Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car)																
								5.9	8.2	6.4	6.8	4.1	5.1	Decreased, 2007-2017	No quadratic change	No change
QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car)																
								28.4	30.3	20.9	20.9	17.0	16.4	Decreased, 2007-2017	No quadratic change	No change
QN11: Percentage of students who were ever in a physical fight																
								67.7	63.9	60.5	59.3	53.2	45.8	Decreased, 2007-2017	No quadratic change	Decreased
QN12: Percentage of students who were ever bullied on school property																
											41.4	37.7	36.3	Decreased, 2013-2017	Not available§	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media)

											2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											19.4	17.7	14.8	Decreased, 2013-2017	Not available[§]	No change

QN14: Percentage of students who ever seriously thought about killing themselves

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								20.6	20.9	24.6	12.8	18.5	15.9	Decreased, 2007-2017	No quadratic change	No change

QN15: Percentage of students who ever made a plan about how they would kill themselves

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								11.9	11.4	12.6	18.7	11.4	9.2	No linear change	Increased, 2007-2013 Decreased, 2013-2017	No change

QN16: Percentage of students who ever tried to kill themselves

											2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											7.2	6.1	5.4	No linear change	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Tobacco Use

Health Risk Behavior and Percentages														**Linear Change***	**Quadratic Change***	**Change from 2015-2017 †**
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
								26.4	24.8	22.9	18.0	10.1	6.4	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	Decreased
QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
								8.0	7.7	6.0	4.5	1.7	1.0	Decreased, 2007-2017	Decreased, 2007-2013 Decreased, 2013-2017	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
								1.7	2.2	1.2	1.0	0.3	0.1	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
								1.5	1.9	0.8	0.9	0.3	0.1	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Tobacco Use

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																
												16.9	13.3	Decreased, 2015-2017	Not available§	No change
QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																
												8.1	4.5	Decreased, 2015-2017	Not available	Decreased
QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																
								4.8	6.6	4.9	4.9	2.6	1.4	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages						Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017

QN26: Percentage of students who ever drank alcohol (other than a few sips)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								40.4	40.3	35.9	26.9	21.4	19.3	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change

QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								13.9	15.8	12.4	10.0	7.0	7.9	Decreased, 2007-2017	No quadratic change	No change

QN28: Percentage of students who ever used marijuana

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								13.9	15.4	14.3	13.6	9.9	7.8	Decreased, 2007-2017	Increased, 2007-2011 Decreased, 2011-2017	No change

QN29: Percentage of students who tried marijuana for the first time before age 11 years

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								3.0	3.2	2.0	3.0	1.6	1.1	Decreased, 2007-2017	No quadratic change	No change

QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								2.8	3.3	2.2	2.1	1.0	0.8	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

**Total
Sexual Behaviors**

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN34: Percentage of students who ever had sexual intercourse																
								23.2	23.0	18.7	16.2	10.6	6.4	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	Decreased
QN35: Percentage of students who had sexual intercourse for the first time before age 11 years																
								5.8	6.6	5.2	4.4	2.6	2.3	Decreased, 2007-2017	No quadratic change	No change
QN37: Percentage of students who used a condom during last sexual intercourse (among students who ever had sexual intercourse)																
								78.5	69.3	77.2	69.8	69.5	69.2	Decreased, 2007-2017	No quadratic change	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN38: Percentage of students who described themselves as slightly or very overweight

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								26.6	24.6	26.5	25.6	25.1	27.4	No linear change	No quadratic change	No change

QN39: Percentage of students who were trying to lose weight

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								43.4	42.1	45.6	45.5	42.3	45.9	No linear change	No quadratic change	No change

QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
										11.1	10.3	8.7	8.5	No linear change	Not available[§]	No change

QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
										48.4	46.8	51.1	50.4	No linear change	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Physical Activity

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

| | | | | | | | | | 46.6 | 44.9 | 45.0 | 47.6 | 50.8 | Increased, 2009-2017 | Not available§ | No change |

QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

| | | | | | | | | | 18.1 | 11.2 | 14.8 | 13.0 | 10.9 | Decreased, 2009-2017 | Not available | No change |

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

| | | | | | | | | | 28.7 | 28.6 | 25.1 | 27.5 | 27.8 | No linear change | Not available | No change |

QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)

| | | | | | | | | 43.8 | 42.5 | 43.5 | 44.1 | 32.4 | 24.9 | Decreased, 2007-2017 | No change, 2007-2013 Decreased, 2013-2017 | Decreased |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Physical Activity

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)									32.7	37.2	42.9	46.1	49.8	Increased, 2009-2017	Not available§	No change
QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)									64.9	63.1	63.9	63.0	61.2	67.6	No linear change	No quadratic change	Increased
QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)									29.5	22.1	24.5	18.6	17.6	16.1	Decreased, 2007-2017	No quadratic change	No change
QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)									60.0	58.4	60.2	61.2	61.6	59.0	No linear change	No quadratic change	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total
Other

														Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								20.8	23.6	26.0	26.0	21.7	19.8	No linear change	Increased, 2007-2011 Decreased, 2011-2017	No change

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
										55.6	53.7	55.0	49.4	Decreased, 2011-2017	Not available[§]	Decreased

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
												77.6	74.8	No linear change	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Total Site-Added

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN54: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								5.5	6.5	3.7	4.2	1.5	1.2	Decreased, 2007-2017	Decreased, 2007-2013 Decreased, 2013-2017	No change

QN55: Percentage of students who currently drank alcohol (other than a few sips, during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											10.3	6.6	5.4	Decreased, 2013-2017	Not available[§]	No change

QN56: Percentage of students who currently used marijuana (during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
										7.1	6.9	5.0	4.0	Decreased, 2011-2017	Not available	No change

QN63: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not including diet soda or diet pop, one or more times the day before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											46.8	52.5	57.1	Increased, 2013-2017	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

**Total
Site-Added**

														Health Risk Behavior and Percentages	Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN64: Percentage of students who did not drink caffeinated drinks (including coffee, teas, sodas, power drinks, energy drinks or other drinks with caffeine added, one or more times the day before the survey)

												2015	2017		Linear Change	Quadratic Change	Change
												57.3	53.8		No linear change	Not available§	No change

QN68: Percentage of students who play violent video games 2 or more hours per week on average (such as games that are rated M)

												2015	2017				
												35.4	32.5		Decreased, 2015-2017	Not available	No change

QN69: Percentage of students who have been taught about AIDS or HIV infection in school

2007	2009	2011	2013	2015	2017			
71.3	62.3	56.2	57.3	53.2	46.4	Decreased, 2007-2017	No quadratic change	No change

QN70: Percentage of students who are deaf or have serious difficulty hearing

					2015	2017			
					2.0	2.3	No linear change	Not available	No change

QN71: Percentage of students who have serious difficulty seeing (even when wearing glasses)

					2015	2017			
					9.6	9.1	No linear change	Not available	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Injury and Violence

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car)

| | | | | | | | | 7.2 | 7.7 | 5.8 | 8.0 | 4.1 | 6.3 | No linear change | No quadratic change | No change |

QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car)

| | | | | | | | | 26.5 | 30.0 | 17.8 | 18.6 | 14.2 | 15.4 | Decreased, 2007-2017 | No quadratic change | No change |

QN11: Percentage of students who were ever in a physical fight

| | | | | | | | | 78.5 | 75.8 | 71.0 | 69.8 | 61.9 | 56.8 | Decreased, 2007-2017 | No quadratic change | No change |

QN12: Percentage of students who were ever bullied on school property

| | | | | | | | | | | | 37.0 | 31.1 | 32.3 | Decreased, 2013-2017 | Not available§ | No change |

QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media)

| | | | | | | | | | | | 12.0 | 9.6 | 10.3 | No linear change | Not available | No change |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Injury and Violence

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN14: Percentage of students who ever seriously thought about killing themselves

| | | | | | | | | 17.4 | 14.5 | 18.7 | 8.3 | 12.2 | 12.2 | Decreased, 2007-2017 | No quadratic change | No change |

QN15: Percentage of students who ever made a plan about how they would kill themselves

| | | | | | | | | 9.6 | 8.8 | 10.3 | 11.5 | 7.1 | 7.3 | No linear change | No change, 2007-2013 Decreased, 2013-2017 | No change |

QN16: Percentage of students who ever tried to kill themselves

| | | | | | | | | | | 3.4 | 3.1 | 4.1 | | No linear change | Not available[§] | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

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Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Tobacco Use

	Health Risk Behavior and Percentages													Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
								24.7	26.5	24.3	16.7	8.7	7.3	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change
QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
								7.3	7.2	6.0	3.8	1.3	1.2	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
								1.6	1.9	1.4	1.0	0.3	0.2	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
								1.5	1.5	1.2	0.9	0.2	0.2	Decreased, 2007-2017	No quadratic change	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Tobacco Use

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
												18.0	14.2	No linear change	Not available§	No change

QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
												8.7	4.8	Decreased, 2015-2017	Not available	Decreased

QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
								5.8	5.5	6.6	5.2	2.3	1.4	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Alcohol and Other Drug Use

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN26: Percentage of students who ever drank alcohol (other than a few sips)																
								38.8	42.2	35.8	26.4	20.6	18.0	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change
QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips)																
								14.3	18.3	13.9	11.5	7.7	9.1	Decreased, 2007-2017	No quadratic change	No change
QN28: Percentage of students who ever used marijuana																
								14.7	17.4	18.2	14.8	9.5	7.9	Decreased, 2007-2017	Increased, 2007-2011 Decreased, 2011-2017	No change
QN29: Percentage of students who tried marijuana for the first time before age 11 years																
								4.1	4.4	3.2	3.8	1.2	1.5	Decreased, 2007-2017	No quadratic change	No change
QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase)																
								3.2	2.6	2.8	2.5	0.9	0.8	Decreased, 2007-2017	No quadratic change	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Sexual Behaviors

