

OASIS Web Query Tool Tutorial

This tutorial is comprised of 5 examples, designed to show you the basics of using the Web Query.

- Example 1 Get Teen Pregnancy Rates for Georgia and Fulton County (4 pages).
- Example 2 How to compare the Infant Mortality Rate for a County with the State; How to multi-select options; and interpret the results (3 pages).
- Example 3 Determine whether people in their teenage years are at higher risk of Motor Vehicle Deaths as compared to people in their 20's, among rural counties only (4 pages).
- Example 4 How to save the Web Query Tool data table output to your computer, for use in Excel or other application (1 page).
- Example 5 How to interpret the % Within Area, % Within State, and % State Population indicators (4 pages).

Note on Definitions

Detailed Definitions are always available via the Definitions button. However, quick Definitions are also available as mouse-overs in any Oasis Web Query output, as shown below:

2004	
DISCHARGES	DISCHARGE RATE
1,637	287.1
The number of inpatients discharged from non-Federal acute-care inpatient facilities. Persons can be counted more than once if readmitted.	334.6
	90.2
	365.3
21	131.3



*(The Online Analytical Statistical Information System (OASIS) is a suite of tools (**Web Query, Mapping Tool, Animated Charting Tool, and Excel Cross-Tabulation Tool**) designed, built and maintained by the Office of Health Indicators for Planning (OHIP) which can be used to access the Georgia Department of Health's standardized health data repository).*



Example 1 - What you'll learn:

How to find the Teen Pregnancy Rates for Georgia and Fulton County, 2006-2008.

1. First, open <http://oasis.state.ga.us>. Once there, you'll see the screen shown below. Under **Web Query Tool**, click on **Maternal/Child Health**.

OASIS
Online Analytical Statistical Information System
 Web-Based Tools for Public Health and Public Policy Data Analysis

OASIS Web Query Tool
 Create **tables** of health statistics.

- Mortality/Morbidity
- Infant Deaths
- **Maternal/Child Health**
- Population
- Emergency Room Visits

OASIS Mapping Tool
 Make **maps** of health indicators at the county or census tract level.

- Mortality/Morbidity
- Infant Deaths
- Maternal/Child Health
- Cancer Incidence

OASIS Animated Charting Tool
Animated county level population charts.

- Population Pyramids

Latest

- * **Mapping Tool and Better**
- 08/10/2010.
- * Mortality/Mo Hospital Disch
- 07/27/2010.
- * MCH WebQ data added.
- 06/30/2010.

2. Once you click the **Maternal/Child Health** link, you'll see the following screen:

OASIS
 Maternal / Child
 Web Query
 Tool

Measure: Births & Birth Rate, Pregnancies & Pregnancy Rate, Low Birthweight Births & Percent, Very Low Birthweight Births & Percent

Time: 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

Geography: Public Health Districts, Georgia, Northwest Health District (Rome), North Georgia Health District (Dalton), North Health District (Gainesville), Cobb/Douglas Health District, Fulton Health District, Clayton County Health District (Jonesboro), East Macon Health District (Lakelandville), DeKalb Health District, LaGrange Health District, South Central Health District (Dublin)

Race: All Races, White, Black or African-American, Asian

Ethnicity: All Ethnicities

Age: All Mother Ages, 10 - 14 Years, 15 - 17 years, 18 - 19 years

Tutorial.pdf, Reset, Definitions, **Get Data!**, Display Results, Download Results

OASIS Web Query - Maternal Child Health (MCH) Statistics

OASIS WEB QUERY TOOL: Create Tables of County Level Public Health Statistics and Indicators.
 In this user-friendly tool, you choose which statistics to display in your data tables.

OASIS (Online Analytical Statistical Information System) is a suite of tools used to access the Georgia Department of Public Health's standardized health data repository. With this tool you can obtain Georgia mat (birth, pregnancy) statistics by county, public health district and [demographic cluster](#) for 1994-current year. Measures presented include Low Birthweight, Inadequate Prenatal Care, and Age-Specific (e.g. Teen) P

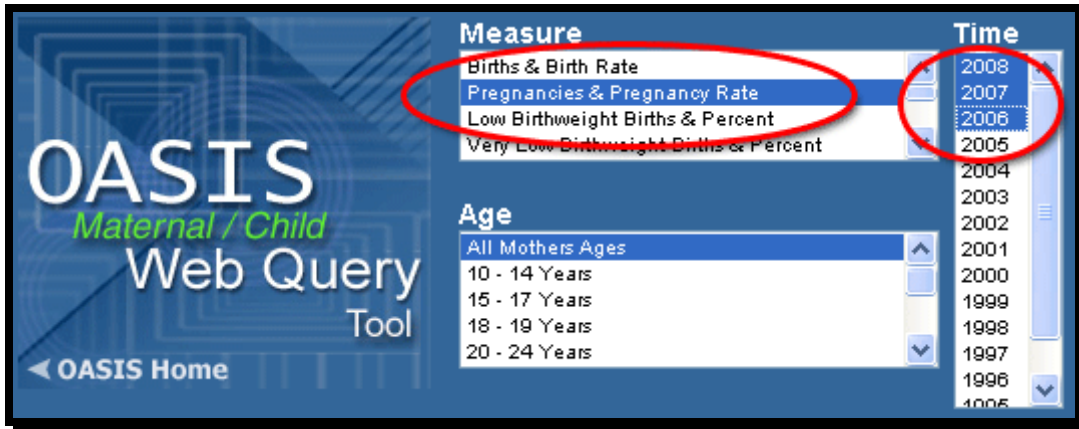
[IMPORTANT NOTICE ABOUT KNOWN DATA ISSUES](#)

Note:
 Multiple selections can be made for year, counties, public health districts, demographic clusters, mother's race and age by holding down the Control or Shift keys and clicking on each selection.

