

# FLHealthCHARTS:

## *Community Health Improvement Planning*

- Please dial in for audio
    - 1-877-309-2071
    - Access Code: 532-398-313
- 

DIVISION OF PUBLIC HEALTH STATISTICS AND  
PERFORMANCE MANAGEMENT

BUREAU OF COMMUNITY HEALTH ASSESSMENT



Florida Department of Health

# Using CHARTS for the Community Health Improvement Process

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DIVISION OF PUBLIC HEALTH STATISTICS AND  
PERFORMANCE MANAGEMENT

BUREAU OF COMMUNITY HEALTH ASSESSMENT

# “What, Why, How, and When”

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- Creates a context for action planning and interventions
- Maximizes impact
- Creates vertical and horizontal cohesion
  - “traditional” and “non-traditional” partners
- Over time, it makes health improvement planning instinctual

# The Nature of Data

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- Multiple characteristics
- Varying degrees of impact
- Affects us personally and professionally
- Informs Public Health practice

# Why CHARTS?

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- Two-fold question
  - Why does CHARTS exist?
  - Why should it be your “go-to” health improvement planning tool?
- One less challenge for health improvement planner

# Community Health Assessment Resource Tool Set

## VISION:

Community-focused  
Health statistics  
Available to everyone  
which are  
Relevant,  
Timely and  
Statistically sound.

FLORIDA DEPARTMENT OF HEALTH Division of Public Health Statistics & Performance Management

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What are you looking for?

# FLHealthCHARTS

## Community Health Assessment Resource Tool Set

*Powered by Florida's Bureau of Vital Statistics*

### COMMUNITY TOOLS

- Community Map
- Behavioral Risk Factor Data

### COUNTY PROFILES

- Health Summaries
- Healthiest Weight
- Minority Health
- Population-Specific

### HEALTH INDICATORS

- Reportable & Infectious Diseases
- Chronic Diseases
- Maternal & Child Health
- Environmental Health
- Injury & Violence
- Social & Mental Health
- Health Resources Availability
- Population Characteristics

### DATA QUERIES

- Births: Counts | Rates
- Deaths: Counts | Rates
- Infant Deaths: Counts | Rates
- Fetal Deaths
- Marriages: Counts | Rates
- Marriage Dissolution: Counts | Rate
- Population Estimates
- Reportable Diseases

### ATLASES

- Population Atlas
- Birth Atlas

### Current Features

#### June is Men's Health Month

We celebrate National Men's Health Month to heighten the awareness of preventable health problems, promote healthy living, and encourage early detection and treatment of disease among men and boys. Show your support by wearing blue on the Friday before Father's Day. Lead by example. Eat right, exercise daily and visit the doctor regularly. Set a healthy example for your kids and family.

[Read more...](#)

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### COMMUNITY SPOTLIGHT

#### HIV Prevention Program Launches New Minority Media Campaign



The HIV Prevention Program launched its new statewide minority media campaign May 1. The campaign theme is "Protect Yourself". Components of the campaign include broadcast radio, digital/mobile advertising, out-of-home advertising (billboards, for example), a new website, social media and public outreach events.

### CHARTS Quick Facts

Men's age adjusted homicide by firearms death rate at 8.2 per 100,000 was more than six times that of women at 1.3 per 100,000 in 2015

[Read more...](#)

### Did You Know?

Behavioral Risk Factor Surveillance data can be filtered for men and women using the "Select Dimension" option

### Most Viewed Indicators

1. Births by Mothers Age
2. AIDS cases
3. Chlamydia Cases
4. Deaths from Heart Diseases
5. Gonorrhea Cases
6. Deaths From Unintentional Drowning
7. Adults Who are Current Smokers.
8. Deaths from Diabetes
9. Deaths from Cervical Cancer

### Special Reports

- Statistical Briefs
- Analytic Reports

# Many data sources provide annual updates to CHARTS

From AHCA to WIC and lots in between!

- More than 30 different programs provide the data that is in CHARTS.
- There are over 3,700 health indicators!

Data is updated annually throughout the year as the data becomes available

- Most data is final
- Query systems show provisional data for the current year.

*Easy access to data for community health assessments!*



# Methodology for CHARTS Data

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- What type of data is available on CHARTS?
- Why can't I see data for certain indicators in my county?
- How often is the data updated?



# How to navigate through CHARTS: Homepage Features

## Toolbar

- Search box – enter a search term
- Get tutorials
- Send a question with FEEDBACK

## Navigation

- Community Tools
- County Profiles
- Health indicators by topic
- Data queries
- Atlases

## Health Observances

- Monthly health observances
- Community stories

## Featured Programs and Facts

- Health initiatives
- Most viewed indicators
- Quick facts, Did You Know?

## What's New?

- Features and data updates

The screenshot shows the FLHealthCHARTS homepage. At the top, the header includes the Florida Department of Health logo, a search bar, and a 'Toolbar' callout. The main banner features the 'FLHealthCHARTS' logo and the text 'Community Health Assessment Bureau of Vital Statistics'. A 'Featured Programs and Facts' callout points to the main content area. On the left, a 'Navigation' callout points to the sidebar menu. The sidebar menu is organized into sections: 'COMMUNITY TOOLS' (Community Map, Behavioral Risk Factor Data), 'COUNTY PROFILES' (Health Summaries, Healthiest Weight, Minority Health, Population-Specific), 'HEALTH INDICATORS' (Reportable & Infectious Diseases, Chronic Diseases, Maternal & Child Health, Environmental Health, Injury & Violence, Social & Mental Health, Health Resources Availability, Population Characteristics), 'DATA QUERIES' (Births: Counts | Rates, Deaths: Counts | Rates, Infant Deaths: Counts | Rates, Fetal Deaths, Marriages: Counts | Rates, Marriage Dissolution: Counts | Rate, Population Estimates, Reportable Diseases), and 'ATLASES' (Population Atlas). The main content area has a 'Current Features' section titled 'June is Men's Health Month' with a 'Read more..' link. Below this is a 'COMMUNITY SPOTLIGHT' section titled 'HIV Prevention Program Launches New Minority Media Campaign' with an image of three people and a 'Read more..' link. On the right, there are sections for 'CHARTS Quick Facts' (Men's age adjusted homicide by firearms death rate), 'Did You Know?' (Behavioral Risk Factor Surveillance data), 'Most Viewed Indicators' (a list of 9 indicators), and 'Special Reports' (Statistical Briefs, Analytic Reports). A 'Health Observances and Community Stories' callout points to the 'Current Features' and 'COMMUNITY SPOTLIGHT' sections.

FLORIDA DEPARTMENT OF HEALTH Division of Public Health Statistics & Performance Management

Home | Site Search | CHARTS Tutorials | Feedback

What are you looking for?

Toolbar

FLHealthCHARTS

Community Health Assessment Bureau of Vital Statistics

Featured Programs and Facts

Navigation

COMMUNITY TOOLS

- Community Map
- Behavioral Risk Factor Data

COUNTY PROFILES

- Health Summaries
- Healthiest Weight
- Minority Health
- Population-Specific

HEALTH INDICATORS

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Read more..

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Read more..

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9. Deaths from Cervical Cancer

Special Reports

- Statistical Briefs
- Analytic Reports

Health Observances and Community Stories

# Navigation

- Community Tools
- County Profiles
- Data Queries
- Health Indicators
- Atlases

Community tools provide BRFSS county and state-level data, as well as, zip code specific birth and death data in the Community Map.

Profiles display a summary of multiple issue-specific health indicators.

A health indicator is any characteristic that can be measured (directly or indirectly) and used to describe one or more aspects of the health of an individual or a population.

Query Systems provide flexibility and variety of data to FLHealthCHARTS users.

The population, birth, and mortality atlases provide a collection of visual displays of data, including trends over time and maps. These atlases are updated on an annual basis.

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Behavioral Risk Factor Data

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## ATLASES

Population Atlas  
Birth Atlas  
Mortality Atlas

## Current

### June is M

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blue on the  
and visit th

## COMMUN

### HIV Preve



(billboards, fi  
Check it out

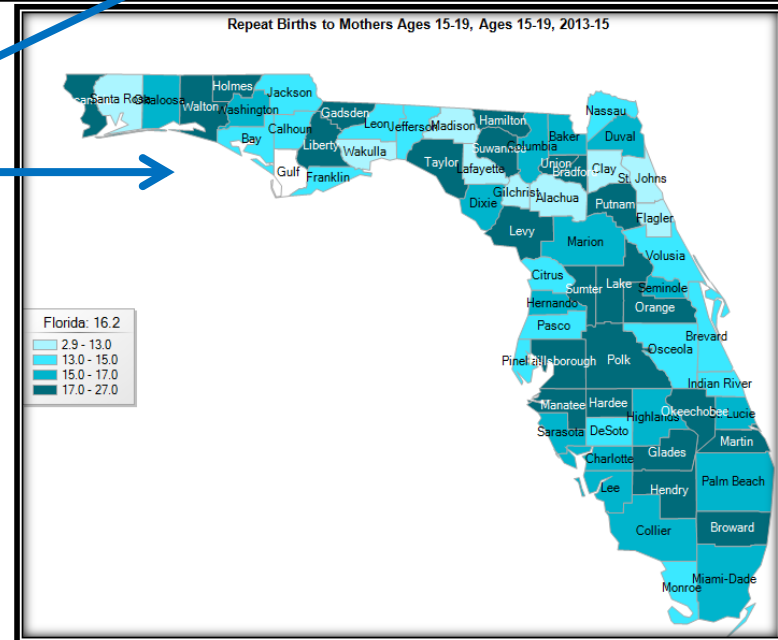
# Quartiles show strengths and opportunities

- Low quartile numbers represent favorable health situations – green on a report or light colored on the map.
- High quartile numbers represent less favorable situations – red on a report or dark colored on the map.
- What if no quartile is shown?
  - not enough data is available to calculate them
  - OR
  - quartile calculation is not appropriate (i.e. population counts).

