INFANT MORTALITY IN COLUMBUS' SOUTHSIDE:

A CALL TO ACTION

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Columbus, Ohio
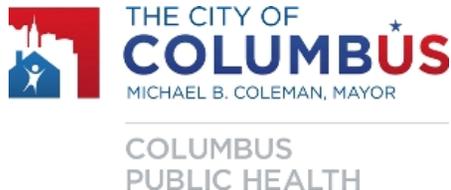August 13, 2013
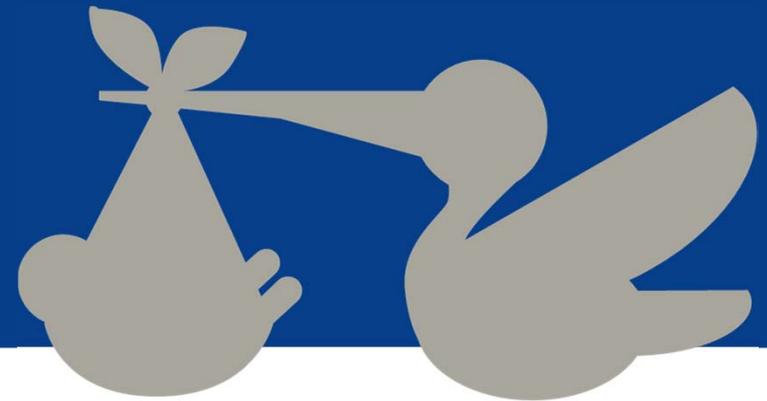
Welcome

Nancie Bechtel

- Columbus Public Health
- Assistant Health Commissioner & Chief Nursing Officer

Purpose

To engage key stakeholders
in reducing high rates of infant mortality
affecting the Southside of Columbus
and to introduce the new
Ohio Equity Institute initiative

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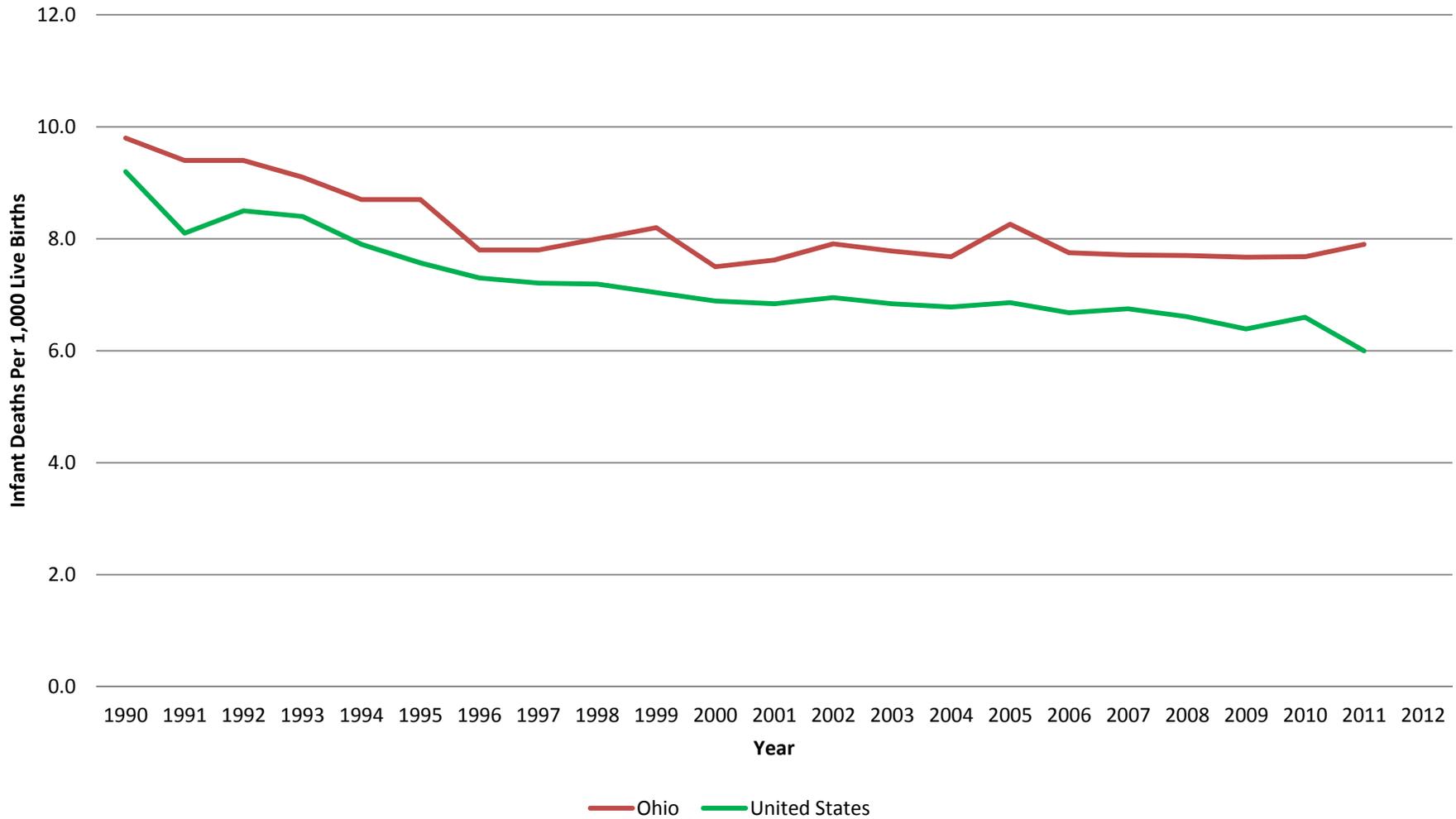**COLUMBUS**
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Infant Mortality…

- Is the death of a child less than 1 year of age
- Is a measure of a community's health and social condition
- Is affected by biological, behavioral, social, cultural, economic, and environmental factors
- Is mostly caused by
  - Being born too small or too soon, serious birth defects, unsafe sleeping conditions, and/or maternal complications of pregnancy
- Varies by person, place, and time