														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
over Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN34: Percentage of students who ever had sexual intercourse

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								29.0	28.5	24.0	21.4	13.7	10.2	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change

QN35: Percentage of students who had sexual intercourse for the first time before age 11 years

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								8.7	9.7	9.0	6.9	3.7	3.7	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN38: Percentage of students who described themselves as slightly or very overweight																
								23.2	20.0	22.0	23.3	21.1	23.6	No linear change	No quadratic change	No change
QN39: Percentage of students who were trying to lose weight																
								34.5	31.5	36.5	39.1	36.5	38.5	Increased, 2007-2017	No quadratic change	No change
QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey)																
										7.9	8.4	7.4	6.8	No linear change	Not available§	No change
QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)																
										56.4	53.9	60.1	57.7	No linear change	Not available	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Physical Activity

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									52.2	55.2	51.4	57.4	58.8	Increased, 2009-2017	Not available[§]	No change

QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									16.6	10.2	12.5	10.0	10.1	Decreased, 2009-2017	Not available	No change

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									34.2	35.7	31.9	36.6	35.3	No linear change	Not available	No change

QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								44.7	42.3	41.9	45.3	31.4	24.5	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	Decreased

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Physical Activity

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)

| | | | | | | | | | 34.0 | 40.7 | 45.0 | 46.2 | 51.1 | Increased, 2009-2017 | Not available[§] | No change |

QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | | | | | | | 69.1 | 65.7 | 66.8 | 66.1 | 65.1 | 70.7 | No linear change | No quadratic change | No change |

QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)

| | | | | | | | | | 33.3 | 19.5 | 23.6 | 19.4 | 18.6 | 19.3 | Decreased, 2007-2017 | Decreased, 2007-2013 No change, 2013-2017 | No change |

QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)

| | | | | | | | | | 67.9 | 66.1 | 66.3 | 66.5 | 68.8 | 63.5 | No linear change | No quadratic change | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

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Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Other

	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017 †
								21.2	25.5	27.1	26.8	21.6	17.4	No linear change	Increased, 2007-2011 Decreased, 2011-2017	No change

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017 †
										59.6	56.1	57.9	52.5	No linear change	Not available§	No change

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017 †
												76.1	69.5	No linear change	Not available	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Site-Added

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN54: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

| | | | | | | | | 4.9 | 7.4 | 3.9 | 4.9 | 1.4 | 1.8 | Decreased, 2007-2017 | No quadratic change | No change |

QN55: Percentage of students who currently drank alcohol (other than a few sips, during the 30 days before the survey)

| | | | | | | | | | | 10.0 | 5.7 | 4.9 | | Decreased, 2013-2017 | Not available[§] | No change |

QN56: Percentage of students who currently used marijuana (during the 30 days before the survey)

| | | | | | | | | | 9.5 | 7.9 | 4.0 | 4.4 | | Decreased, 2011-2017 | Not available | No change |

QN63: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not including diet soda or diet pop, one or more times the day before the survey)

| | | | | | | | | | | | 43.7 | 49.8 | 56.2 | Increased, 2013-2017 | Not available | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Male
Site-Added

	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN64: Percentage of students who did not drink caffeinated drinks (including coffee, teas, sodas, power drinks, energy drinks or other drinks with caffeine added, one or more times the day before the survey)

												2015	2017	Linear Change	Quadratic Change	Change
												56.9	57.1	No linear change	Not available§	No change

QN68: Percentage of students who play violent video games 2 or more hours per week on average (such as games that are rated M)

| | | | | | | | | | | | | 57.4 | 53.9 | No linear change | Not available | No change |

QN69: Percentage of students who have been taught about AIDS or HIV infection in school

| | | | | | | | 71.7 | 67.4 | 60.3 | 58.6 | 54.4 | 50.0 | Decreased, 2007-2017 | No quadratic change | No change |

QN70: Percentage of students who are deaf or have serious difficulty hearing

| | | | | | | | | | | | | 2.4 | 2.7 | No linear change | Not available | No change |

QN71: Percentage of students who have serious difficulty seeing (even when wearing glasses)

| | | | | | | | | | | | | 5.3 | 7.2 | No linear change | Not available | No change |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Injury and Violence

														Health Risk Behavior and Percentages	Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017 †
								4.4	7.8	6.7	5.3	3.9	3.5	Decreased, 2007-2017	Increased, 2007-2011 Decreased, 2011-2017	No change

QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car)

| | | | | | | | | 30.1 | 30.8 | 24.6 | 23.0 | 19.9 | 17.7 | Decreased, 2007-2017 | No quadratic change | No change |