Quartile 1 = favorable compared to other counties in Florida

Non-Hispanic female population ages 15-44	Count	2015		56,748	2,599,027
<b>Birth Family Characteristics</b>					
Births to mothers ages 15-19	Per 1,000 females 15-19	2013-15	1	144	11.4
Repeat births to mothers ages 15-19	Percent of births 15-19	2013-15	1	18	12.8%
Births to mothers >35	Per 1,000 females > 35	2013-15	4	320	5.5
Total births to unwed mothers	Percent of births	2013-15	1	1,218	42.4%
Births among unwed mothers ages 15-19	Percent of births 15-19	2013-15	4	133	92.6%
Births among unwed mothers ages 20-54	Percent of births 20-54	2013-15	1	1,083	39.7%
Births with father acknowledged on birth certificate	Percent of births	2013-15	2	2,478	86.2%
Births to mothers >18 without high school education	Percent of births >18	2013-15	1	229	8.2%
Births to mothers born in other countries	Percent of births	2013-15	2	443	15.4%
<b>Pre-conception Health and Behaviors</b>					
Females >17 who engage in heavy or binge drinking	Percent of females > 17	2013	3		13.4%
Women 15-34 with sexually transmitted disease	Per 100,000 females 15-34	2015	5	1,682	3256.3

Examples

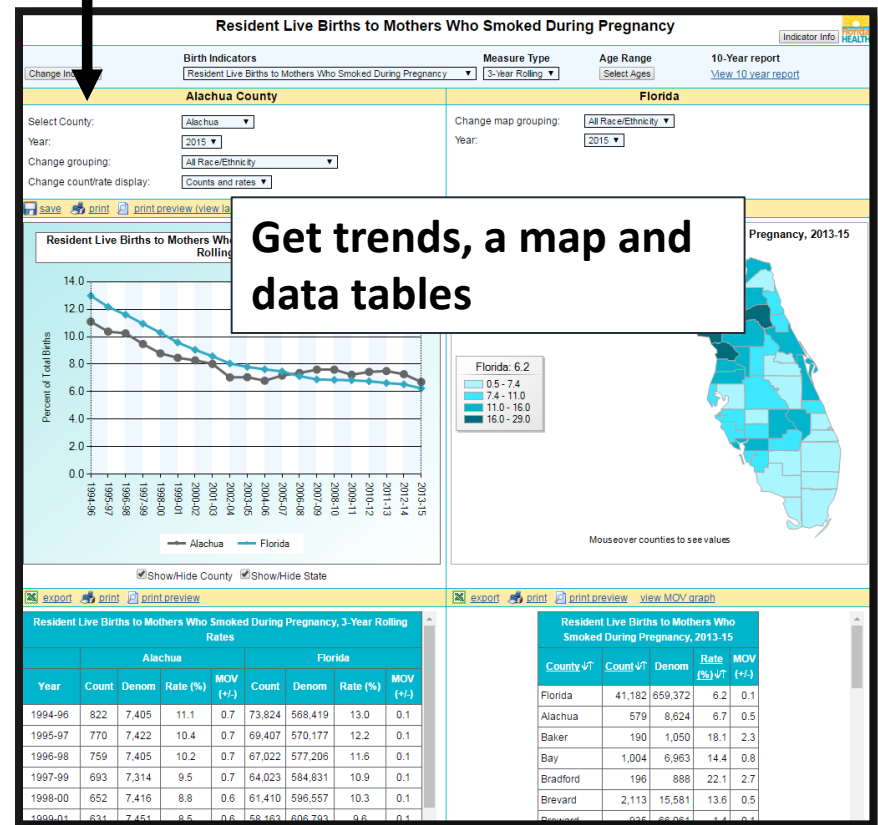


Lightest color on the map = favorable compared to other counties in Florida

Click on a measure -- see its health indicator page

Click on a measure...

<a href="#">Listeriosis in women 15-44</a>	Per 100,000 Female Population 15-44	2013-15		0	0.0
<a href="#">Varicella in women 15-44</a>	Per 100,000 Females 15-44	2013-15		3	1.6
<b>Pregnancy and Health Behaviors</b>					
<a href="#">Births to mothers who report smoking during pregnancy</a>	Percent of births	2013-15	1	193	6.7%
<a href="#">Hepatitis B surface antigen in pregnant women</a>	Per 100,000 Females 15-44	2013-15		28	14.5
<b>Access to Services</b>					
<b>Well-Woman/Pre-conception care</b>					
<a href="#">Females &gt;17 with pap smear in preceding year</a>	Percent of females > 17	2013	4		36.7%
<a href="#">Females &gt;17 who have a personal doctor</a>	Percent of females > 17	2013	4		75.5%
<a href="#">Females &gt;17 who have any type of health care insurance coverage</a>	Percent of females > 17	2013	4		86.4%



Click "Births to mothers who smoked during pregnancy" for a detailed view of this measure.

# Customize your view of an indicator

Options vary by of indicator. Here are some features:

1. Change indicators
2. Change the measure type (single, multi-year)
3. Select specific ages
4. Get a 10-year report
5. Select a county
6. Select a race/ethnicity group
7. Find out more about the indicator
8. Sort the columns
9. See the Measure of Variability Graph

**Births by Mothers Age**

Indicator Info **7**

Change Indicator **1** Birth Indicators Births by Mothers Age Measure Type **2** Single Year Age Range **3** Select Ages 10-Year report **4** View 10 year report

Select County: **5** Alachua County Year: 2015 Change grouping: All Race/Ethnicity Change count/rate display: Counts and rates

Change map grouping: All Race/Ethnicity Year: 2015 **6**

save print print preview (view large)

**Births by Mothers Age, Single Year Rates**

Rate Per 1,000 Total Population

— Alachua — Florida

☒ Show/Hide County ☒ Show/Hide State

export (Help) print print preview

**Births by Mothers Age, 2015**

Florida: 11.3

4.2 - 9.2  
9.2 - 10.0  
10.0 - 11.0  
11.0 - 17.0

Mouseover counties to see values

export (Help) print print preview MOV graph

**Births by Mothers Age, Single Year Rates**

Year	Alachua				Florida			
	Count	Denom	Rate	MOV (+/-)	Count	Denom	Rate	MOV (+/-)
2015	2,885	253,752	11.4	0.4	224,273	19,880,805	11.3	0.0
2014	2,916	250,897	11.6	0.4	219,905	19,548,031	11.2	0.0
2013	2,823	247,989	11.4	0.4	215,194	19,318,859	11.1	0.0
2012	2,879	248,070	11.6*	0.4	212,954	19,042,458	11.2	0.0
2011	2,980	247,403	12.0*	0.4	213,237	18,934,175	11.3	0.0
2010	2,886	247,869	11.6	0.4	214,519	18,820,280	11.4	0.0
2009	2,925	246,489	11.9	0.4	221,391	18,711,844	11.8	0.0
2008	2,980	244,864	12.2	0.4	231,417	18,838,837	12.4	0.1
2007	2,849	242,215	11.8*	0.4	239,120	18,500,958	12.9	0.1
2006	2,837	238,704	11.9*	0.4	237,188	18,237,596	13.0	0.1
2005	2,890	233,859	12.4*	0.4	228,219	17,876,663	12.7	0.1

**Births by Mothers Age, 2015**

County	Count	Denom	Rate	MOV (+/-)
Florida	224,273	19,880,805	11.3	0.0
Alachua	2,885	253,752	11.4	0.4
Baker	336	27,484	12.2	1.3
Bay	2,396	172,973	13.9*	0.6
Bradford	294	27,715	10.6	1.2
Brevard	5,246	559,020	9.4*	0.3
Broward	22,307	1,821,974	12.2*	0.2
Calhoun	150	14,595	10.3	1.8
Charlotte	1,030	188,508	8.2*	0.4
Citrus	1,017	142,942	7.1*	0.4
Clay	2,225	202,859	11.0	0.5

**8** **9**

FloridaCHARTS.com is provided by the Florida Department of Health, Division of Public Health Statistics & Performance Management. 8/28/2017 10:38 AM

