



# **PREVENT HIV/STDS, VACCINE PREVENTABLE DISEASES AND HEALTHCARE-ASSOCIATED INFECTIONS**

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# **STDs IN COLUMBIA & GREENE COUNTIES**

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# The Effect of STDs on the Population

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

	Columbia	Greene	Capital Region
Number of Gonorrhea cases per year (2013)	7	11	504
Number of Chlamydia cases (2013)	132	124	1,001
Number of HIV cases per year (2013)	15	5	68
Number of AIDS deaths per year (2013)	S	S	15



s: Data do not meet reporting criteria

# STD Indicators and Significance per 100,000 population compared to NYS

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

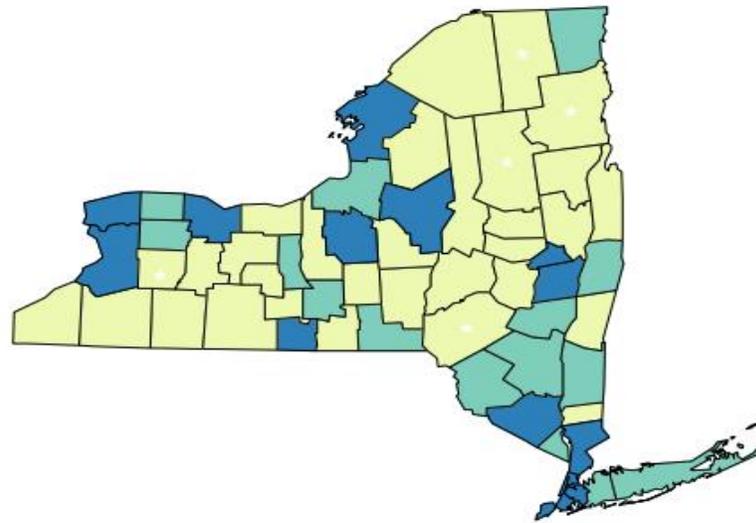


	Columbia		Greene		Capital Region		Upstate
<b>Gonorrhea cases rate</b>	16.6	Lower	28.1	Lower	54.5	Lower	61.1
<b>Gonorrhea cases rate ages 15-19</b>	52.1	Lower	133.4	Lower	177.4	Lower	203.6
<b>Chlamydia cases rate (Females)</b>	102.1	Lower	184.9	Lower	488.0	Higher	466.8
<b>HIV Cases Rate (Age-Adjusted)</b>	8.8	Higher	3.5	Lower	7.0	Lower	7.9
<b>AIDS Mortality (Age-Adjusted)</b>	0.4	Lower	2.5	Lower	4.4	Lower	4.5

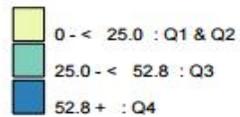
# Gonorrhea Case Rates per 100,000 females, ages 15-44 (2013)

Gonorrhea case rate per 100,000 - All ages

2011-2013



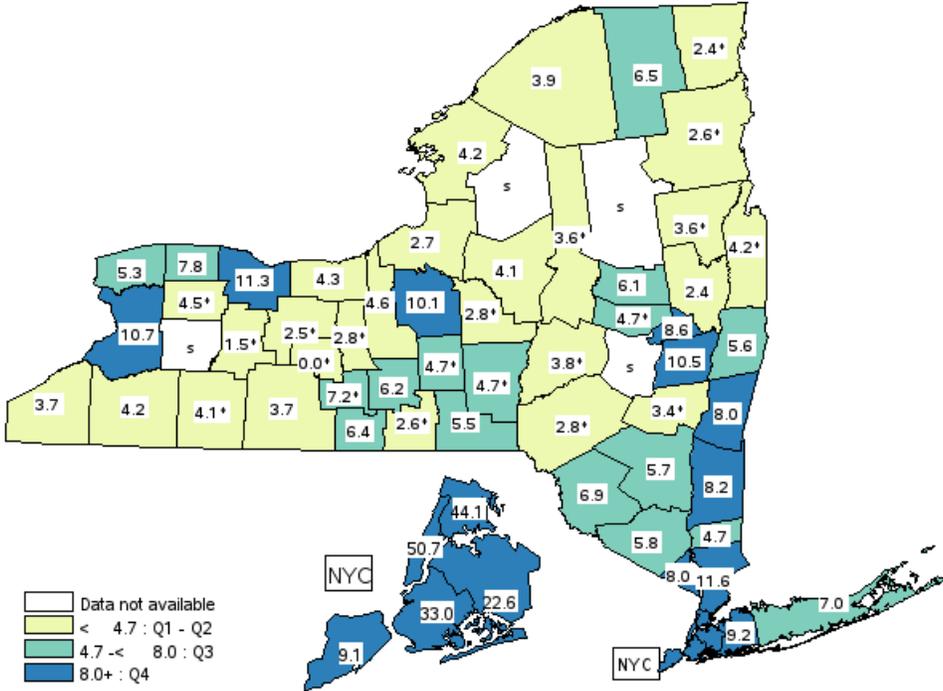
Rate  
Counties Are Shaded Based On Quartile Distribution  
(\* Fewer than 10 events in the numerator, therefore the rate is unstable)