QN11: Percentage of students who were ever in a physical fight

| | | | | | | | | 56.0 | 50.7 | 48.8 | 47.6 | 42.5 | 32.7 | Decreased, 2007-2017 | Decreased, 2007-2013 Decreased, 2013-2017 | Decreased |

QN12: Percentage of students who were ever bullied on school property

| | | | | | | | | | | | 46.4 | 44.6 | 40.7 | Decreased, 2013-2017 | Not available§ | No change |

QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media)

| | | | | | | | | | | | 27.3 | 26.4 | 20.3 | Decreased, 2013-2017 | Not available | Decreased |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey

New Castle County

Trend Analysis Report

Female
Injury and Violence

														Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN14: Percentage of students who ever seriously thought about killing themselves

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								23.7	27.1	31.0	17.2	24.6	19.9	Decreased, 2007-2017	No quadratic change	No change

QN15: Percentage of students who ever made a plan about how they would kill themselves

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								14.1	13.4	15.2	26.4	16.0	11.3	No linear change	Increased, 2007-2013 Decreased, 2013-2017	Decreased

QN16: Percentage of students who ever tried to kill themselves

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											10.7	8.6	7.1	Decreased, 2013-2017	Not available[§]	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs)

								2007	2009	2011	2013	2015	2017	Linear	Quadratic	Change
								27.7	23.0	21.9	19.5	11.6	5.5	Decreased, 2007-2017	Decreased, 2007-2013 Decreased, 2013-2017	Decreased

QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

								2007	2009	2011	2013	2015	2017	Linear	Quadratic	Change
								8.7	7.5	6.1	5.1	1.9	0.8	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)

								2007	2009	2011	2013	2015	2017	Linear	Quadratic	Change
								1.7	1.5	1.0	0.9	0.2	0.0	Not available	Not available[§]	Not available

QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)

								2007	2009	2011	2013	2015	2017	Linear	Quadratic	Change
								1.4	1.3	0.4	0.9	0.2	0.0	Not available	Not available	Not available

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
												15.2	12.2	Decreased, 2015-2017	Not available[§]	No change

QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
												7.2	4.1	Decreased, 2015-2017	Not available	Decreased

QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								3.5	6.9	3.2	4.3	2.3	1.5	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Alcohol and Other Drug Use

														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
Health Risk Behavior and Percentages																
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN26: Percentage of students who ever drank alcohol (other than a few sips)																
								42.0	37.7	36.1	27.3	21.6	21.1	Decreased, 2007-2017	No quadratic change	No change
QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips)																
								13.3	11.6	11.4	8.5	6.4	6.6	Decreased, 2007-2017	No quadratic change	No change
QN28: Percentage of students who ever used marijuana																
								12.8	13.0	10.5	12.1	9.2	7.9	Decreased, 2007-2017	No quadratic change	No change
QN29: Percentage of students who tried marijuana for the first time before age 11 years																
								1.6	1.3	1.0	1.9	1.4	0.7	No linear change	No quadratic change	No change
QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase)																
								2.1	3.3	1.7	1.5	0.7	0.7	Decreased, 2007-2017	No quadratic change	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Sexual Behaviors

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN34: Percentage of students who ever had sexual intercourse

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								17.2	16.3	13.1	10.4	6.2	2.2	Decreased, 2007-2017	Decreased, 2007-2013 Decreased, 2013-2017	Decreased

QN35: Percentage of students who had sexual intercourse for the first time before age 11 years

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								2.4	2.6	1.0	1.8	1.4	0.8	Decreased, 2007-2017	No quadratic change	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN38: Percentage of students who described themselves as slightly or very overweight

| | | | | | | | | 30.4 | 29.5 | 31.3 | 28.1 | 29.6 | 31.7 | No linear change | No quadratic change | No change |

QN39: Percentage of students who were trying to lose weight

| | | | | | | | | 52.8 | 53.3 | 55.0 | 52.2 | 48.8 | 54.3 | No linear change | No quadratic change | No change |

QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey)

| | | | | | | | | | 14.5 | 12.2 | 10.7 | 10.6 | | Decreased, 2011-2017 | Not available[§] | No change |

QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)

| | | | | | | | | | 39.9 | 39.1 | 41.0 | 42.2 | | No linear change | Not available | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Physical Activity

														Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									40.1	33.9	37.9	37.8	41.5	No linear change	Not available[§]	No change

QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									18.8	12.2	17.4	15.9	11.9	Decreased, 2009-2017	Not available	Decreased

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									22.0	21.1	17.1	18.2	19.1	No linear change	Not available	No change

QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								43.0	42.9	45.2	43.2	32.0	25.6	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	Decreased

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Physical Activity

Health Risk Behavior and Percentages	Linear Change*	Quadratic Change*	Change from 2015-2017 †

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)

| | | | | | | | | | 30.7 | 34.2 | 41.3 | 45.8 | 48.3 | Increased, 2009-2017 | Not available§ | No change |

QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | | | | | | | 60.9 | 61.3 | 61.6 | 59.0 | 58.0 | 63.8 | No linear change | No quadratic change | No change |

QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)

| | | | | | | | | | 25.4 | 25.1 | 26.0 | 18.4 | 17.0 | 12.6 | Decreased, 2007-2017 | No quadratic change | Decreased |

QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)

| | | | | | | | | | 51.9 | 50.9 | 53.6 | 56.0 | 54.3 | 53.8 | No linear change | No quadratic change | No change |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Other

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma

| | | | | | | | | 19.9 | 20.7 | 24.5 | 25.0 | 21.6 | 22.6 | No linear change | No quadratic change | No change |

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

| | | | | | | | | | | 52.6 | 51.1 | 52.2 | 46.0 | No linear change | Not available[§] | No change |

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

| | | | | | | | | | | | | 80.1 | 81.4 | No linear change | Not available | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Site-Added

														Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN54: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								5.9	4.6	3.4	3.4	1.5	0.6	Decreased, 2007-2017	No quadratic change	No change

QN55: Percentage of students who currently drank alcohol (other than a few sips, during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											10.9	7.3	6.1	Decreased, 2013-2017	Not available[§]	No change

QN56: Percentage of students who currently used marijuana (during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
										5.0	5.8	5.0	3.5	No linear change	Not available	No change

QN63: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not including diet soda or diet pop, one or more times the day before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
											49.3	56.2	57.8	Increased, 2013-2017	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Female
Site-Added

	Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN64: Percentage of students who did not drink caffeinated drinks (including coffee, teas, sodas, power drinks, energy drinks or other drinks with caffeine added, one or more times the day before the survey)

| | | | | | | | | | | | | 59.4 | 49.9 | Decreased, 2015-2017 | Not available§ | Decreased |

QN68: Percentage of students who play violent video games 2 or more hours per week on average (such as games that are rated M)

| | | | | | | | | | | | | 12.3 | 8.1 | Decreased, 2015-2017 | Not available | Decreased |

QN69: Percentage of students who have been taught about AIDS or HIV infection in school

| | | | | | | | | 71.1 | 56.7 | 51.3 | 56.1 | 51.7 | 42.4 | Decreased, 2007-2017 | No quadratic change | No change |

QN70: Percentage of students who are deaf or have serious difficulty hearing

| | | | | | | | | | | | | 1.2 | 1.8 | No linear change | Not available | No change |

QN71: Percentage of students who have serious difficulty seeing (even when wearing glasses)

| | | | | | | | | | | | | 13.8 | 11.0 | No linear change | Not available | No change |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			

QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								3.1	3.5	3.0	2.1	1.2	2.2	No linear change	No quadratic change	No change

QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car)

| | | | | | | | | 30.6 | 29.3 | 21.8 | 22.1 | 15.3 | 18.2 | Decreased, 2007-2017 | No quadratic change | No change |

QN11: Percentage of students who were ever in a physical fight

| | | | | | | | | 58.0 | 55.0 | 46.6 | 45.8 | 35.9 | 31.1 | Decreased, 2007-2017 | No quadratic change | No change |

QN12: Percentage of students who were ever bullied on school property

| | | | | | | | | | | | 46.0 | 42.7 | 38.2 | Decreased, 2013-2017 | Not available[¶] | No change |

QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media)

| | | | | | | | | | | | 26.1 | 20.7 | 18.1 | Decreased, 2013-2017 | Not available | No change |

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages			Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN14: Percentage of students who ever seriously thought about killing themselves

| | | | | | | | | 20.4 | 18.2 | 20.5 | 12.0 | 16.2 | 13.7 | Decreased, 2007-2017 | No quadratic change | No change |

QN15: Percentage of students who ever made a plan about how they would kill themselves

| | | | | | | | | 11.6 | 10.2 | 9.7 | 17.6 | 8.2 | 8.1 | No linear change | Increased, 2007-2013 Decreased, 2013-2017 | No change |

QN16: Percentage of students who ever tried to kill themselves

| | | | | | | | | | 4.8 | 4.0 | 4.6 | | | No linear change | Not available[¶] | No change |

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

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Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
								23.4	22.3	21.5	16.6	8.3	6.5	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change
QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
								9.5	7.5	6.2	2.3	1.7	0.8	Decreased, 2007-2017	No quadratic change	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
								1.7	2.6	1.7	0.5	0.2	0.2	Decreased, 2007-2017	No quadratic change	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
								1.5	2.2	0.7	0.5	0.0	0.2	Not available	Not available[¶]	Not available

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																
												13.7	10.9	No linear change	Not available[¶]	No change
QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																
												6.2	2.7	Decreased, 2015-2017	Not available	Decreased
QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																
							3.1	4.1	3.9	1.4	1.1		1.2	Decreased, 2007-2017	No quadratic change	No change