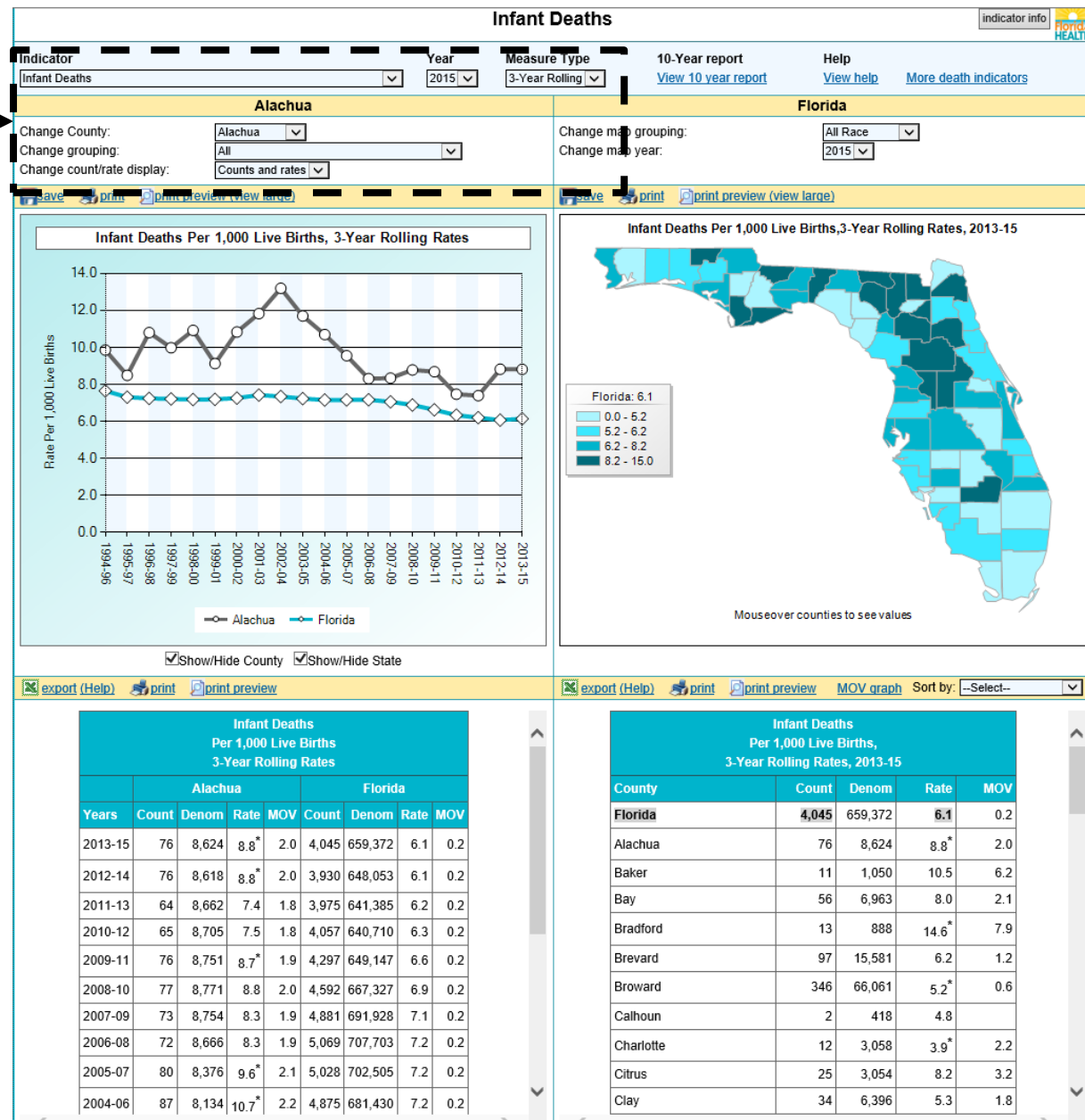
Data Source: Florida Department of Health, Bureau of Vital Statistics

Data Note(s) **7**

- When Births by Mothers Age is selected as the indicator and all ages is selected, the rate displayed is the crude birth rate (i.e., total births divided by total population per 1,000 population).

# Top selections control the whole page

- Indicator
- Year
- Measure type





# Trend Data

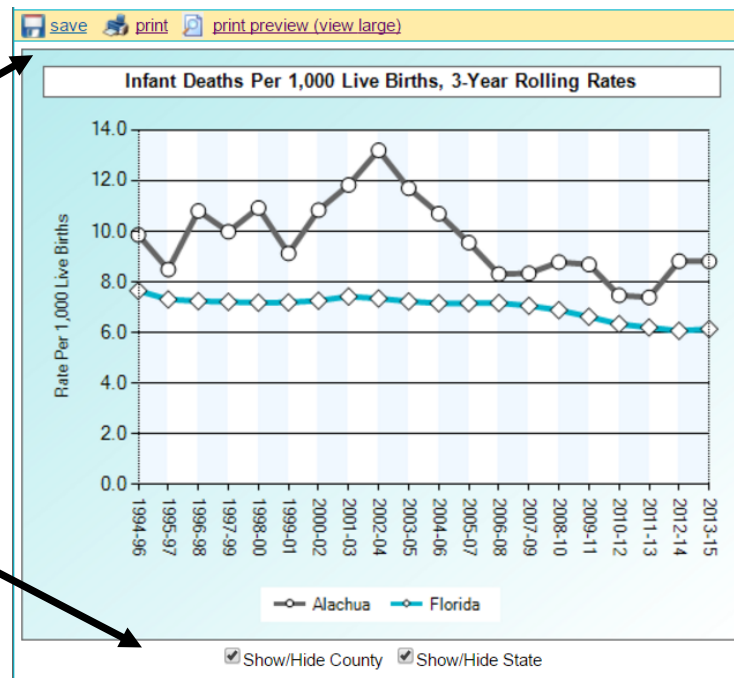
Save, print or print preview the graph

Show or hide a trend line by checking the boxes below the graph

Export data to excel

Print or print preview the data table

Rates followed by \* indicate the county rate is statistically different from the state's



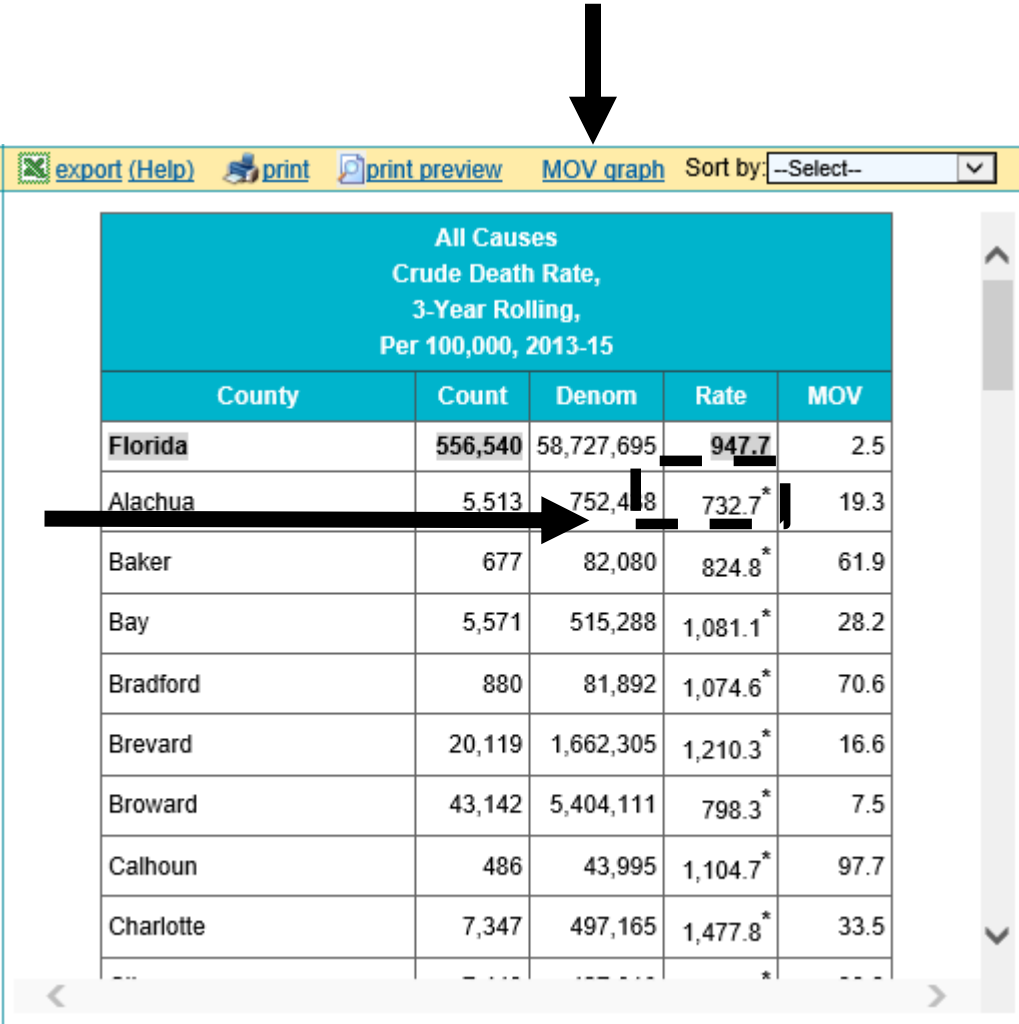
Infant Deaths Per 1,000 Live Births 3-Year Rolling Rates								
Years	Alachua				Florida			
	Count	Denom	Rate	MOV	Count	Denom	Rate	MOV
2013-15	76	8,624	8.8*	2.0	4,045	659,372	6.1	0.2
2012-14	76	8,613	8.8*	2.0	3,930	648,053	6.1	0.2
2011-13	64	8,662	7.4	1.8	3,975	641,385	6.2	0.2
2010-12	65	8,703	7.5	1.8	4,057	640,710	6.3	0.2
2009-11	76	8,751	8.7*	1.9	4,297	649,147	6.6	0.2
2008-10	77	8,771	8.8	2.0	4,592	667,327	6.9	0.2
2007-09	73	8,754	8.3	1.9	4,881	691,928	7.1	0.2
2006-08	72	8,666	8.3	1.9	5,069	707,703	7.2	0.2
2005-07	80	8,376	9.6*	2.1	5,028	702,505	7.2	0.2
2004-06	87	8,134	10.7*	2.2	4,875	681,430	7.2	0.2

