



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



STDs IN SARATOGA COUNTY

The Effect of STDs on the Population

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



	Saratoga	Capital Region
Number of Gonorrhea cases per year (2013)	19	504
Number of Gonorrhea cases per year, ages 15-19 (2013)	1	197
Number of Chlamydia cases (2013)	463	1,001
Number of Chlamydia cases per year (female)	319	2,388
Number of Chlamydia cases per year , ages 15-19 (female)	135	846
Number of HIV cases per year (2013)	5	68
Number of AIDS deaths per year (2013)	0	15

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

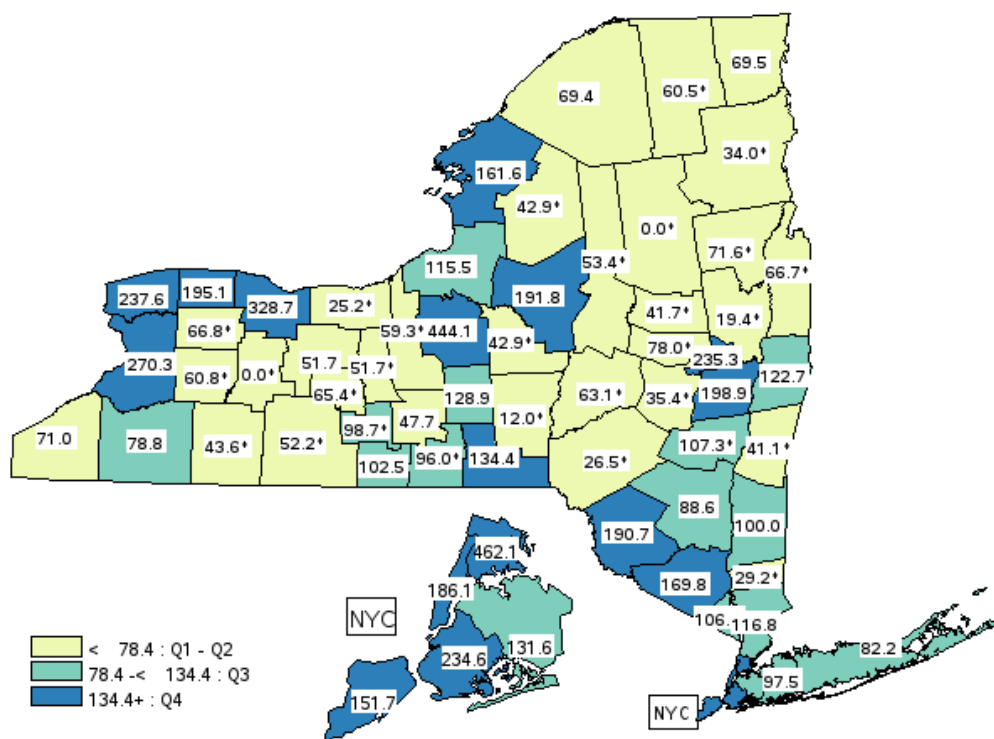
Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015



	Saratoga		Capital Region		Upstate
Gonorrhea cases rate	11.7	Lower	54.5	Lower	61.1
Gonorrhea cases rate ages 15-19	37.2	Lower	177.4	Lower	203.6
Chlamydia cases rate (Females)	265.4	Lower	488.0	Higher	466.8
Chlamydia cases rate (Males)	117.8	Lower	210.8	Higher	203.0
HIV Cases Rate (Age-Adjusted)	2.4	Lower	7.0	Lower	7.9
AIDS Mortality (Age-Adjusted)	0.4	Lower	4.4	Lower	4.5

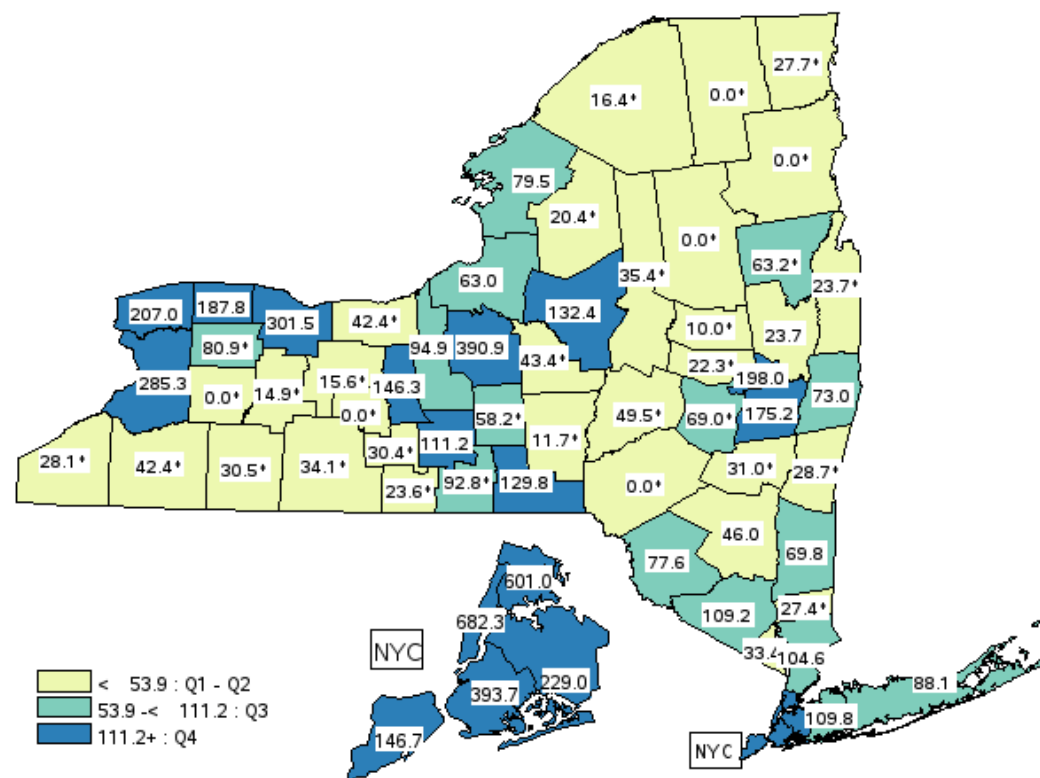
Gonorrhea Cases (Females), Ages 15-44 (2013)

