



**Department  
of Health**

# **Adolescent Sexual Health, New York State**

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New York State Department of Health

# Acknowledgement

## Office of Public Health

- Gene Shackman, PhD
- Colleen Baker
- Yi Cui
- Sylvia Pirani, MPH, MS

# Outline

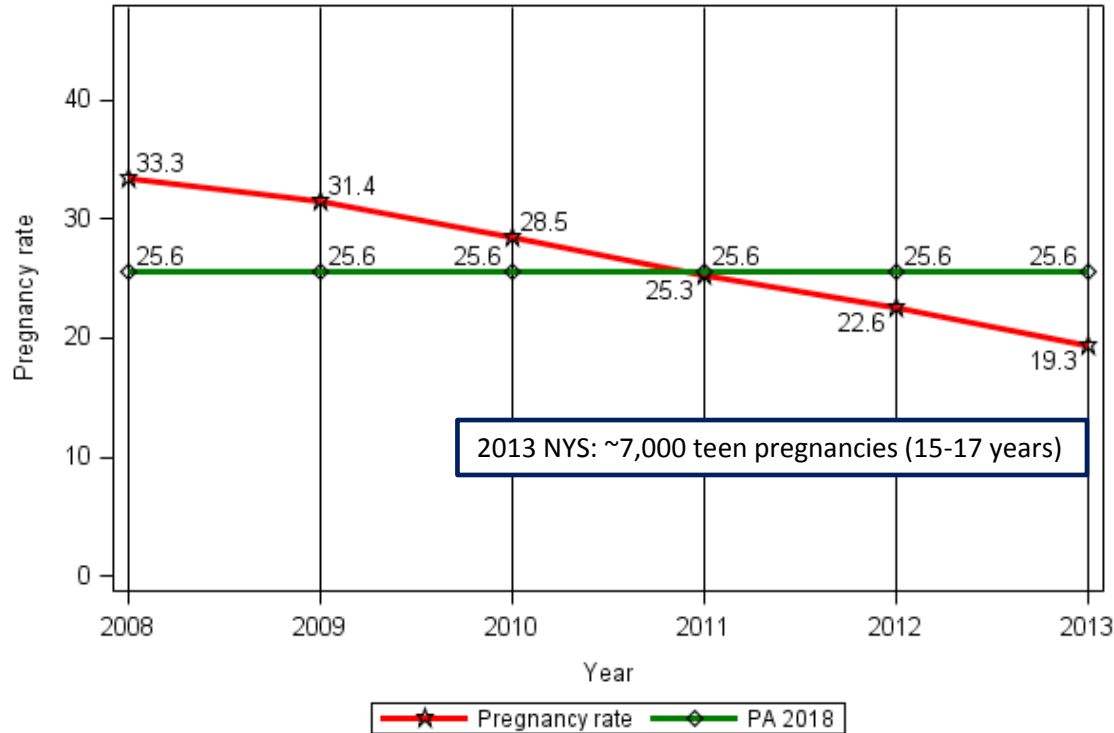
- Adolescent sexual health outcomes: teen pregnancy, teen birth, STDs among the adolescent population
- Adolescents' self-reported sexual behaviors and risk factors
- Data sources to support needs assessment and targeting interventions

# New York State Average Teen Populations 2011-2013

- Teen (10-19 years) population: 2,500,000
- Teens ages 15-19 years: 1,304,000
- Female population 15-17 years old: 950,000
- High school students in public schools: 821,000 (2014)

## New York State - Adolescent pregnancy rate per 1,000 females - Aged 15-17 years

Data Source: Vital Records data as of March 2015



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### New York State Prevention Agenda Dashboard - State Level

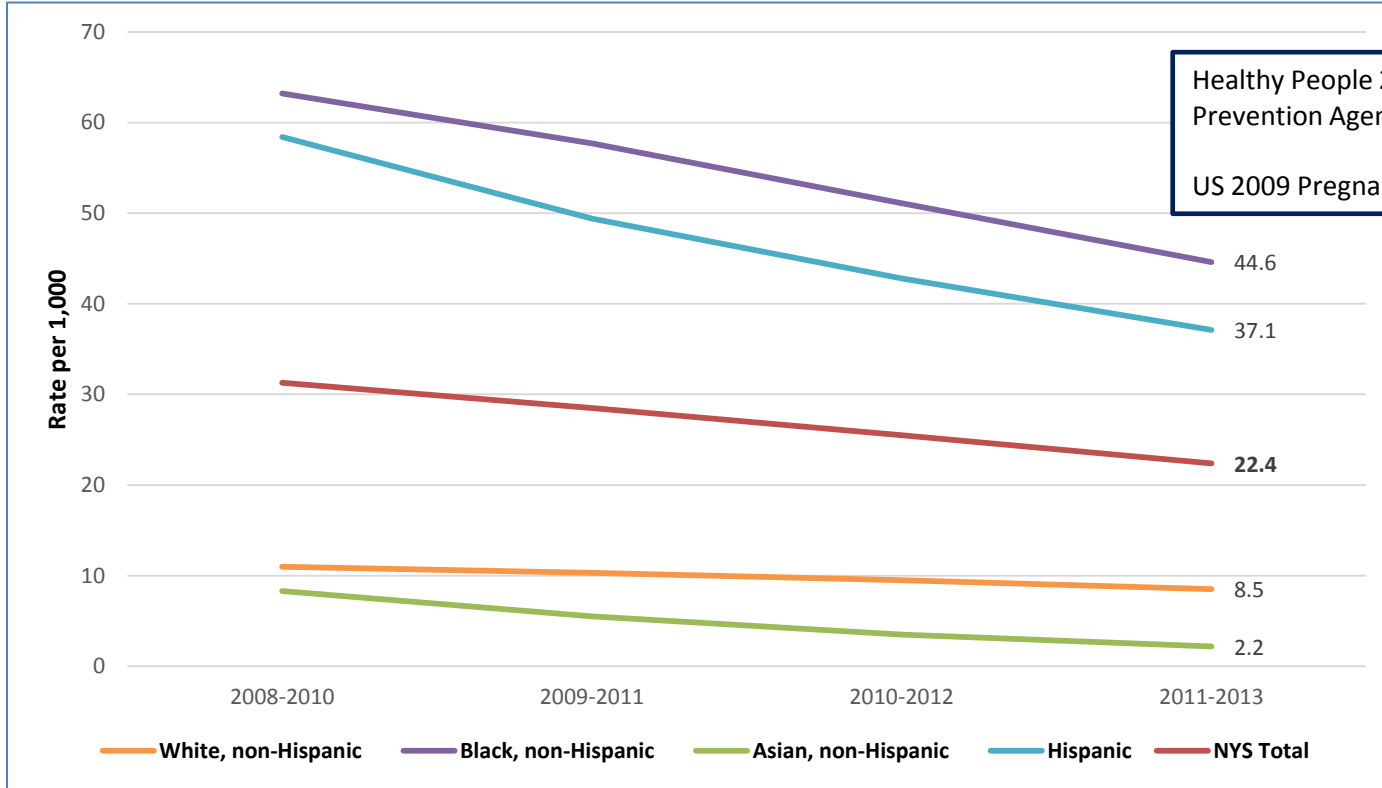
[State Dashboard](#) | [County Dashboard](#) | [About This Site](#) | [Prevention Agenda 2013-2018](#)

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Select Indicator: [Adolescent pregnancy rate per 1,000 females - Aged 15-17 years](#)

Healthy People 2020 objective FP-8.1 target:	36.2
Prevention Agenda 2018 target:	25.6
US 2009 Pregnancy Rate:	36.4

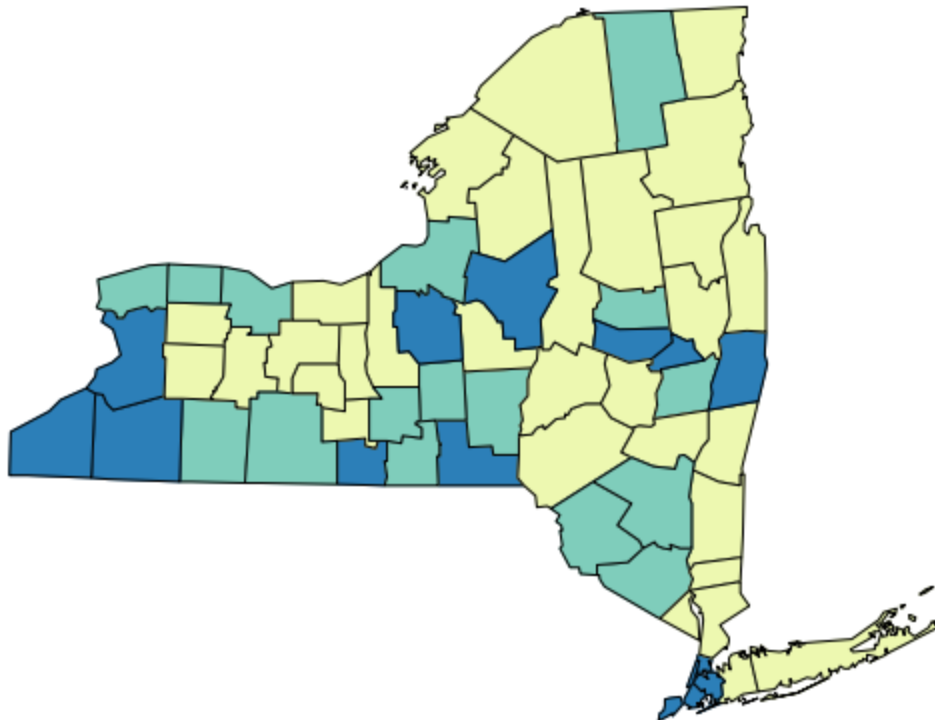
# Adolescent Pregnancy rate per 1,000 females - Aged 15-17 years, New York State



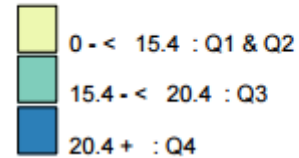
Healthy People 2020 objective FP-8.1 target:	36.2
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US 2009 Pregnancy Rate:	36.4