# Is a County's Rate Different than the State's?

If it is statistically different, it is marked with \*

Click to see a graph of the variation

*Measure of Variability is called MOV in CHARTS*



export (Help) print print preview **MOV graph** Sort by: --Select--

**All Causes  
Crude Death Rate,  
3-Year Rolling,  
Per 100,000, 2013-15**

County	Count	Denom	Rate	MOV
<b>Florida</b>	<b>556,540</b>	58,727,695	<b>947.7</b>	2.5
Alachua	5,513	752,418	732.7*	19.3
Baker	677	82,080	824.8*	61.9
Bay	5,571	515,288	1,081.1*	28.2
Bradford	880	81,892	1,074.6*	70.6
Brevard	20,119	1,662,305	1,210.3*	16.6
Broward	43,142	5,404,111	798.3*	7.5
Calhoun	486	43,995	1,104.7*	97.7
Charlotte	7,347	497,165	1,477.8*	33.5
...	...	...	...	...

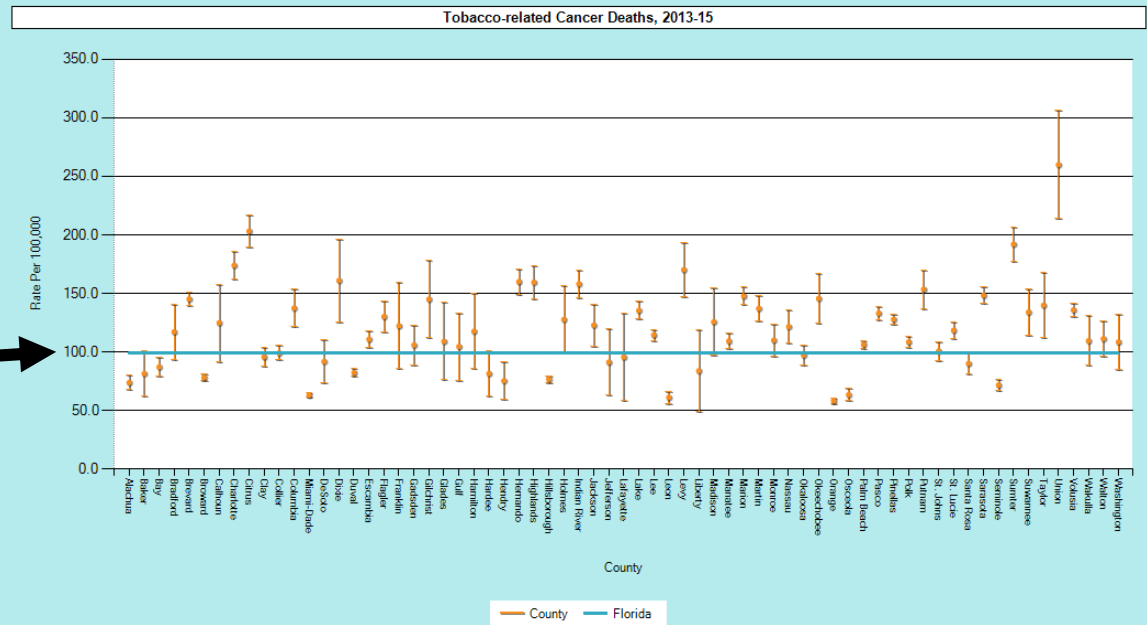


Graphs illustrate variation from the state rate

# MOV = Measure of Variability

State rates are represented by a flat, blue line.

County rates are represented by dots, and the MOV is represented by the end bars.



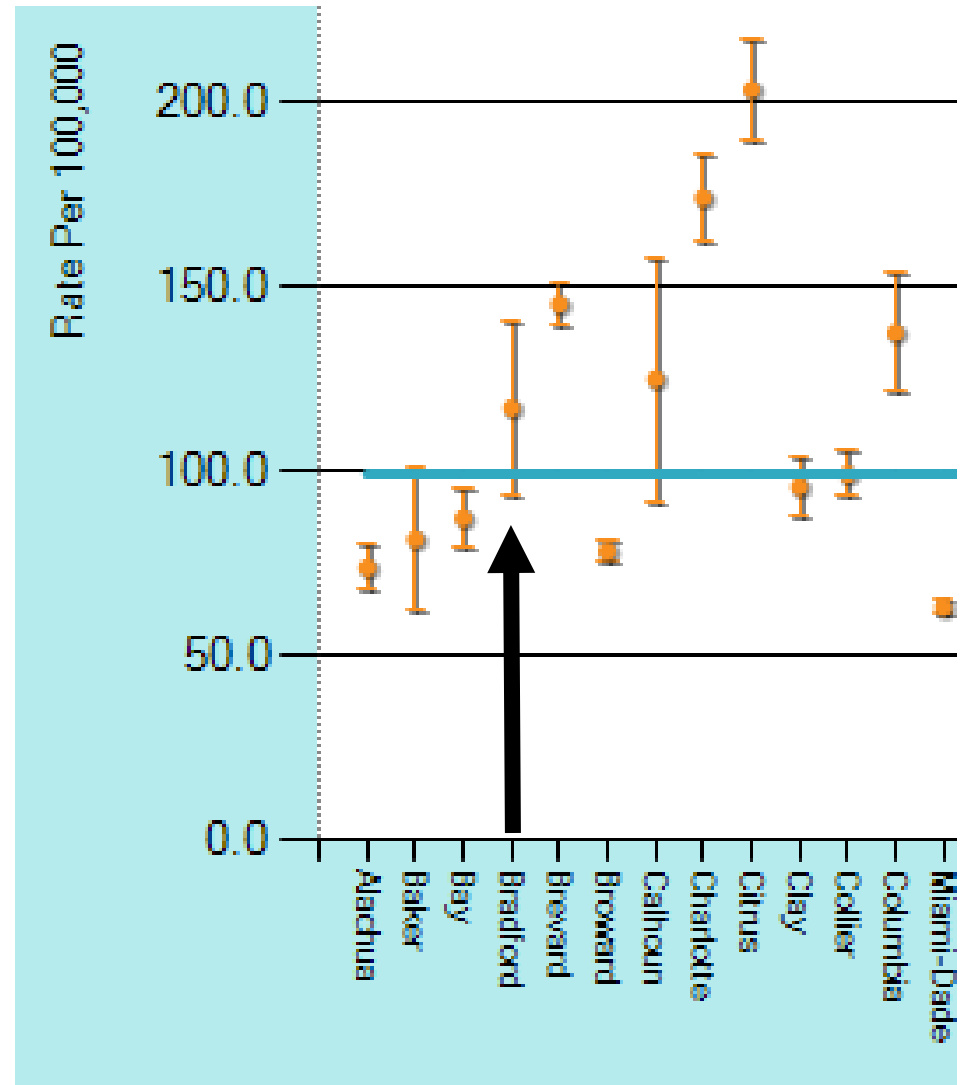
## Data Note(s)

- The dots on the graph indicate the county statistic and the vertical lines indicate the county statistic plus and minus the MOV (measure of variability). The MOV is the probable range of values resulting from random fluctuations in the number of events.
- Only counties with a calculated MOV appear on the graph. The MOV is not calculated when the numerator is below 5 or the denominator is below 20 because the statistical formulas are not valid for very low numbers.
- The MOV is useful for comparing rates to a goal or standard. For example, if the absolute difference between the county rate and the statewide rate is less than the MOV, the county rate is not significantly different from the statewide rate (alpha level = 0.05). When the absolute difference between the county rate and the statewide rate is greater than the MOV, the county rate is significantly different from the statewide rate. MOV should not be used to determine if the rates of two different counties, or the county rates for two different years, are statistically significantly different.