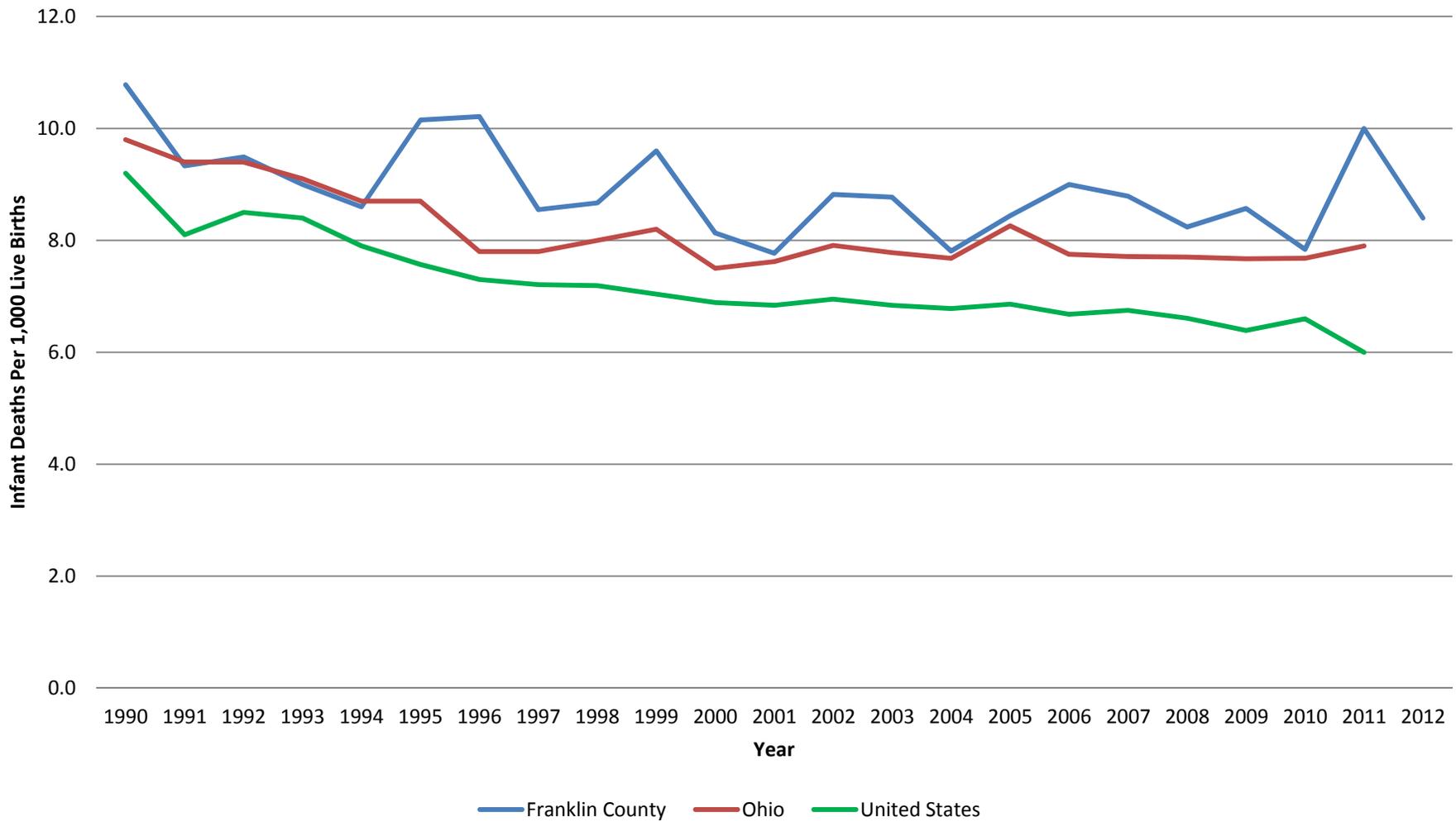THE CITY OF
COLUMBUS
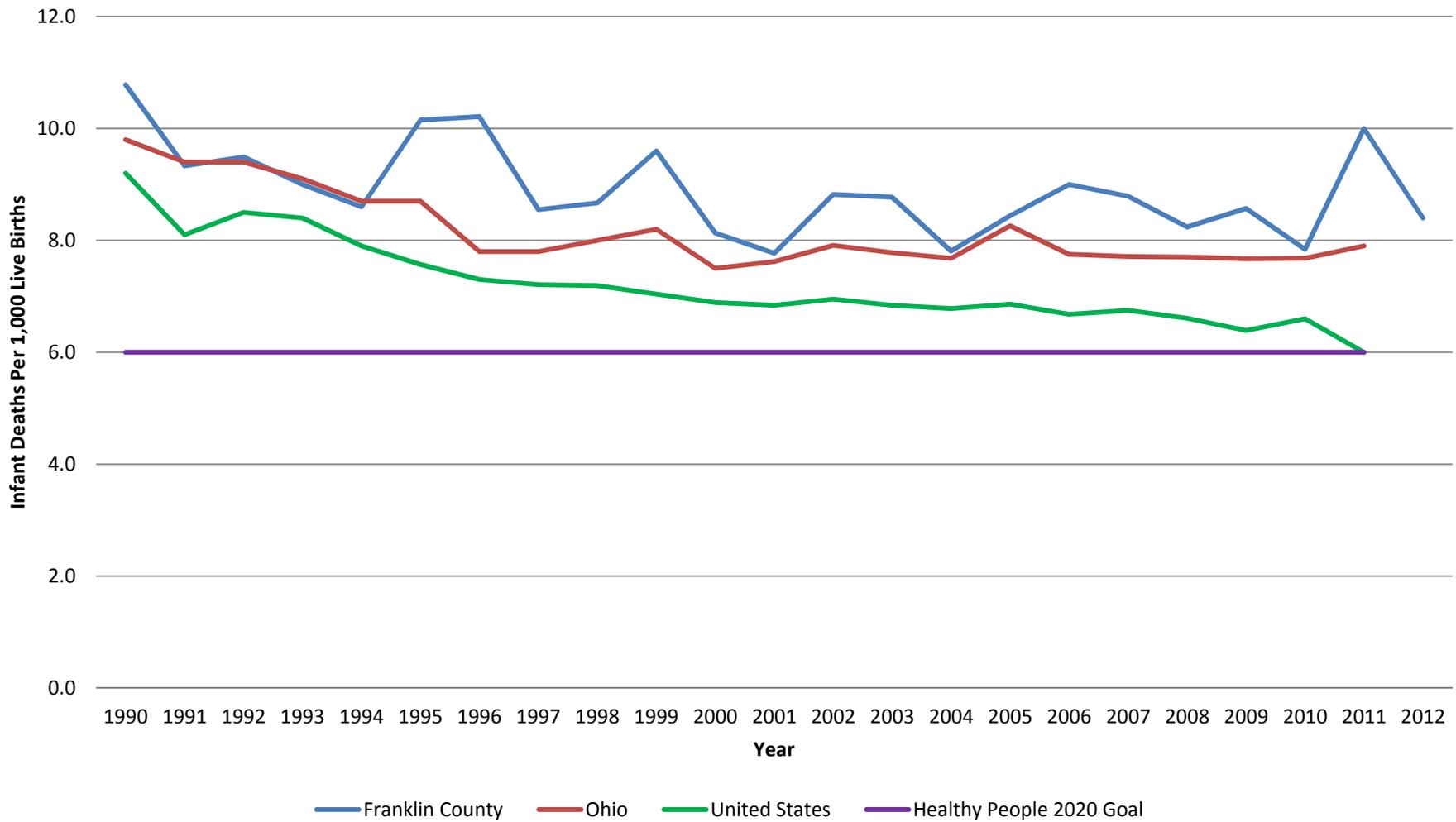MICHAEL B. COLEMAN, MAYOR