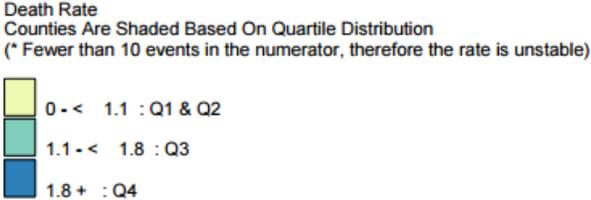
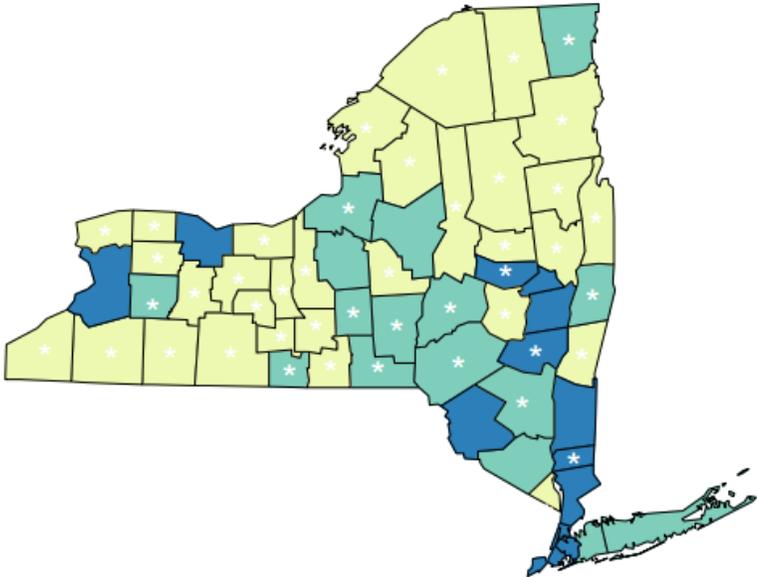