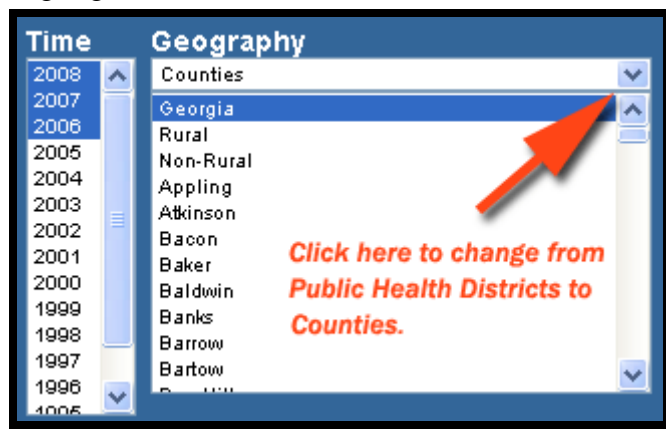
Download as Text File option will create a tab-delimited ASCII text file which can be imported into any spreadsheet, word processing, database, or analysis software (Excel, Lotus123, Word, SPSS, etc).

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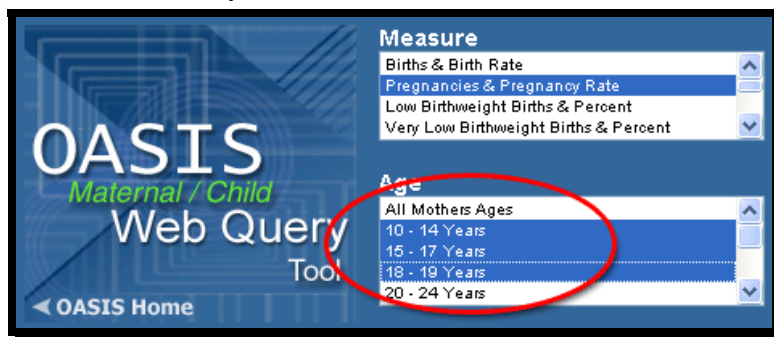
3. Choose your **Measure** and **Years** as shown below. Click on **Pregnancies and Pregnancy Rate**, and then the year 2008 and hold your mouse button down as you slide your mouse down to the year 2006. Doing so will highlight all years to display in the output.



4. Choose **Counties** under **Geography**. Georgia is already highlighted, so scroll down until you see Fulton County. Hold down the Ctrl key (this will allow the Georgia selection to remain highlighted) and select Fulton.



5. In order to choose an age group for teenagers, go to the **Age** box. Click on 10-14 and while holding down the mouse button, drag the mouse slowly down to the 18 – 19 year age group. This will select years 10-19.



6. Now you're ready to display results. Click **Get Data!**. For **definitions** on the difference between birth rate, pregnancy rate, general fertility rate, general pregnancy rate, etc, select the **Definitions** button (shown below).

Pregnancies & Pregnancy Rate, Race: All Races, Ages: 10-19

	2006		2007		2008		SELECTED YEARS TOTAL	
	PREGNANCIES	PREGNANCY RATE	PREGNANCIES	PREGNANCY RATE	PREGNANCIES	PREGNANCY RATE	PREGNANCIES	PREGNANCY RATE
Georgia	22,561	34.5	23,285	35.3	22,652	34.1	68,498	34.6
Fulton	1,886	29.3	2,023	30.5	2,119	31.4	6,028	30.4
County Summary	1,886	29.3	2,023	30.5	2,119	31.4	6,028	30.4

Rates based on 1-4 events are not shown and indicated by an *
N/A Rates indicate that no population exists for the query selected.

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7. Another way to get definitions: If you hover your mouse over a column heading, a 'mouseover' will appear with a short definition of the term.

Pregnancies & Pregnancy Rate

2006		2007	
PREGNANCIES	PREGNANCY RATE	PREGNANCIES	PREGNANCY RATE
22,561	34.5	23,285	35.3
1,886	29.3	2,023	30.5
1,886	29.3	2,023	30.5

Rates based on 1-4 events are not shown and indicated by an *
N/A Rates indicate that no population exists for the query selected.

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8. Here is an example of **how to interpret the results:**

Time
 2009
 2008
 2007
 2006
 2005
 2004
 2003
 2002
 2001
 2000
 1999
 1998
 1997
 1996

Geography
 Counties
 Georgia
 Rural
 Non-Rural
 Appling
 Atkinson
 Bacon
 Baker
 Baldwin
 Banks
 Barrow
 Bartow
 ...

Race
 All Races
 White
 Black or African-American
 Asian
 ...

Ethnicity
 All Ethnicities

[Tutorial pdf](#)
[Download](#)

Pregnancies & Pregnancy Rate, Race: All Races, Ages: 10-19

RATE	2007		2008		SELECTED YEARS TOTAL	
	PREGNANCIES	PREGNANCY RATE	PREGNANCIES	PREGNANCY RATE	PREGNANCIES	PREGNANCY RATE
34.5	23,285	35.3	22,652	34.1	68,498	34.6
29.3	2,023	30.5	2,119	31.4	6,028	30.4
29.3	2,023	30.5	2,119	31.4	6,028	30.4

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SELECTIONS: For the 3 years combined, there were 68,498 pregnancies to females aged 10-19 in Georgia.

In 2007, the rate in Georgia was 35.3 Pregnancies per 1,000 females aged 10-19, and 30.5 in Fulton County.