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Infant Mortality Rate, 1990-2012

* Preliminary Data for 2012

Ohio Department of Health Vital Statistics Data, Analyzed by Office of Epidemiology, Columbus Public Health

Infant Mortality Rate, 1990-2012

Chart showing "Infant Mortality Rate, 1990-2012" with Y-axis labeled "Infant Deaths Per 1,000 Live Births" (0.0 to 12.0) and X-axis labeled "Year" (1990-2012). Two lines plotted: Ohio (red) and United States (green).

Legend: Ohio | United States

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Infant Mortality Rate, 1990-2012

Infant Deaths Per 1,000 Live Births (y-axis: 0.0, 2.0, 4.0, 6.0, 8.0, 10.0, 12.0)

Year (x-axis: 1990–2012)

Legend: Franklin County — Ohio — United States

* Preliminary Data for 2012

Ohio Department of Health Vital Statistics Data, Analyzed by Office of Epidemiology, Columbus Public Health

Infant Mortality Rate, 1990-2012

Legend: Franklin County, Ohio, United States, Healthy People 2020 Goal

Y-axis: Infant Deaths Per 1,000 Live Births (0.0 to 12.0)

X-axis: Year (1990–2012)

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Infant Mortality Rate, 1990-2012

Legend: Franklin County · Ohio · United States · Linear (Franklin County) · Linear (Ohio) · Linear (United States)