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Alcohol and Other Drug Use

														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
				Health Risk Behavior and Percentages												
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN26: Percentage of students who ever drank alcohol (other than a few sips)																
								37.9	36.0	31.1	23.2	17.2	18.6	Decreased, 2007-2017	No quadratic change	No change
QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips)																
								14.0	14.1	10.3	8.2	4.9	7.2	Decreased, 2007-2017	No quadratic change	No change
QN28: Percentage of students who ever used marijuana																
								10.8	14.1	12.8	8.7	7.0	5.6	Decreased, 2007-2017	Increased, 2007-2011 Decreased, 2011-2017	No change
QN29: Percentage of students who tried marijuana for the first time before age 11 years																
								2.5	1.2	1.2	1.3	0.9	1.0	No linear change	No quadratic change	No change
QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase)																
								2.7	1.9	1.1	1.4	0.4	0.2	Decreased, 2007-2017	No quadratic change	No change

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Sexual Behaviors

														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			

QN34: Percentage of students who ever had sexual intercourse

								2007	2009	2011	2013	2015	2017			
								13.3	13.9	9.2	8.0	4.7	4.0	Decreased, 2007-2017	No quadratic change	No change

QN35: Percentage of students who had sexual intercourse for the first time before age 11 years

								2007	2009	2011	2013	2015	2017			
								2.0	2.9	2.0	1.2	1.2	1.2	No linear change	No quadratic change	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN38: Percentage of students who described themselves as slightly or very overweight

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change
								28.8	25.8	24.7	28.6	24.2	25.0	No linear change	No quadratic change	No change

QN39: Percentage of students who were trying to lose weight

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change
								46.9	41.2	43.4	47.9	35.6	38.3	Decreased, 2007-2017	No quadratic change	No change

QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey)

									2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change
									8.3	9.2	6.6	7.7		No linear change	Not available[¶]	No change

QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)

									2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change
									53.9	50.8	51.1	52.8		No linear change	Not available	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Physical Activity

	Health Risk Behavior and Percentages						Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017

QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
55.8	49.8	52.9	54.8	59.0	No linear change	Not available[¶]	No change

QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
9.8	8.4	9.4	9.4	5.9	No linear change	Not available	No change

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
33.0	31.3	25.7	28.3	29.3	No linear change	Not available	No change

QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)

2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
28.2	28.5	31.3	31.1	20.5	16.0	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Physical Activity

Health Risk Behavior and Percentages						Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017

QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)

2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
27.5	29.9	37.1	42.2	49.1	Increased, 2009-2017	Not available[¶]	No change

QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
62.4	66.2	62.8	58.3	60.5	66.2	No linear change	No quadratic change	No change

QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)

2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
30.7	24.9	27.2	20.8	16.6	13.8	Decreased, 2007-2017	No quadratic change	No change

QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)

2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
66.4	64.1	65.2	65.8	67.8	63.8	No linear change	No quadratic change	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Other

	Health Risk Behavior and Percentages													Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			

QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma

| | | | | | | | | 16.8 | 19.3 | 23.3 | 20.3 | 16.7 | 16.9 | No linear change | Increased, 2007-2011 Decreased, 2011-2017 | No change |

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

| | | | | | | | | | 57.2 | 53.5 | 59.1 | 52.2 | No linear change | Not available[¶] | No change |

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

| | | | | | | | | | | | 84.7 | 82.7 | No linear change | Not available | No change |

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Site-Added

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN54: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
								4.6	4.5	3.4	3.4	1.1	1.5	Decreased, 2007-2017	No quadratic change	No change

QN55: Percentage of students who currently drank alcohol (other than a few sips, during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
										9.0	5.5	4.2		Decreased, 2013-2017	Not available[¶]	No change

QN56: Percentage of students who currently used marijuana (during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
										6.7	3.8	3.5	2.3	Decreased, 2011-2017	Not available	No change

QN63: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not including diet soda or diet pop, one or more times the day before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
											54.8	61.2	62.5	No linear change	Not available	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

White*
Site-Added

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN64: Percentage of students who did not drink caffeinated drinks (including coffee, teas, sodas, power drinks, energy drinks or other drinks with caffeine added, one or more times the day before the survey)																
												54.6	47.4	Decreased, 2015-2017	Not available[¶]	No change
QN68: Percentage of students who play violent video games 2 or more hours per week on average (such as games that are rated M)																
												33.9	34.1	No linear change	Not available	No change
QN69: Percentage of students who have been taught about AIDS or HIV infection in school																
								70.0	57.5	52.4	56.7	56.7	47.5	Decreased, 2007-2017	No quadratic change	No change
QN70: Percentage of students who are deaf or have serious difficulty hearing																
												1.6	1.4	No linear change	Not available	No change
QN71: Percentage of students who have serious difficulty seeing (even when wearing glasses)																
												4.9	4.2	No linear change	Not available	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Injury and Violence