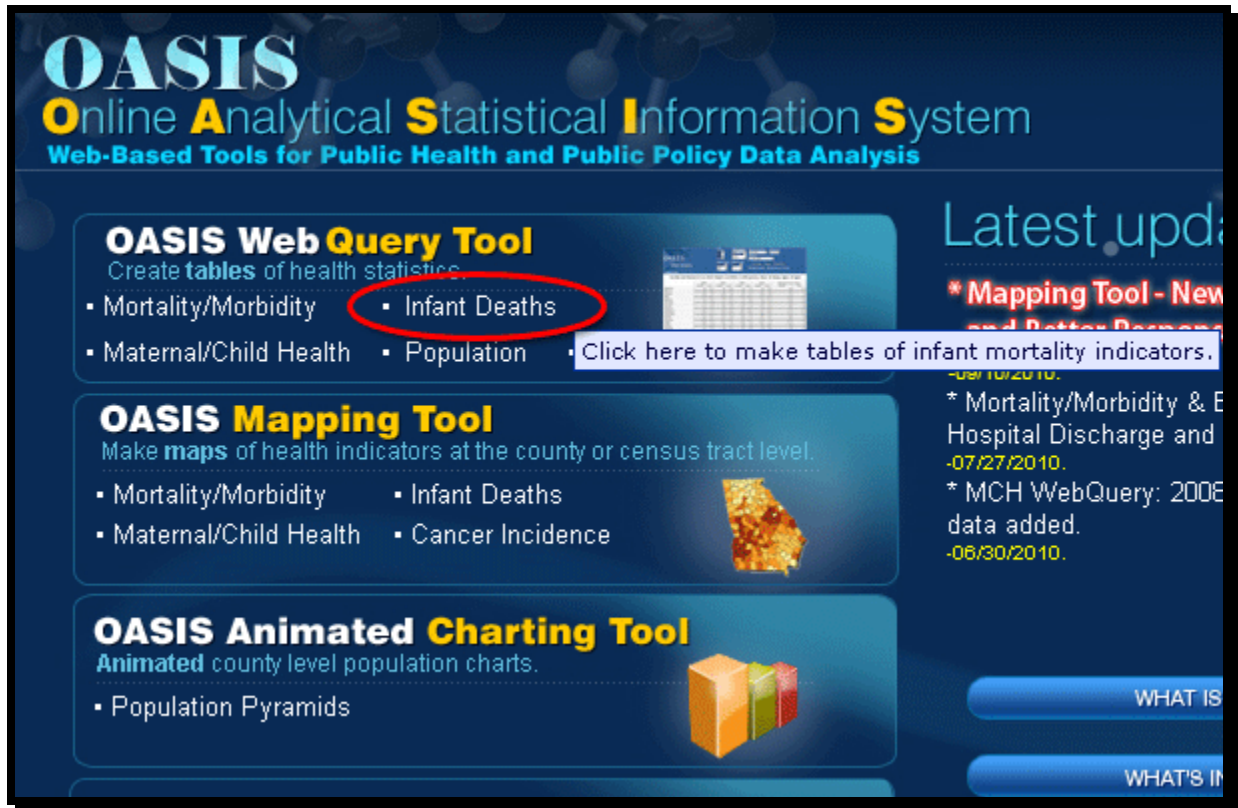
You now have the Age-Specific Pregnancy Rate for Ages 10-19, for years 2006-2008 in Georgia and Fulton County.

End of Web Query Example 1

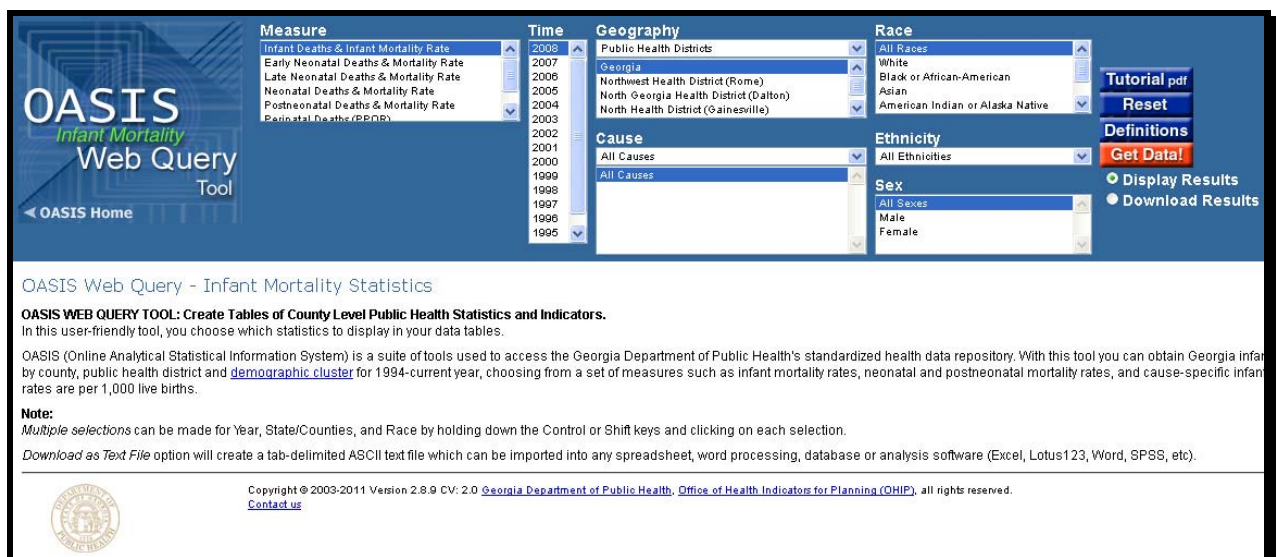
Example 2 - What you'll learn:

How to find the Infant Mortality Rate for Appling County and compare it with Georgia.

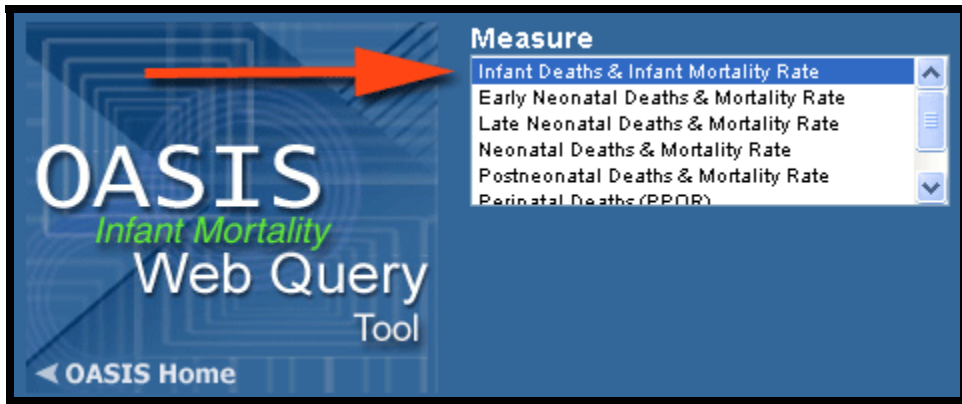
1. From the OASIS homepage <http://oasis.state.ga.us> select Infant Deaths under the **Web Query Tool**, as shown below.