Source: 2011-2013 Vital Statistics Data as of February, 2015

# Adolescent Pregnancy rate per 1,000 females Aged 15-17 years New York State, 2011-2013

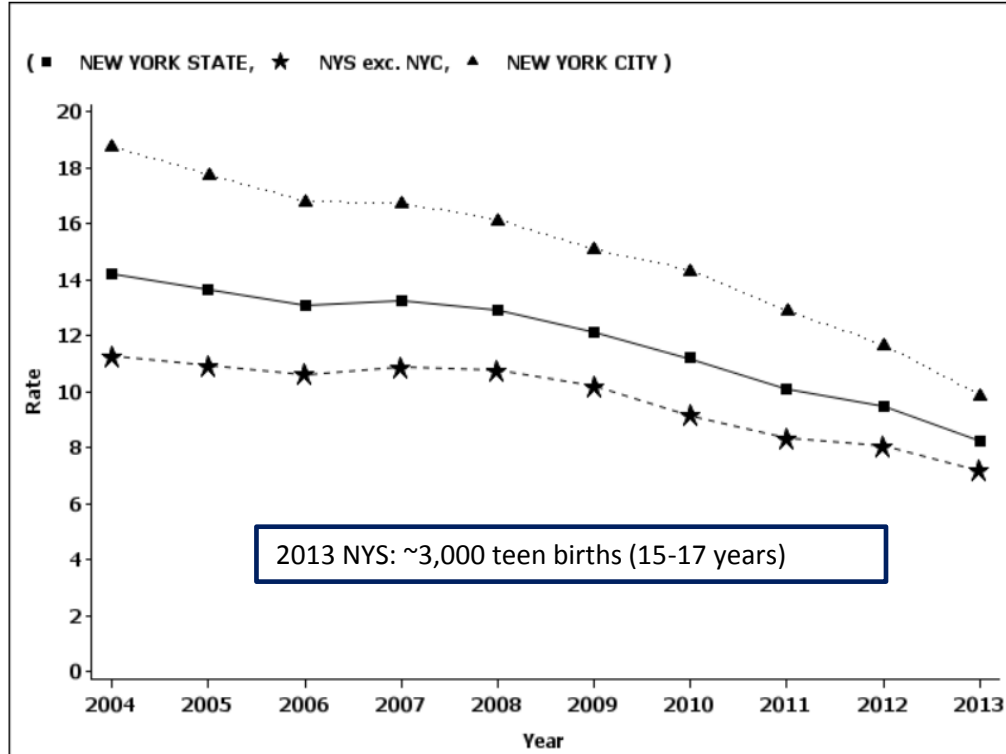


Pregnancy rate  
Counties Are Shaded Based On Quartile Distribution



Source: 2011-2013 Vital Statistics Data as of February, 2015

# Births to mothers aged 15-17 years/female population aged 15-17 years, New York State, 2004-2013

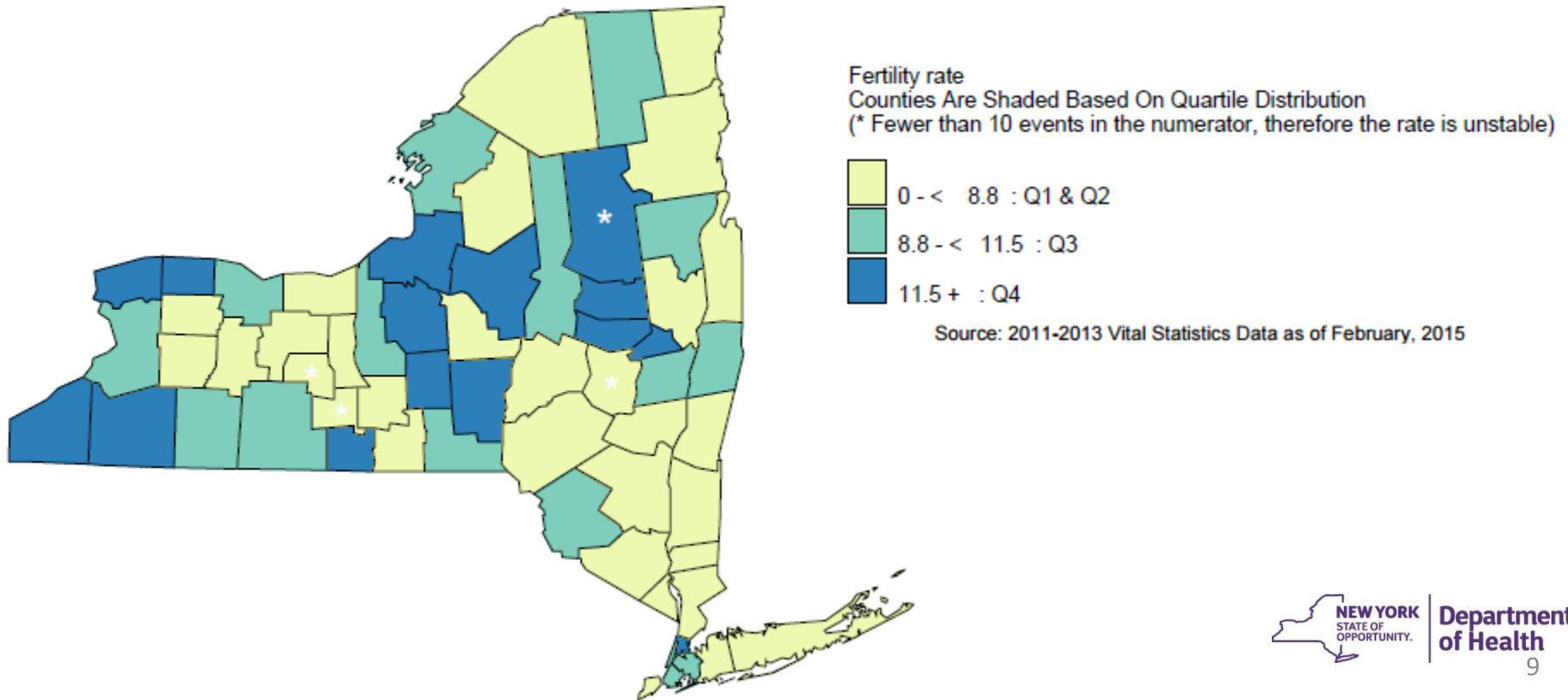


Year	Crude Rate		
	New York State	NYS exc. NYC	New York City
2004	14.2	11.3	18.7
2005	13.7	10.9	17.8
2006	13.1	10.6	16.8
2007	13.2	10.9	16.7
2008	12.9	10.8	16.1
2009	12.1	10.2	15.1
2010	11.2	9.2	14.3
2011	10.1	8.3	12.9
2012	9.5	8.1	11.7
2013	8.2	7.2	9.9

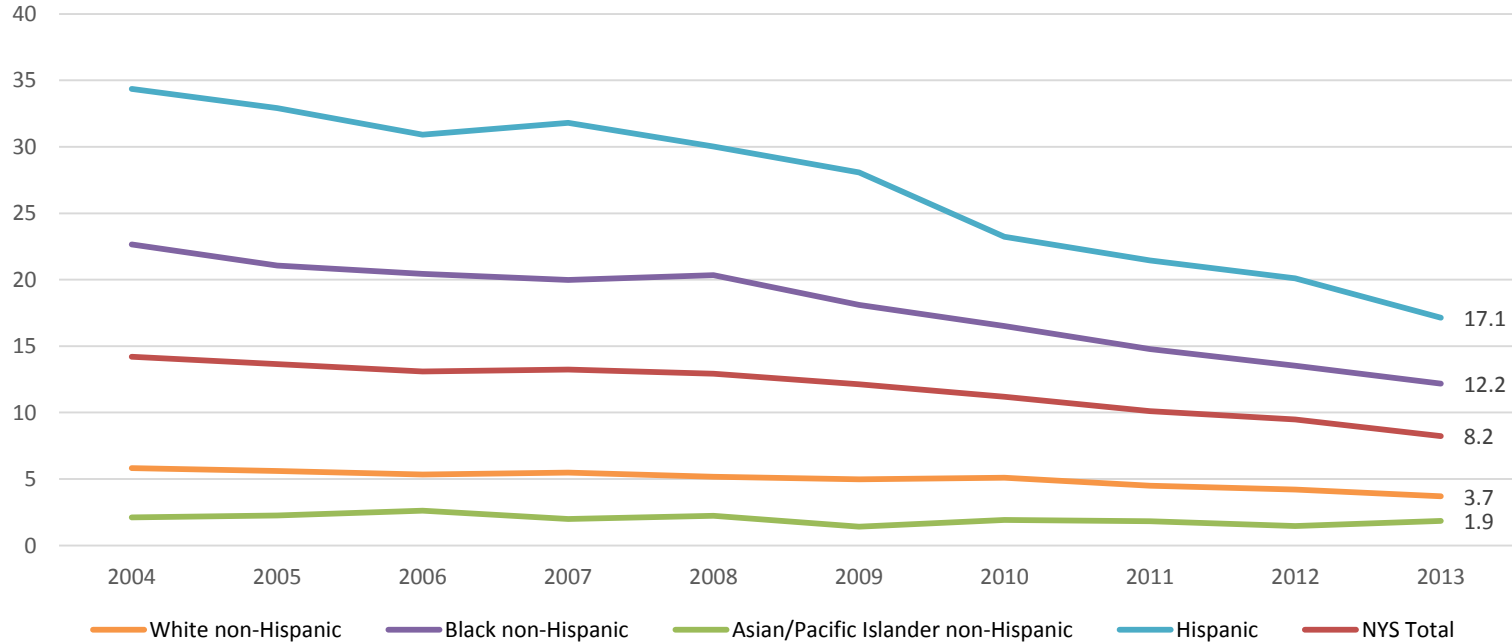
Source: 2011-2013 Vital Statistics Data as of February, 2015



# Births to mothers aged 15-17 years/1,000 female population aged 15-17 years, New York State, 2011-2013



# Births to mothers aged 15-17 years/1,000 female population aged 15-17 years, By Race/Ethnicity, New York State, 2004-2013