Y-axis: Infant Deaths Per 1,000 Live Births

X-axis: Year

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Infant Deaths
per 1,000 Live
Births
2005-2010
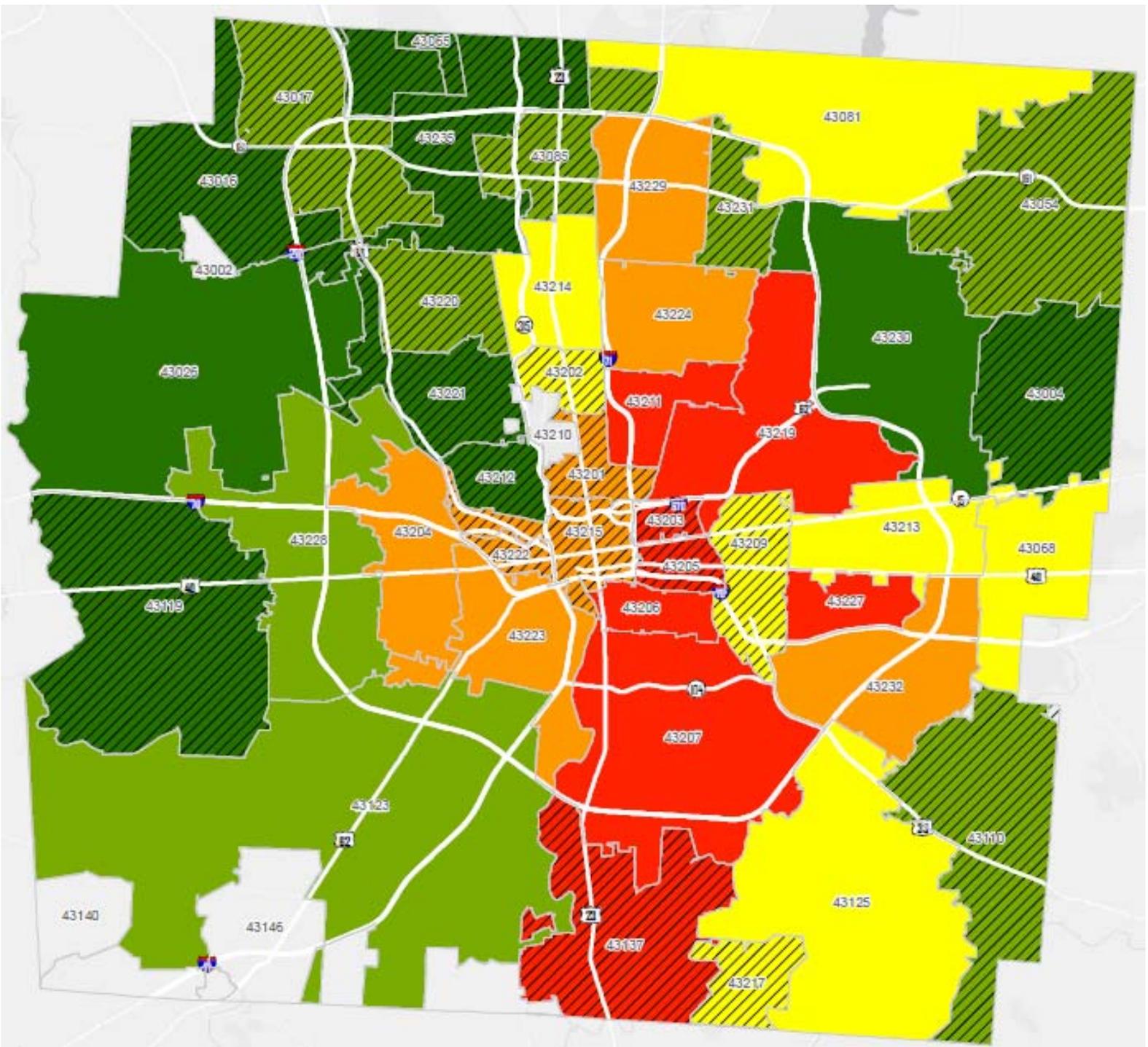
Legend:
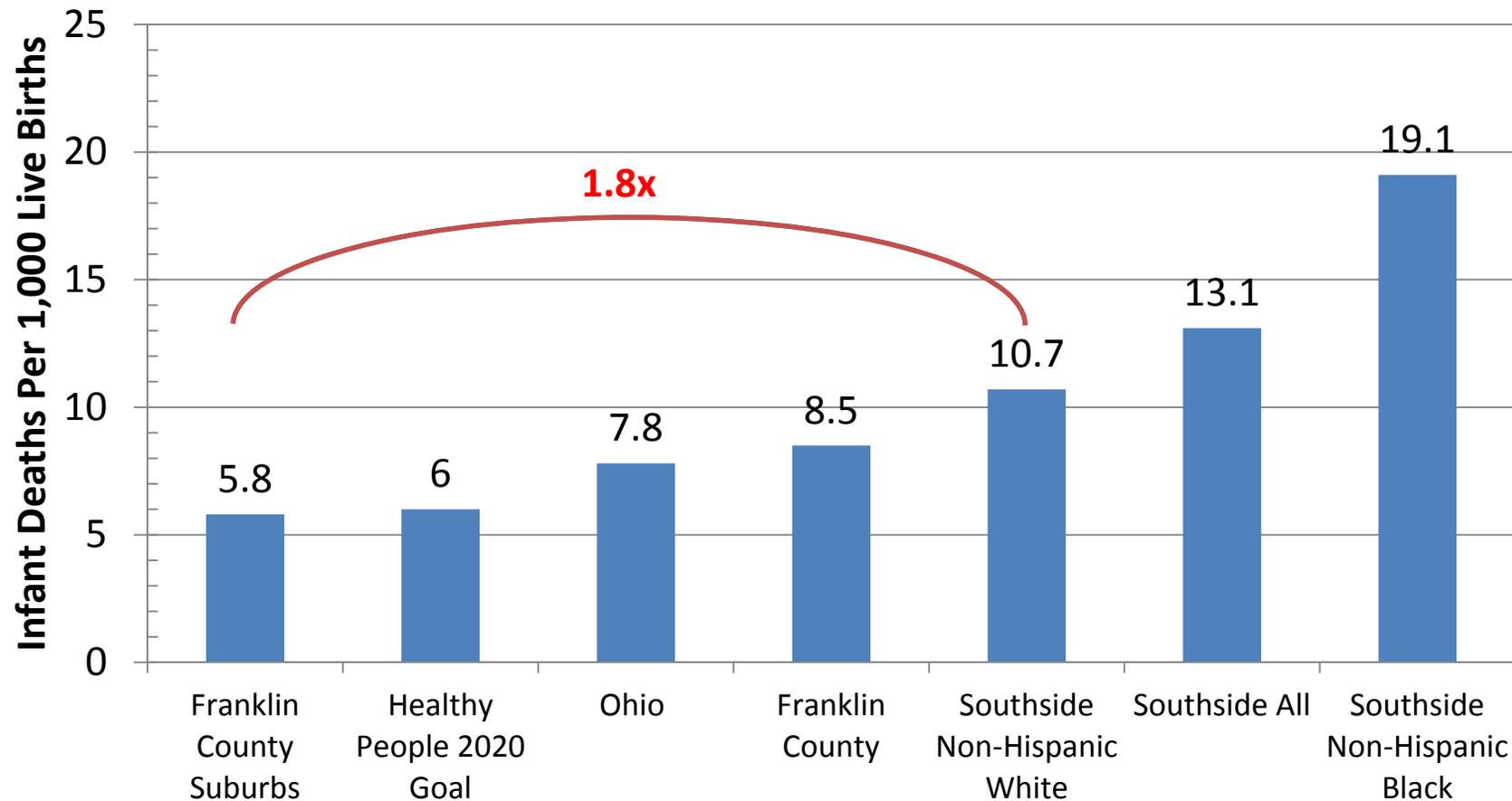- 3.8 - 5.1
- 5.2 - 6.6
- 6.7 - 9.6
- 9.7 - 12.0
- 12.1 - 20.4