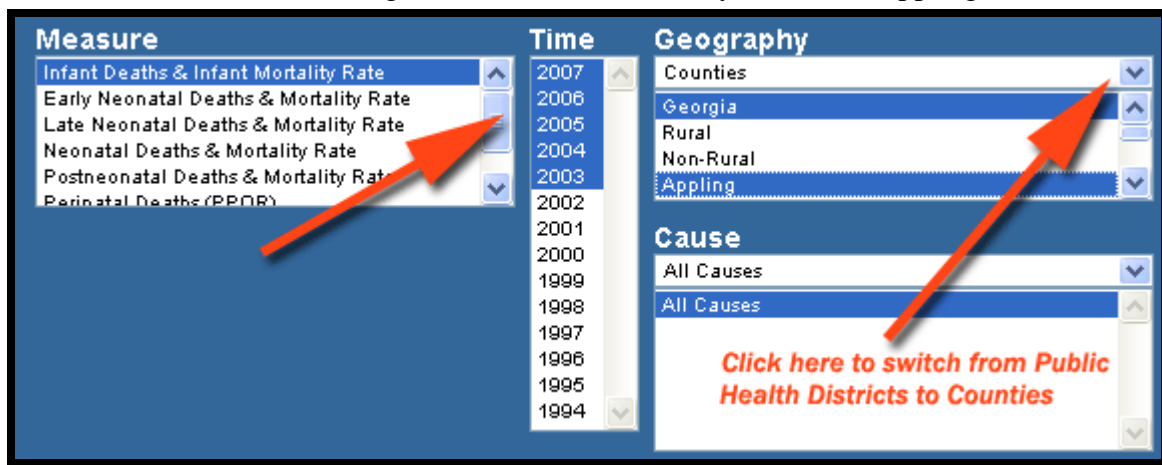
2. When you click the **Infant Deaths** link (shown above), you'll see the screen below:



3. First, choose the **Measure** (Infant Mortality Rate).

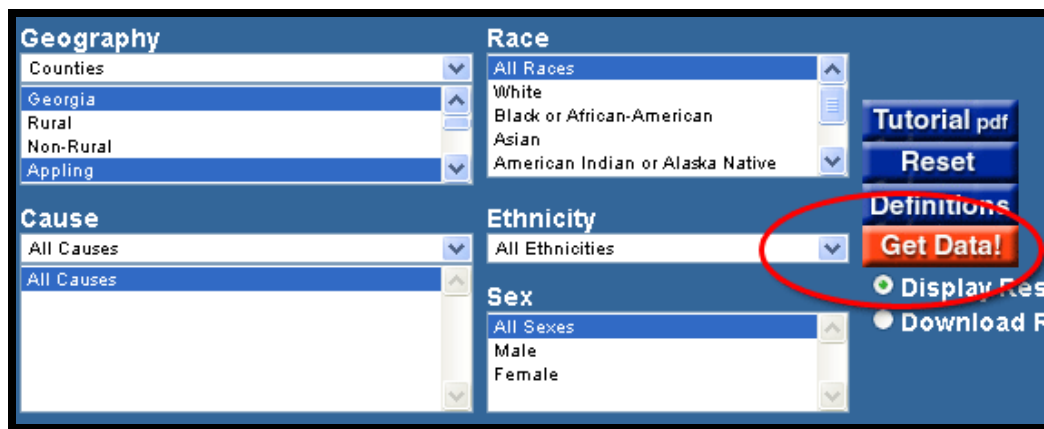


4. Below, choose years under **Time** and Appling County & Georgia under **Geography**. To **Multi-select** several years, you can click on 2003 and while keeping your mouse button held down, drag your mouse down to 2007. Or, you can hold down the Ctrl key while making selections. Under **Geography**, first change from **Public Health Districts** to **Counties**. Then click Georgia, hold down the Ctrl key, and click Appling.



Other choices (Race, Ethnicity, or particular Causes of Death (e.g. SIDS)) are available.

5. To get your data result, click **Get Data** as shown below.



6. You'll see the following table:

	2003				2004				2005				2006				2007				SELECTED YEARS TOTAL							
	DEATHS	IMR	WITHIN AREA	WITHIN STATE	DEATHS	IMR	WITHIN AREA	WITHIN STATE	DEATHS	IMR	WITHIN AREA	WITHIN STATE	DEATHS	IMR	WITHIN AREA	WITHIN STATE	DEATHS	IMR	WITHIN AREA	WITHIN STATE	DEATHS	IMR	WITHIN AREA	WITHIN STATE	DEATHS	IMR	WITHIN AREA	WITHIN STATE
Georgia	1,153	8.5	100.0	100.0	1,179	8.5	100.0	100.0	1,124	8.0	100.0	100.0	1,198	8.1	100.0	100.0	1,198	7.9	100.0	100.0	5,852	8.2	100.0	100.0	5,852	8.2	100.0	100.0
Appling	4	*	*	*	4	*	*	*	3	*	*	*	4	*	*	*	2	*	*	*	17	12.2	100.0	0.3	17	12.2	100.0	0.3
County Summary	4	*	*	*	4	*	*	*	3	*	*	*	4	*	*	*	2	*	*	*	17	12.2	100.0	0.3	17	12.2	100.0	0.3

7. You may need to scroll over to the right to see the end of the table. Below shows how to interpret the output table on a zoomed-in portion:

