Epi Data Tables

Alcohol Use and Health Risk Behaviors among NYC Youth

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NYC YRBS: The Youth Risk Behavior Survey (YRBS), conducted in collaboration by the Health Department and the NYC Department of Education, is an anonymous, biennial study of NYC public high school students.

National YRBSS: The Youth Risk Behavior Surveillance System (YRBSS) is a self-administered survey of approximately 17,000 public and private school students in grades nine through 12, conducted in odd years by the CDC.

To access the related Epi Data Brief, go to www.nyc.gov/html/doh/downloads/pdf/epi/databrief21.pdf

Table 1. Youth drinking in NYC and the United States, 1997-2011

Source: NYC Youth Risk Behavior Survey 1997-2011; National Youth Risk Behavior Surveillance System 1997-2011

				Binge Drinkers[2]			
				Among all youth		Among youth who currently drink	
		Current Drinkers[1]					
	Year	Percent	95% Confidence Interval	Percent	95% Confidence Interval	Percent	95% Confidence Interval
NYC	1997	39.7	(35.0 – 44.6)	18.4	(15.0 – 22.4)	46.4	(39.0 - 53.9)
	1999	37.8	(33.4 – 42.4)	16.6	(14.2 – 19.3)	44.9	(40.4 - 49.5)
	2001	41.8	(38.1 – 45.6)	17.9	(15.6 – 20.4)	43.2	(39.1 - 47.5)
	2003	35.5D	(33.5 – 37.5)	15.7	(14.6 – 17.0)	43.9	(41.6 - 46.3)
	2005	35.5D	(32.8 – 38.2)	13.6	(12.2 – 15.1)	38.5D	(35.6 - 41.5)
	2007	33.5U	(31.2 – 35.9)	14.8	(13.1 – 16.6)	46.2	(42.9 - 49.4)
	2009	32.0	(30.0 – 34.2)	14.0	(12.6 – 15.5)	46.1	(43.4 - 48.9)
	2011	30.6	(28.8 - 32.5)	12.7	(11.7 – 13.9)	44.1	(41.5 - 46.8)
United States	1997	50.8	(47.9 – 53.6)	33.4	(31.2–35.6)	66.6	(64.0 - 69.1)
	1999	50.0	(47.4 - 52.7)	31.5U	(29.6–33.5)	63.4	(61.0 - 65.7)
	2001	47.1	(44.8 – 49.3)	21.9	(21.0–22.8)	64.4	(61.7 - 67.0)
	2003	44.9	(42.5 - 47.4)	28.3	(26.3–30.4)	64.2	(61.8 - 66.7)
	2005	43.3	(40.5 – 46.1)	25.5U	(23.3 - 27.9)	59.4	(56.7 - 62.1)
	2007	44.7	(42.4 - 47.0)	26.0	(24.0–28.0)	60.6	(58.2 - 63.0)
	2009	41.8	(40.2 – 43.4)	24.2	(22.6–25.9)	60.9	(58.3 - 63.5)
	2011	38.7	(37.2 – 40.3)	21.9	(21.0–22.8)	58.7	(56.9 - 60.6)

[1] Current Drinking: Consuming at least 1 alcoholic drink during the past 30 days.

[2] Binge Drinking: Consuming 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

D Data rounded down to nearest whole number for purposes of reporting in the text.

U Data rounded up to nearest whole number for purposes of reporting in the text.

95% confidence intervals are a measure of estimate precision. The wider the interval, the more imprecise the estimate.