Unreliable Zip IMR Rate^
/////

^Rates based on small numbers (<20 observations) do not meet the National Centers for Health Statistics (NCHS) criteria for reliability and are subject to large variability.
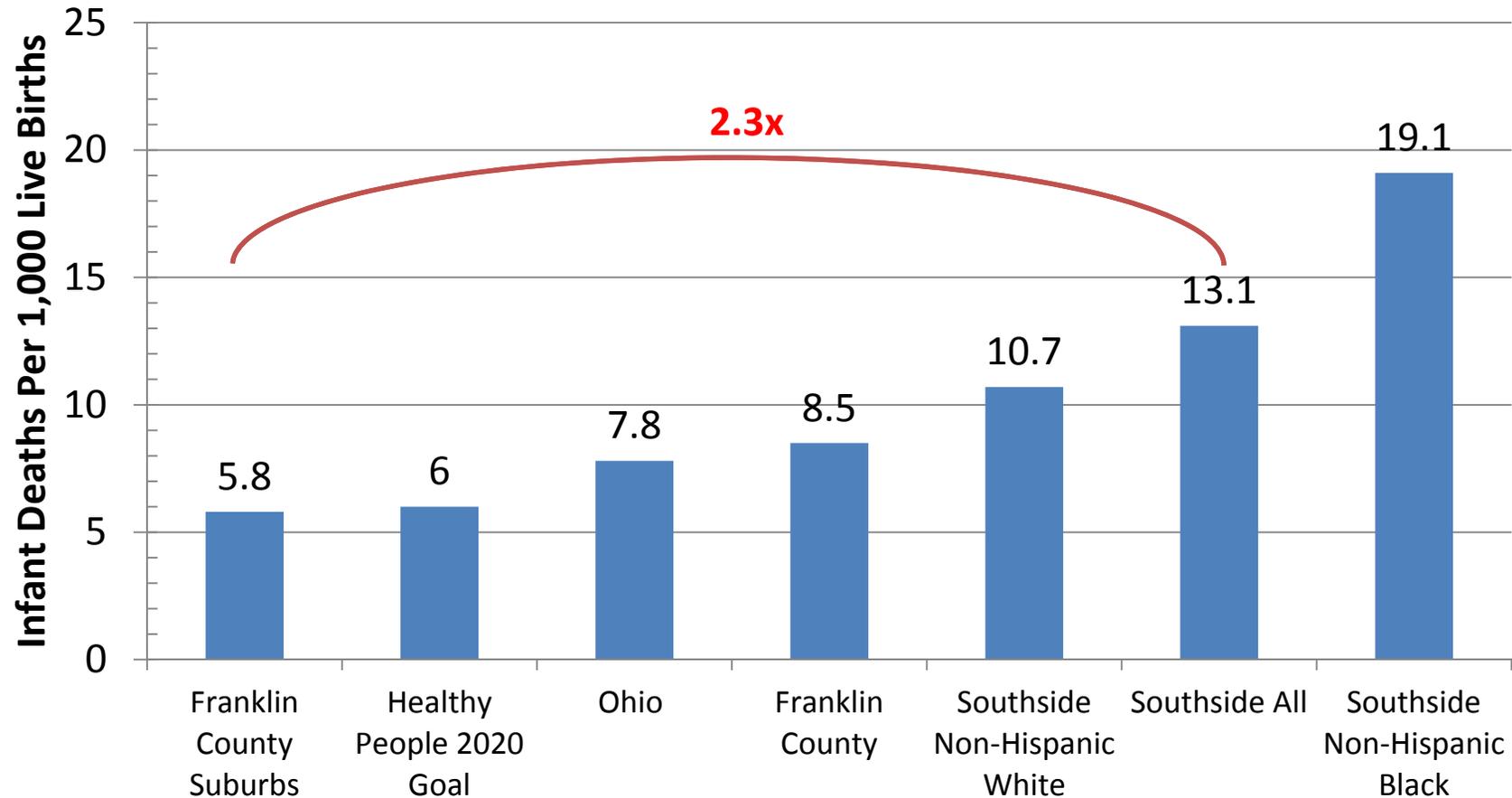
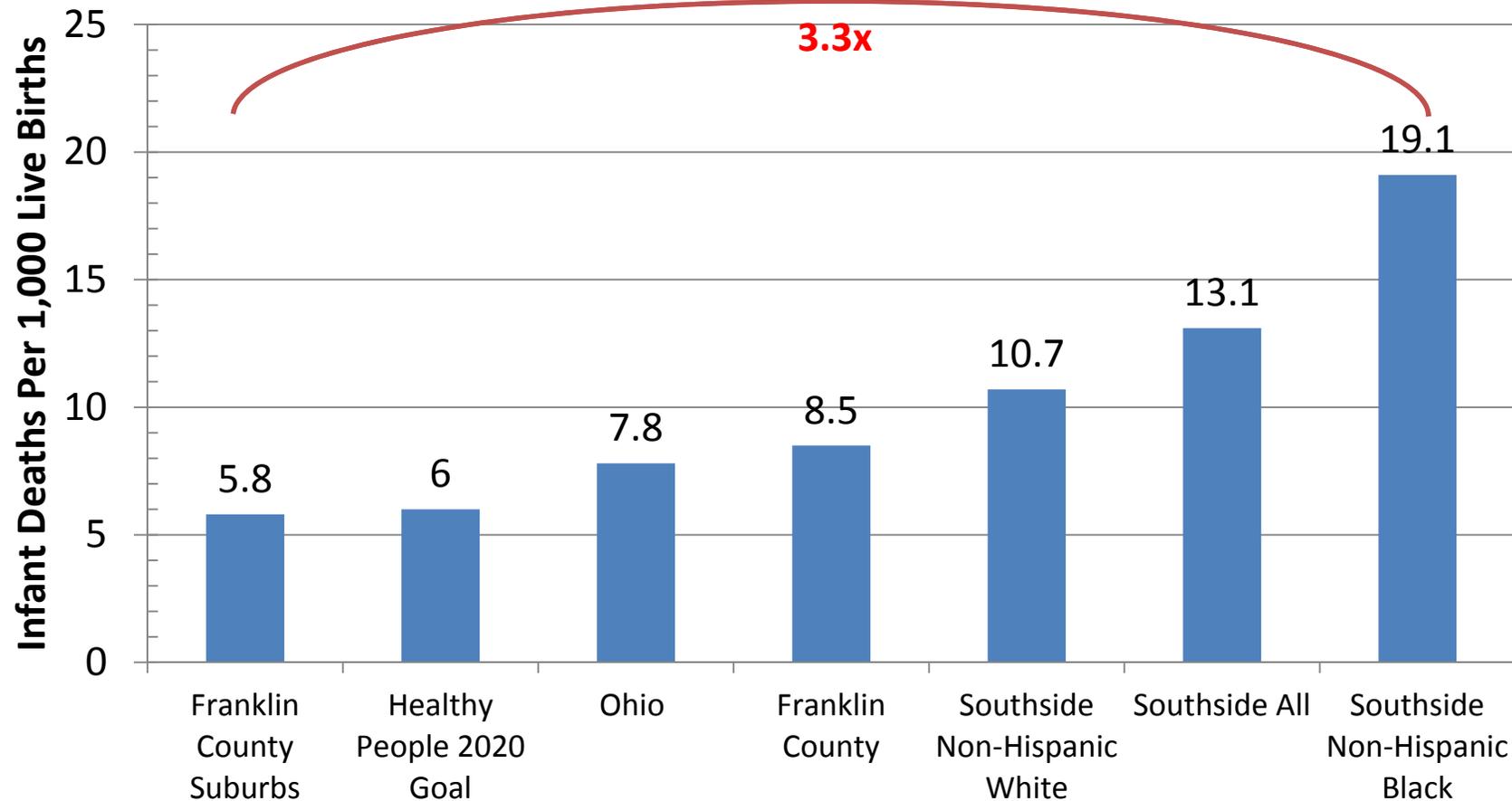# Infant Mortality Rate by Area and Race and Ethnicity, 2005-2010

Bar chart titled with y-axis "Infant Deaths Per 1,000 Live Births" ranging from 0 to 25.