### Newly diagnosed HIV case rate per 100,000 (2011-2013)

Data Source: Bureau of HIV/AIDS Epidemiology data as of April 2015



### AIDS Mortality rate per 100,000 (2011-2013)

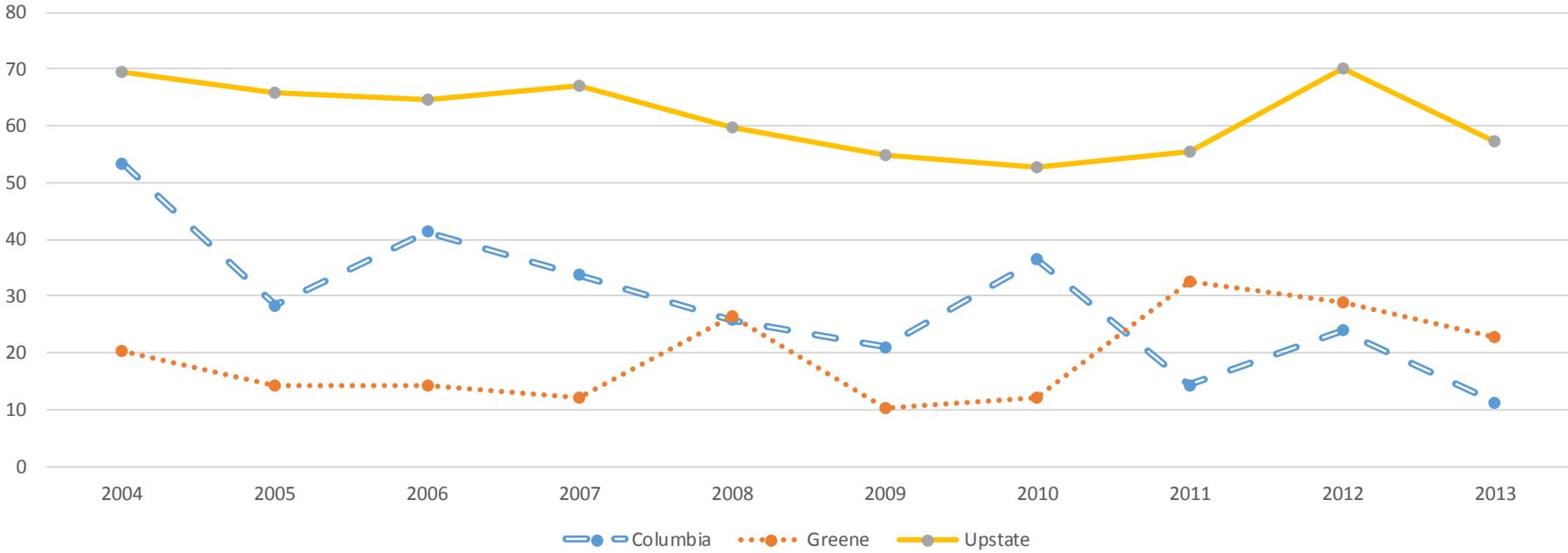


Source: 2011-2013 Vital Statistics Data as of February, 2015



## Gonorrhea Case Rate per 100,000 population (all ages) for NYS (excl. NYC), Columbia, and Greene Counties, 2004-2013

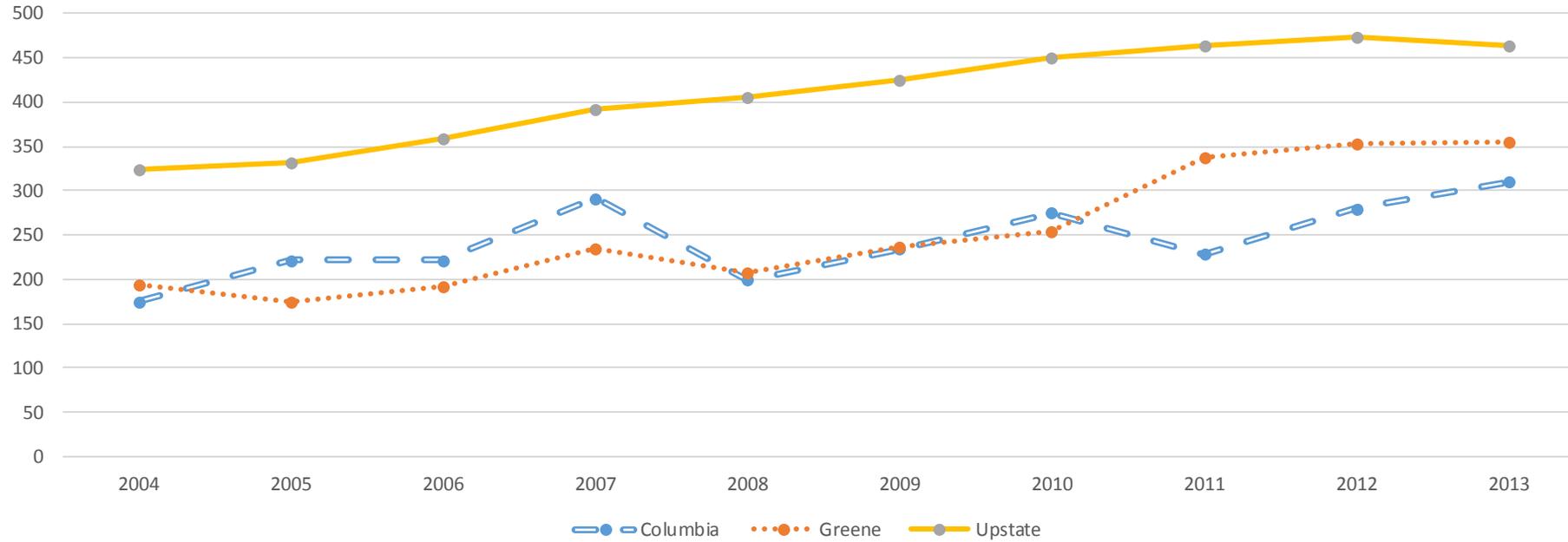
Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Columbia</b>	53.4	28.3	41.3	33.7	25.8	21.1	36.5	14.4	24	11.2
<b>Greene</b>	20.3	14.1	14.1	12.2	26.5	10.2	12.2	32.7	28.8	22.7
<b>Upstate</b>	69.4	65.8	64.6	67	59.6	54.8	52.8	55.6	70.2	57.4

## Chlamydia Case Rate per 100,000 of the female population (all ages) for NYS (excl. NYC), Columbia, and Greene Counties, 2004-2013