Table 2. Current and binge drinking among youth by demographic characteristics, NYC, 2011

Source: NYC Youth Risk Behavior Survey 2011

	Current Drinkers[1]			Binge Drinkers[2] among those who currently drink		
	Percent	95% Confidence Interval	P-value	Percent	95% Confidence Interval	P-value
Overall	30.6	(28.8 - 32.5)	N/A	44.1	(41.5 - 46.8)	N/A
Sex						
Female	32.6	(29.8 - 35.5)	Referent	41.2	(37.4 - 45.1)	Referent
Male	28.3	(26.2 - 30.5)	**<0.001**	46.9	(43.6 - 50.1)	**0.022**
Grade						
9th grade	22.9	(20.7-25.1)	**<0.001**	41.5U	(35.4 - 47.9)	**0.039**
10th grade	29.0	(24.9-33.4)	**<0.001**	41.2	(36.1 - 46.5)	**0.004**
11th grade	32.9	(30.3-35.6)	**<0.001**	41.7	(37.0 - 46.5)	**0.016**
12th grade	41.2	(37.3-45.2)	Referent	49.8	(46.0 - 53.6)	Referent
Race/Ethnicity						
Hispanic	36.0	(34.3 - 37.7)	**0.033**	50.0	(45.8 - 54.1)	0.801
White Non-Hispanic	40.2	(35.3 - 45.3)	Referent	49.0	(42.8 - 55.3)	Referent
Black Non-Hispanic	29.1	(26.1 - 32.2)	**<0.001**	33.2	(29.2 - 37.5)	**<0.001**
Asian	13.6	(11.4 - 16.3)	**<0.001**	37.7	(30.9 - 45.1)	0.017
Other[3]	37.1	(31.9 - 42.6)	0.351	59.3	(49.6 - 68.3)	0.057
Borough of Residence						
Bronx	32.2	(29.6 - 35)	**0.025**	47.0	(42.2 - 51.8)	0.545
Brooklyn	31.0	(27.3 - 34.9)	**0.007**	39.6	(34.9 - 44.5)	0.331
Manhattan	37.2	(33.9 - 40.5)	Referent	44.6	(37.0 - 52.4)	Referent
Queens	26.3	(23.6 - 29.2)	**<0.001**	45.1	(40.6 - 49.6)	0.908
Staten Island	31.3	(27.7 - 35.1)	**0.016**	51.1	(45.7 - 56.5)	0.181

[1] Current Drinking: Consuming at least 1 alcoholic drink during the past 30 days.

[2] Binge Drinking: Consuming 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

[3] Other: American Indian, Native Hawaiian/other Pacific Islander, or non-Hispanic multiple race/ethnicity.

U Data rounded up to nearest whole number for purposes of reporting in the text.

A p-value is a measure of statistical significance. A bold p-value less than .05 means there is a significant difference between that group and the referent (comparison) group.

Table 3a. Current drinking among youth by demographic characteristics, NYC, 2007-2011