# Importance of MOV

- Without the MOV it is harder to determine whether a difference from the state rate is valid.
- For example, in this example, Bradford County's rate might seem much higher than the statewide rate.
- However, the MOV range indicates that random chance could have caused the rate to be higher than the state rate. Because the MOV range includes the state rate, we know it is not significantly higher.

Significance is tested at the 95% confidence level.



# What are we looking at/for?

- Goals
  - Create a context for action
  - Instinctual
- Create a frame of reference
- Not an introduction to a new concept

## HEALTH INDICATORS

Reportable & Infectious Diseases

Chronic Diseases

Maternal & Child Health

Environmental Health

Injury & Violence

Social & Mental Health

Health Resources Availability

Population Characteristics



### Find an indicator

You may find an indicator alphabetically using the [A-Z I](#)

--Select Population Characteristics Category--

Economic Data

Education Data

Housing Data

Population Data

Poverty Data



### More CHARTS report views

» [Florida Population Atlas](#)

# Social Determinants of Health

Access

Transportation

Food Security

Community Safety

Built Environment

Family and Social  
Support

Housing

Income &  
Employment

## HEALTH INDICATORS

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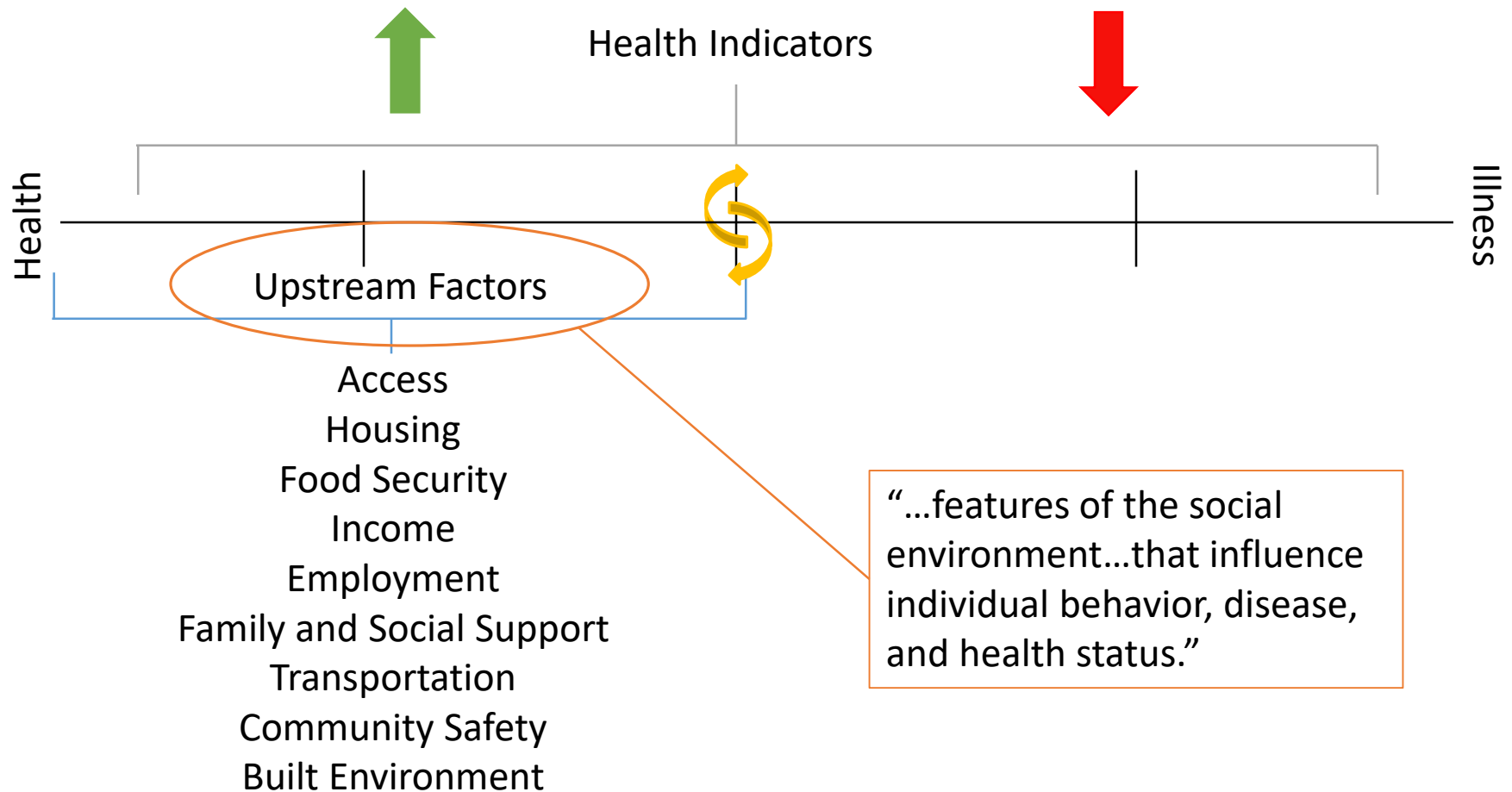
More CHARTS report views

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# Health Indicators and the Social Determinants of Health

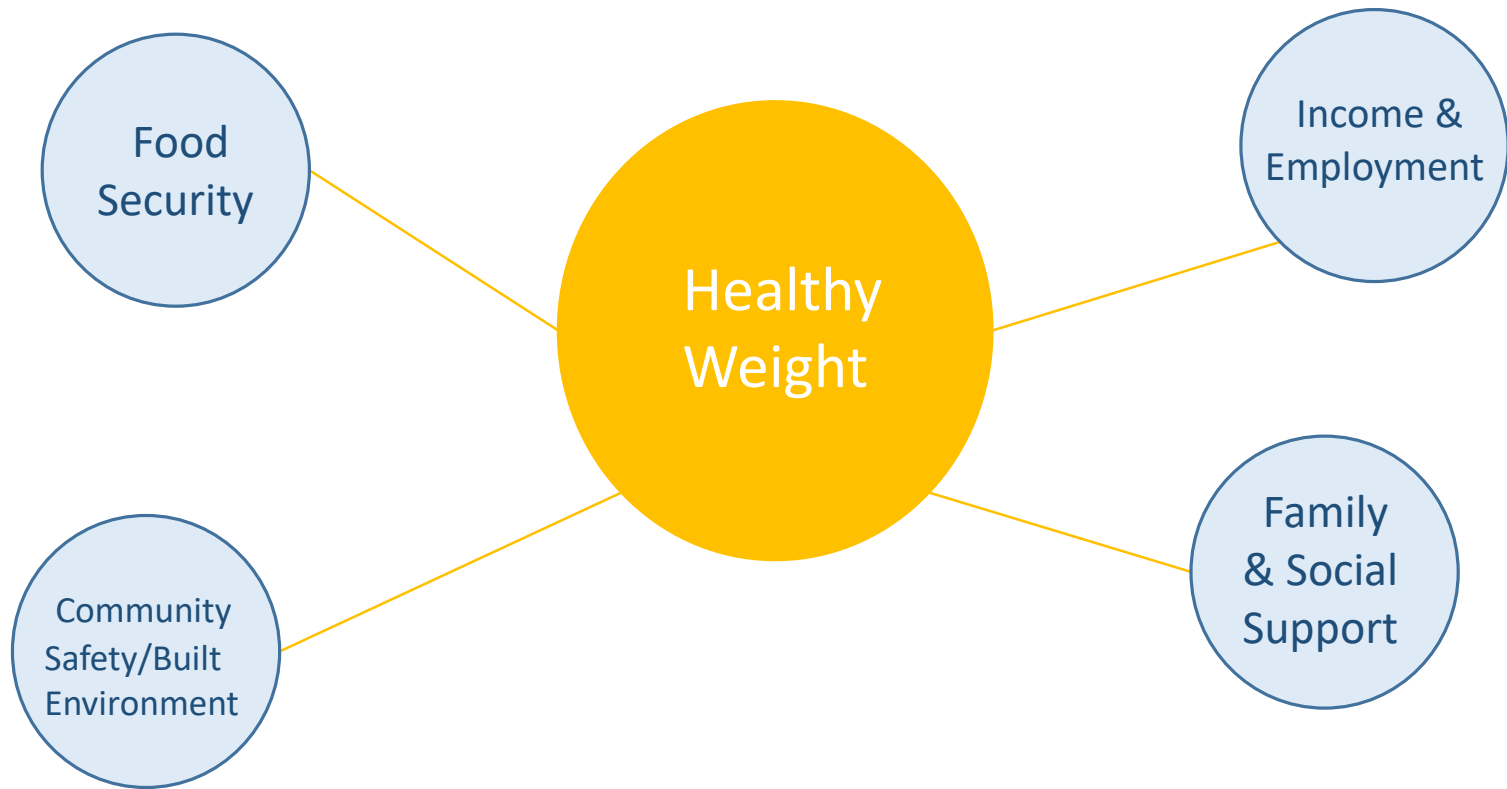
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- Importance of understanding what health indicators are communicating
  - Measurement type
  - Aspects of health that are being measured and their implications
- Understanding how the two correlate allows for
  - Goals, strategies, and objectives to be developed from an “upstream” lens
  - Cross-cutting interventions that increase return of investment