Data Source: NYS STD Surveillance System data as of January 2015



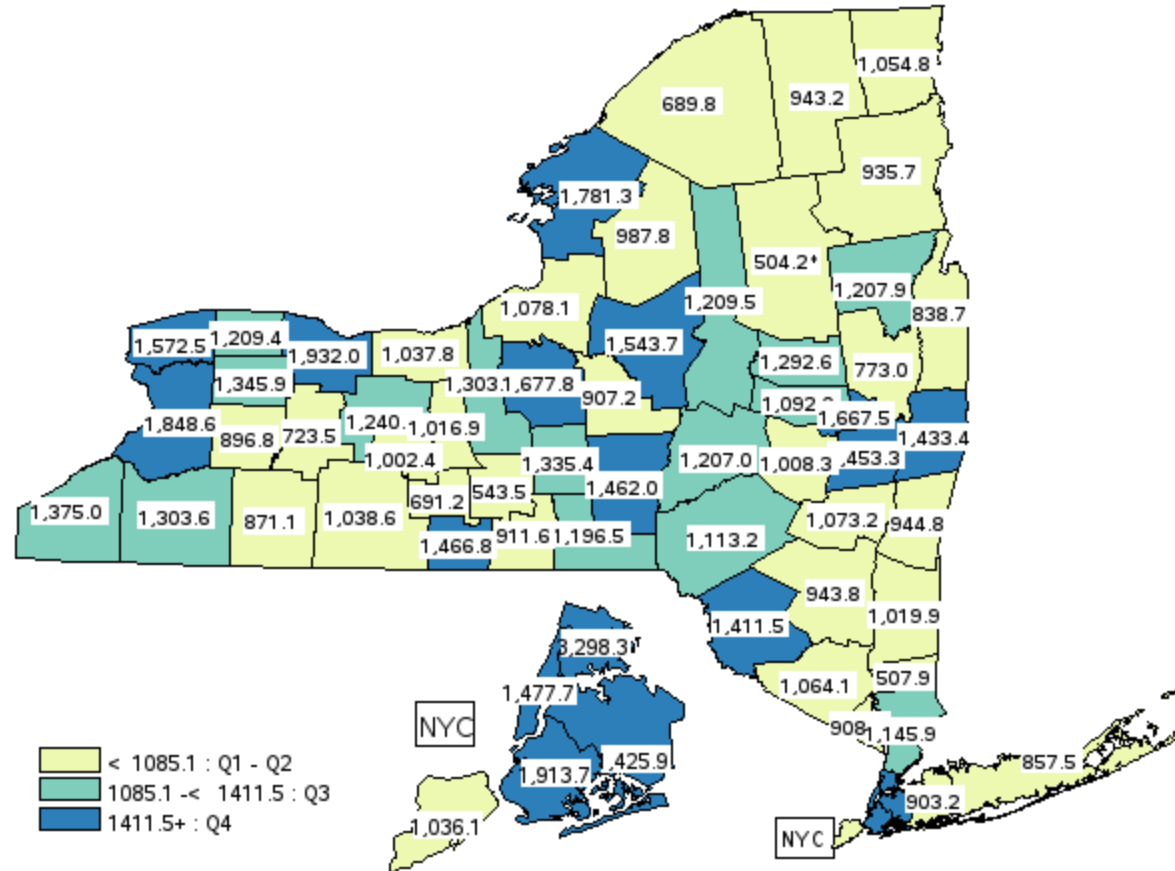
Gonorrhea Cases (Males), Ages 15-44 (2013)