2007					SELECTED YEARS TOTAL				
DEATHS	IMR	% WITHIN AREA	% WITHIN STATE	% BIRTHS WITHIN STATE	DEATHS	IMR	% WITHIN AREA	% WITHIN STATE	% BIRTHS WITHIN STATE
1,198	7.9	100.0	100.0	100.0	5,852	8.2	100.0	100.0	100.0
2	*	*	*	0.2	17	12.2	100.0	0.3	0.3
2	*	*	*	0.2	17	12.2	100.0	0.3	0.3

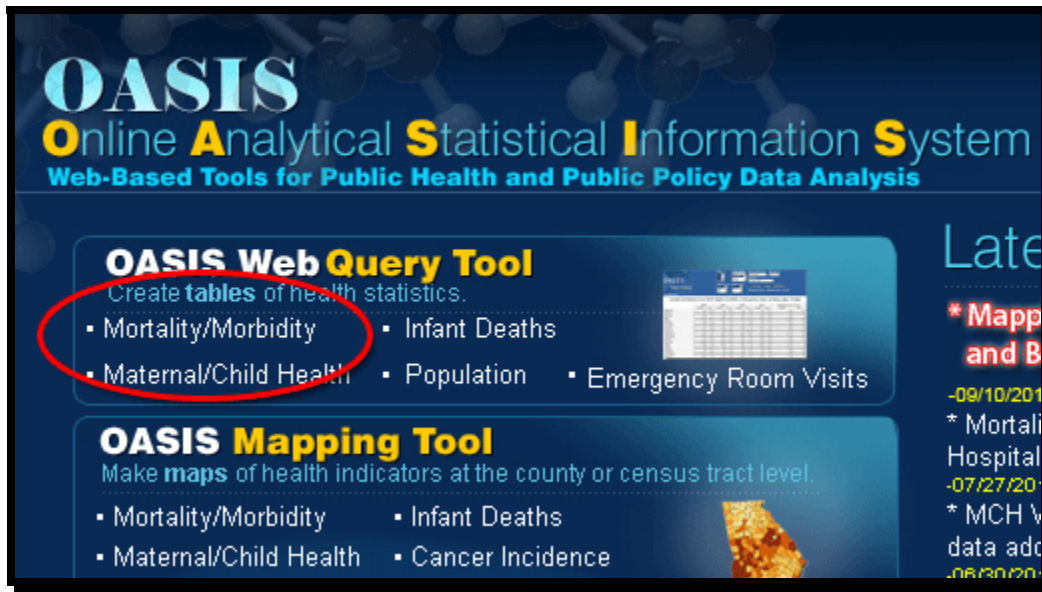
Note that some Rate cells are filled with an asterisk (*). This happens when there are less than 5 events (infant deaths in this case), to prevent unstable/unreliable rates.

You now are able to compare Infant Mortality Numbers and Rates by Year for years 2003-2007, as well as the aggregate of years 2003-2007 together, for Georgia and Appling County.

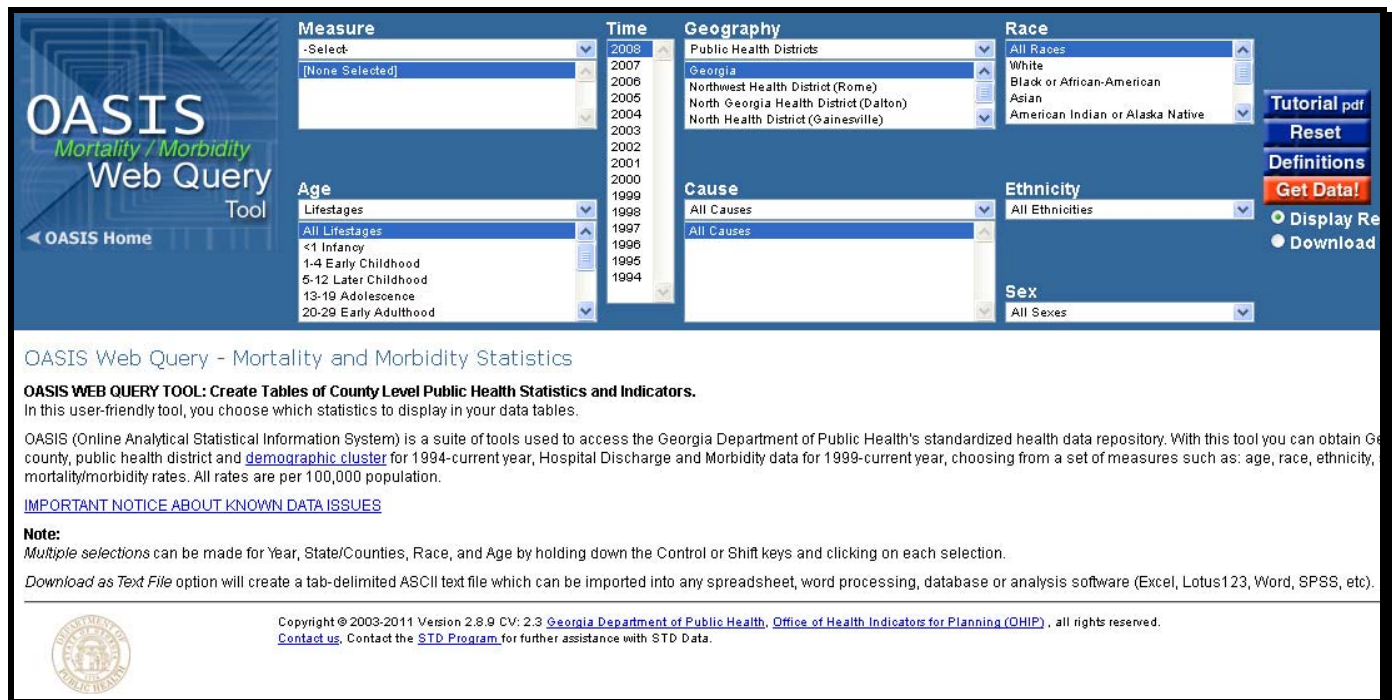
End of Web Query Example 2

Example 3 - What you'll learn: How do I begin to determine whether people in their teenage years are at higher risk of Motor Vehicle Crash deaths as compared to people in their 20's, among rural counties only?