# Most Common CHIP Priority Area

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# Social Determinants of Health and related Health Indicators

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- **Food Security**
  - Children in Pre-K eligible for free/reduced lunch
  - Household receiving food stamps
- **Community Safety/Built Environment**
  - Percent of workers who use public transportation
  - Adults who reduced or changed outdoor activity because the air quality was bad
- **Income and Employment**
  - Percentage of civilian labor force which is unemployed
  - Unemployment Rate
  - Median household income
- **Family and Social Support**
  - Average number of days where poor mental or physical health interfered with activities of daily living in the past 30 days (Among adults who have had at least one day of poor mental or physical health)
  - Percentage of Families with Female Householder (No Husband Present) Below Poverty Level



# When do we incorporate the data?

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- During the health improvement process
  - Community Health Assessment (CHA)
    - “Stand-alone” data
      - E.g. demographic data gathered for the *Community Health Status Assessment*
    - “Supporting/Contradictory” data
      - refers to data that supports or contradicts qualitative data collected
      - points to an actual need or the need for increased awareness of and access to interventions/services that already exists
  - County Health Improvement Plan (CHIP)
    - Developing goals, strategies, and objectives
      - Identifying priority areas
      - Identifying baselines and setting targets
      - Annual tracking

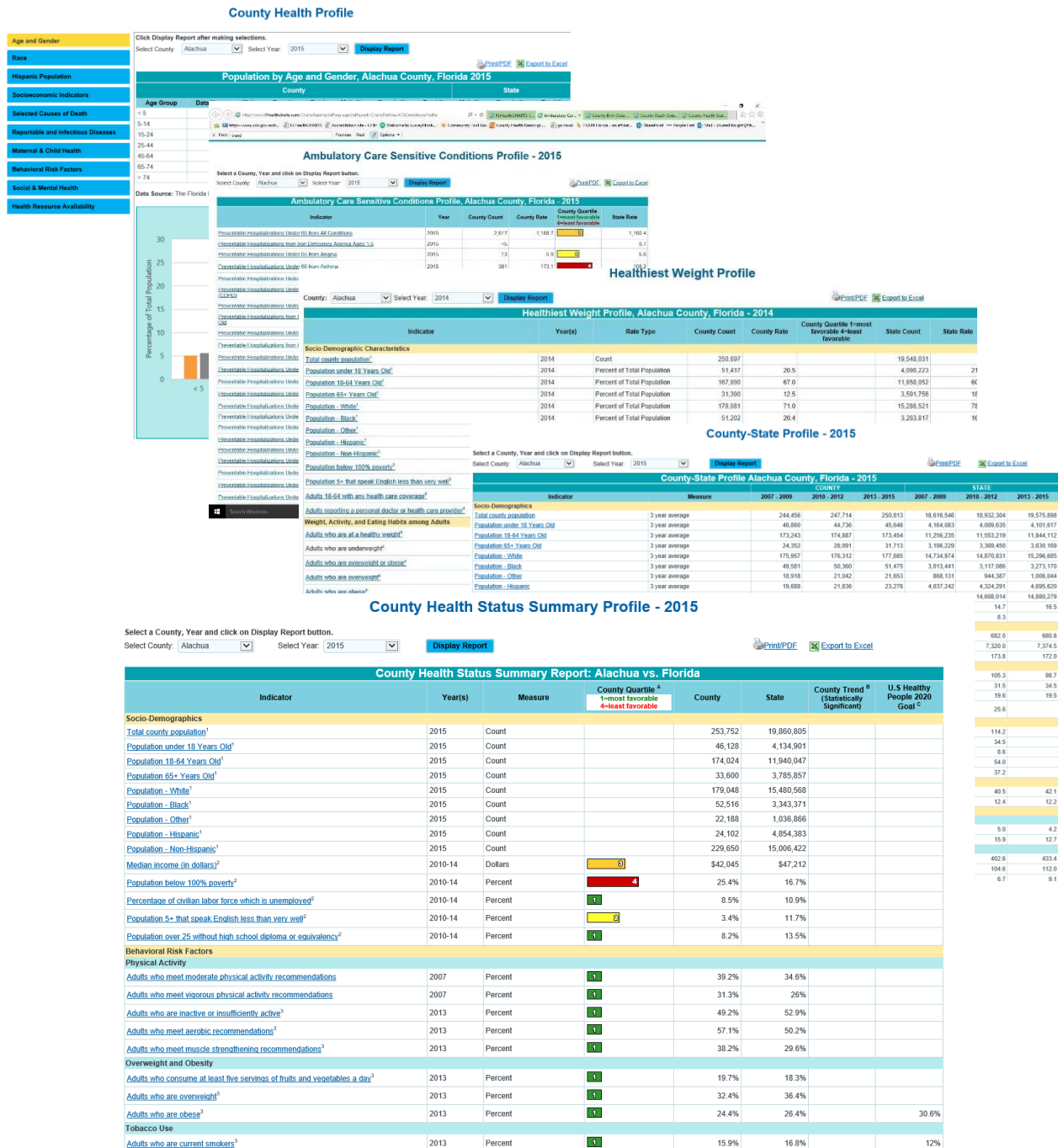
# CHARTS Tools

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FOR THE PLANNER

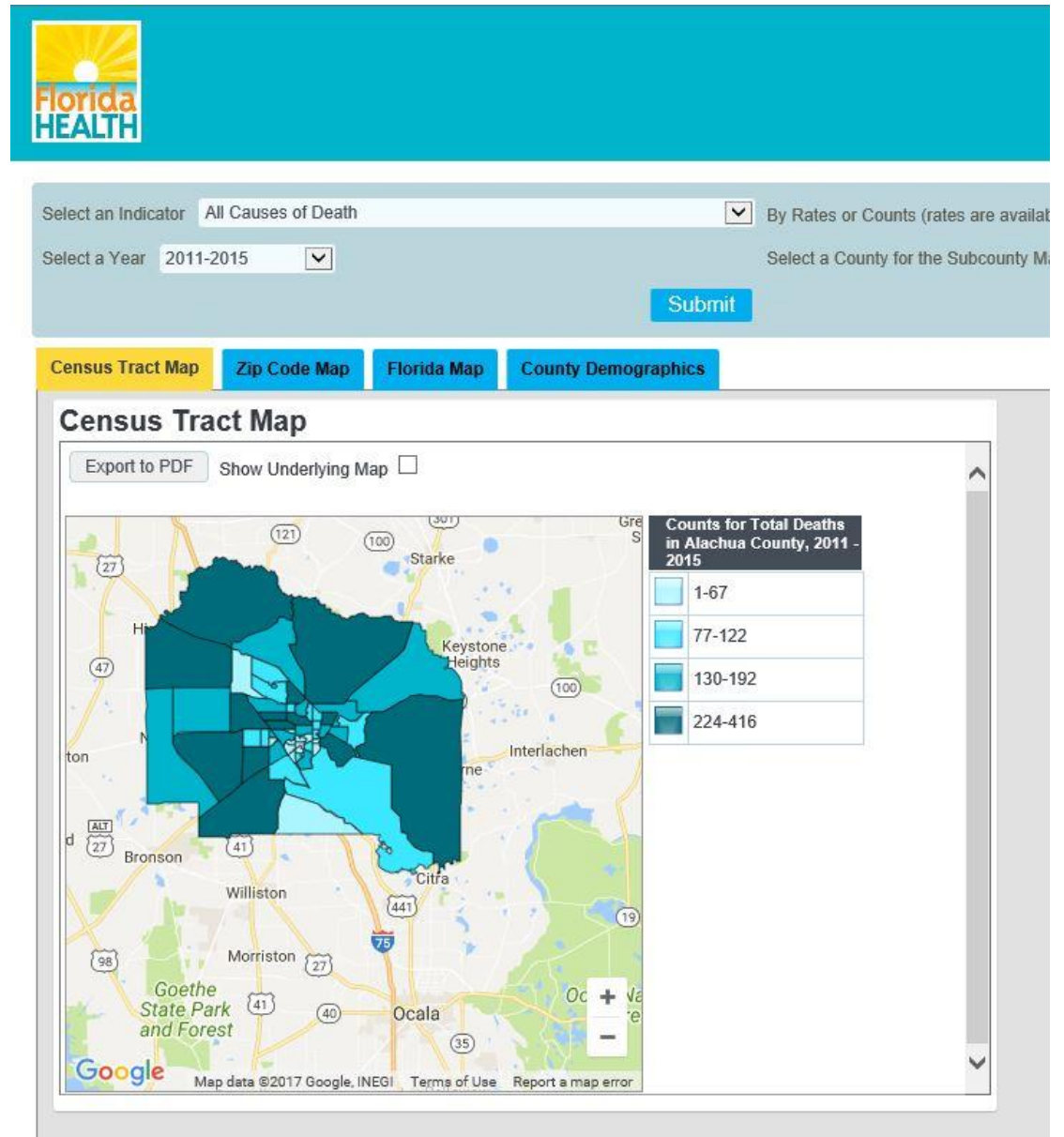
# Profiles

- Health summaries
  - County-specific
  - Issue/Initiative-specific
- Population-specific
- Used comparatively