Data Source: NYS STD Surveillance System data as of January 2015



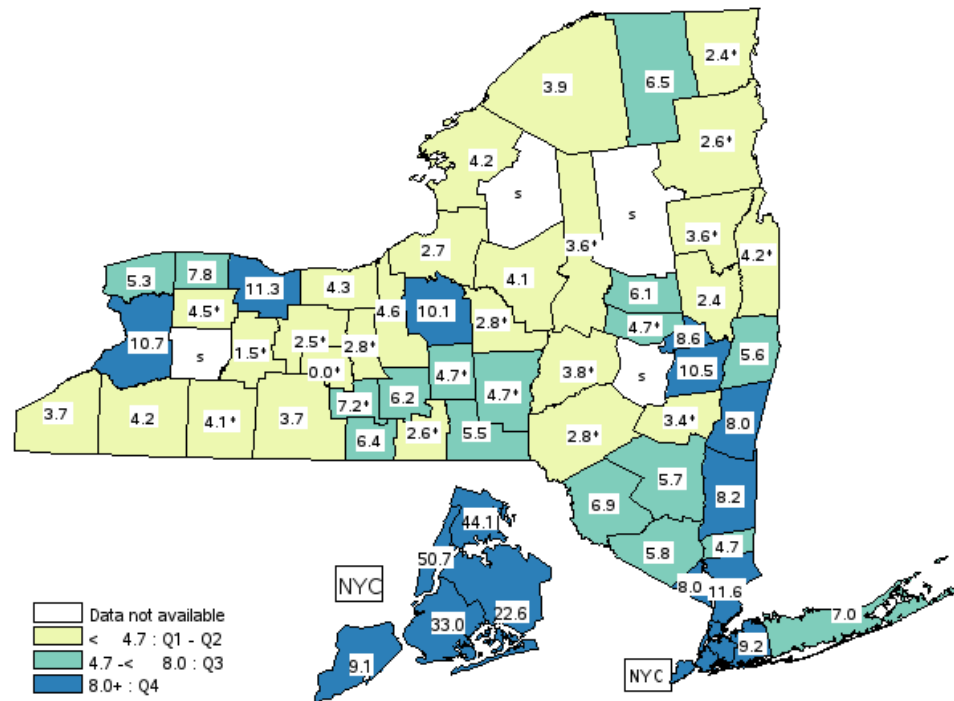
Chlamydia Case Rates per 100,000 females, ages 15-44 (2013)

Data Source: NYS STD Surveillance System data as of January 2015

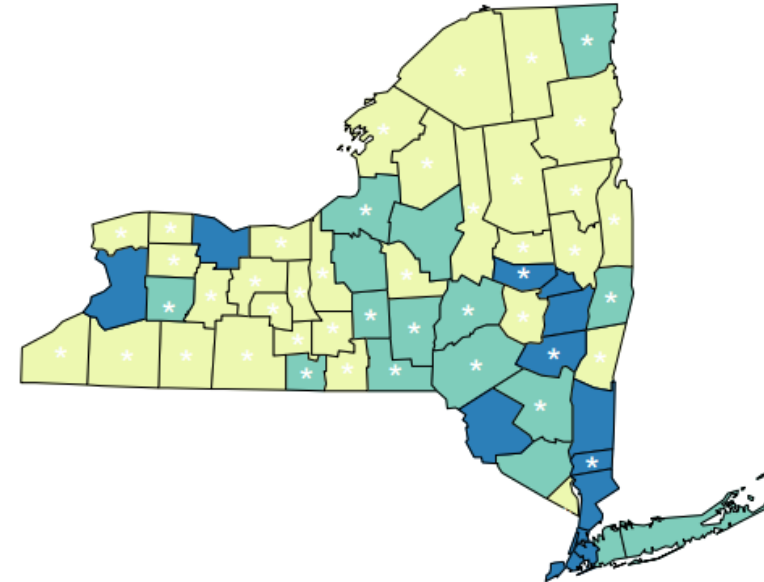


Newly diagnosed HIV case rate per 100,000 (2011-2013)

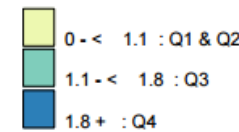
Data Source: Bureau of HIV/AIDS Epidemiology data as of April 2015



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



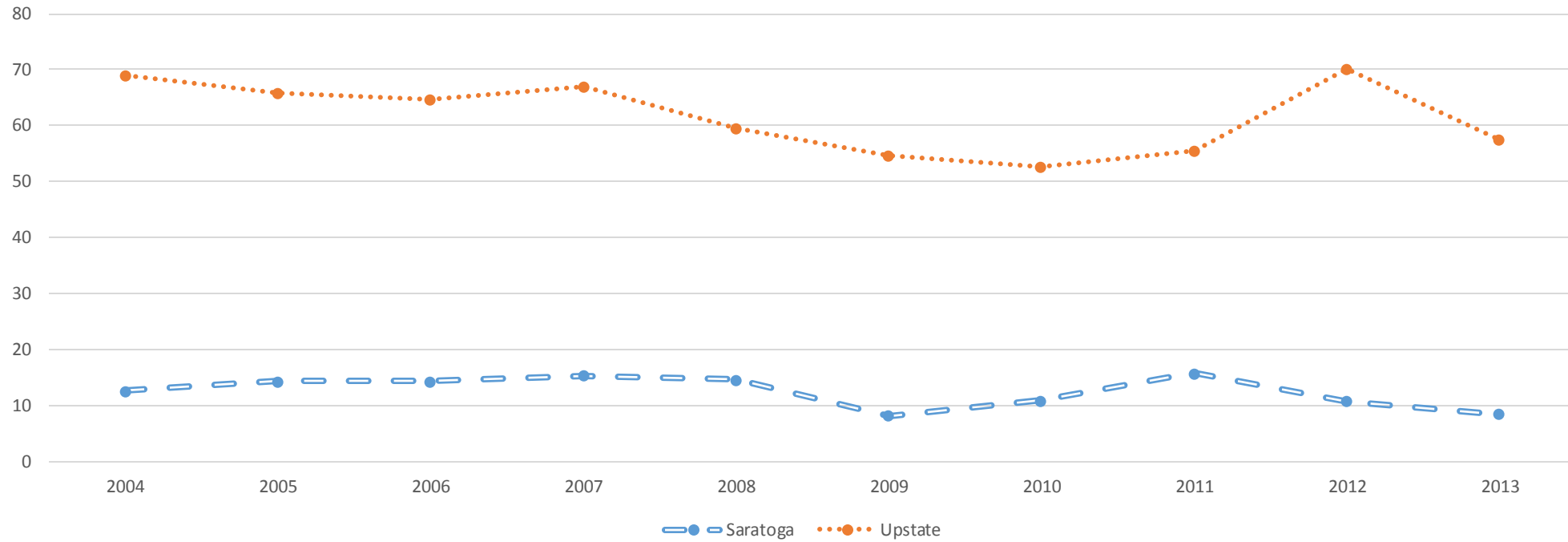
Death Rate
 Counties Are Shaded Based On Quartile Distribution
 (* Fewer than 10 events in the numerator, therefore the rate is unstable)