	Health Risk Behavior and Percentages			Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car)																
								7.0	11.7	7.8	9.8	5.8	7.2	No linear change	No quadratic change	No change
QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car)																
								26.0	29.2	16.3	18.5	19.3	12.7	Decreased, 2007-2017	No quadratic change	Decreased
QN11: Percentage of students who were ever in a physical fight																
								83.2	79.7	76.9	73.5	73.4	61.6	Decreased, 2007-2017	No quadratic change	Decreased
QN12: Percentage of students who were ever bullied on school property																
											40.2	36.0	32.2	No linear change	Not available[¶]	No change
QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media)																
											15.2	16.4	10.0	Decreased, 2013-2017	Not available	Decreased

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Injury and Violence

														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
Health Risk Behavior and Percentages																
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN14: Percentage of students who ever seriously thought about killing themselves																
								21.6	22.2	24.6	11.8	20.0	15.5	Decreased, 2007-2017	No quadratic change	No change
QN15: Percentage of students who ever made a plan about how they would kill themselves																
								12.3	11.5	13.6	17.0	14.1	9.4	No linear change	Increased, 2007-2013 Decreased, 2013-2017	No change
QN16: Percentage of students who ever tried to kill themselves																
									6.7	5.4	5.4			No linear change	Not available[¶]	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
								31.0	29.6	22.0	16.0	9.2	5.7	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	No change
QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
								7.0	8.2	3.5	2.3	0.4	0.8	Decreased, 2007-2017	No quadratic change	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
								1.1	0.9	0.0	0.6	0.0	0.0	Not available	Not available[¶]	Not available
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
								1.1	0.9	0.0	0.4	0.0	0.0	Not available	Not available	Not available

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																
												20.3	13.1	Decreased, 2015-2017	Not available[¶]	Decreased
QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																
												10.4	4.7	Decreased, 2015-2017	Not available	Decreased
QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																
							6.4	8.9	3.4	5.1	3.4	1.0	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Alcohol and Other Drug Use

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN26: Percentage of students who ever drank alcohol (other than a few sips)																
								44.6	45.2	34.4	25.6	23.8	17.3	Decreased, 2007-2017	No quadratic change	No change
QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips)																
								13.4	16.9	13.1	7.8	7.7	8.2	Decreased, 2007-2017	No quadratic change	No change
QN28: Percentage of students who ever used marijuana																
								18.1	16.2	15.2	13.5	14.3	7.8	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	Decreased
QN29: Percentage of students who tried marijuana for the first time before age 11 years																
								3.2	4.7	2.3	3.2	1.6	1.0	Decreased, 2007-2017	No quadratic change	No change
QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase)																
								1.8	2.6	1.5	1.9	0.9	0.8	Decreased, 2007-2017	No quadratic change	No change

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Sexual Behaviors

														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
Health Risk Behavior and Percentages																
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			
QN34: Percentage of students who ever had sexual intercourse																
								35.2	35.9	28.0	22.8	17.7	9.0	Decreased, 2007-2017	Decreased, 2007-2013 Decreased, 2013-2017	Decreased
QN35: Percentage of students who had sexual intercourse for the first time before age 11 years																
								10.0	10.7	9.1	7.3	5.7	3.9	Decreased, 2007-2017	No quadratic change	No change

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN38: Percentage of students who described themselves as slightly or very overweight																
								27.1	18.5	22.1	18.4	22.7	26.2	No linear change	Decreased, 2007-2013 Increased, 2013-2017	No change
QN39: Percentage of students who were trying to lose weight																
								39.0	37.3	44.4	39.3	44.2	47.9	Increased, 2007-2017	No quadratic change	No change
QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey)																
									10.9	9.3	7.2	7.5		No linear change	Not available[¶]	No change
QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)																
									45.0	45.7	48.9	46.9		No linear change	Not available	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Physical Activity

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
									37.0	42.3	41.4	45.2	47.2	Increased, 2009-2017	Not available[¶]	No change

QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

| | | | | | | | | | 26.8 | 14.9 | 19.4 | 12.8 | 14.9 | Decreased, 2009-2017 | Not available | No change |

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

| | | | | | | | | | 24.9 | 26.3 | 26.8 | 28.5 | 29.0 | No linear change | Not available | No change |

QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)

| | | | | | | | | 62.1 | 57.9 | 58.9 | 57.3 | 46.4 | 33.7 | Decreased, 2007-2017 | No change, 2007-2013 Decreased, 2013-2017 | Decreased |

[*]Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Physical Activity

														Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
									36.5	46.7	48.2	49.5	48.2	Increased, 2009-2017	Not available[¶]	No change

QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

									61.5	65.4	70.0	68.8	63.1	70.3	No linear change	No quadratic change	No change

QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)

									24.2	18.9	20.7	18.4	18.0	19.4	No linear change	No quadratic change	No change

QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)