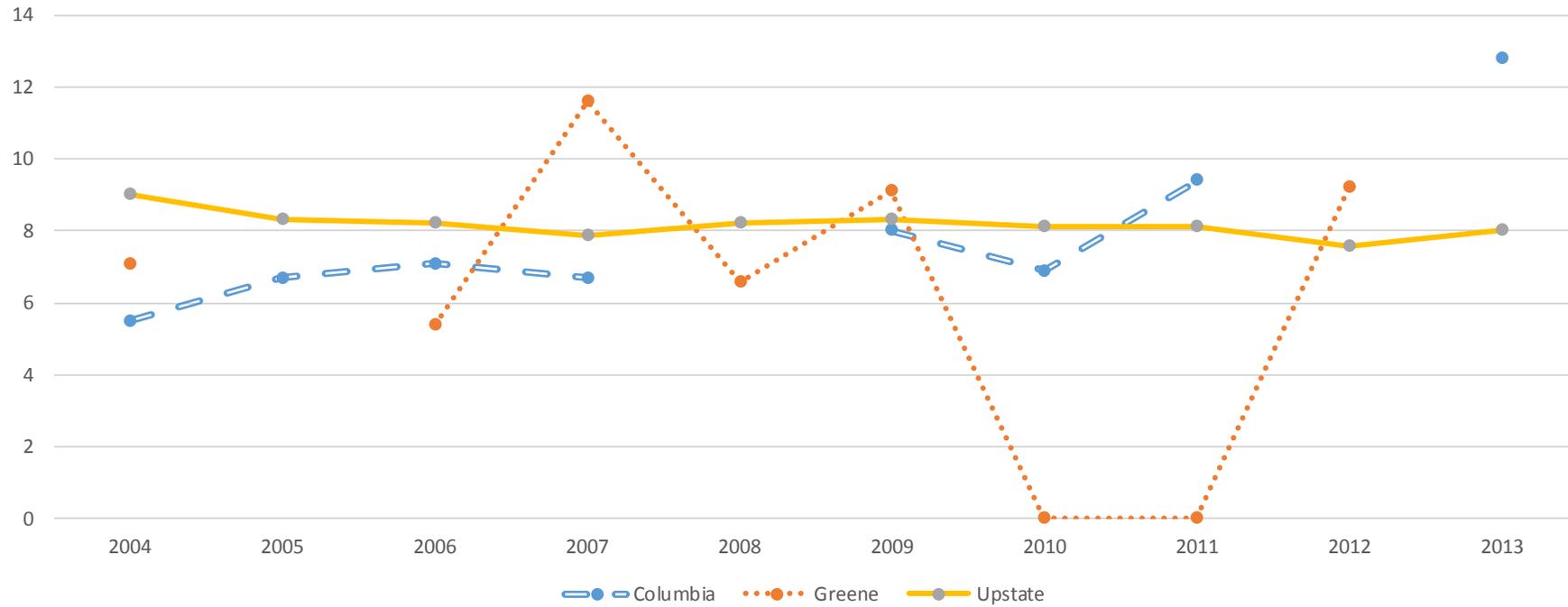
Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Columbia</b>	174.8	222	221.6	291.1	199.6	234.1	274.5	228.1	279.4	309.5
<b>Greene</b>	193.1	174.5	191.5	235.3	207.1	237.5	254.9	337.5	352.5	354
<b>Upstate</b>	324.3	331.2	358.9	391.6	405.5	423.9	449.2	464.2	473.4	462.7