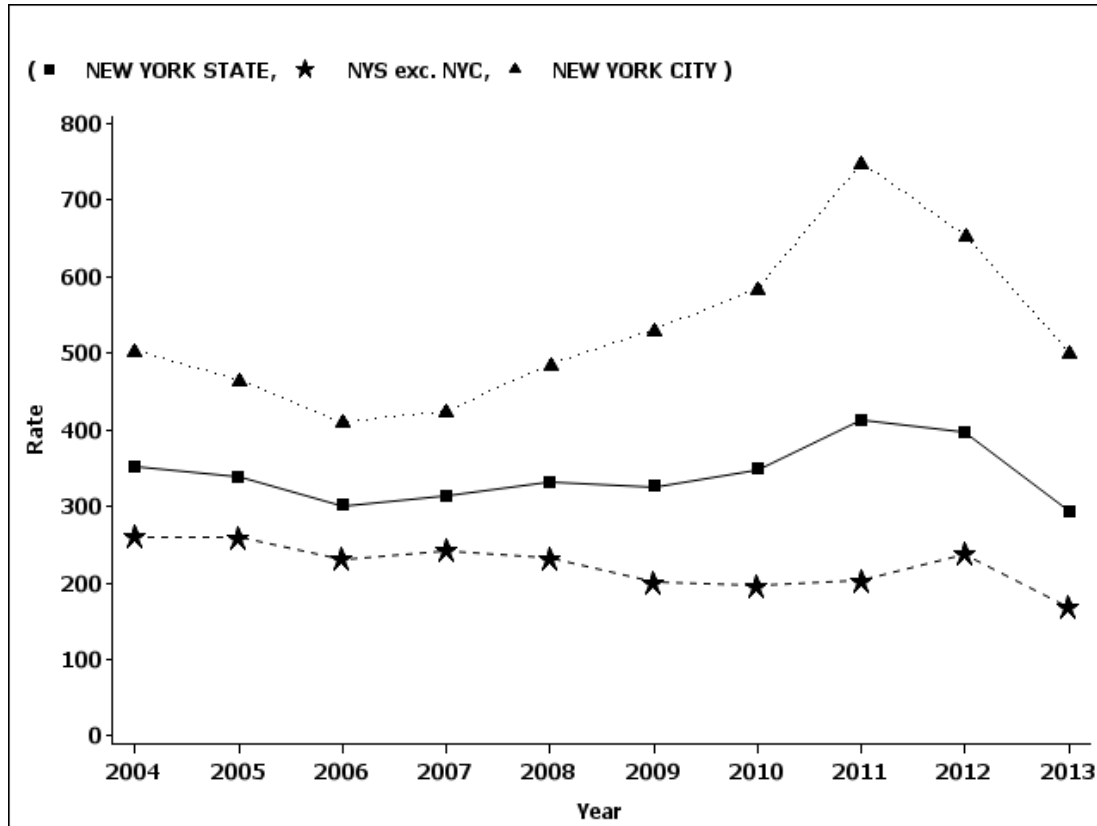
Source: 2011-2013 Vital Statistics Data as of February, 2015

# Impacts of adolescent pregnancy and birth

- Adolescent parents: may seriously impact their future via medical complications, delayed education, substance abuse, emotional crisis, depression, and trouble with finances.
- Children born to adolescents face particular challenges: poorer educational, behavioral, and health outcomes
- For society, teen childbearing costs U.S. taxpayers between \$9.4 and \$28 billion a year

*Reference: U.S. Department of Health & Human Services, Office of Adolescent Health*

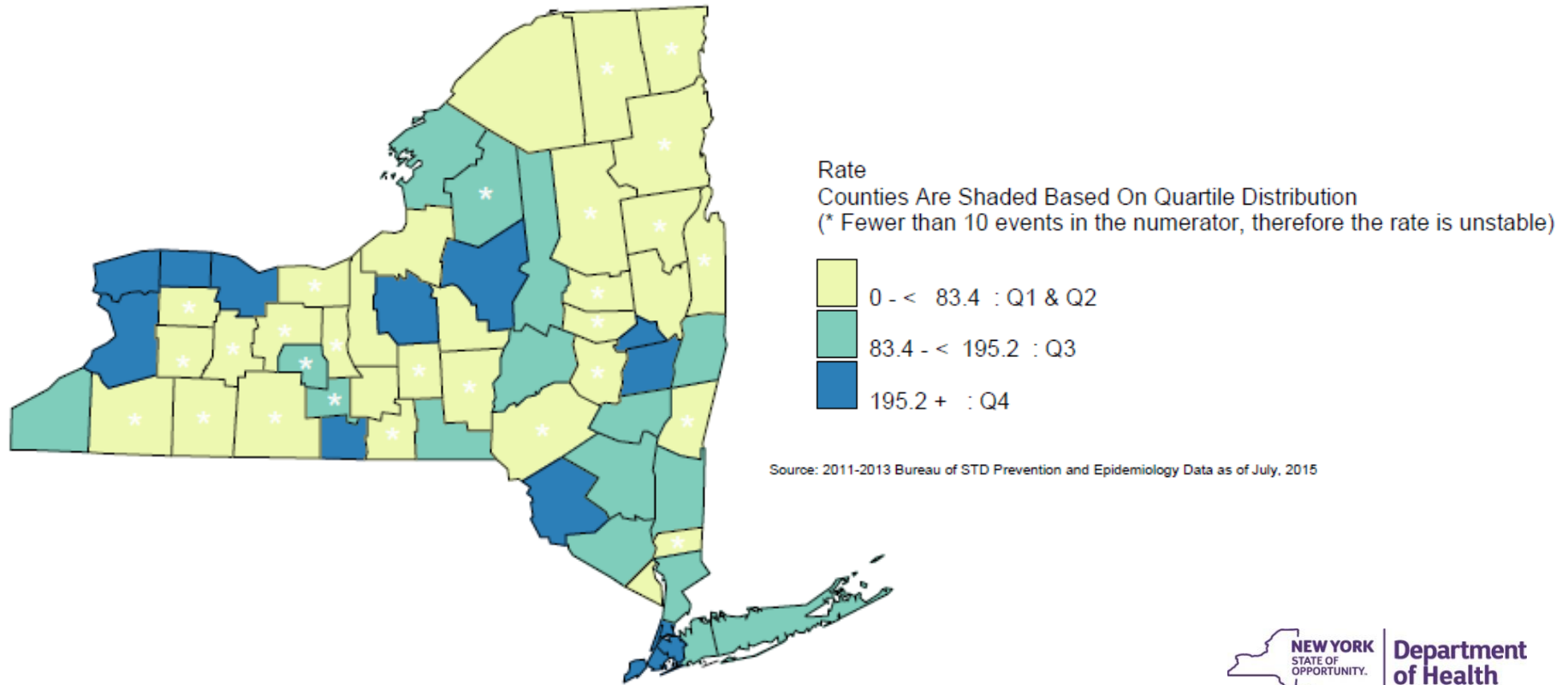
# Gonorrhea case rate per 100,000 - Aged 15-19 years, New York State, 2004-2013



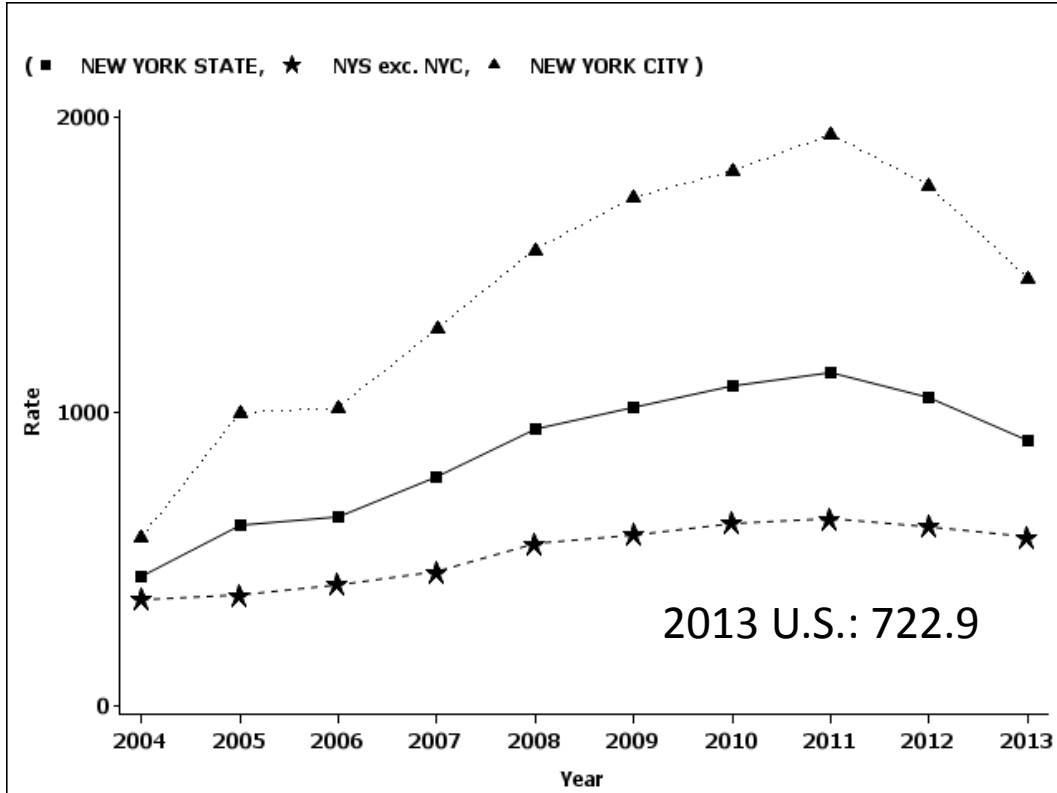
Year	Crude Rate		
	New York State	NYS exc. NYC	New York City
2004	352.3	260.4	504.0
2005	338.4	259.0	465.5
2006	301.5	231.7	410.2
2007	314.3	242.7	425.1
2008	331.7	232.1	485.7
2009	326.2	201.5	531.1
2010	348.8	196.9	584.1
2011	412.6	203.8	749.2
2012	396.3	238.1	654.9
2013	293.2	168.3	500.2

Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015

## Gonorrhea case rate per 100,000 - Aged 15-19 years, 2011-2013



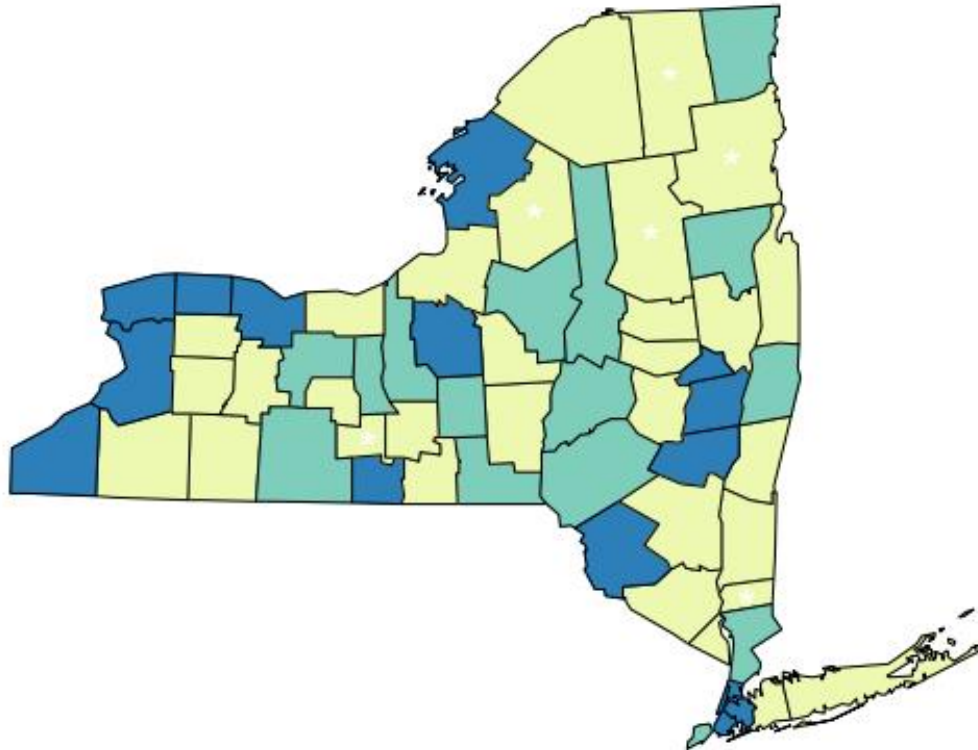
# Chlamydia case rate per 100,000 males - Aged 15-19 years, New York State, 2004-2013



Year	Crude Rate		
	New York State	NYS exc. NYC	New York City
2004	443.6	365.4	574.4
2005	614.9	378.4	999.1
2006	646.3	414.7	1,013.7
2007	780.2	458.7	1,285.3
2008	941.9	554.8	1,550.5
2009	1,012.8	583.5	1,729.1
2010	1,087.6	623.3	1,818.1
2011	1,132.6	637.0	1,942.1
2012	1,046.8	612.0	1,768.6
2013	903.3	576.1	1,454.1

Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015

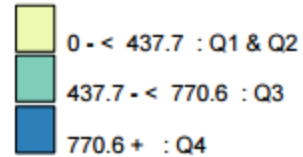
# Chlamydia case rate per 100,000 males - Aged 15-19 years, 2011-2013



Rate

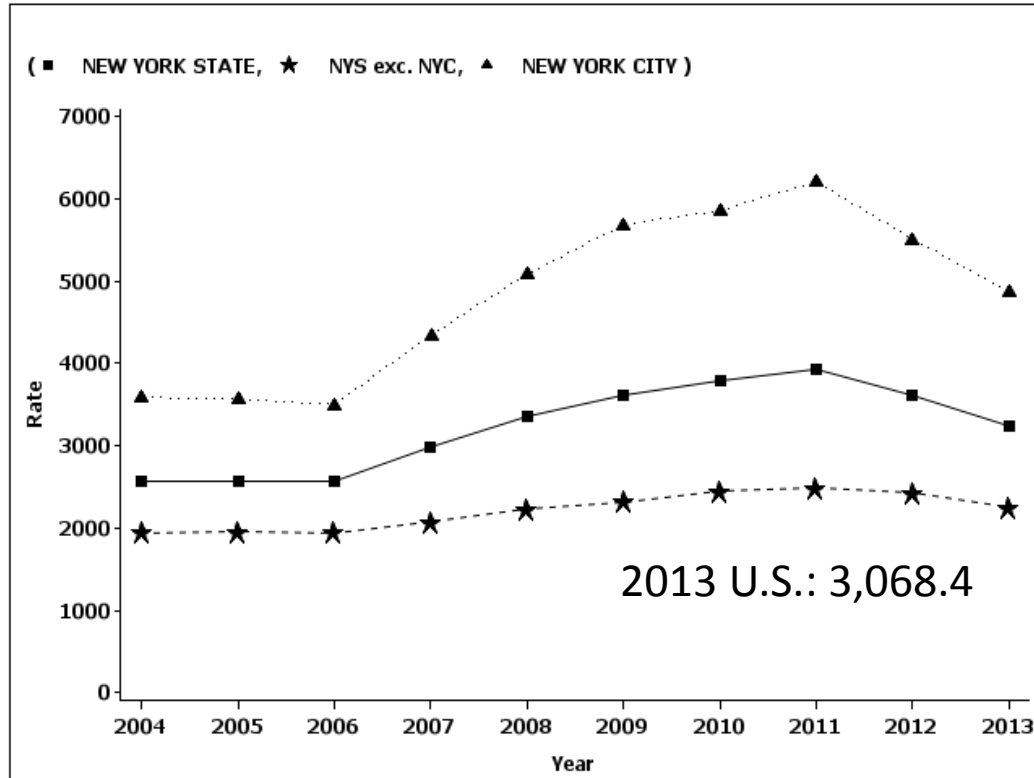
Counties Are Shaded Based On Quartile Distribution

(\* Fewer than 10 events in the numerator, therefore the rate is unstable)



Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015

# Chlamydia case rate per 100,000 females - Aged 15-19 years, New York State

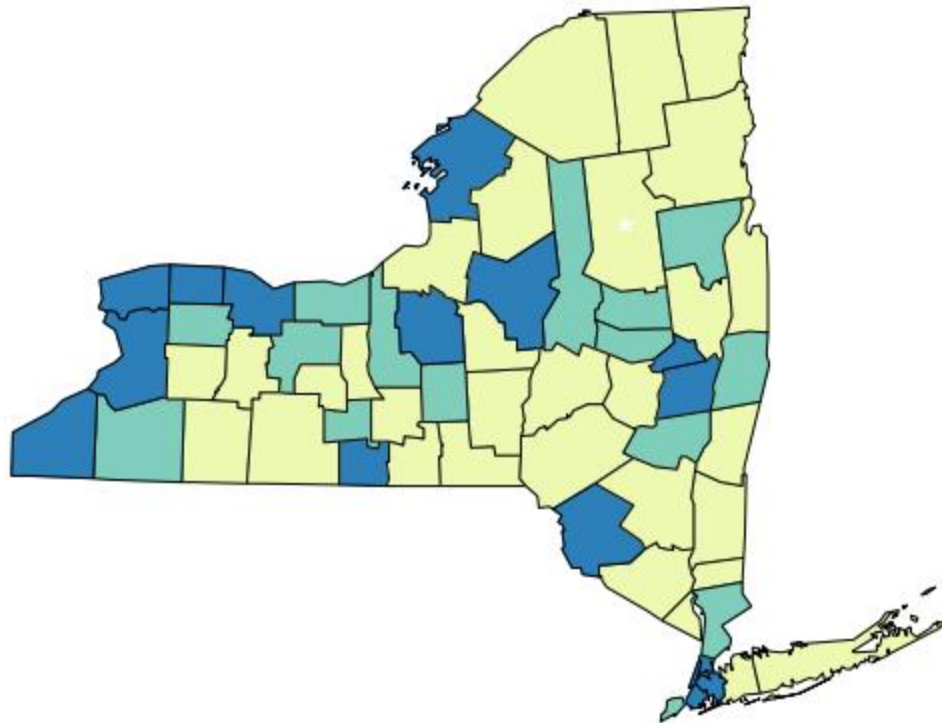


Year	Crude Rate		
	New York State	NYS exc. NYC	New York City
2004	2,569.5	1,942.8	3,589.5
2005	2,576.8	1,949.4	3,566.9
2006	2,560.2	1,944.7	3,502.2
2007	2,977.4	2,076.5	4,346.8
2008	3,365.2	2,234.2	5,082.6
2009	3,605.7	2,320.1	5,686.6
2010	3,798.5	2,452.4	5,851.9
2011	3,922.3	2,482.6	6,210.1
2012	3,607.3	2,423.6	5,514.1
2013	3,246.7	2,253.8	4,868.3

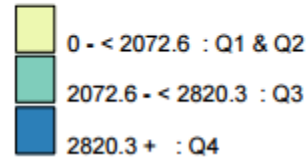
Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015



# Chlamydia case rate per 100,000 females - Aged 15-19 years, 2011-2013

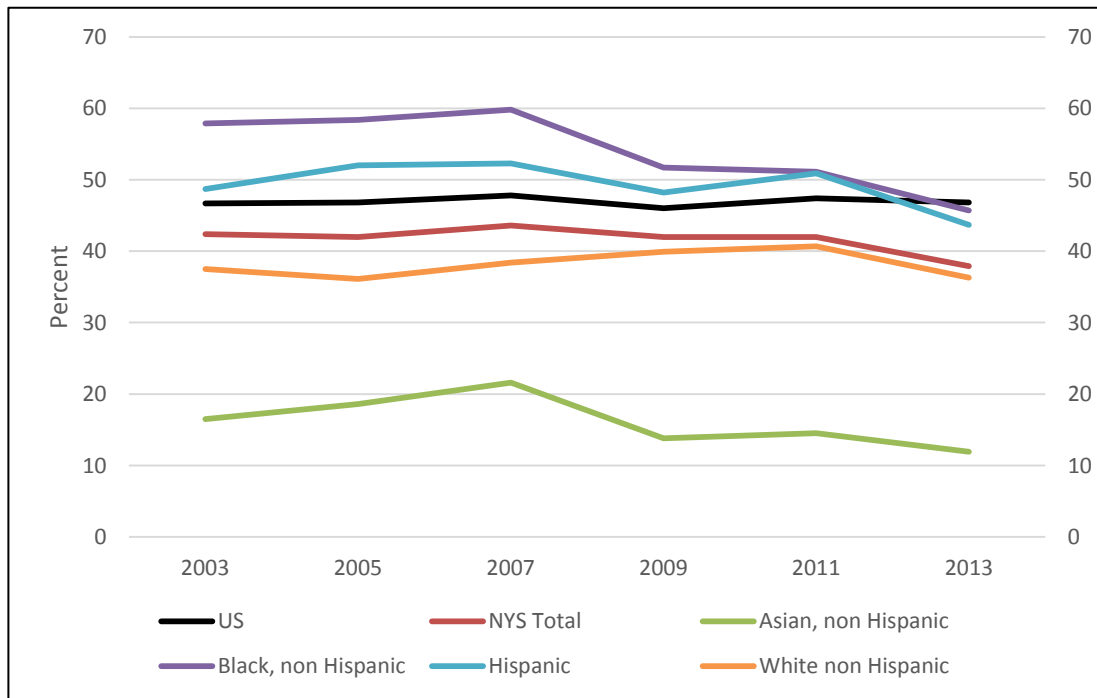


Rate  
Counties Are Shaded Based On Quartile Distribution  
(\* Fewer than 10 events in the numerator, therefore the rate is unstable)