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

Gonorrhea Case Rate per 100,000 population (all ages) for NYS (excl. NYC) and Saratoga county, 2004-2013

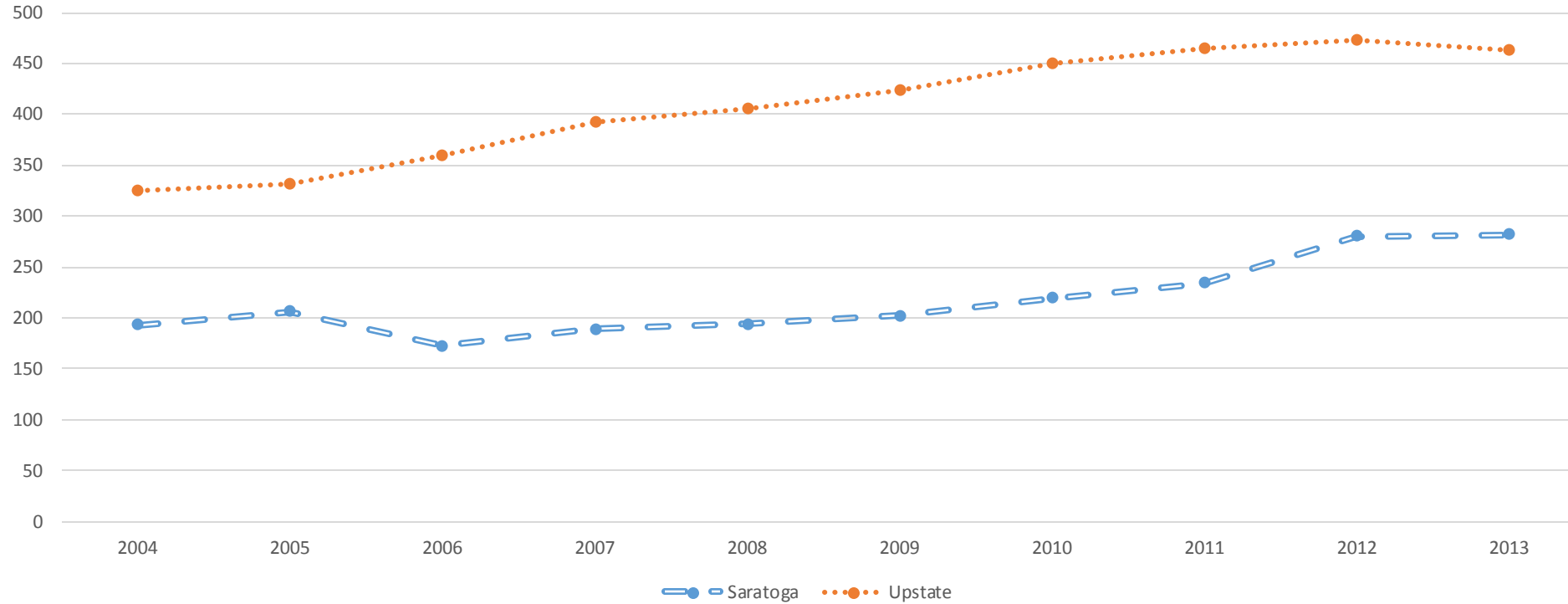
Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Saratoga	12.7	14.4	14.4	15.3	14.7	8.2	10.9	15.8	10.8	8.5
Upstate	69	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) and Saratoga county, 2004-2013

