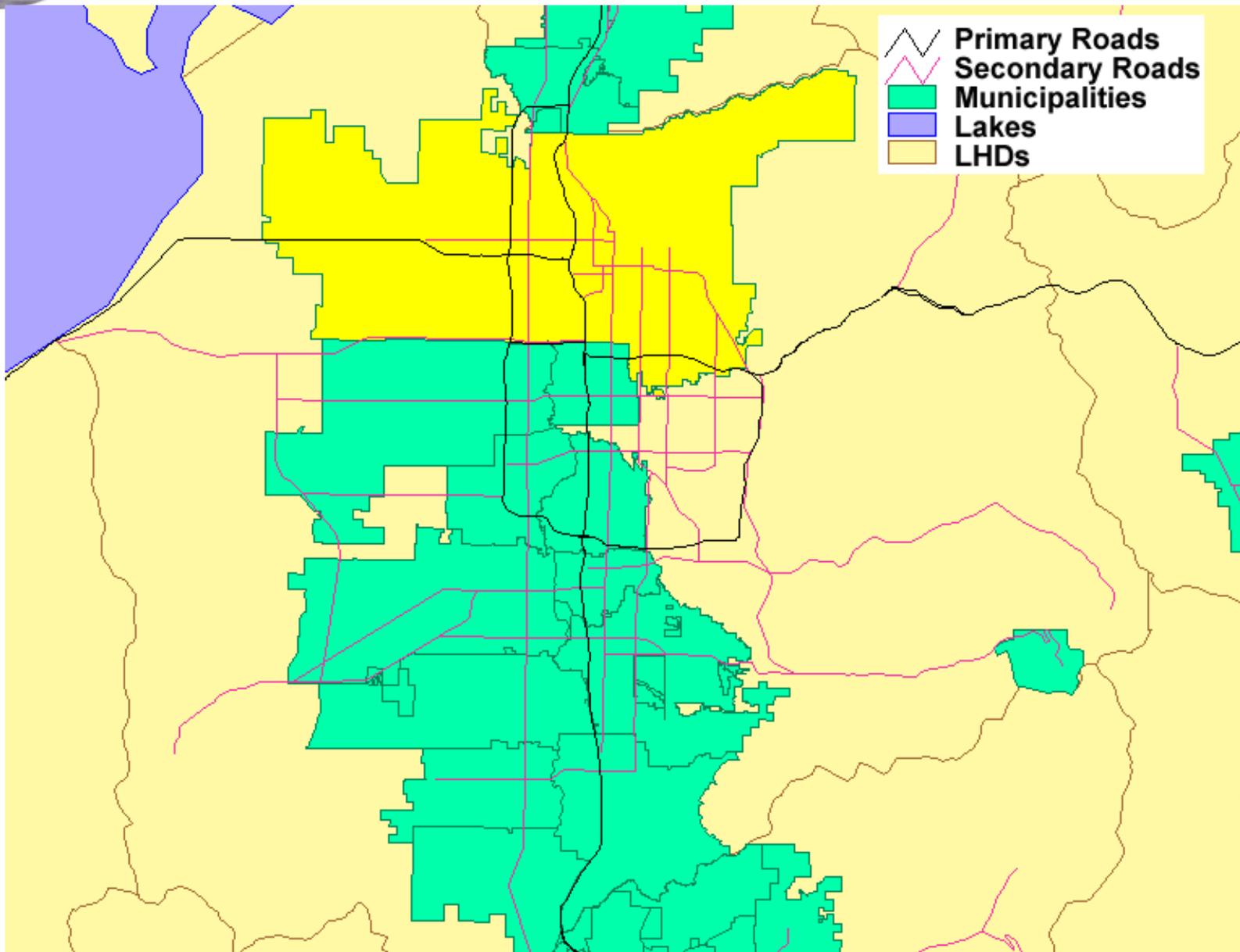
- To pan the map, hold down the Alt key and drag the area with the mouse
- To zoom in, hold down the Ctrl key and click the desired area
- Click right mouse button for options
- Click on the area to display data
- Click on yellow boxes to hide layers
- Click on arrows to scroll legend up and down

SVGMapper Data Attributes - Microsoft Internet Explorer

Shape	Polygon
Area	276073376.00
Perimeter	91467.312
Zipcode_4m	96
Zipcode_4m	95
State_name	Utah
State_fips	49
Cnty_name	Salt Lake
Cnty_fips	035
Fips	49035
Zip	84092
Name	SANDY
Zip_type	Street Delivery
Name_type	Main Post Office

Original scale 1:0
 Author:
 Comments:







Current Map Layers

✦ Boundaries

- ✦ Counties
- ✦ Local Health Districts
- ✦ 61 "Small Areas"
- ✦ Zip Codes
- ✦ House Districts
- ✦ Senate Districts
- ✦ School Districts
- ✦ Census Tracts

✦ Features

- ✦ Lakes
- ✦ Municipalities
- ✦ Highways & Roads
- ✦ LHD Offices
- ✦ LHD Clinics
- ✦ Hospitals
- ✦ Mtn. Peaks (>8500')
- ✦ Air Monitoring Stations



Secure Cancer Cluster Query

Module - EPHTP

- ❖ Secure access / authentication through Novell E-directory
 - ❖ Logon ID and password required for access
- ❖ Cancer incidence data query
 - ❖ Census tract level
 - ❖ Flag anomalies for further investigation
 - ❖ Moving average
 - ❖ Standardized Incidence Ratio



IBIS' Utility for PHIN

- ⊕ Provide software components?
- ⊕ Provide technological solutions?
- ⊕ Provide ideas for usability?
- ⊕ Other?



IBIS-PH

Utah's Indicator-Based Information
System for Public Health

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Contact Information

Thank you

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