Category	Rate
Franklin County Suburbs	5.8
Healthy People 2020 Goal	6
Ohio	7.8
Franklin County	8.5
Southside Non-Hispanic White	10.7
Southside All	13.1
Southside Non-Hispanic Black	19.1

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Southside is zip codes 43206 and 43207

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Infant Mortality Rate by Area and Race and Ethnicity, 2005-2010

Southside is zip codes 43206 and 43207

Ohio Department of Health Vital Statistics Data, Analyzed by Office of Epidemiology, Columbus Public Health

Infant Mortality Rate by Area and Race and Ethnicity, 2005-2010

Southside is zip codes 43206 and 43207

Ohio Department of Health Vital Statistics Data, Analyzed by Office of Epidemiology, Columbus Public Health

2005-2010, Southside
Of 6,359 Births…

Non-Hispanic White

- 3,463 births
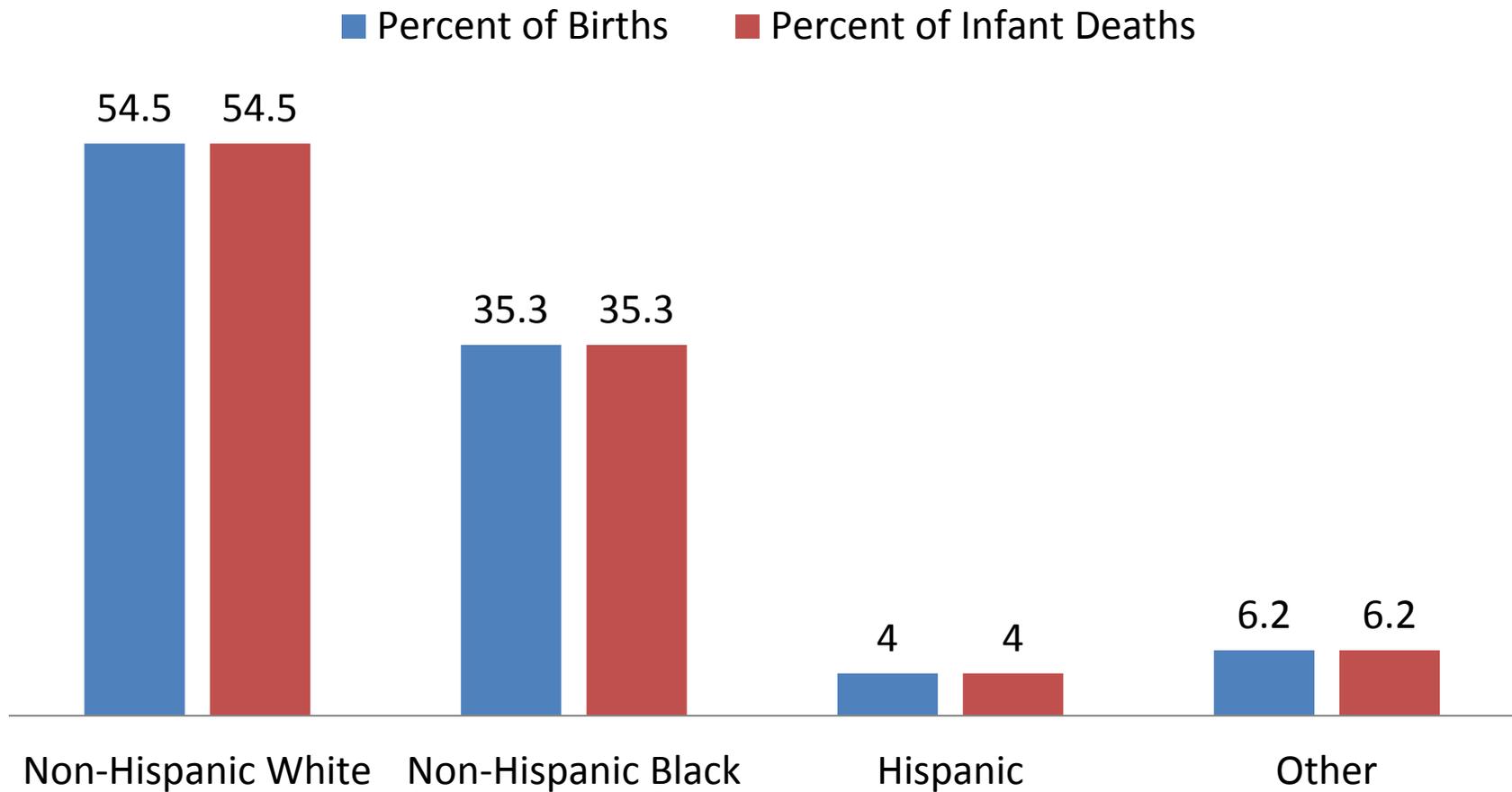 - (577 annual average)

- 37 infant deaths
  - (6 annual average)