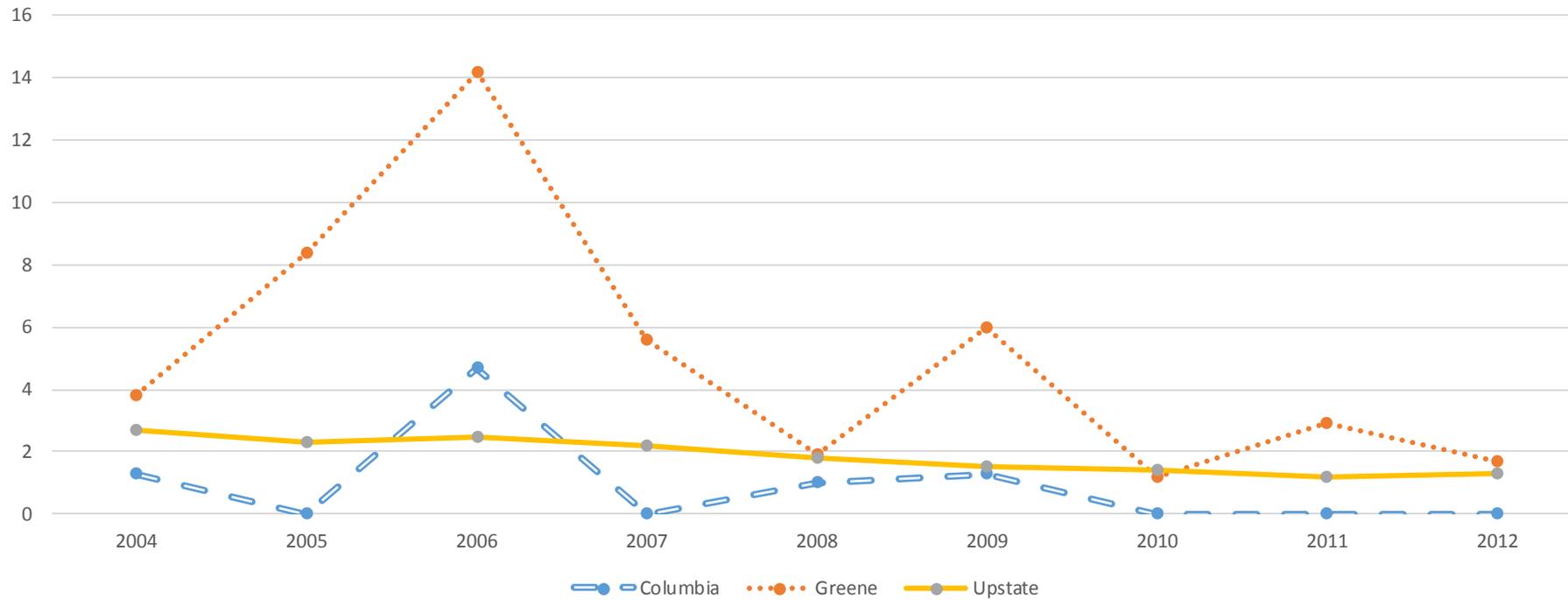
Age-Adjusted HIV Case Rate per 100,000 population (all ages) for NYS (excl. NYC), Columbia, and Greene Counties, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012
<b>Columbia</b>	5.5	6.7	7.1	6.7	S	8	6.9	9.4	S
<b>Greene</b>	7.1	S	5.4	11.6	6.6	9.1	0	0	9.2
<b>Upstate</b>	9	8.3	8.2	7.9	8.2	8.3	8.1	8.1	7.6

s: Data do not meet reporting criteria

Age-Adjusted AIDS Mortality Rate per 100,000 population (all ages) for NYS (excl. NYC), Columbia, and Greene Counties, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Columbia</b>	1.3	0	4.7	0	1	1.3	0	0	0	1.3
<b>Greene</b>	3.8	8.4	14.2	5.6	1.9	6	1.2	2.9	1.7	2.9
<b>Upstate</b>	2.7	2.3	2.5	2.2	1.8	1.5	1.4	1.2	1.3	1.3



# EQUITY

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# STD Indicators per 100,000 population by Age compared to NYS, excl. NYC

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



<b>Gonorrhea</b>	<b>Columbia</b>	<b>Greene</b>	<b>Capital Region</b>	<b>Upstate</b>
<b>Ages 15-19</b>	52.1	133.4	177.4	203.6
<b>All ages</b>	16.6	28.1	54.5	61.1

<b>Chlamydia</b>	<b>Columbia</b>	<b>Greene</b>	<b>Capital Region</b>	<b>Upstate</b>
<b>Females (Ages 15-19)</b>	1,533.9	2,252.3	2,637.2	2,387.5
<b>Females (Ages 20-24)</b>	2,279.2	2,870.3	2,681.2	2,743.8
<b>Females (Ages 15-44)</b>	944.8	1,073.2	1,290.6	1,220.3
<b>Females (All ages)</b>	272.3	348.0	488.0	466.8

# STD Indicators per 100,000 population by Gender compared to NYS, excl. NYC

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



<b>Gonorrhea</b>	<b>Columbia</b>	<b>Greene</b>	<b>Capital Region</b>	<b>Upstate</b>
<b>Females ages 15-44 (2013)</b>	41.1	107.3	140.0	149.3
<b>Males 15-44 (2013)</b>	28.7	31.0	111.9	129.7
<b>Chlamydia</b>	<b>Columbia</b>	<b>Greene</b>	<b>Capital Region</b>	<b>Upstate</b>
<b>Females (Ages 15-19)</b>	1,533.9	2,252.3	2,637.2	2,387.5
<b>Males (Ages 15-19)</b>	341.7	817.2	651.5	608.6
<b>Females (Ages 20-24)</b>	2,279.2	2,870.3	2,681.2	2,743.8
<b>Males (Ages 20-24)</b>	730.2	917.1	1,055.3	1,089.0
<b>Females (All Ages)</b>	272.3	348.0	488.0	466.8
<b>Males (All Ages)</b>	102.1	184.9	210.8	203.0