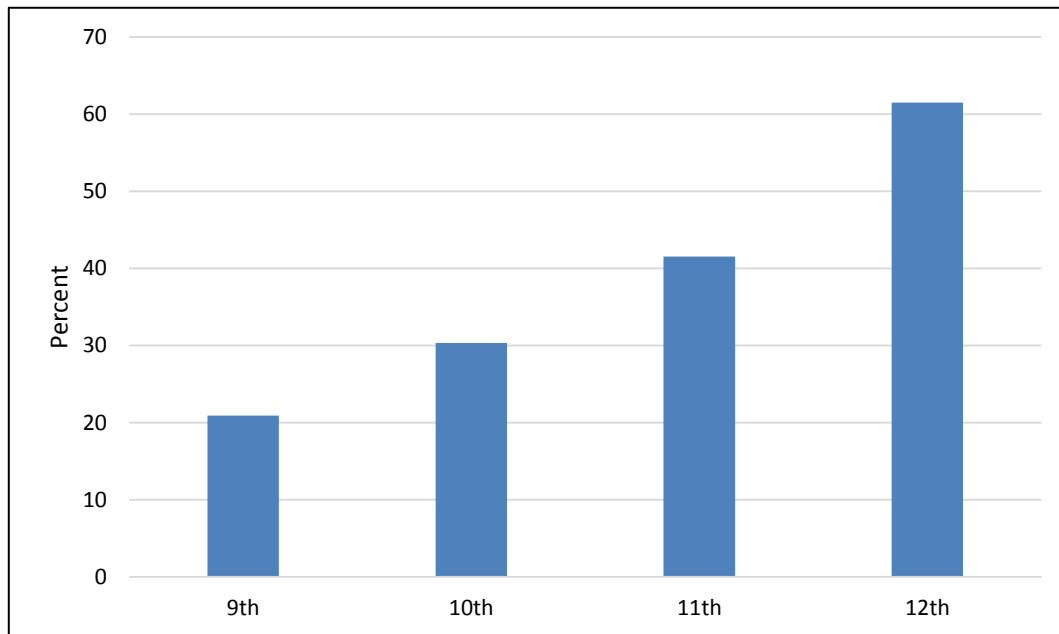


Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015

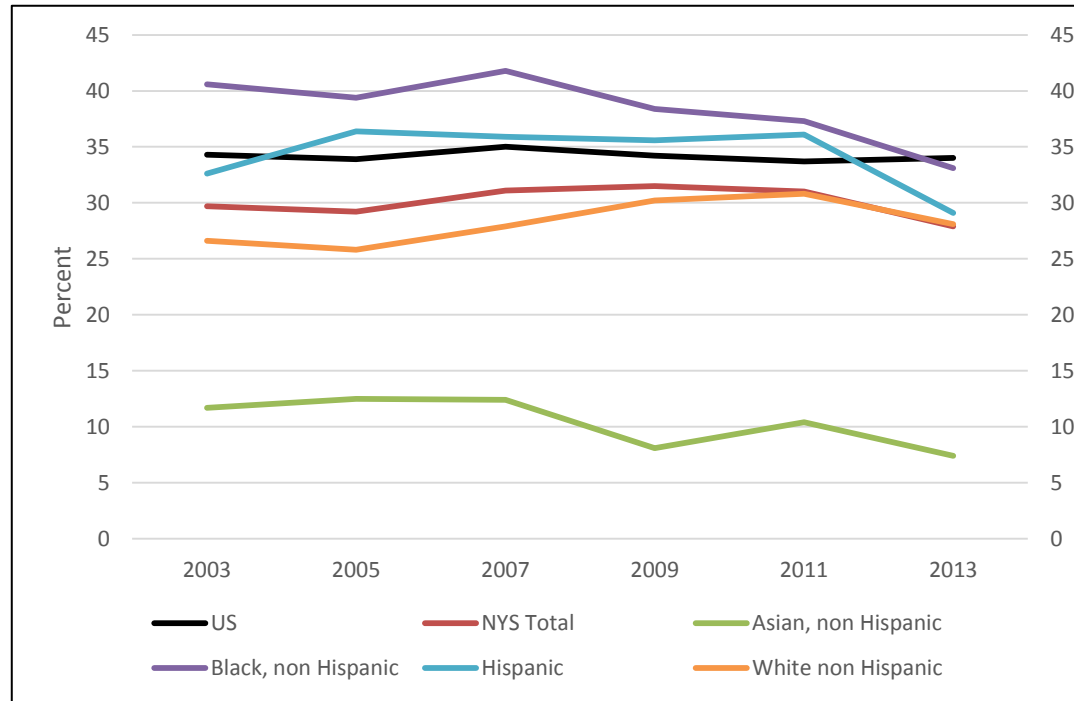
# Ever Had Sexual Intercourse among All High School Students By Race/Ethnicity, New York State



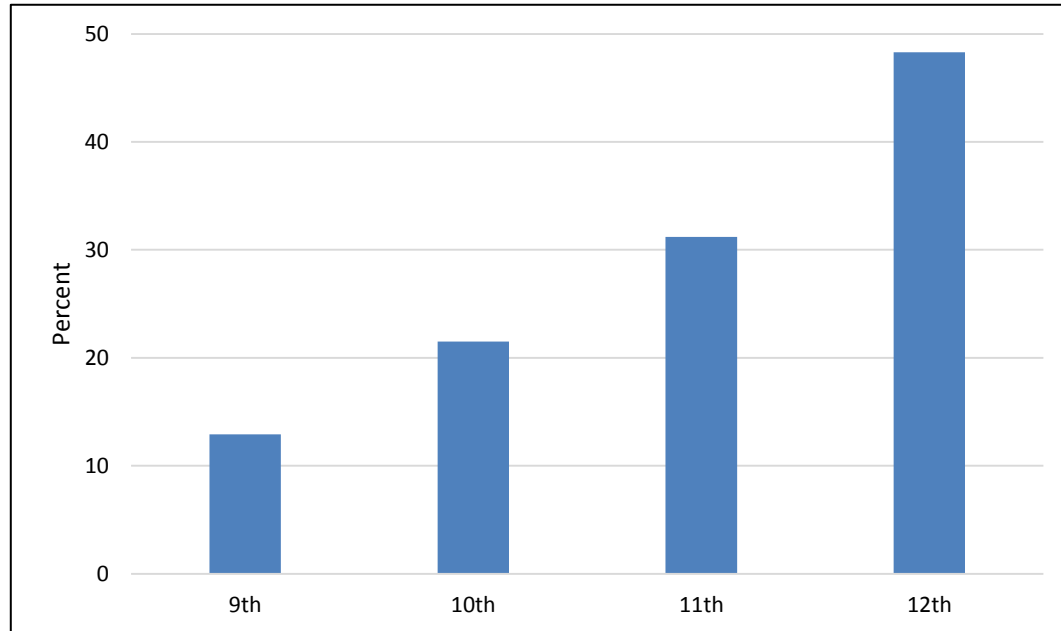
# Ever Had Sexual Intercourse among High School Students By Grade, New York State, 2013



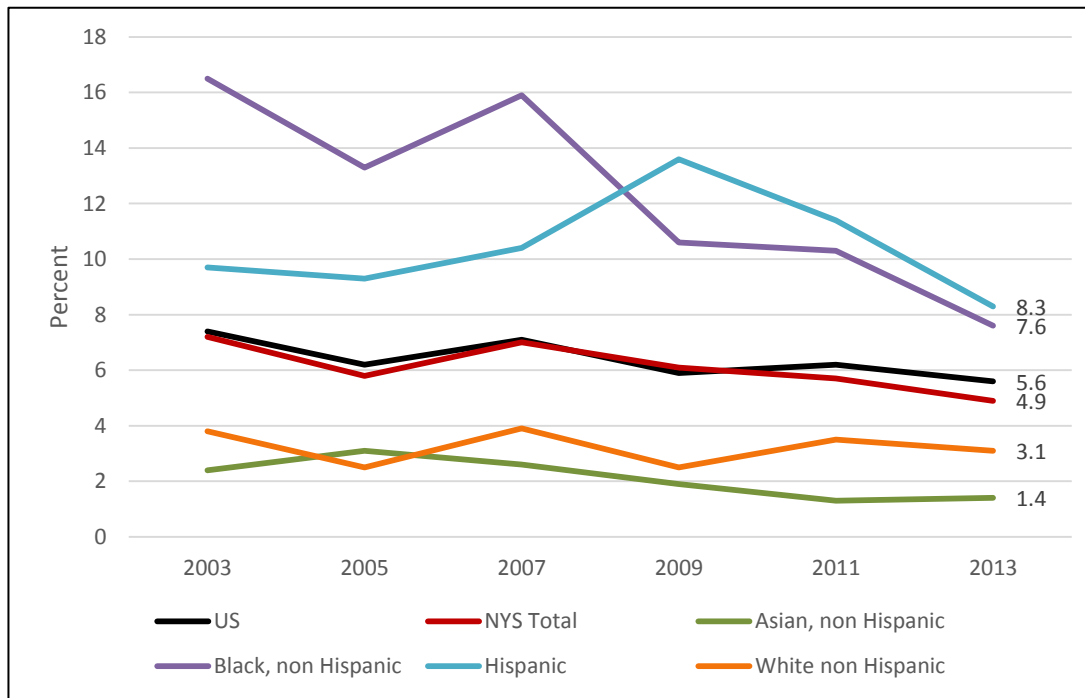
# Currently Sexually Active, among All High School Students By Race/Ethnicity, New York State