Source: NYC Youth Risk Behavior Survey 2007-2011

	2007		2009		2011		Percent change		
	Percent	95% Confidence Interval	Percent	95% Confidence Interval	Percent	95% Confidence Interval	2007 vs 2009	2009 vs 2011	2007 vs 2011
Current Drinkers[1]									
Overall	33.5U	(31.2 - 35.9)	32.0	(30.0 - 34.2)	30.6	(28.8 - 32.5)	-4.5%	-4.4%	**-8.7%**
Gender									
Female	34.5D	(31.8 - 37.3)	33.4	(31.2 - 35.6)	32.6	(29.8 - 35.5)	-3.2%	-2.4%	-5.5%
Male	32.5D	(29.2 - 35.9)	30.5D	(28.0 - 33.2)	28.3	(26.2 - 30.5)	-6.2%	-7.2%	**-12.9%**
Grade									
9th grade	26.9	(23.0 - 31.1)	26.4	(23.1 - 30.1)	22.9	(20.7-25.1)	-1.9%	-13.3%	-14.9%
10th grade	33.0	(29.5 - 36.7)	29.3	(26.1 - 32.6)	29.0	(24.9-33.4)	-11.2%	-1.0%	-12.1%
11th grade	38.5D	(35.4 - 41.7)	32.8	(30.2 - 35.6)	32.9	(30.3-35.6)	**-14.8%**	0.3%	**-14.5%**
12th grade	40.6	(36.0 - 45.4)	42.6	(39.4 - 45.8)	41.2	(37.3-45.2)	4.9%	-3.3%	1.5%
Race/Ethnicity									
Hispanic	41.6	(39.6 - 43.5)	39.9	(37.4 - 42.4)	36.0	(34.3 - 37.7)	-4.1%	**-9.8%**	**-13.5%**
White Non-Hispanic	49.8	(44.3 - 55.4)	42.1	(36.7 - 47.8)	40.2	(35.3 - 45.3)	-15.5%	-4.5%	**-19.3%**
Black Non-Hispanic	26.1	(22.4 - 30.2)	28.6	(26.2 - 31.2)	29.1	(26.1 - 32.2)	9.6%	1.7%	11.5%
Asian	15.4	(12.4 - 19.0)	14.3	(10.6 - 19.0)	13.6	(11.4 - 16.3)	-7.1%	-4.9%	-11.7%
Other[2]	36.3	(30.6 - 42.5)	29.8	(24.8 - 35.3)	37.1	(31.9 - 42.6)	-17.9%	24.5%	2.2%
Borough of Residence									
Bronx	33.3	(28.8 - 38.2)	33.3	(29.9 - 36.9)	32.2	(29.6 - 35.0)	0.0%	-3.3%	-3.3%
Brooklyn	31.0	(27.5 - 34.6)	31.7	(26.7 - 37.2)	31.0	(27.3 - 34.9)	2.3%	-2.2%	0.0%
Manhattan	38.0	(32.0 - 44.4)	38.0	(32.7 - 43.6)	37.2	(33.9 - 40.5)	0.0%	-2.1%	-2.1%
Queens	32.5U	(28.0 - 37.4)	28.1	(25.2 - 31.2)	26.3	(23.6 - 29.2)	-13.5%	-6.4%	**-19.1%**
Staten Island	41.3	(37.4 - 45.3)	39.1	(35.0 - 43.2)	31.3	(27.7 - 35.1)	-5.3%	**-19.9%**	**-24.2%**

Bold percentages indicate a statistically significant percent change.

[1] Current Drinking: Consuming at least 1 alcoholic drink during the past 30 days.

[2] Other: American Indian, Native Hawaiian/other Pacific Islander, or more than one race

D Data rounded down to nearest whole number for purposes of reporting in the text.

U Data rounded up to nearest whole number for purposes of reporting in the text.

95% confidence intervals are a measure of estimate precision. The wider the interval, the more imprecise the estimate.

Table 3b. Binge drinking among youth who currently drink by demographic characteristics, NYC, 2007-2011

Source: NYC Youth Risk Behavior Survey 2007-2011

	2007		2009		2011		Percent change		
	Percent	95% Confidence Interval	Percent	95% Confidence Interval	Percent	95% Confidence Interval	2007 vs 2009	2009 vs 2011	2007 vs 2011
Overall	46.2	(42.9 - 49.4)	46.1	(43.4 - 48.9)	44.1	(41.5 - 46.8)	-0.2%	-4.3%	-4.5%
Gender									
Female	44.6	(39.7 - 49.6)	42.5U	(39.1 - 46.1)	41.2	(37.4 - 45.1)	-4.7%	-3.1%	-7.6%
Male	48.3	(44.4 - 52.1)	50.6	(46.7 - 54.6)	46.9	(43.6 - 50.1)	4.8%	-7.3%	-2.9%
Grade									
9th grade	45.9	(38.5 - 53.5)	40.3	(36.6 - 44.2)	41.5U	(35.4 - 47.9)	-12.2%	3.0%	-9.6%
10th grade	40.3	(34.8 - 46.1)	44.9	(38.3 - 51.7)	41.2	(36.1 - 46.5)	11.4%	-8.2%	2.2%
11th grade	50.0	(44.0 - 56.1)	43.5D	(38.3 - 48.7)	41.7	(37.0 - 46.5)	-13.0%	-4.1%	**-16.6%**
12th grade	50.0	(44.7 - 55.3)	53.6	(48.6 - 58.5)	49.8	(46.0 - 53.6)	7.2%	-7.1%	-0.4%
Race/Ethnicity									
Hispanic	50.9	(47.0 - 54.8)	50.3	(47.4 - 53.1)	50.0	(45.8 - 54.1)	-1.2%	-0.6%	-1.8%
White Non-Hispanic	55.0	(50.9 - 59.0)	51.0	(40.9 - 60.1)	49.0	(42.8 - 55.3)	-7.3%	-3.9%	-10.9%
Black Non-Hispanic	34.4	(28.9 - 40.3)	36.2	(32.5 - 40.2)	33.2	(29.2 - 37.5)	5.2%	-8.3%	-3.5%
Asian	38.8	(29.8 - 48.6)	48.0	(37.9 - 58.3)	37.7	(30.9 - 45.1)	23.7%	-21.5%	-2.8%
Other[1]	39.2	(28.0 - 51.7)	46.7	(36.0 - 57.8)	59.3	(49.6 - 68.3)	19.1%	27.0%	**51.3%**
Borough of Residence									
Bronx	49.1	(42.9 - 55.4)	46.0	(41.4 - 50.7)	47.0	(42.2 - 51.8)	-6.3%	2.2%	-4.3%
Brooklyn	41.8	(36.4 - 47.3)	40.8	(35.9 - 45.8)	39.6	(34.9 - 44.5)	-2.4%	-2.9%	-5.3%
Manhattan	44.1	(38.8 - 49.6)	47.3	(41.0 - 53.6)	44.6	(37.0 - 52.4)	7.3%	-5.7%	1.1%
Queens	46.3	(39.9 - 52.8)	47.3	(42.1 - 52.6)	45.1	(40.6 - 49.6)	2.2%	-4.7%	-2.6%
Staten Island	55.0	(49.1 - 60.7)	60.7	(53.1 - 67.8)	51.1	(45.7 - 56.5)	10.4%	**-15.8%**	-7.1%