# STDs Summary



Annually, Columbia and Greene County have:

- 256 cases of Chlamydia amongst all ages; 172 to all females and 53 to females 15-19 years old
- 68 cases of Gonorrhea amongst all ages; 18 case of Gonorrhea amongst 15-19 year olds
- 3 deaths resulting from AIDS

# STDs Summary

- Both Columbia and Greene counties have significantly lower rates of Gonorrhea compared to the rest of NYS
- Columbia county had significantly lower male and female Chlamydia rates when compared to the rest of NYS; Greene county had higher Chlamydia rates than that of the rest of NYS in females ages 20-24 and males ages 15-19
- Gonorrhea has seen a general decrease in both counties and rates have remained much lower than that of the rest of NYS; Greene county is in the 4<sup>th</sup> Risk Quartile for Gonorrhea cases in females ages 15-44 years
- Female Chlamydia rates have been increasing both counties over the last decade
- HIV case rates have seen unsteady rates over the last decade, with some data unavailable, but there appears to be increasing rates since 2010.
- Gonorrhea and Chlamydia rates decrease with age, teens having the highest rates.
- Females have higher Gonorrhea and Chlamydia rates when compared to males





# **LYME DISEASE IN COLUMBIA & GREENE COUNTIES**

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## The Effect of Lyme Disease on the Population

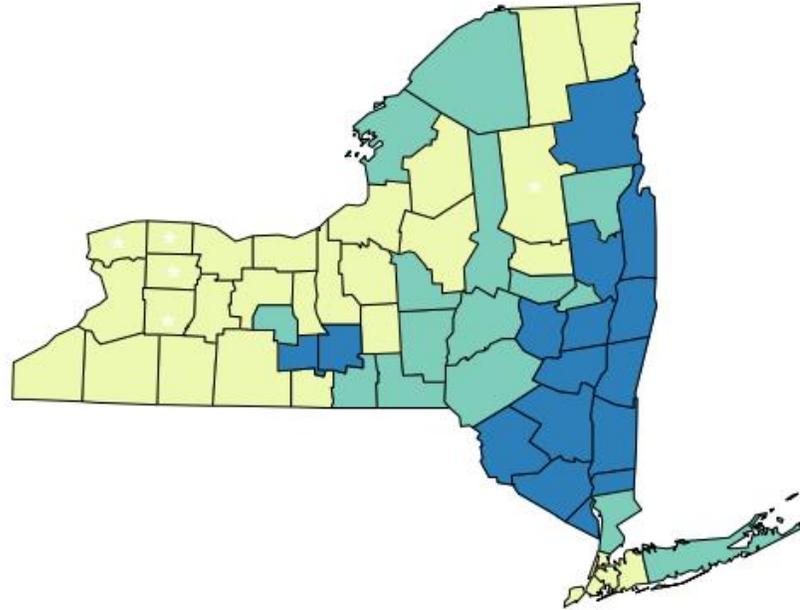
Source: 2011-2013 Bureau of Communicable Disease Control Data as of June, 2015

	Columbia	Greene	Capital Region
Number of Lyme Disease cases (2013)	303	326	1,983

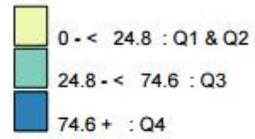
## Lyme Disease Indicators and Significance Compared to NYS, excl. NYC, 2011-2013

	Columbia	Greene	Capital Region	Upstate
Lyme Disease Cases rate per 100,000	533.9	574.3	206.8	57.8

# Lyme Disease Case Rate per 100,000 (2011-2013)



Incidence 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 Communicable Disease Control Data as of June, 2015

## Lyme Disease Summary



- Annually, Columbia and Greene counties had 629 cases of Lyme Disease
- Both counties have much higher infection rates than of the rest of NY
- Both counties fall into the 4<sup>th</sup> Risk Quartile for Lyme disease



# **VACCINE-PREVENTABLE DISEASE IN COLUMBIA & GREENE COUNTIES**

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## The Effect of Vaccine-Preventable Disease on the Population

	<b>Columbia</b>	<b>Greene</b>	<b>Capital Region</b>
<b>Number of children ages 19-35 months not immunized per year (2013)</b>	279	387	4,480
<b>Number of females ages 13-17 not immunized for HPV per year (2013)</b>	1,159	1,010	18,866
<b>Number of adults ages 65+ not receiving flu vaccine per year (2013-2014)</b>	2,634	3,063	33,488