# Community Map

- View indicators at census tract and zip-code levels
- List of indicators can be updated based on need and feasibility
- Quartiles available when possible



# Query System

- Modifiable data tables
- Ability to choose a “most useful” standard report in most query systems

UERY/Birth/BirthRpt.aspx | floridahealth.sharepoint.com | FLHealthCHARTS Population C... | FLHealthCHARTS - Birth Qu...

cdc.gov-nch... | FLHealthCHARTS | Accreditation site - CHIP | Welcome to SurveyMonk... | Community Tool Box | County Health Rankings ... | goTravel | TRAIN Florida - an affiliat...

Previous Next Options ▾

## Florida Birth Query System

Start Over Birth Rates >> Feedback Data Dictionary Help Video T

### Select Standard Report

- Births by County of Residence
- Births by Mother's Age by County of Residence
- Births by Mother's Race by County of Residence
- Births by WIC Participation by County of Residence
- Births by Race by County of Residence
- Births by Ethnicity by County of Residence
- Births by Education Level by County of Residence
- Births by Marital Status by County of Residence
- Births by Smoking Status by County of Residence
- Births by Birth Weight of Infant by County of Residence
- Births to Teens by Year of Birth by County of Residence
- Births Plus Live Births by Year of Birth by County of Residence

### Modify Standard Report/Create Custom Report

- 1. Births:** ☒ Resident ☐ Recorded
- 2. Select Measure:** Births (Count)
- 3. Add/Remove Row Variables:** Add/Remove Rows
- 4. Add/Remove Column Variables:** Add/Remove Columns
- 5. Add/Remove Filters:** Add/Remove Filters
- 6. Select Report Type:** ☒ Frequencies Only ☐ Percent Only ☐ Frequencies and Percent

**Current Selections (Can drag-and-drop items between rows, columns, and filters)**

Maximum 3 items)

County of Residence (Mother)

Maximum 4 items)

Year of Birth

Use Filters to limit results) Maximum 5 items

Age : All Race : All Ethnicity : All Mother's Education Level : All Births : Resident

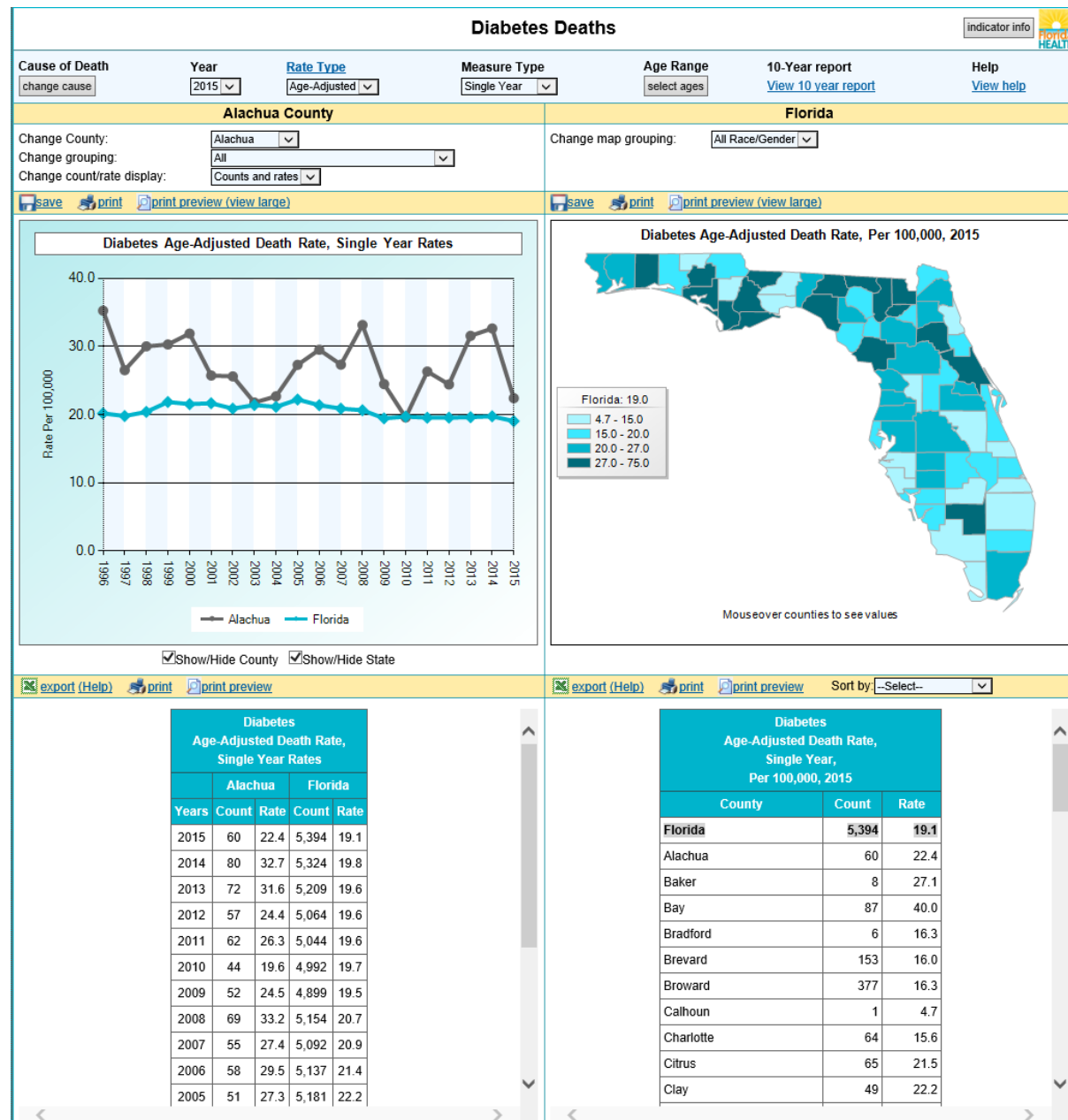
**Current Report**

**Births(Count) by Year of Birth by County of Residence (Mother)**  
Births=Resident

Births (Count)	
2015	Total
2,885	2,885
336	336
2,396	2,396
294	294
5,911	5,911

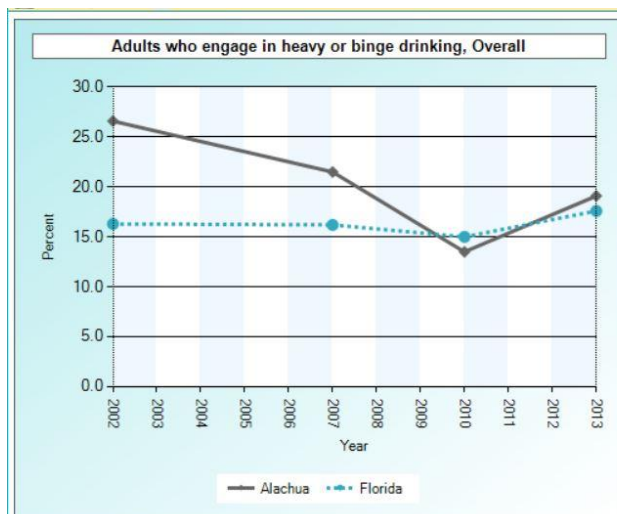
# Four-panel Viewer

- Looks at a single health indicator
- Displays trend graphs, maps, and data tables
- Left side-county – specific controls
- Right side-state-specific controls



# Behavioral Risk Factor Data

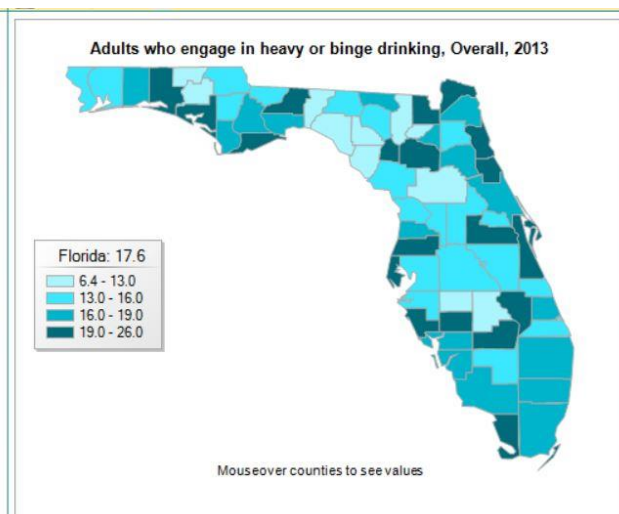
- Provides estimates of the prevalence of select chronic diseases and personal health behaviors that contribute to morbidity and mortality
- County and state level data