Non-Hispanic Black

- 2,246 births
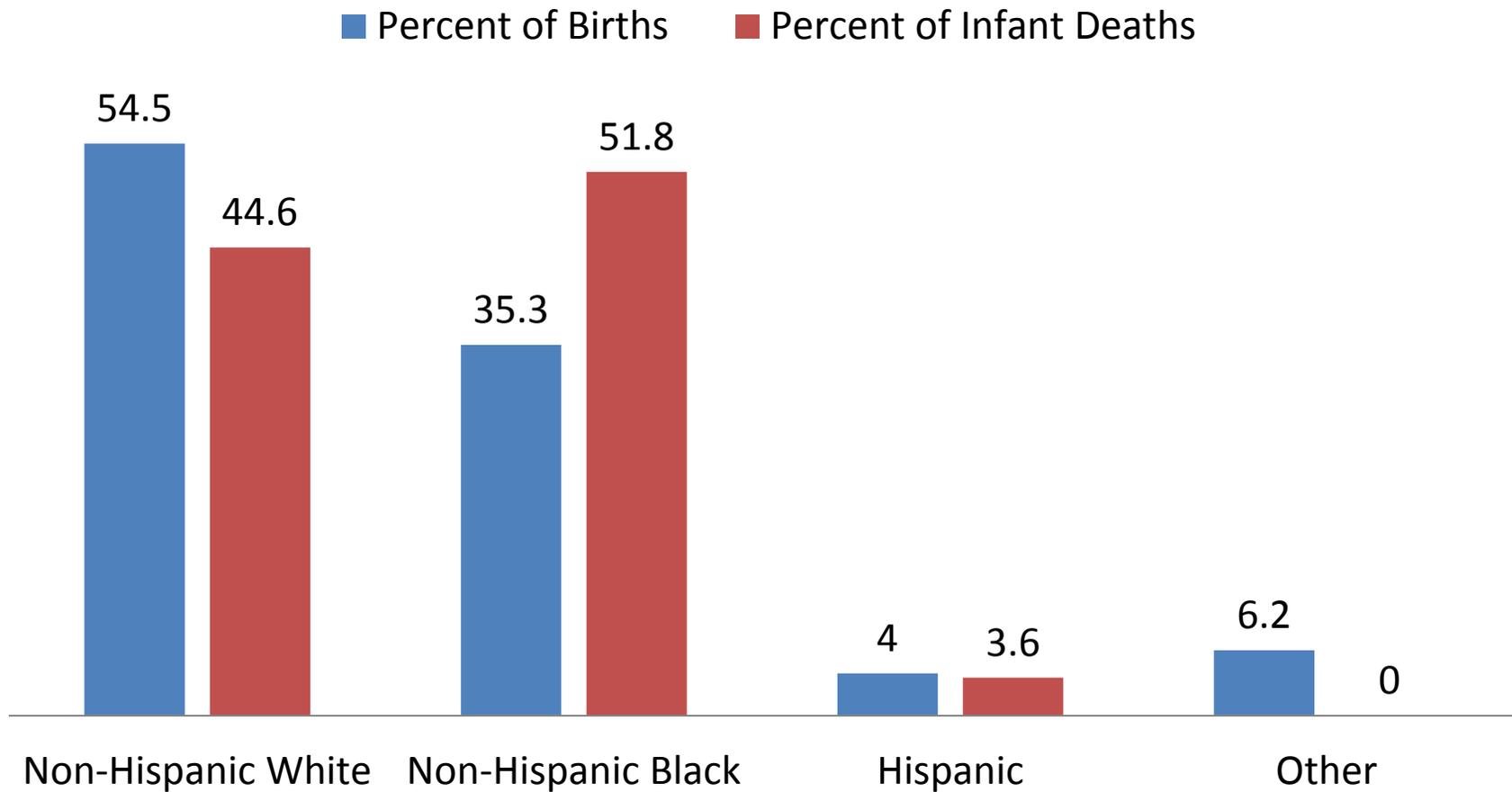 - (374 annual average)

- 43 infant deaths
  - (7 annual average)

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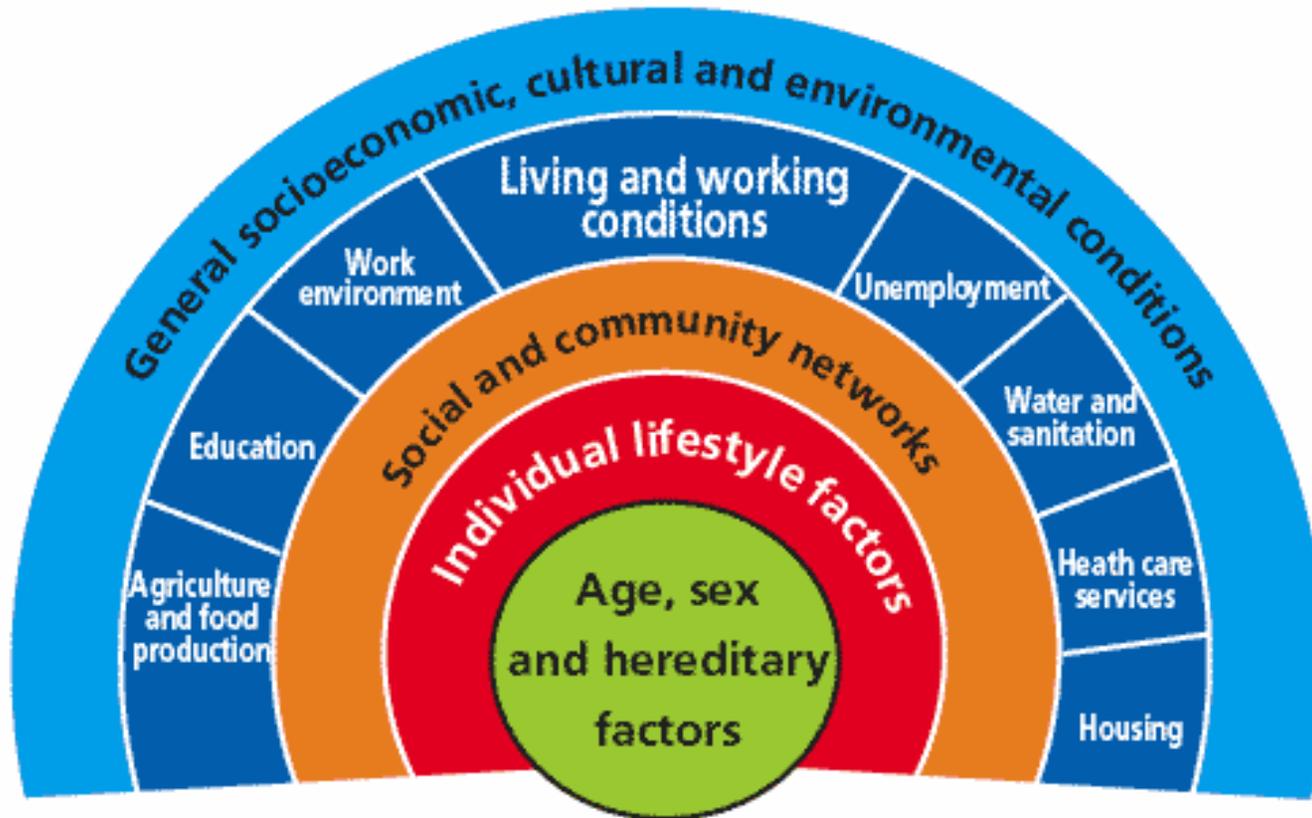MICHAEL B. COLEMAN, MAYOR