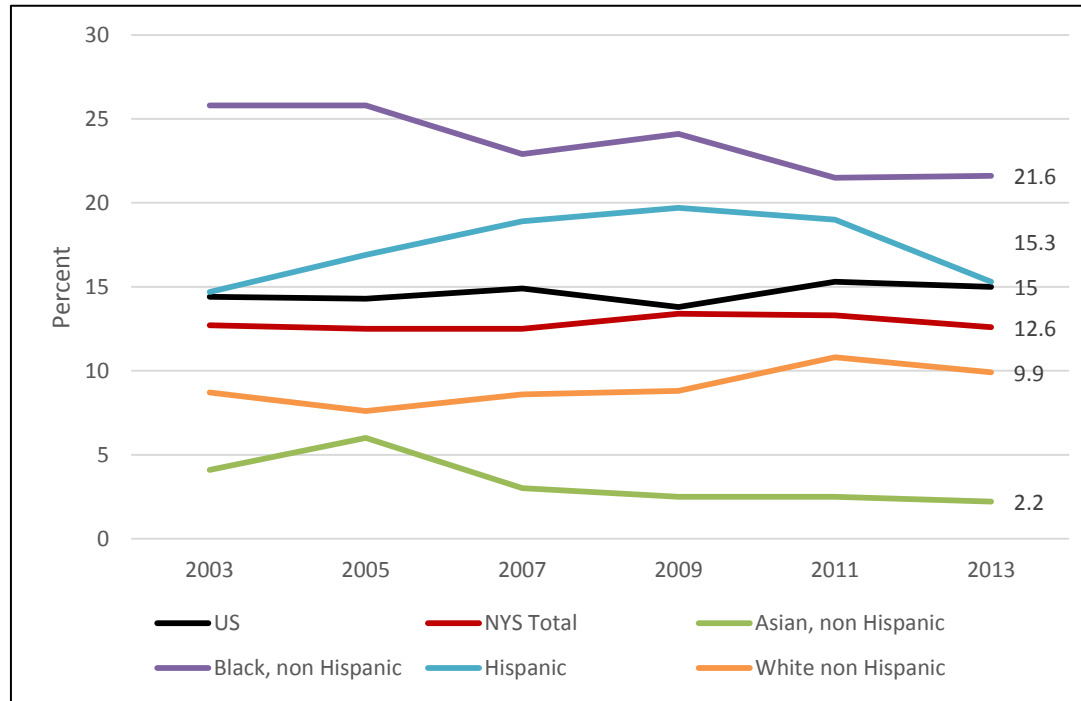
# Currently Sexually Active, among High School Students By Grade, New York State, 2013



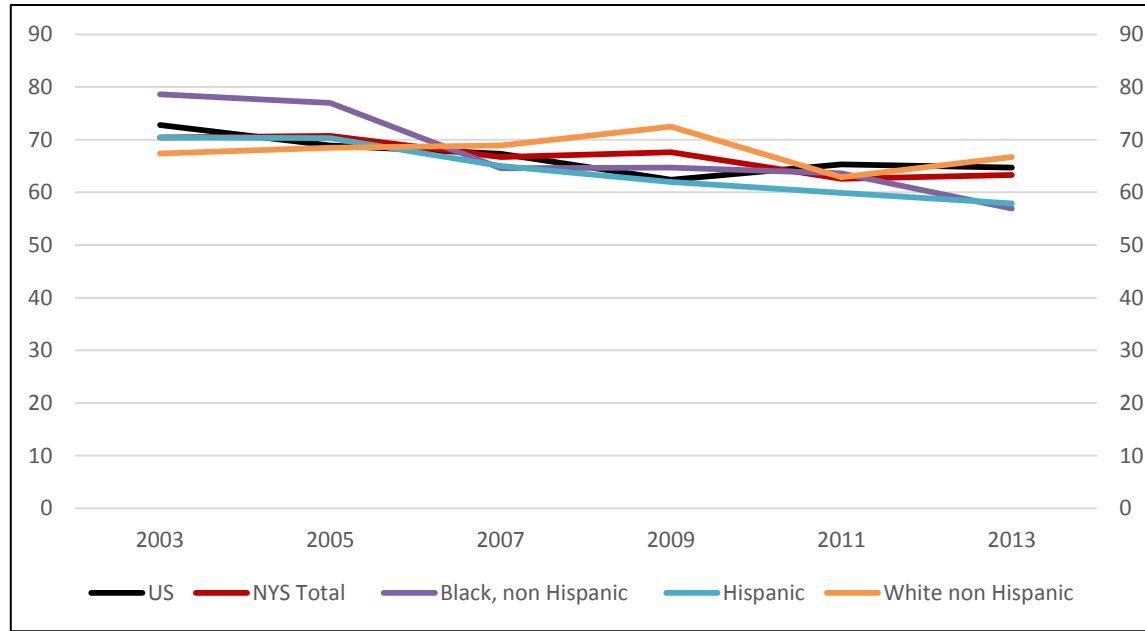
# Had first Sexual Intercourse Before Age 13 among All High School Students, By Race/Ethnicity, New York State



# Have Had Sexual Intercourse With Four Or More Persons, among All High School Students, By Race/Ethnicity, New York State



# Used A Condom\* (during last sexual intercourse), among High School Students who were currently sexually active By Race/Ethnicity, New York State

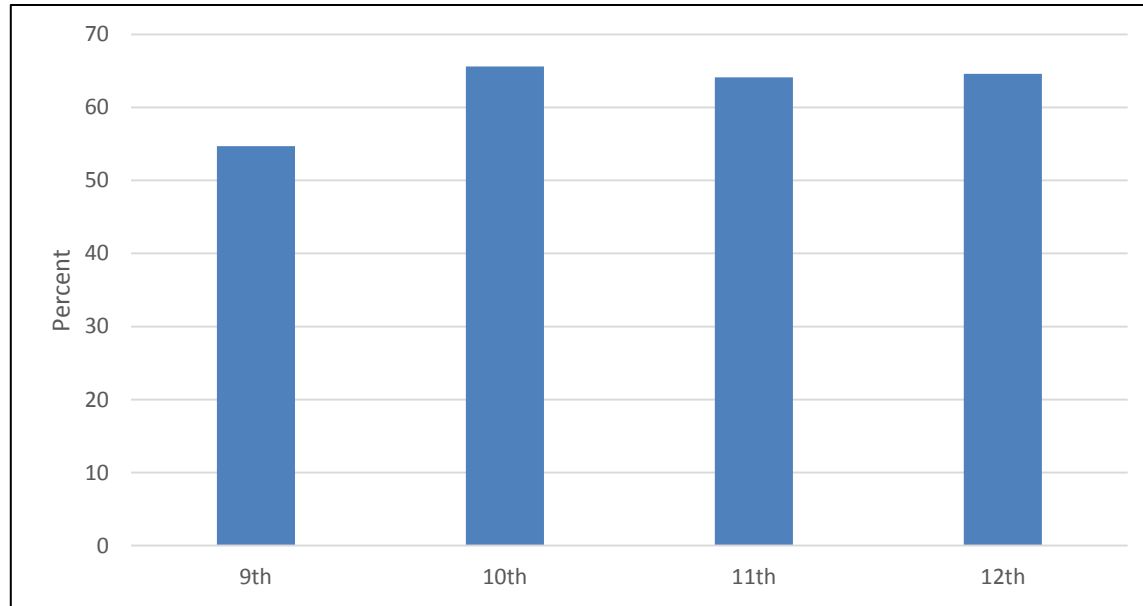


\*You or your partner.

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>



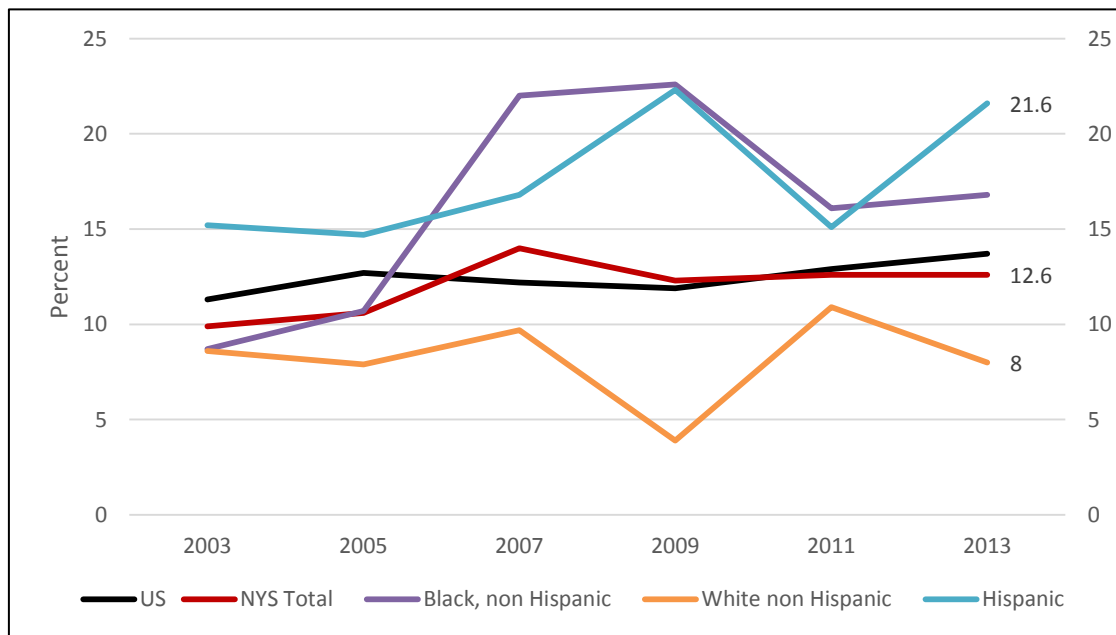
# Used A Condom\* (during last sexual intercourse), among High School Students who were currently sexually active By Grade, New York State, 2013



\*You or your partner.

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>

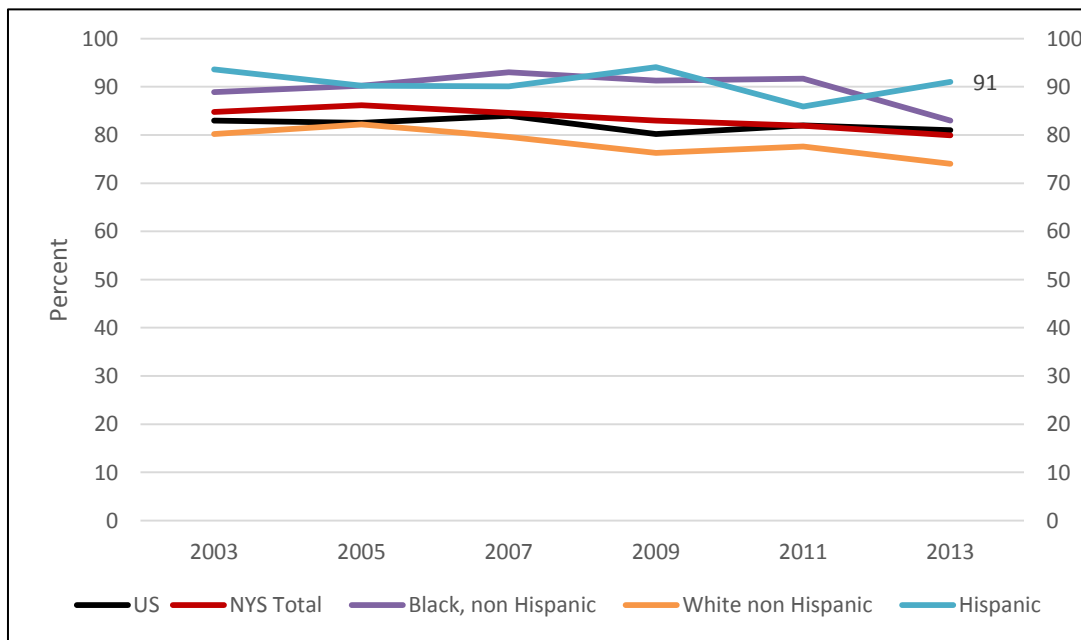
# Did Not Use\* Any Method to Prevent Pregnancy (during last sexual intercourse), among High School Students who were currently sexually active, By Race/Ethnicity, New York State



\*You or your partner.