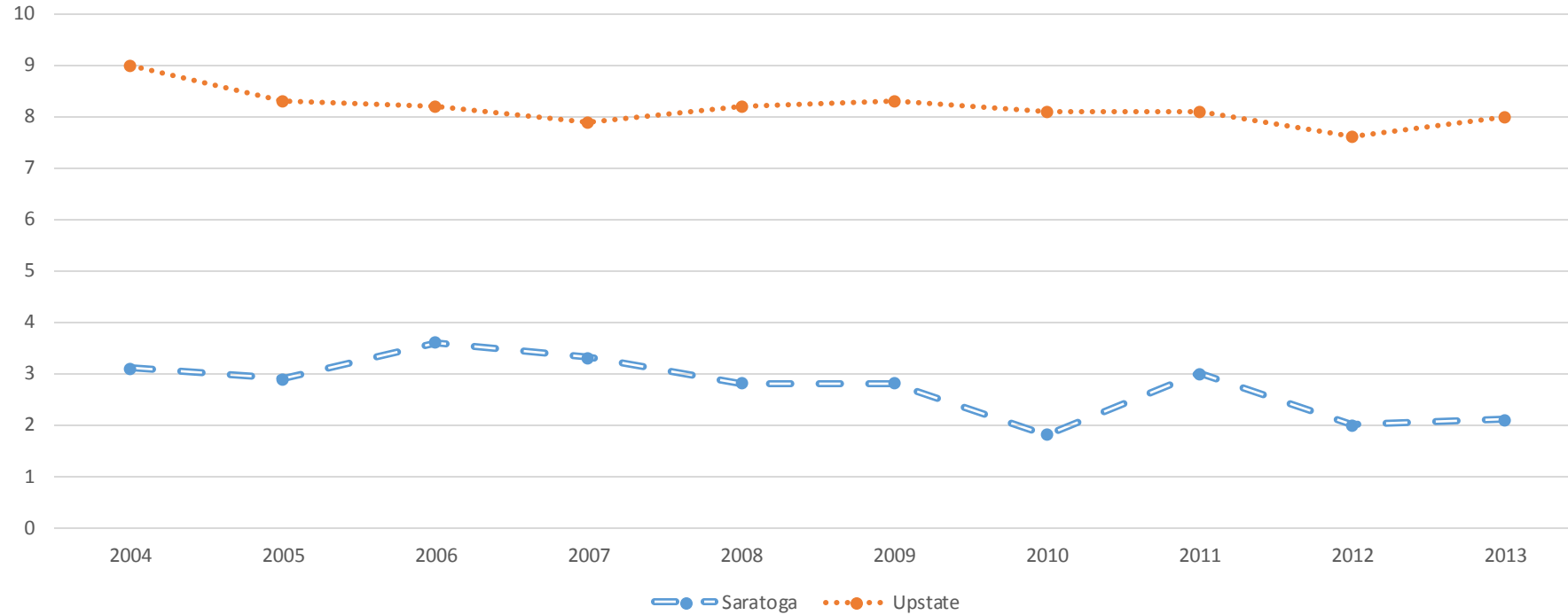
Source: 2011-2013 Bureau of STD Prevention and Epidemiology Data as of July, 2015



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Saratoga	192.9	206	172.4	188.9	193.4	202.4	219.6	234.3	280.3	281.4
Upstate	324.3	331.2	358.9	391.6	405.5	423.9	449.2	464.2	473.4	462.7

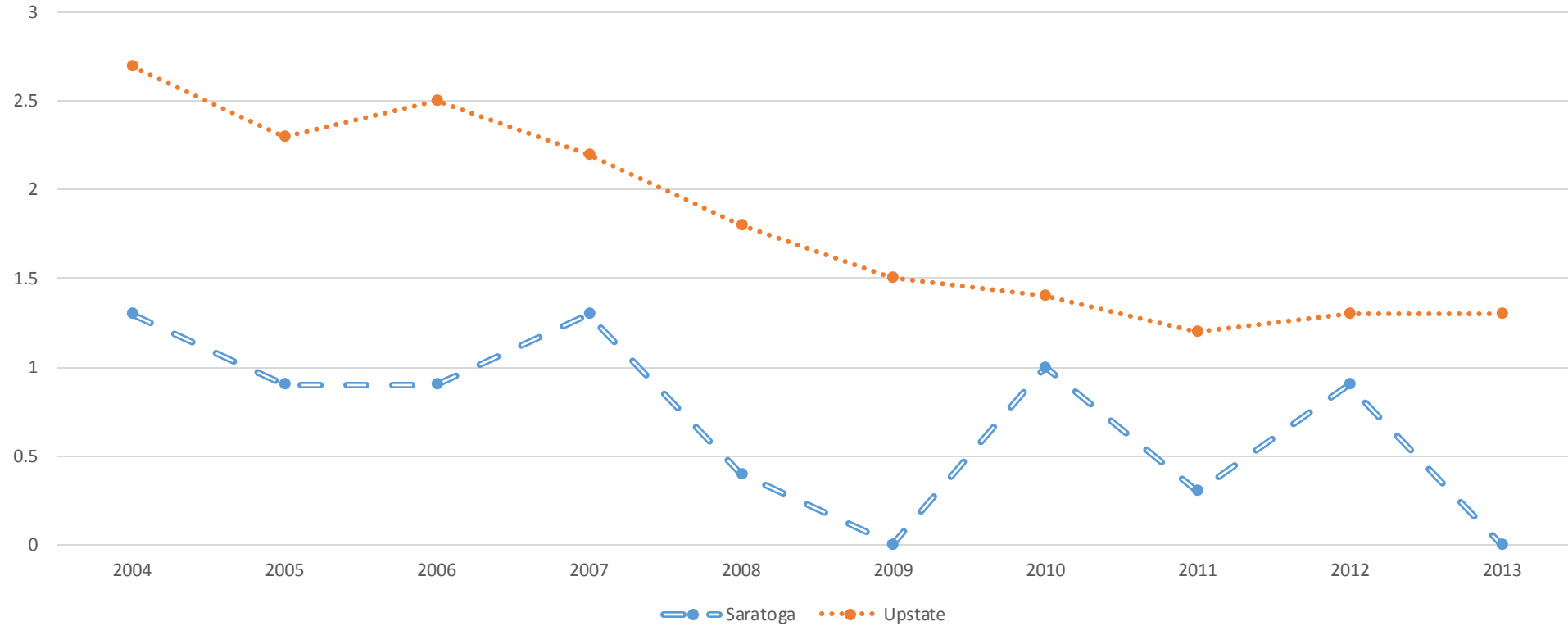


Age-Adjusted HIV Case Rate per 100,000 population (all ages) for NYS (excl. NYC) and Saratoga county, 2004-2013