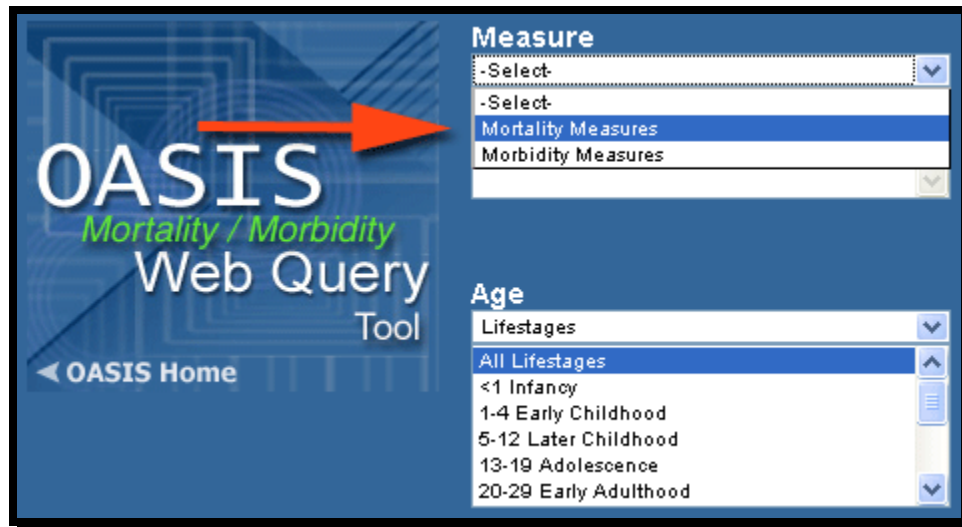
1. Go to OASIS' homepage, <http://oasis.state.ga.us>. Once there, you'll see the screen shown below. Under Web Query Tool, click on "Mortality/Morbidity" as shown below:



2. This will be your next screen (below).



3. First, note that you must select from **Mortality Measures** or **Morbidity Measures**. It's usually a good idea to choose your measure first before the other choices (Years, Race, etc.) Choose **Mortality Measures** and the available choices appear...

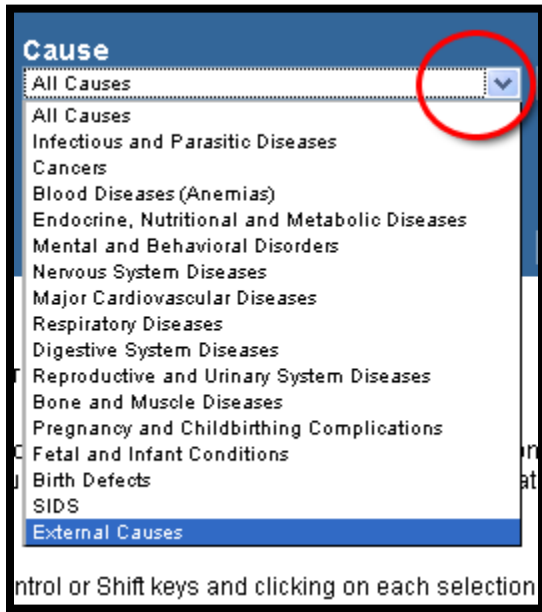


4. Below, you have four **Measures** to choose from. **Years of Potential Life Lost, Age-Adjusted Death Rates, and Standard Mortality Ratios**, in addition to 'crude' death rates (Definitions provided if you click 'Definitions'). Choose **Deaths & Death Rate**.

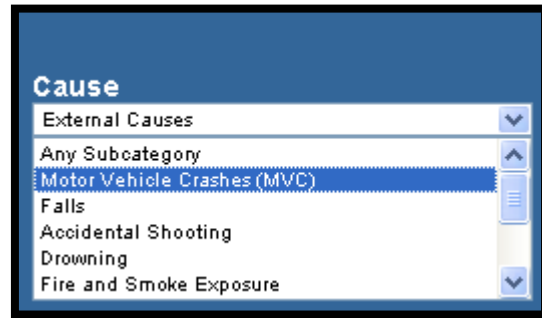


5. Next, choose **Motor Vehicle Accidents** from **External Causes** in the **Cause** list. This is a 2-step process where you choose the ‘parent’ first (External Causes) and then the ‘child’ (Motor Vehicle Crashes).

STEP ONE

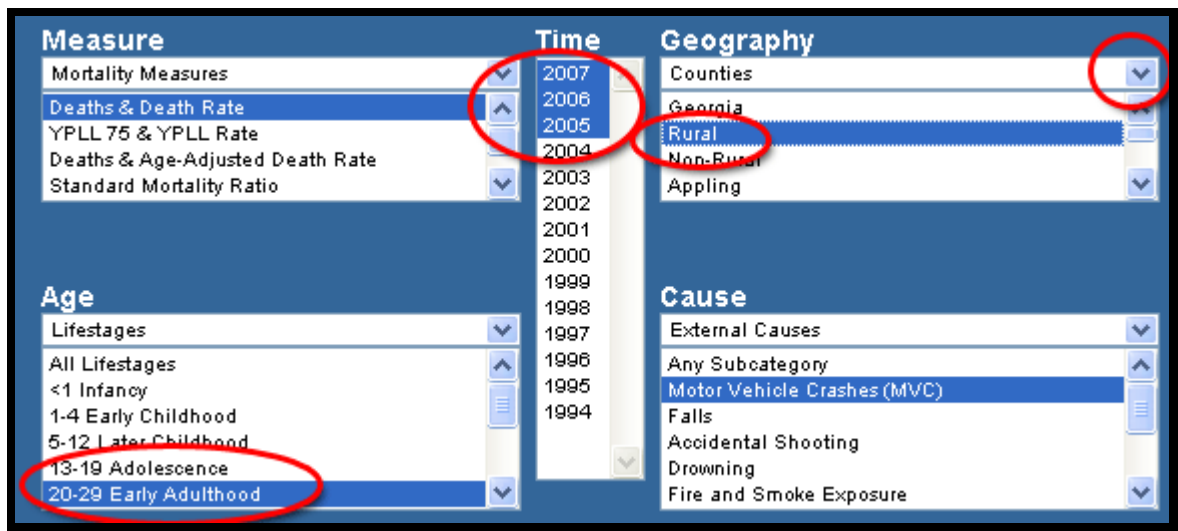


STEP TWO



*(A complete list of all cause categories, including their ICD9 / ICD10 codes, official and ‘layman’ terms, is found when you click the **Definitions** button).*