Bold percentages indicate a statistically significant percent change.

Binge Drinking: Consuming 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

[1] Other: American Indian, Native Hawaiian/other Pacific Islander, or more than one race

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95% confidence intervals are a measure of estimate precision. The wider the interval, the more imprecise the estimate.

Table 4. Type of alcohol consumed in the past 30 days among youth who reported current drinking, NYC, 2011

Source: NYC Youth Risk Behavior Survey 2011

Type of alcohol	Non-binge drinker[1] Percent	Non-binge drinker[1] 95% Confidence Interval	Binge drinkers[2] Percent	Binge drinkers[2] 95% Confidence Interval	Non-binge vs. binge P-value
I did not have usual type	11.1	(8.9-13.7)	10.6	(8.8-12.6)	0.744
Beer	10.7	(8.6-13.2)	9.6	(7.7-11.8)	0.398
Alcopops[3]	17.4	(15.2-19.8)	17.4	(14.9-20.1)	0.990
Wine	7.1	(5.8-8.7)	1.9	(1.0-3.5)	**<0.001**
Liquor	41.2	(37.6-44.8)	53.1	(49.8-56.3)	**<0.001**
Some other type	10.6	(9.0-12.4)	5.4	(4.0-7.4)	**<0.001**

[1] Non-binge drinker: Consumed at least 1 alcoholic drink during the past 30 days but not binge drinking.

[2] Binge Drinking: Consumed 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

[3] Alcopops: Flavored malt beverages such as Smirnoff® ice or wine coolers.

95% confidence intervals are a measure of estimate precision. The wider the interval, the more imprecise the estimate.

A p-value is a measure of statistical significance. A bold p-value less than .05 means there is a significant difference between that group and the referent (comparison) group.