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>

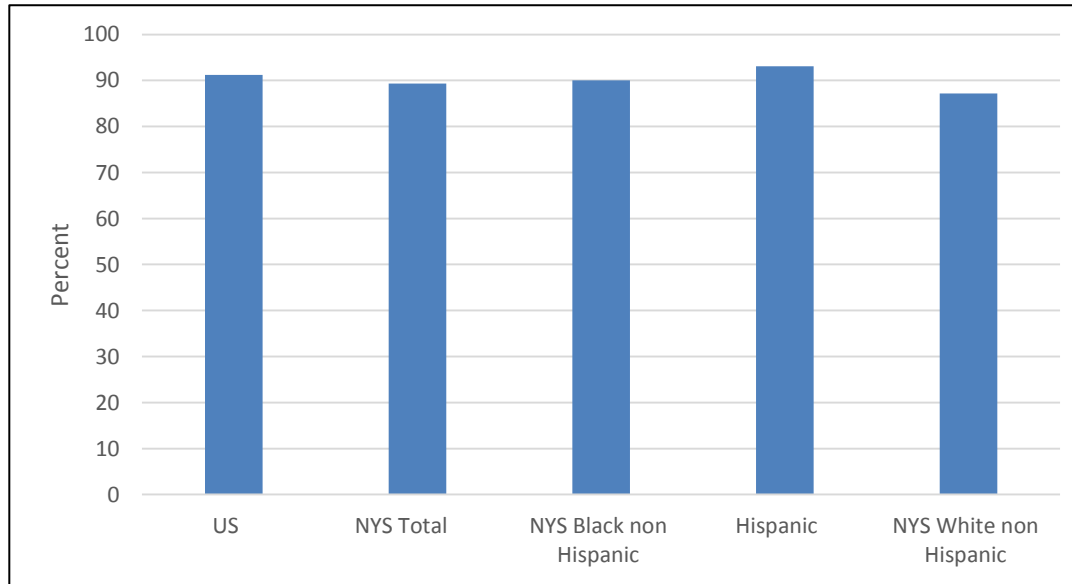
# Did Not Use\* Birth Control Pills (before last sexual intercourse), among High School Students who were currently sexually active By Race/Ethnicity, New York State



\*You or your partner.

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>

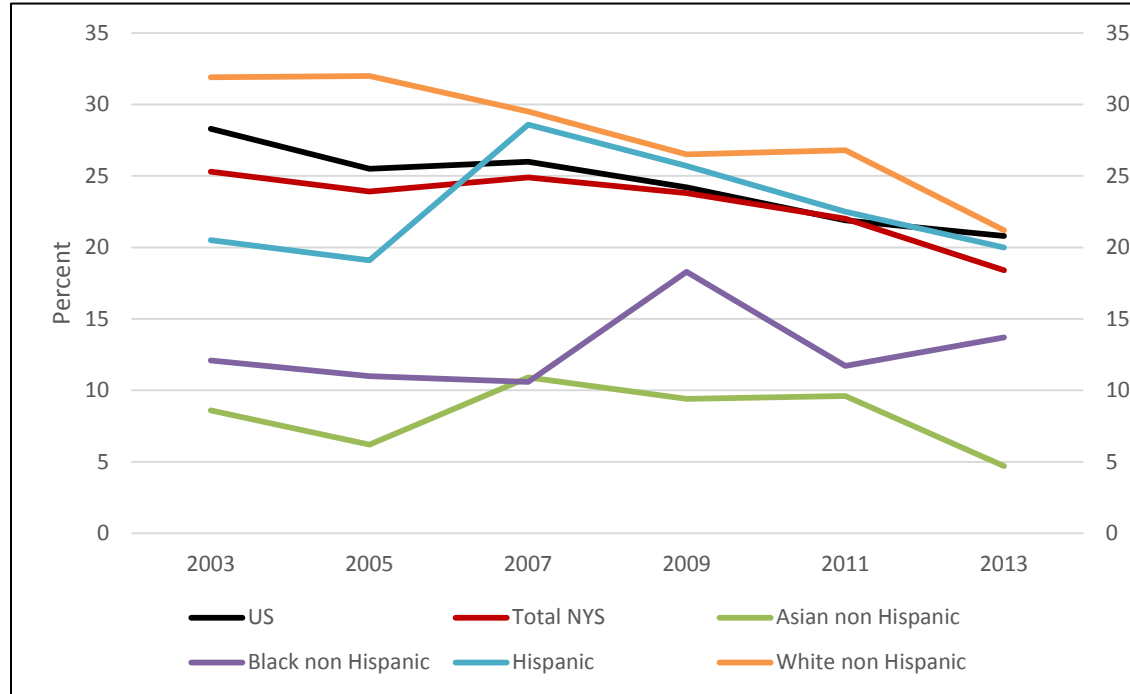
# Did Not Use\* BOTH A Condom During And Birth Control Pills; An IUD Or Implant; Or A Shot, Patch, Or Birth Control Ring Before Last Sexual Intercourse (to prevent STD and pregnancy), among High School Students who were currently sexually active, By Race/Ethnicity, New York State, 2013



\*You or your partner.

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>

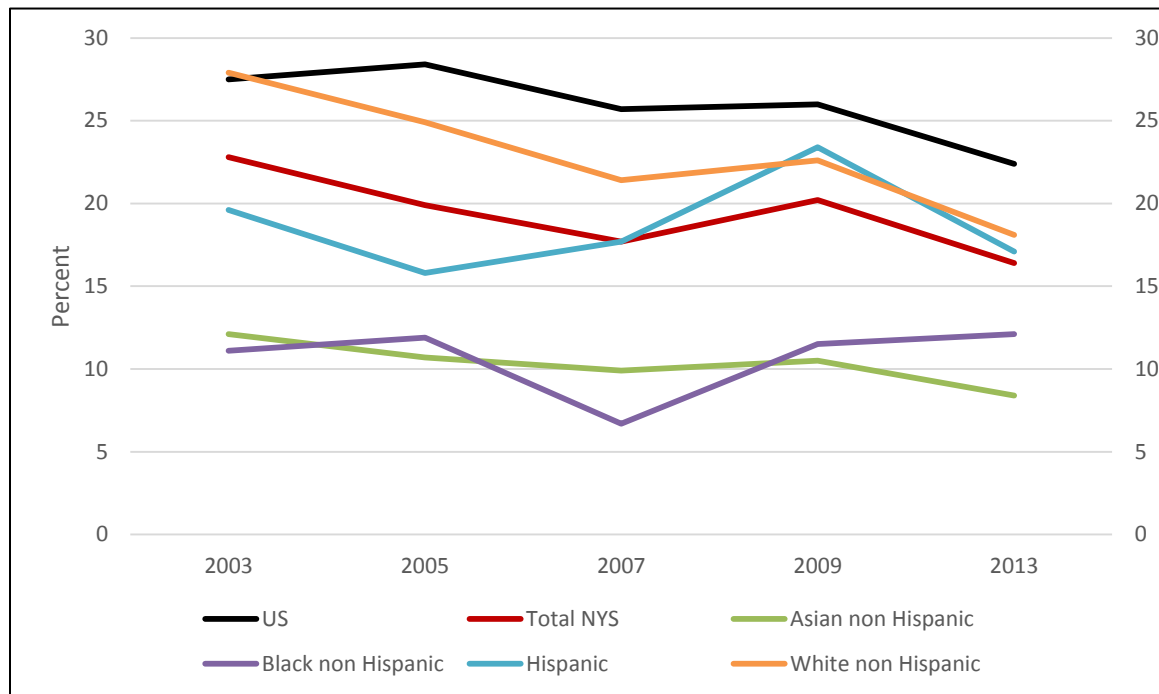
# Had Five Or More Drinks Of Alcohol In A Row\* among High School Students, By Race/Ethnicity, New York State



\* Within a couple of hours on at least 1 day during the 30 days before the survey

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>

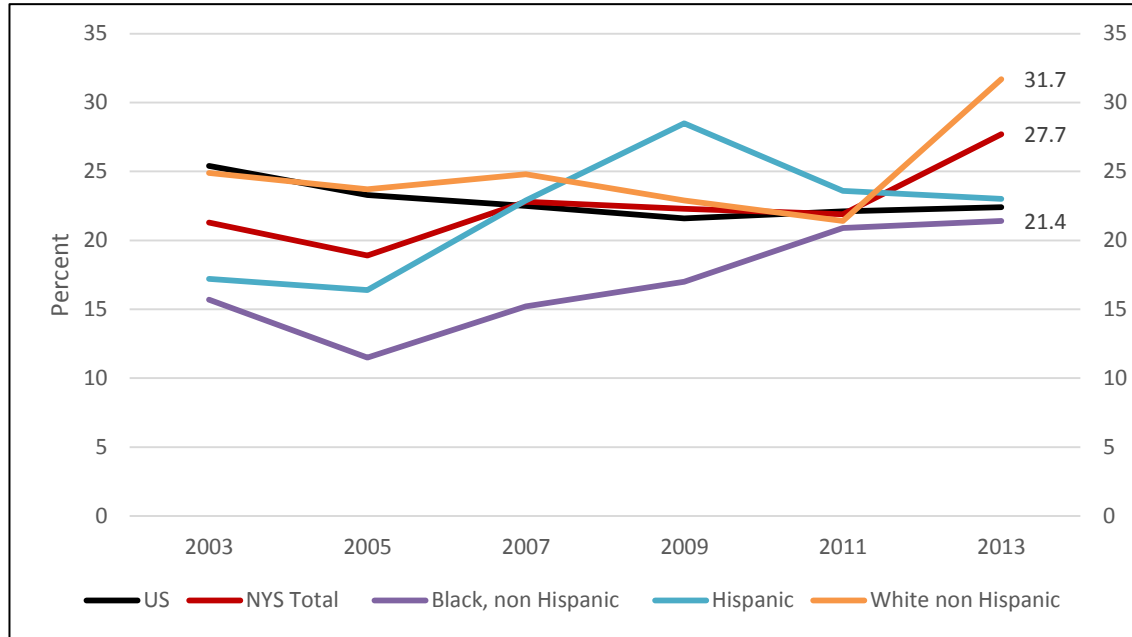
# Currently Use Tobacco\*, among High School Students, By Race/Ethnicity, New York State