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Saratoga	3.1	2.9	3.6	3.3	2.8	2.8	1.8	3	2	2.1
Upstate	9	8.3	8.2	7.9	8.2	8.3	8.1	8.1	7.6	8

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



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Saratoga	1.3	0.9	0.9	1.3	0.4	0	1	0.3	0.9	0
Upstate	2.7	2.3	2.5	2.2	1.8	1.5	1.4	1.2	1.3	1.3



EQUITY

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



Gonorrhea	Saratoga	Capital Region	Upstate
Ages 15-19	37.2	177.4	203.6
All ages	11.7	54.5	61.1

Chlamydia	Saratoga	Capital Region	Upstate
Females (Ages 15-19)	1,724.6	2,637.2	2,387.5
Females (Ages 20-24)	1,880.1	2,681.2	2,743.8
Females (Ages 15-44)	770.3	1,290.6	1,220.3
Females (All ages)	265.4	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



Gonorrhea	Saratoga	Capital Region	Upstate
Females ages 15-44 (2013)	19.4	140.0	149.3
Males 15-44 (2013)	23.7	111.9	129.7

Chlamydia	Saratoga	Capital Region	Upstate
Females (Ages 15-19)	1,724.6	2,637.2	2,387.5
Males (Ages 15-19)	300.3	651.5	608.6
Females (Ages 20-24)	1,880.1	2,681.2	2,743.8
Males (Ages 20-24)	817.9	1,055.3	1,089.0
Females (All Ages)	265.4	488.0	466.8
Males (All Ages)	117.8	210.8	203.0

STDs Summary



Annually, Saratoga County has:

- 463 cases of Chlamydia amongst all ages; 319 to all females and 135 to females 15-19 years old
- 19 cases of Gonorrhea amongst all ages; 1 case of Gonorrhea amongst 15-19 year olds
- 3 new cases of HIV reported
- 0 deaths resulting from AIDS

STDs Summary

- Saratoga county has significantly lower rates of Gonorrhea compared to the rest of NYS
- Saratoga county had significantly lower male and female Chlamydia rates when compared to the rest of NYS (which averages about 2 times as high as Saratoga county's rates)
- Gonorrhea has seen a general decrease in Saratoga since 2011.
- Female Chlamydia rates have been increasing in Saratoga over the last decade, with a slight decrease from 2012-2013
- Saratoga's HIV case rates have seen unsteady rates over the last decade, with a slight decrease from 2012-2013
- Gonorrhea and Chlamydia rates decrease with age, teens having the highest rates.
- Females have higher Chlamydia rates when compared to males; however males have higher Gonorrhea rates than females.



LYME DISEASE IN SARATOGA COUNTY





The Effect of Lyme Disease on the Population

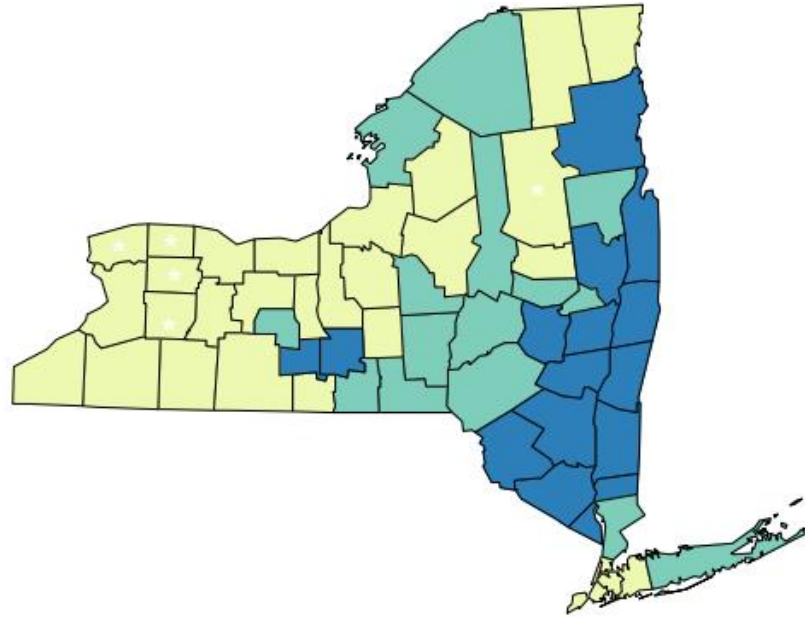
Source: 2011-2013 Bureau of Communicable Disease Control Data as of June, 2015

	Saratoga	Capital Region
Number of Lyme Disease cases	474	1,983

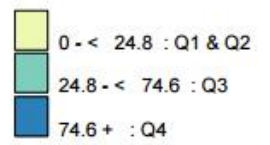
Lyme Disease Indicators and Significance Compared to NYS, excl. NYC, 2011-2013

	Saratoga	Capital Region	Upstate
Lyme Disease Cases rate per 100,000	200.8	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, Saratoga County has 474 cases of Lyme Disease
- Saratoga County has much higher infection rates than of the rest of NY, but slightly lower than those of the Capital Region
- Saratoga County falls into the 4th Risk Quartile for Lyme disease