6. Then select the remaining criteria below: **Age** - choose just the early adulthood age group (20-29) – we’ll repeat this with teenagers later for comparison. **Time** – choose 2005-2007. **Geography** - Rural counties chosen. *When **Geography** is switched from **Public Health Districts** to **Counties** –you have the choice of **Rural** or **Non-Rural** counties.*

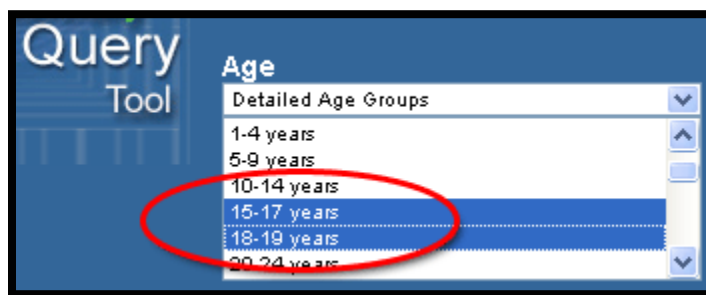


Get Data!

7. With all your criteria selected, click **Get Data!**. Your result will look something like below (the list of counties below is truncated to fit on one screen). The **SELECTED YEARS TOTAL** rate for this age group in rural counties is 38.4 (see Definitions for explaining what 'rural' is).

Deaths & Death Rate, Motor Vehicle Crashes (MVC), Race: All Races, Ages: 20-29 Early Adulthood								
	2005		2006		2007		SELECTED YEARS TOTAL	
	DEATHS	DEATH RATE	DEATHS	DEATH RATE	DEATHS	DEATH RATE	DEATHS	DEATH RATE
Appling	1	*	3	*	1	*	5	67.0
Atkinson	3	*	0	0.0	1	*	4	*
Bacon	2	*	1	*	2	*	5	104.2
Baker	0	0.0	0	0.0	0	0.0	0	0.0
Banks	0	0.0	1	*	2	*	3	*
Ben Hill	0	0.0	2	*	0	0.0	2	*
Berrien	1	*	0	0.0	2	*	3	*
▼	▼	▼	▼	▼	▼	▼	▼	▼
Twiggs	0	0.0	3	*	0	0.0	3	*
Union	0	0.0	2	*	1	*	3	*
Upson	3	*	2	*	1	*	6	53.3
Warren	1	*	0	0.0	0	0.0	1	*
Washington	1	*	1	*	3	*	5	57.9
Wayne	2	*	3	*	0	0.0	5	39.9
Webster	0	0.0	0	0.0	2	*	2	*
Wheeler	0	0.0	0	0.0	0	0.0	0	0.0
White	3	*	0	0.0	1	*	4	*
Wilcox	0	0.0	0	0.0	1	*	1	*
Wilkes	1	*	0	0.0	2	*	3	*
Wilkinson	0	0.0	0	0.0	1	*	1	*
Worth	0	0.0	1	*	1	*	2	*
County Summary	82	33.4	95	37.6	109	44.1	286	38.4

8. To answer the rest of the question – how do teens compare with the 20-29 age group’s rate of 38.4 – you’ll start another query with all the same choices except the age group. Choose **Detailed Age Groups** under **Age**, and you’ll see other age-range choices. Below, **15-19** is chosen.



9. Click **Get Data!**. Skipping down to just the **County Summary**, you’ll see that in rural counties, there were **40.3** deaths per 100,000 aged 15-19, compared with a rate of **38.4** for those aged 20-29.

End of Web Query Example 3

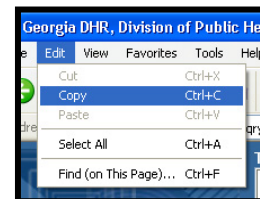
Example 4 - What you'll learn: How to save the Web Query Tool's data table to your computer, for use in Excel or other application.

1. The previous 3 examples displayed your results on the screen. There are times however, when you need to be able to save the information to your computer. This may be because you need to send the information to someone else; insert the information into another document; create charts, etc. The simplest way is to copy the data from the screen into a spreadsheet software program such as Excel.

2. Below is an output from the **Population Data Web Query** – To import the data into a spreadsheet program, do the following: Highlight the table: Place your cursor to the left of the title (“begin” shown below) and, holding the mouse button down, drag your mouse to the bottom of the page (“end”).

	2006	2007	2008	SELECTED YEARS TOTAL
East Metro Health District (Lawrenceville)	11,070	11,982	12,802	35,854
Gwinnett	10,172	10,965	11,726	32,863
Newton	274	330	337	941
Rockdale	624	687	739	2,050
County Summary	11,070	11,982	12,802	35,854

3. You then go to the **Edit** option on the Toolbar at the top of the screen and choose **Copy** (shown at right) (or, **right-click your mouse** and choose Copy).



At this point, you can paste your data table anywhere – Word and Excel both will retain the formatting and shading of the output table. Simply choose Edit, then Paste (or right-click your mouse and Paste). Your results should look like the example at right: →

	2006	2007	2008	SELECTED YEARS TOTAL
East Metro Health District (Lawrenceville)	11,070	11,982	12,802	35,854
Gwinnett	10,172	10,965	11,726	32,863
Newton	274	330	337	941
Rockdale	624	687	739	2,050
County Summary	11,070	11,982	12,802	35,854

End of Web Query Example 4.

Example 5 - What you'll learn: How to interpret the following indicators:
 % WITHIN AREA, % WITHIN STATE, and % STATE POPULATION.