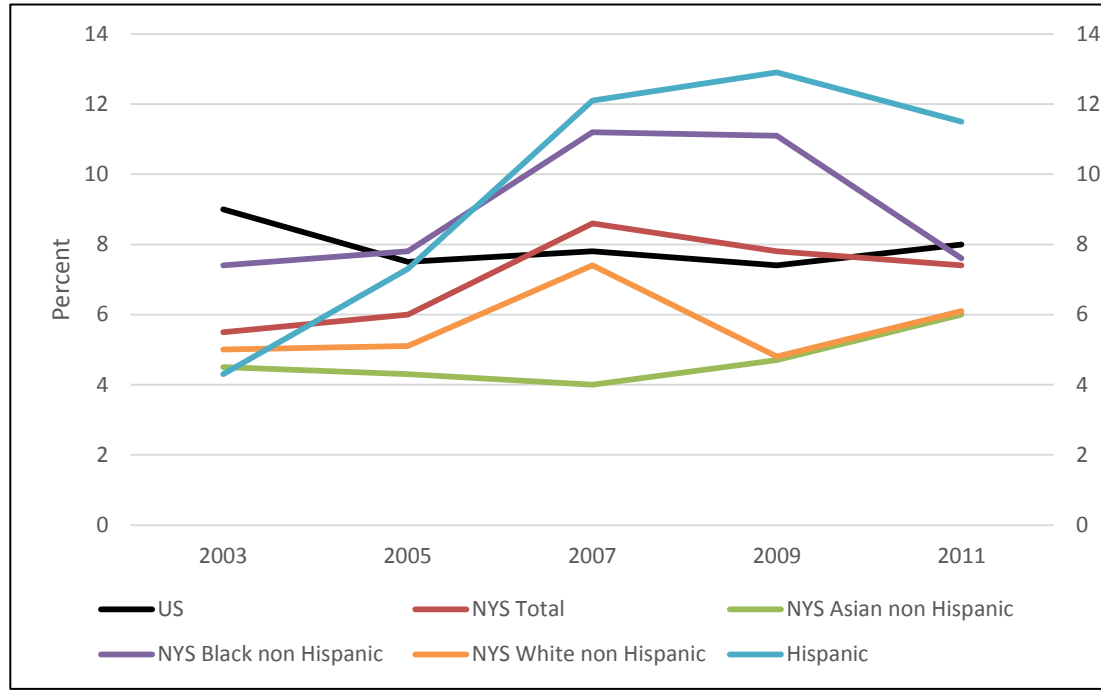
\* Current cigarette use, current smokeless tobacco use, or current cigar use

Youth Risk Behavior Surveillance System (YRBSS) <https://nccd.cdc.gov/youthonline/App/Default.aspx?SID=HS>

# Drank Alcohol Or Used Drugs Before Last Sexual Intercourse, among High School Students who were currently sexually active, By Race/Ethnicity, New York State

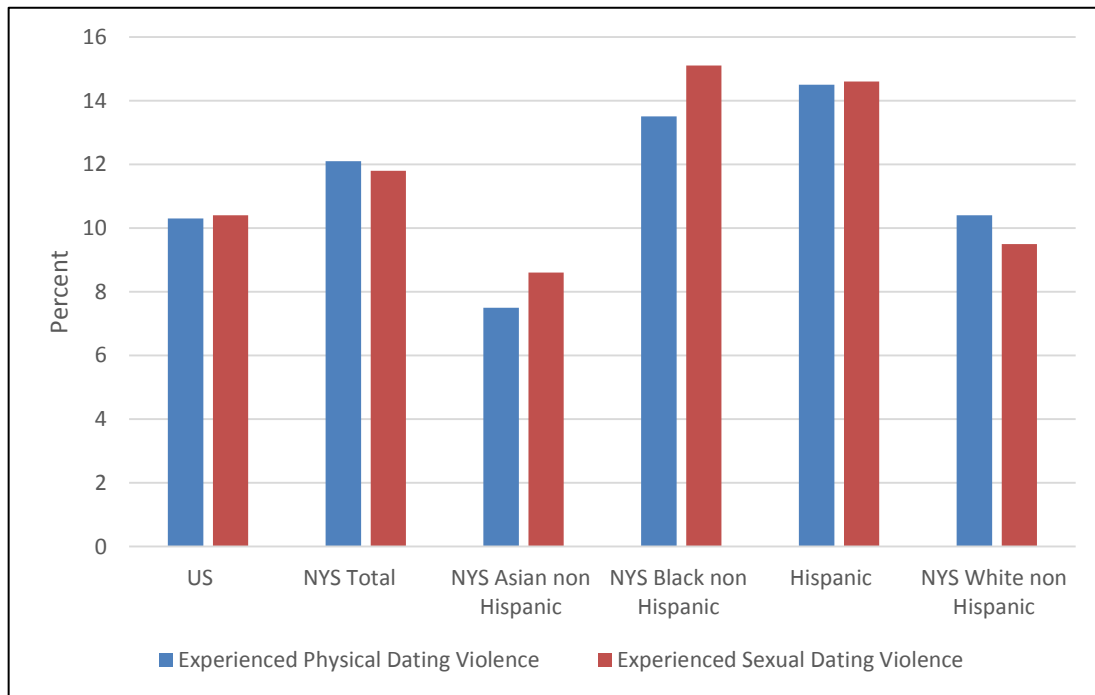


# Were Ever Forced To Have Sexual Intercourse, among High School Students, By Race/Ethnicity, New York State





# Experienced Physical or Sexual Dating Violence, among High School Students, By Race/Ethnicity, New York State, 2013



# Summary

- Outcome data demonstrate improvement, with consistent reductions in pregnancy, birth rates and a recent reduction in STD rates among teens.
- STDs among teens in NYS, while decreasing, continue to be at higher rates than in the US
- Racial/ethnic and geographic disparities in these outcomes exist:
  - Hispanic, and Black non-Hispanic teens have much higher pregnancy and birth rates than White and Asian non-Hispanic teens.
  - Half or more of births to teens, teen gonorrhea cases and teen chlamydia cases are in NYC. Large numbers and burden are evident in other urban counties.

# Summary

- Data on adolescent sexual health behaviors demonstrate some improvements:
  - Some racial and ethnic groups have delayed the age when they are sexually active.
  - There was reduction in prevalence of Hispanic high school students who had ever had sexual intercourse and who are currently sexually active.
- However,
  - There has been reduction in the prevalence of students who currently use a condom; and condom use is lowest among the youngest high schoolers (9th graders).
  - Higher percent of Hispanic, and Black non-Hispanic teens had sex before age 13, or with 4 or more people, compared to White and Asian non-Hispanic teens.

# Summary

- While there has been a reduction in binge drinking and smoking, we observed increases in other risky behaviors, including drinking alcohol or using drugs before sexual intercourse;
- One in eight NYS high school students experienced physical or sexual dating violence, rates were higher for Hispanic and Black students.

Data Source	Location
NYSDOH Prevention Agenda Dashboard	<a href="https://www.health.ny.gov/preventionagendadashboard">https://www.health.ny.gov/preventionagendadashboard</a>
Youth Risk Behavior Surveillance System (YRBSS)	<a href="http://www.cdc.gov/yrbss">http://www.cdc.gov/yrbss</a>
New York City Youth Risk Behavior Survey	<a href="https://a816-healthpsi.nyc.gov/epiquery/">https://a816-healthpsi.nyc.gov/epiquery/</a>
Monroe County Youth Risk Behavior Survey	<a href="http://www.mcsafecommunities.org/pdfs/downloads/2013YRBS.pdf">http://www.mcsafecommunities.org/pdfs/downloads/2013YRBS.pdf</a>
Buffalo Youth Risk Behavior Survey	<a href="http://www.buffaloschools.org/HealthRelatedServices.cfm?subpage=98329">http://www.buffaloschools.org/HealthRelatedServices.cfm?subpage=98329</a>
Community Health Indicator Reports (CHIRS)	<a href="http://www.health.ny.gov/statistics/chac/indicators/">http://www.health.ny.gov/statistics/chac/indicators/</a>
County Health Indicators by Race/Ethnicity (CHIRE)	<a href="http://www.health.ny.gov/statistics/community/minority/county/">http://www.health.ny.gov/statistics/community/minority/county/</a>
Sexually Transmitted Diseases Data and Statistics NYS	<a href="http://www.health.ny.gov/statistics/diseases/communicable/std/">http://www.health.ny.gov/statistics/diseases/communicable/std/</a>
Kid's Well-being Indicators Clearinghouse (KWIC)	<a href="http://www.nyskwic.org/index.cfm">http://www.nyskwic.org/index.cfm</a>
Vital Statistics of New York State	<a href="http://www.health.ny.gov/statistics/vital_statistics/">http://www.health.ny.gov/statistics/vital_statistics/</a>
CDC Vital Signs	<a href="http://www.cdc.gov/vitalsigns/teen-pregnancy.html">http://www.cdc.gov/vitalsigns/teen-pregnancy.html</a>
Healthy People 2020 Objectives	<a href="http://www.healthypeople.gov/2020/topics-objectives">http://www.healthypeople.gov/2020/topics-objectives</a>

# Thank You!

## Definitions:

Indicator	Description
Adolescent pregnancy rate per 1,000 females aged 15-17 years	Pregnancies are the sum of the number of live births, spontaneous fetal death of all gestations, and induced abortions. Pregnancy rates are the number of pregnancies per 1,000 females aged 15-17 years.
Adolescent birth rate per 1,000 females aged 15-17 years	Birth (fertility) rates are the number of births per 1,000 females aged 15-17 years.
Gonorrhea and Chlamydia rate	Gonorrhea and chlamydia rates are the number of cases in a particular age group and gender per 100,000 population in that specific group.