☒ Show/Hide County ☒ Show/Hide State

[export \(Help\)](#) [print](#) [print preview](#)

Adults who engage in heavy or binge drinking, Overall		
Year	Alachua	Florida
2002	26.6% (20.8 - 33.4)	16.3% (15.4 - 17.3)
2007	21.5% (16.7 - 27.1)	16.2% (15.3 - 17.2)
2010	13.5% (9.0 - 18.1)	15.0% (14.0 - 16.0)
2013	19.1% (13.9 - 24.2)	17.6% (16.6 - 18.6)



[export \(Help\)](#) [print](#) [print preview](#)

Adults who engage in heavy or binge drinking, Overall, 2013	
County	Percent (%)
Alachua	19.1
Baker	21.0
Bay	19.2
Bradford	17.5
Brevard	20.4
Broward	19.0
Calhoun	14.0
Charlotte	18.0
Citrus	14.1
Clay	15.1
Collier	18.1

# Navigating through the Data

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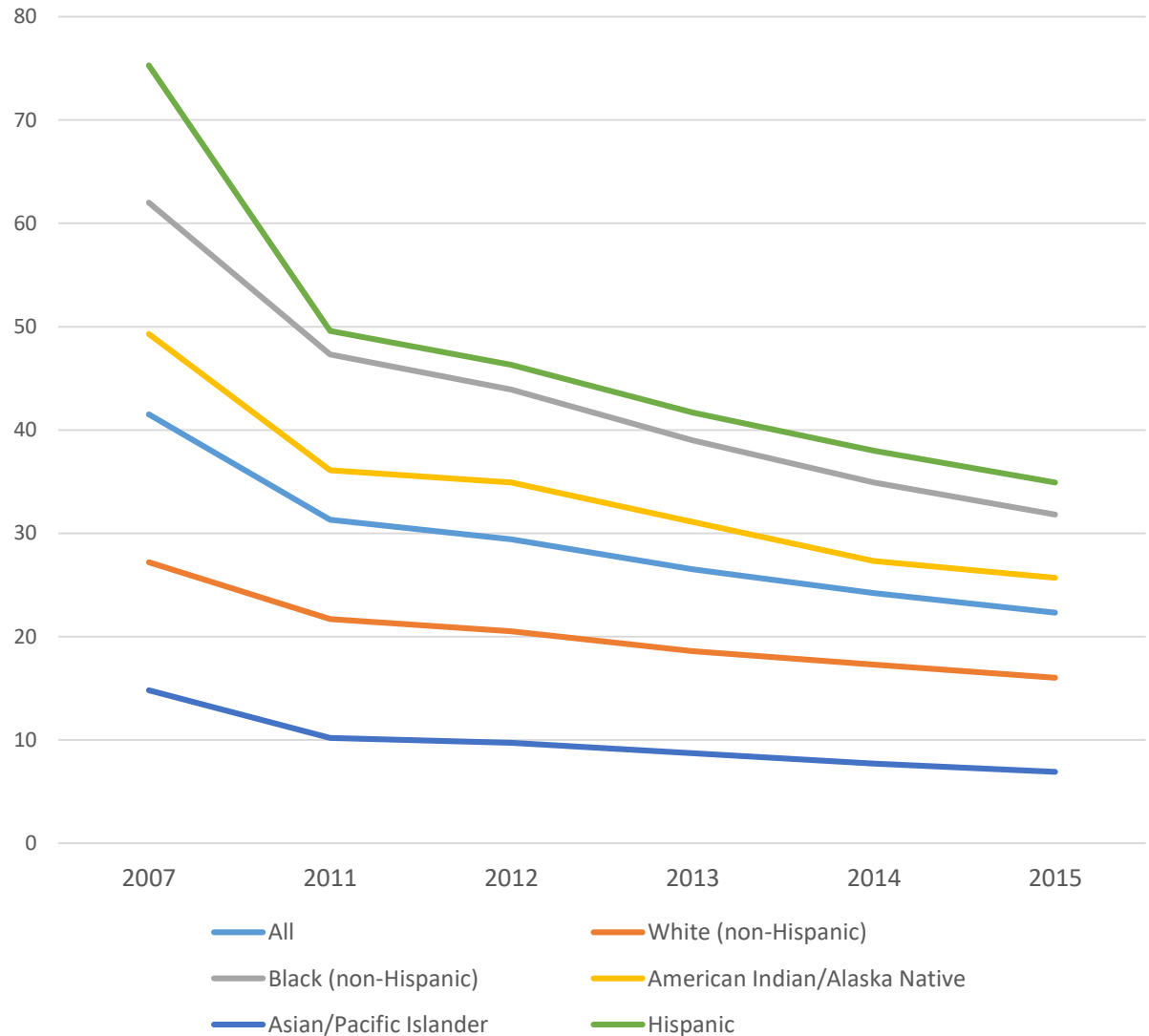
PRACTICAL APPLICATION



# Teen Pregnancy in the U.S.

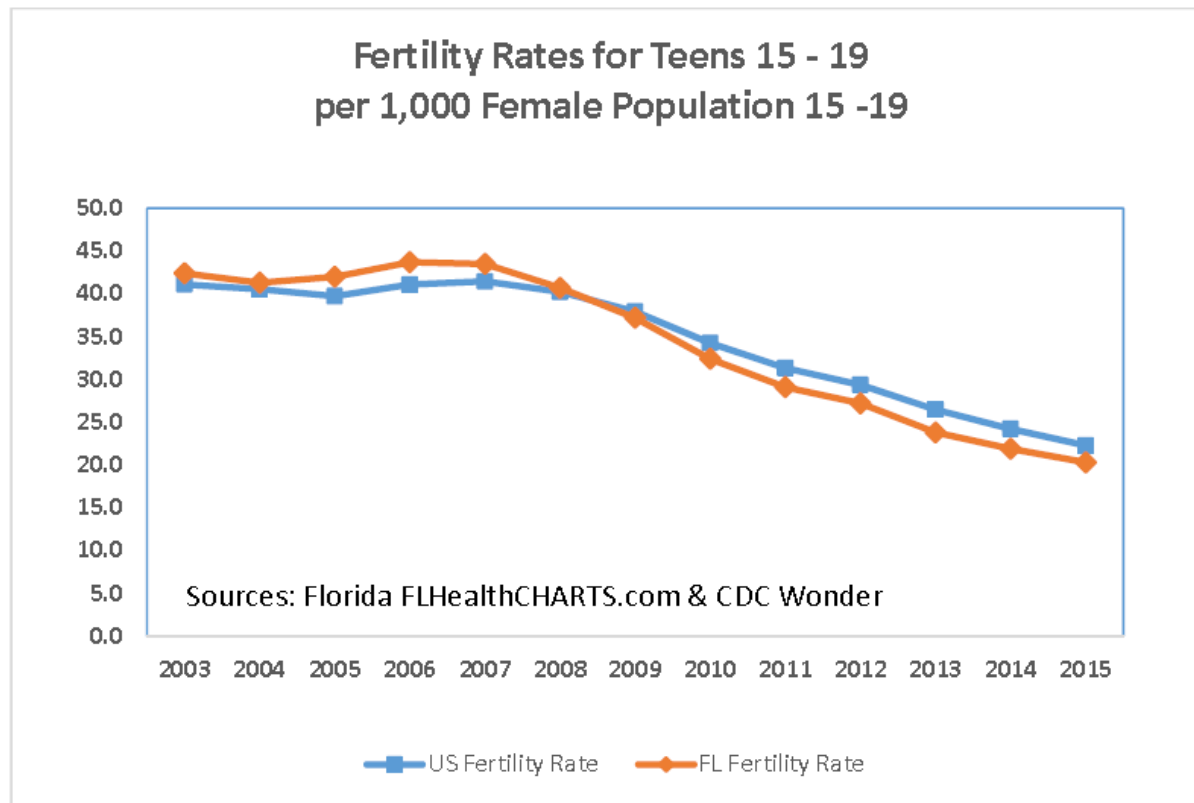
- 22.3/1,000
- Abstinence; birth control
- Disproportionate rates

Live Births, Aged 15-19 years, by Race and Ethnicity, 2007-2015



# Teen Pregnancy in the U.S. and FL

- [Statistical Brief—Teen birth rates in Florida are decreasing](#)



# Resources

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- [Data Update schedule](#)
- [NACCHO's Community Health Improvement Model/Matrix](#)
- Coming Soon!
  - Online Toolkit
  - Health Improvement Planning-FLHealthCHARTS manual

## Acknowledgments

Bureau of Community Health  
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