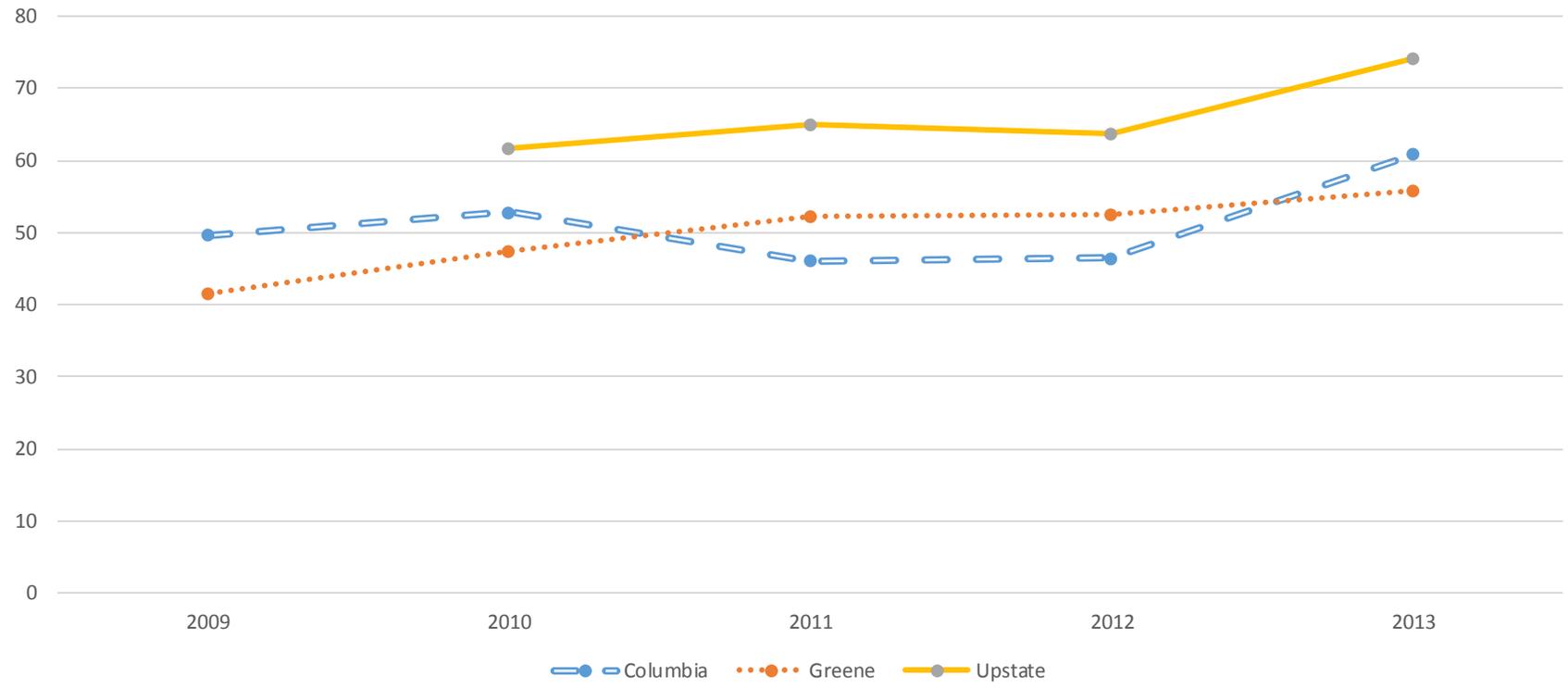
## Vaccine-Preventable Disease Indicators and Significance Compared to NYS (excl. NYC)



	Columbia		Greene		Capital Region		Upstate
<b>Percentage of children with immunizations, 19-35 months of age (2013)</b>	60.9	Similar	55.9	Lower	69.5	Higher	60.0
<b>Percentage of females with 3-dose HPV immunization, 13-17 years of age (2013)</b>	29.7	Higher	30.3	Higher	35.6	Higher	28.1
<b>Percentage of Adults with flu immunization, ages 65+ (2013-2014)</b>	77.7	Higher	65.7	Lower	75.8	Lower	76.8



Percentage of Children with Immunization series, Aged 19-35 months (2009-2013)