VACCINE-PREVENTABLE DISEASE IN SARATOGA COUNTY



The Effect of Vaccine-Preventable Disease on the Population

	Saratoga	Capital Region
Number of children ages 19-35 months not immunized per year (2013)	1,021	4,480
Number of females ages 13-17 not immunized for HPV per year (2013)	5,036	18,866
Number of adults ages 65+ not receiving flu vaccine per year (2013-2014)	6,310	33,488

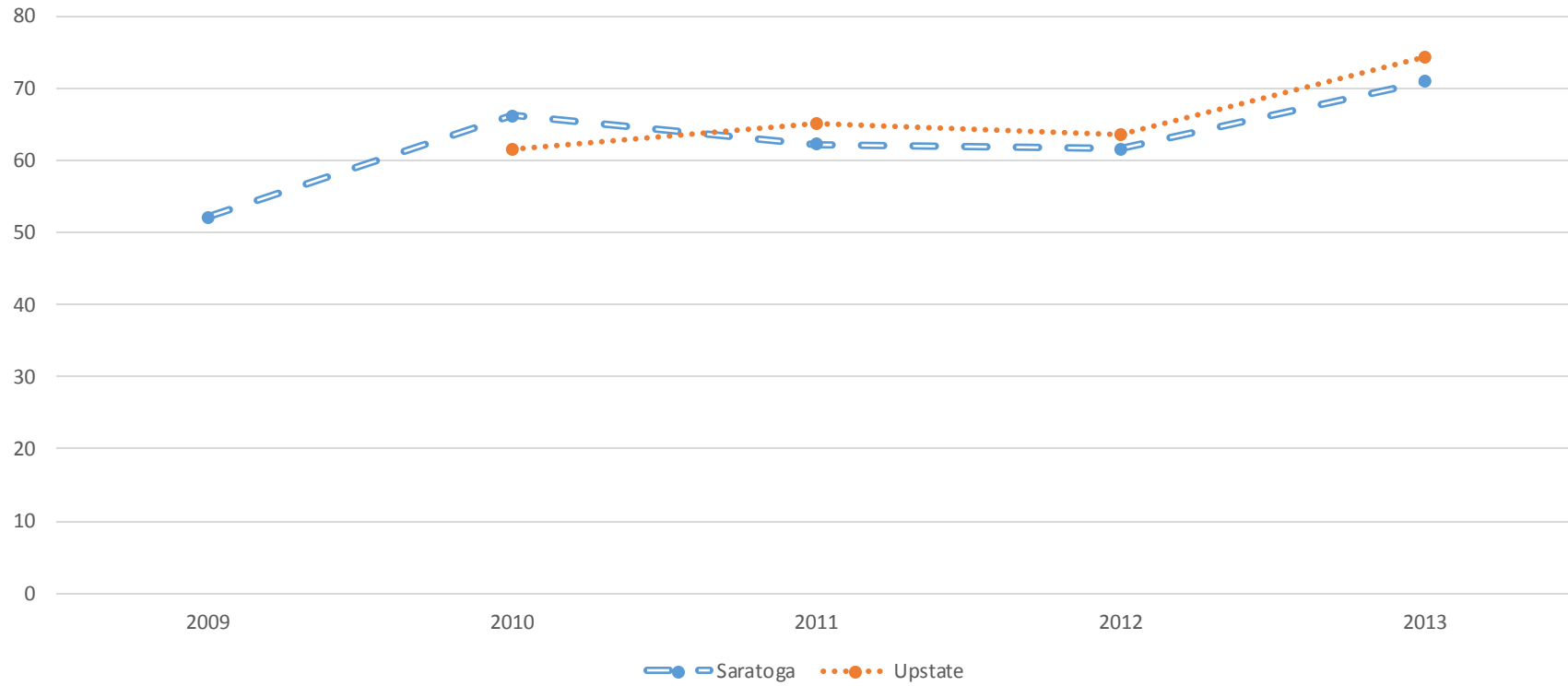
Vaccine-Preventable Disease Indicators and Significance Compared to NYS (excl. NYC)



	Saratoga		Capital Region		Upstate
Percentage of children with immunizations, 19-35 months of age (2013)	71.0	Higher	69.5	Higher	60.0
Percentage of females with 3-dose HPV immunization, 13-17 years of age (2013)	35.1	Higher	35.6	Higher	28.1
Percentage of Adults with flu immunization, ages 65+ (2013-2014)	80.2	Higher	75.8	Lower	76.8