Table 5. Youth alcohol use, violence and bullying, NYC, 2011

Source: NYC Youth Risk Behavior Survey 2011

	Non-drinkers		Non-binge[2] drinkers		Binge[3] drinkers		*Non-Drinkers vs. Non-Binge*	*Non-Binge vs. Binge*	*Non-Drinkers vs. Binge*
	Percent	95% Confidence Interval	Percent	95% Confidence Interval	Percent	95% Confidence Interval	P-value	P-value	P-value
During the past 30 days:									
Carried a weapon at school	1.1	(0.8 - 1.5)	3.7	(2.7 - 5.1)	13.2	(10.6 - 16.3)	**<0.001**	**<0.001**	**<0.001**
Missed school due to feeling unsafe	5.7	(4.8 - 6.7)	9.9	(8.1 - 12.1)	14.7	(11.7 - 18.3)	**<0.001**	**0.002**	**<0.001**
During the past 12 months:									
Was threatened or injured with a weapon on school property	3.4	(2.9 - 3.9)	6.7	(5.3 - 8.3)	16.7	(13.4 - 20.7)	**<0.001**	**<0.001**	**<0.001**
Was in a physical fight	20.1	(18.2 - 22.1)	35.5U	(32.6 - 38.6)	53.8	(49.5 - 58.1)	**<0.001**	**<0.001**	**<0.001**
Was hit, slapped, or physically hurt by boyfriend /girlfriend	6.9	(6.2 - 7.7)	11.0	(9.4 - 12.8)	21.7	(19.0 - 24.7)	**<0.001**	**<0.001**	**<0.001**
Was bullied[4] on school property	10.6	(9.3 - 12.0)	13.0	(11.0 - 15.2)	15.3	(13.0 - 17.8)	**0.042**	0.065	**<0.001**
Was bullied electronically[5]	8.3	(7.5 - 9.2)	12.8	(10.5 - 15.5)	17.7	(14.5 - 21.4)	**<0.001**	**0.023**	**<0.001**

[1] Non-Drinkers: Consumed no alcohol during the past 30 days.

[2] Non-Binge Drinkers: Consumed at least 1 alcoholic drink during the past 30 days, *but did not* binge drinking.

[3] Binge Drinker: Consuming 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

[4] Bullying: One or more students teasing, threatening, spreading rumors about, hitting, shoving, or hurting another student over and over again.

[5] Electronic bullying: Bullying through e-mail, chat-rooms, instant messaging, Web sites, or texting.

[U] Data rounded up to nearest whole number for purposes of reporting in the text.

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A p-value is a measure of statistical significance. A **bold** p-value less than .05 means there is a significant difference between that group and the referent (comparison) group.

Table 6. Youth alcohol and drug use by drinking status, NYC, 2011

Source: NYC Youth Risk Behavior Survey 2011

	Non-drinkers[1]		Non-binge[2] drinkers		Binge[3] drinkers		Non-Drinkers vs. Non-Binge	Non-Binge vs. Binge	Non-Drinkers vs. Binge
	Percent	95% Confidence Interval	Percent	95% Confidence Interval	Percent	95% Confidence Interval	P-value	P-value	P-value
Used alcohol before age 13	12.8	(11.3 - 14.4)	37.0	(33.4 - 40.8)	47.1	(43.0 - 51.2)	**<0.001**	**<0.001**	**<0.001**
Any illicit drug (Marijuana, cocaine, heroin, ecstasy, or methamphetamines)	16.6	(14.8 - 18.5)	49.7	(46.4 - 53.0)	77.7	(74.8 - 80.3)	**<0.001**	**<0.001**	**<0.001**
Marijuana									
Used marijuana at least once before age 13	2.4	(1.9 - 3.0)	8.4	(6.8 - 10.2)	22.6	(19.1 - 26.6)	**<0.001**	**<0.001**	**<0.001**
Used marijuana 1 or more times during the past 30 days	5.8	(5.0 - 6.7)	29.9	(27.1 - 32.8)	56.5D	(52.8 - 60.0)	**<0.001**	**<0.001**	**<0.001**
Prescription Drugs[4]									
Used prescription medication without a prescription	1.1	(0.9 - 1.3)	4.7	(3.3 - 6.6)	18.6	(16.3 - 21.2)	**<0.001**	**<0.001**	**<0.001**
Used prescription **pain** medication (such as Oxycontin, Percocet, etc.) without a prescription	2.8	(2.2 - 3.5)	8.1	(6.4 - 10.2)	23.7	(20.9 - 26.8)	**<0.001**	**<0.001**	**<0.001**
Other drugs[5]									
Cocaine	1.0	(0.7 - 1.4)	2.7	(2.0 - 3.7)	17.2	(14.4 - 20.3)	**<0.001**	**<0.001**	**<0.001**
Heroin	0.4*	(0.2 - 0.9)	1.2	(0.7 - 2.0)	11.1	(8.7 - 14.1)	**0.017**	**<0.001**	**<0.001**
Methamphetamines	0.7	(0.5 - 0.9)	1.3	(0.8 - 2.2)	11.1	(8.7 - 14.1)	0.079	**<0.001**	**<0.001**
Ecstasy	0.8	(0.6 - 1.2)	3.7	(2.8 - 4.9)	20.2	(17.4 - 23.3)	**<0.001**	**<0.001**	**<0.001**