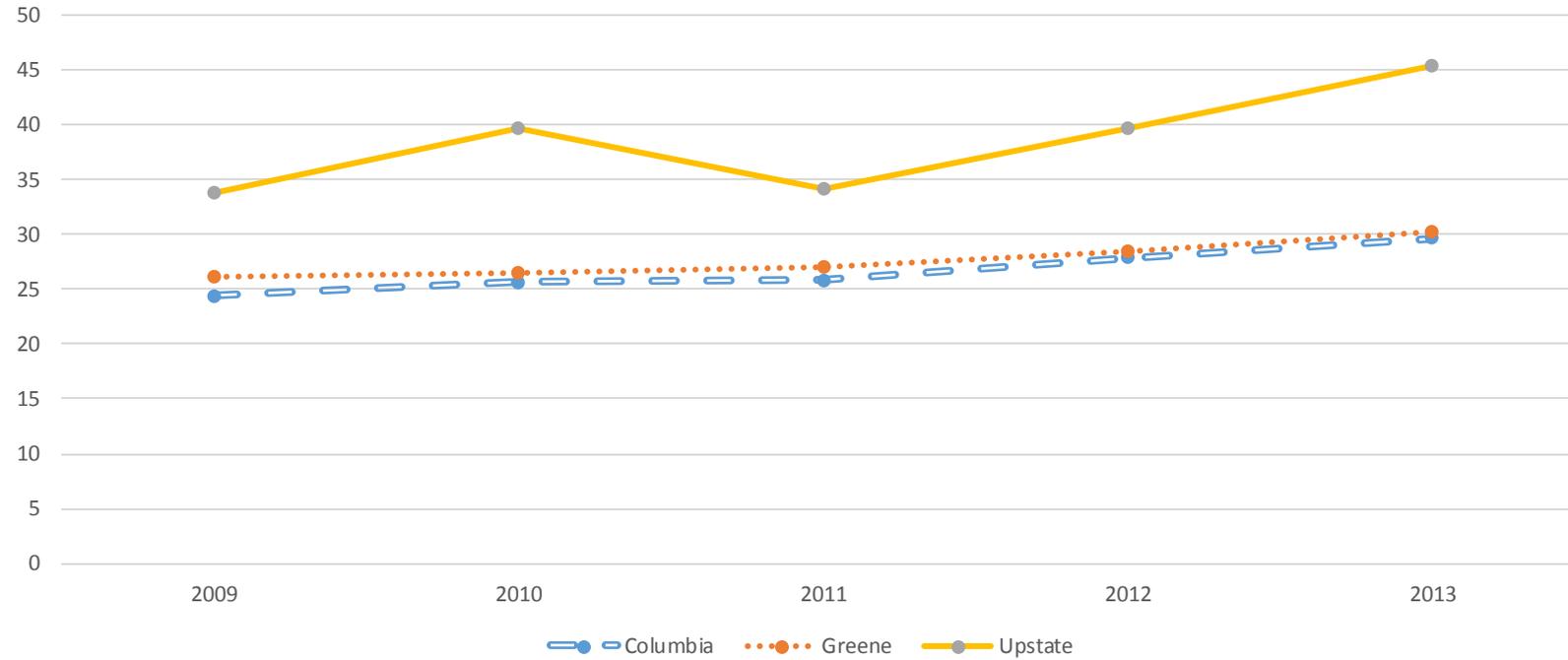


	2009	2010	2011	2012	2013
<b>Columbia</b>	49.6	52.8	46.1	46.4	60.9
<b>Greene</b>	41.6	47.3	52.2	52.6	55.9
<b>Upstate</b>	*	61.6	65.1	63.7	74.3

\*Data unavailable for the year 2009 for Upstate



Percentage of Adolescent Females with 3 or more doses of HPV immunization, Aged 13-17 years (2009-2013)



	2009	2010	2011	2012	2013
<b>Columbia</b>	24.4	25.7	25.8	27.9	29.7
<b>Greene</b>	26.1	26.5	27	28.5	30.3
<b>Upstate</b>	33.8	39.7	34.2	39.7	45.4





## Adjusted Percentage of Adults with Flu Immunization ages 65+ for NYS (excl. NYC), Albany and Renssalaer Counties



	<b>2003</b>	<b>2008-2009</b>	<b>2013-2014</b>
Columbia	N/A	69.6	77.7
Greene	N/A	71.4	65.7
Capital Region	N/A	N/A	75.8
Upstate	N/A	76.0	77.7

## Vaccine-Preventable Disease Summary



- Columbia county has rates similar to that of Upstate NYS for percentages of children 19-35 months of age who were full immunized; Greene county as lower rates than that of Upstate.
- Both Columbia and Greene counties had higher percentages of young women ages 13-17 years of age who received HPV immunization when compared to Upstate.
- Greene county had a lower percentage of adults aged 65 and older who have received the influenza vaccination when compared to Upstate and fell into the 4<sup>th</sup> Risk Quartile for all NYS counties.
- Columbia and Greene both show increasing trends in childhood immunization rates since 2009. HPV immunization rates for both counties were very similar and slightly increasing.
- Greene county showed a significant decrease in flu immunization rates for the 65+ year old population from 2008-2009 to 2013-2014., while Columbia county showed a significant increase.