In several OASIS Web Query output tables, you may see other indicators in addition to Numbers and Rates. These indicators can be interpreted as “shares” and are expressed as Percentages. Examples of these indicators by Web Query and Measure follow:

1. Web Query: MATERNAL/CHILD HEALTH

Measure: Births & Birth Rate.

Indicators: % Births Within Area, % Births Within State, % State Population

Using the Maternal/Child Health Web Query, below is a screen shot of the **Births & Birth Rate** Measure. The 3 indicators circled below pertain to **Age** selections, and are interpreted as follows:

	2008				
	BIRTHS	BIRTH RATE	% BIRTHS WITHIN AREA	% BIRTHS WITHIN STATE	% STATE POPULATION
Cobb/Douglas Health District	296	6.5	2.4	5.1	8.6
Cobb	242	6.5	2.3	4.2	7.1
Douglas	54	6.9	2.7	0.9	1.5
County Summary	296	6.5	2.4	5.1	8.6

% BIRTHS WITHIN AREA: 2.4% of all births to residents of the Cobb/Douglas Health District are to females 10-17 years of age. “Within Area” in this case refers to the Cobb/Douglas Public Health District. The denominator is All Births (any age) in the District.

% BIRTHS WITHIN STATE: 5.1% of all births in Georgia aged 10-17 are residents of the Cobb/Douglas district. The denominator is All Births (10-17) in the State.

% STATE POPULATION: 8.6% of all females aged 10-17 in the state reside in the Cobb/Douglas district. The denominator is All Females (10-17) in the State.

Discussion

This 3rd indicator (% State Population) provides some context to the % Births Within State indicator: The District accounts for 5.1% of all state births to 10-17 year olds, but 8.6% of all females aged 10-17. Other areas of the state however account for a higher proportion of *births* than *female population*, indicating a ‘disproportionate share.’

The first indicator, % Births Within Area, provides additional information that helps put counts and rates into perspective.

Other uses of these types of indicators are found throughout the Web Queries. Examples follow:

2. Web Query: MATERNAL/CHILD HEALTH

Measure: Low Birthweight Births & Percent.

Indicators: % LBW Within State, % Births Within State.

Low Birthweight (LBW) Births (<2500 grams) & Percent, Race: All Races, Ages: All Mothers Ages

	2008			
	BIRTHS	% LBW	% LBW WITHIN STATE	% BIRTHS WITHIN STATE
Cobb/Douglas Health District	1,032	8.2	7.4	8.6
Cobb	869	8.3	6.2	7.2
Douglas	163	8.1	1.2	1.4
County Summary	1,032	8.2	7.4	8.6

% LBW WITHIN STATE: 7.4% of all low birthweight births in the State are from residents of the Cobb/Douglas Health District.

% BIRTHS WITHIN STATE: 8.6% of all births in the State (total births, any birthweight) are from residents of the Cobb/Douglas Health District.

3. Web Query: INFANT DEATHS

Measure: Infant Mortality Rate

Indicators: % Within Area, % Within State, % Births Within State.

The screenshot shows the OASIS Web Query Tool interface. The 'Measure' dropdown is set to 'Infant Deaths & Infant Mortality Rate'. The 'Time' dropdown is set to '2007'. The 'Geography' dropdown is set to 'Georgia'. The 'Cause' dropdown is set to 'SIDS'. Below the filters is a table titled 'Infant Deaths & Infant Mortality Rate (IMR), SIDS, Race: All Races' for the year 2007. The table has columns for DEATHS, IMR, % WITHIN AREA, % WITHIN STATE, and % BIRTHS WITHIN STATE. The rows are Georgia, DeKalb, and County Summary. The values for % WITHIN AREA, % WITHIN STATE, and % BIRTHS WITHIN STATE are circled in red in the original image.

	2007				
	DEATHS	IMR	% WITHIN AREA	% WITHIN STATE	% BIRTHS WITHIN STATE
Georgia	144	1.0	12.0	100.0	100.0
DeKalb	14	1.2	13.5	9.7	8.0
County Summary	14	1.2	13.5	9.7	8.0

For the Infant Deaths & Infant Mortality Rate Measure, these 3 indicators pertain to **Cause** selections, and are interpreted as follows:

% WITHIN AREA: 12.0% of all infant deaths in Georgia are from SIDS.

% WITHIN STATE: 9.7% of all SIDS deaths in Georgia are from DeKalb County. (Note that the value of 100% for Georgia is essentially saying “of all SIDS deaths in Georgia, 100% are in Georgia.”)

% BIRTHS WITHIN STATE: 8.0% of all births in the State are residents of DeKalb county.

4. Web Query: MORTALITY/MORBIDITY

Measure: Deaths & Percent of Deaths

Indicators: % Within Area, % Within State, % State Population

	DEATHS	2007		
		% WITHIN AREA	% WITHIN STATE	% STATE POPULATION
East Metro Health District (Lawrenceville)	119	2.8	7.1	10.0
Gwinnett	84	2.8	5.0	8.1
Newton	19	3.0	1.1	1.0
Rockdale	16	2.7	1.0	0.9
County Summary	119	2.8	7.1	10.0

For the Deaths & Percent of Deaths Measure, these 3 indicators pertain to **Cause** selections, and are interpreted as follows:

% WITHIN AREA: 2.8% of all deaths in Gwinnett County are from Motor Vehicle Crashes.

% WITHIN STATE: 5.0% of all Motor Vehicle Crash deaths in Georgia are Gwinnett County residents.

% STATE POPULATION: 8.1% of the total State population resides in Gwinnett county.

Final Note:

Each column heading has a mouse-over that provides a short definition for quick reference.

Contact:

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DEATHS	% WITHIN AREA	% WITHIN STATE	% STATE
119	2.8	7.1	
84			
19			
16			
119			

Proportional Mortality Ratio (PMR): [The number of deaths in a cluster, county or district for a selected cause / The number of deaths in a cluster, county or district for all causes] * 100. Example: In 1994 the Dalton Health District had 22.4% of deaths due to cancers.

indicate that no population or events exist for the measure selected.