[1] Non-Drinkers: Consumed no alcohol during the past 30 days.

[2] Non-Binge Drinkers: Consumed at least 1 alcoholic drink during the past 30 days, *but did not* binge drinking.

[3] Binge Drinker: Consuming 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

[4] Used during the past 12 months

[5] Used one or more times during lifetime

[D] Data rounded down to nearest whole number for purposes of reporting in the text.

95% confidence intervals are a measure of estimate precision. The wider the interval, the more imprecise the estimate.

A p-value is a measure of statistical significance. A **bold** p-value less than .05 means there is a significant difference between that group and the referent (comparison) group.

*Estimate should be interpreted with caution. Estimate's Relative Standard Error (a measure of estimate precision) is greater than 30% or the sample size is less than 50, making the estimate potentially unreliable.

Table 7. Sexual activity by drinking status, NYC 2011

Source: NYC Youth Risk Behavior Survey 2011

	Non-drinkers[1]		Non-binge[2] drinkers		Binge[3] drinkers		Non-Drinkers vs. Non-Binge	Non-Binge vs. Binge	Non-Drinkers vs. Binge
	Percent	95% Confidence Interval	Percent	95% Confidence Interval	Percent	95% Confidence Interval	P-value	P-value	P-value
Had sex ever	25.6	(22.8-28.7)	53.5D	(48.3-58.6)	73.3	(68.9-77.2)	**<0.001**	**<0.001**	**<0.001**
Had sexual intercourse before age 13*	4.2	(3.4-5.0)	8.6	(6.5-11.3)	17.2	(14.7-20.1)	**<0.001**	**<0.001**	**<0.001**
Had sexual intercourse with 4 or more people in lifetime*	7.2	(5.8-8.8)	17.6	(14.8-20.8)	29.5D	(25.6-33.7)	**<0.001**	**<0.001**	**<0.001**
Had sexual intercourse with 1 or more people during the past 3 months*	15.2	(13.2-17.5)	36.5D	(32.2-41.0)	54.5U	(50.7-58.3)	**<0.001**	**<0.001**	**<0.001**
Used a condom during last sexual intercourse*	70.3	(65.9-74.4)	65.2	(59.9-70.2)	56.0	(48.6-63.1)	0.077	**0.011**	**<0.001**
Been/gotten someone pregnant 1 or more times*	4.5D	(3.7-5.5)	5.2	(3.6-7.3)	9.9	(7.7-12.7)	0.461	**0.002**	**<0.001**
Used alcohol or drugs before last sexual intercourse*	6.4	(4.4-9.0)	16.9	(13.9-20.3)	39.6	(35.1-44.2)	**<0.001**	**<0.001**	**<0.001**

[1] Non-Drinkers: Consumed no alcohol during the past 30 days.

[2] Non-Binge Drinkers: Consuming at least 1 alcoholic drink during the past 30 days, *but not* binge drinking.

[3] Binge Drinker: Consuming 5 or more alcoholic drinks in a row (within a couple of hours) at least once during the past 30 days.

*Among those who have ever had sexual intercourse.

[D] Data rounded down to nearest whole number for purposes of reporting in the text.

[U] Data rounded up to nearest whole number for purposes of reporting in the text.

95% confidence intervals are a measure of estimate precision. The wider the interval, the more imprecise the estimate.

A p-value is a measure of statistical significance. A **bold** p-value less than .05 means there is a significant difference between that group and the referent (comparison) group.