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Proportionality ~ Equity

Disproportionality, 2005-2010, Southside

Social Determinants of Health

Socio-Economic Status, Southside

	Population				
Non-Hispanic White	59.9%				
Non-Hispanic Black	33.2%				

^ Population ages 25+ years
* Figure is for Black population of any ethnicity
# Of individuals
~ Figure is average of mean income of individuals for both zip codes

Socio-Economic Status, Southside

	Population	13+ Years of Education^			
Non-Hispanic White	59.9%	39.6%			
Non-Hispanic Black	33.2%	38.4%*			
Franklin County		*63.1%*			

^ Population ages 25+ years
* Figure is for Black population of any ethnicity
# Of individuals
~ Figure is average of mean income of individuals for both zip codes

U.S. Census Bureau, 2007-2011 American Community Survey

Socio-Economic Status, Southside

	Population	13+ Years of Education^	Below Poverty Level in the Past 12 Months#		
Non-Hispanic White	59.9%	39.6%	18.6%		
Non-Hispanic Black	33.2%	38.4%*	30.9%*		
Franklin County			*17.4%*		

^ Population ages 25+ years
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U.S. Census Bureau, 2007-2011 American Community Survey

Socio-Economic Status, Southside

	Population	13+ Years of Education^	Below Poverty Level in the Past 12 Months#	Householder Received Food Stamps in the Past 12 Months	
Non-Hispanic White	59.9%	39.6%	18.6%	14.7%	
Non-Hispanic Black	33.2%	38.4%*	30.9%*	35.3%*	
Franklin County				*12.5%*	

^ Population ages 25+ years
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U.S. Census Bureau, 2007-2011 American Community Survey

Socio-Economic Status, Southside

	Population	13+ Years of Education^	Below Poverty Level in the Past 12 Months#	Householder Received Food Stamps in the Past 12 Months	Mean Income in 2011 Inflation Adjusted Dollars~
Non-Hispanic White	59.9%	39.6%	18.6%	14.7%	$30,451.50
Non-Hispanic Black	33.2%	38.4%*	30.9%*	35.3%*	$14,273.00*
Franklin County					$27,646.00

^ Population ages 25+ years
* Figure is for Black population of any ethnicity
# Of individuals
~ Figure is average of mean income of individuals for both zip codes

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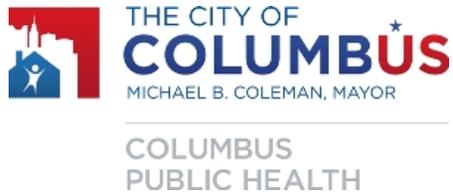**COLUMBUS**
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U.S. Census Bureau, 2007-2011 American Community Survey

Summary

- Infant mortality is a complex problem
- Franklin county's infant mortality rate is higher than Ohio's, which is higher than the national average
- Within Franklin county, infant mortality rates range from as low as 4 deaths per 1,000 live births to as high as 18 deaths per 1,000 live births by zip code
- Non-Hispanic Blacks typically have higher rates of infant mortality when compared to Non-Hispanic Whites
- Using a social determinants of health framework can help us get at the root causes of infant mortality

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Ohio Equity Institute (OEI)

- Ohio Department of Health engaged with CityMatCH

- 9 urban areas across Ohio

- Columbus Public Health is lead agency in Columbus/Franklin County
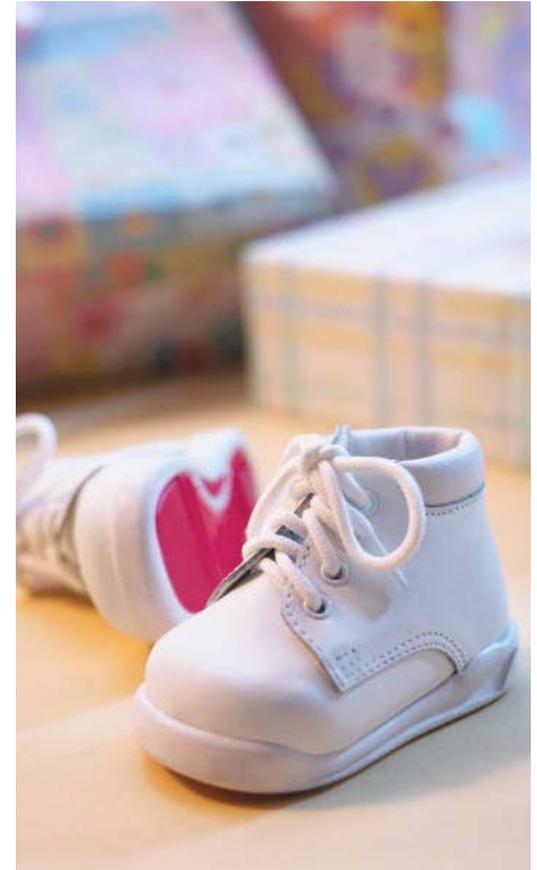
Ohio Equity Institute (OEI)

Core Team

- Nancie Bechtel, Columbus Public Health
- Erika Clark Jones, City of Columbus Community Relations Commission
- Alex Meyer, Nationwide Children's Hospital
- Anne Trinh, Columbus Public Health
- Sue Wolfe, Healthy Eating & Living, United Methodist Church for All People

ODH Core Team Appointment

- Robyn Taylor

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OEI Community Team

- **Team**: A fluid committee of diverse community organizations and residents

- **Goals**: Get the message out; create a plan; and implement the plan

- **Deliverables:** Upstream & Downstream

- **Timeframe**: 3 years

- ***We Need Your Help!*** *Please fill out and return commitment cards*

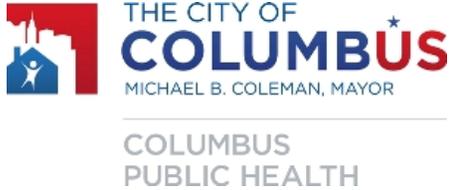THE CITY OF
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Open Forum

- Questions?

nmbechtel@columbus.gov

THANK YOU!

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Columbus, Ohio