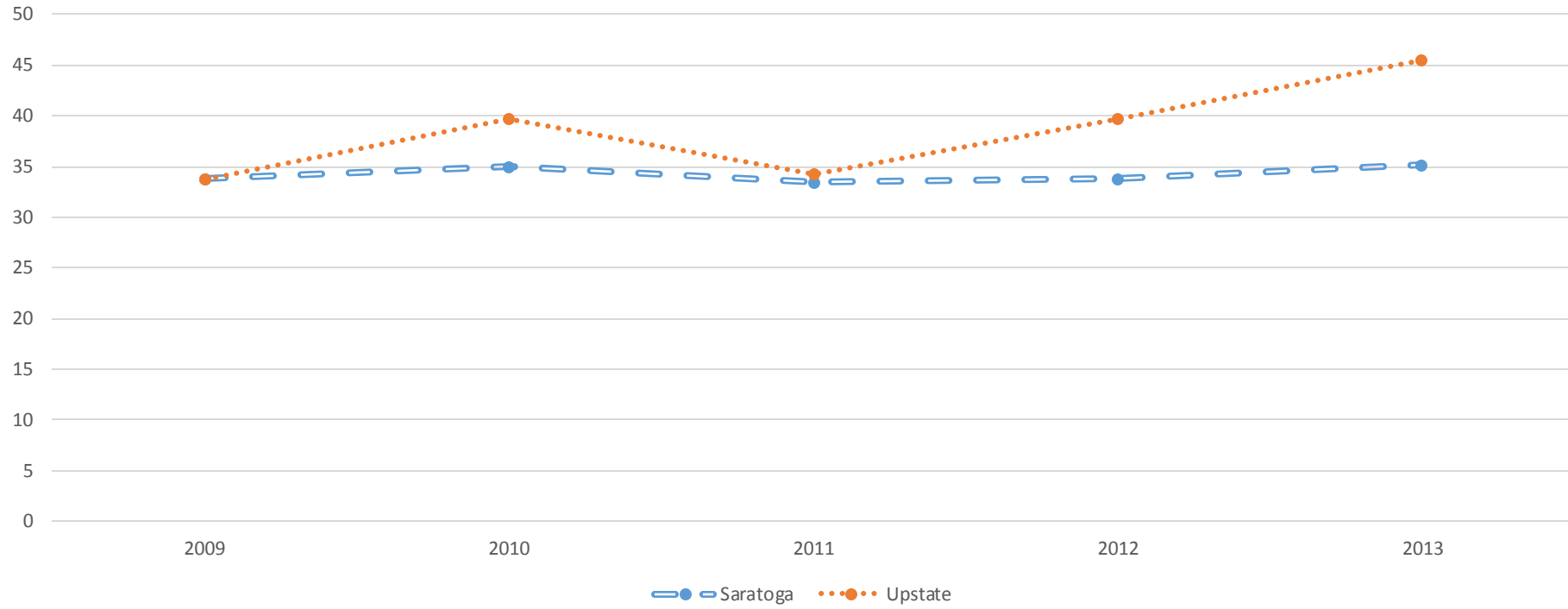
Percentage of Children with Immunization series, Aged 19-35 months (2009-2013)



	2009	2010	2011	2012	2013
Saratoga	52.2	66.3	62.3	61.6	71
Upstate		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)

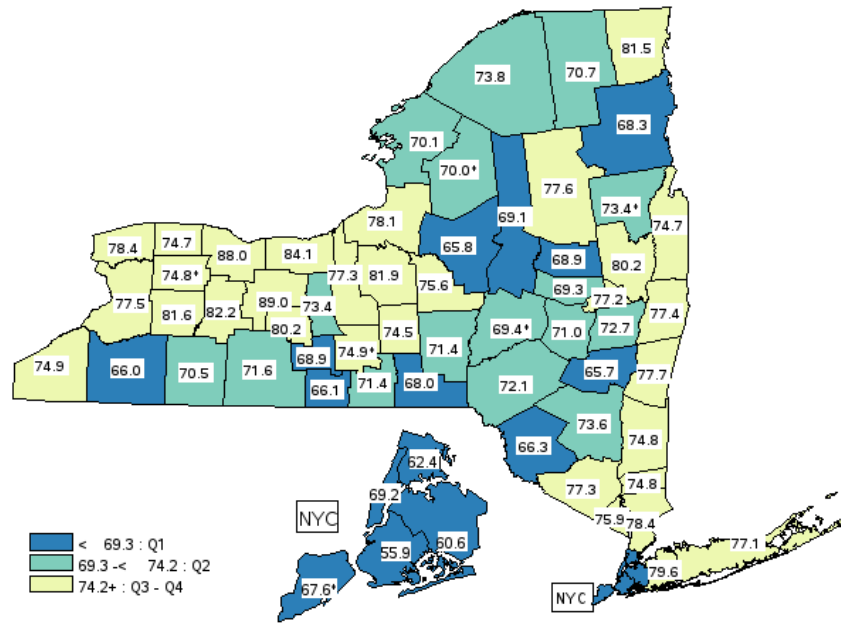


	2009	2010	2011	2012	2013
Saratoga	33.8	35	33.4	33.8	35.1
Upstate	33.8	39.7	34.2	39.7	45.4

Percentage of Adults with Flu Immunizations, ages 65+ (2013-2014)



Data Source: 2013-2014 NYS Expanded Behavioral Risk Factor Surveillance System (NYS Counties outside NYC); 2012 NYC Community Health Survey (NYC counties), data as of September 2014



Adjusted Percentage of Adults with Flu Immunization ages 65+ for NYS (excl. NYC), Saratoga County



	2003	2008-2009	2013-2014
Saratoga	N/A	76.4	80.2
Capital Region	N/A	N/A	75.8
Upstate	N/A	76.0	77.7

Vaccine-Preventable Disease Summary



- Saratoga county had significantly higher percentages of children 19-35 months of age who were full immunized when compared to Upstate.
- Saratoga county also had significantly higher percentages of young women ages 13-17 years of age who received HPV immunization when compared to Upstate.
- Saratoga county had a higher percentage of adults aged 65 and older who have received the influenza vaccination when compared to Upstate.
- Saratoga showed increasing trends in childhood immunization rates since 2009. HPV immunization rates for the county have remained steady.
- Saratoga showed a significant increase in flu immunization rates for the 65+ year old population from 2008-2009 to 2013-2014.