									57.3	57.5	53.3	61.7	60.2	56.9	No linear change	No quadratic change	No change

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Other

Health Risk Behavior and Percentages														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma

| | | | | | | | | 25.6 | 33.8 | 28.1 | 32.0 | 26.8 | 23.8 | No linear change | No change, 2007-2013 Decreased, 2013-2017 | No change |

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

| | | | | | | | | | | 54.2 | 53.4 | 50.4 | 47.2 | Decreased, 2011-2017 | Not available[¶] | No change |

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

| | | | | | | | | | | | | 74.5 | 72.1 | No linear change | Not available | No change |

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Site-Added

														Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]
					Health Risk Behavior and Percentages											
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			

QN54: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

| | | | | | | | | 6.0 | 8.2 | 3.5 | 3.8 | 1.1 | 1.2 | Decreased, 2007-2017 | No quadratic change | No change |

QN55: Percentage of students who currently drank alcohol (other than a few sips, during the 30 days before the survey)

| | | | | | | | | | | 7.1 | 6.6 | 5.7 | No linear change | Not available[¶] | No change |

QN56: Percentage of students who currently used marijuana (during the 30 days before the survey)

| | | | | | | | | | 5.4 | 6.6 | 6.1 | 3.6 | No linear change | Not available | No change |

QN63: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not including diet soda or diet pop, one or more times the day before the survey)

| | | | | | | | | | | 44.8 | 43.0 | 52.9 | Increased, 2013-2017 | Not available | Increased |

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Black*
Site-Added

	Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2015-2017 [§]

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017

QN64: Percentage of students who did not drink caffeinated drinks (including coffee, teas, sodas, power drinks, energy drinks or other drinks with caffeine added, one or more times the day before the survey)

2015	2017	Linear	Quadratic	Change
60.5	59.8	No linear change	Not available[¶]	No change

QN68: Percentage of students who play violent video games 2 or more hours per week on average (such as games that are rated M)

| 38.5 | 28.4 | Decreased, 2015-2017 | Not available | Decreased |

QN69: Percentage of students who have been taught about AIDS or HIV infection in school

2007	2009	2011	2013	2015	2017			
80.1	72.0	62.0	64.4	54.8	49.0	Decreased, 2007-2017	No quadratic change	No change

QN70: Percentage of students who are deaf or have serious difficulty hearing

| 1.5 | 2.0 | No linear change | Not available | No change |

QN71: Percentage of students who have serious difficulty seeing (even when wearing glasses)

| 13.5 | 12.1 | No linear change | Not available | No change |

*Non-Hispanic.
[†]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[§]Based on t-test analysis, p < 0.05.
[¶]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Injury and Violence

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car)

| | | | | | | | | 9.8 | 10.5 | 8.4 | 8.0 | 7.1 | 6.8 | No linear change | No quadratic change | No change |

QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car)

| | | | | | | | | 32.1 | 34.2 | 27.6 | 25.9 | 20.0 | 19.4 | Decreased, 2007-2017 | No quadratic change | No change |

QN11: Percentage of students who were ever in a physical fight

| | | | | | | | | 62.4 | 64.7 | 61.1 | 57.0 | 50.9 | 49.8 | Decreased, 2007-2017 | No quadratic change | No change |

QN12: Percentage of students who were ever bullied on school property

| | | | | | | | | | | | 35.2 | 30.8 | 36.5 | No linear change | Not available[§] | No change |

QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media)

| | | | | | | | | | | | 15.1 | 14.5 | 14.2 | No linear change | Not available | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Injury and Violence

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN14: Percentage of students who ever seriously thought about killing themselves

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
								21.7	23.9	32.0	12.9	22.1	21.0	No linear change	No quadratic change	No change

QN15: Percentage of students who ever made a plan about how they would kill themselves

								2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
								13.1	13.1	15.0	21.6	12.4	10.7	No linear change	Increased, 2007-2013 Decreased, 2013-2017	No change

QN16: Percentage of students who ever tried to kill themselves

										2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
										10.8	9.9	7.1		No linear change	Not available§	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
†Based on t-test analysis, p < 0.05.
§Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs)

								2007	2009	2011	2013	2015	2017	Linear	Quadratic	Change
								26.7	27.4	30.4	22.7	15.6	8.6	Decreased, 2007-2017	No change, 2007-2011 Decreased, 2011-2017	Decreased

QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

								2007	2009	2011	2013	2015	2017			
								7.6	10.0	8.6	10.1	4.0	2.7	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)

								2007	2009	2011	2013	2015	2017			
								2.8	3.8	1.8	2.3	0.5	0.4	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)

								2007	2009	2011	2013	2015	2017			
								2.8	3.2	1.6	2.3	0.5	0.4	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Tobacco Use

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])

| | | | | | | | | | | | | 21.1 | 19.1 | No linear change | Not available[§] | No change |

QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 11.3 | 9.4 | No linear change | Not available | No change |

QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

| | | | | | | | 6.6 | 7.6 | 8.2 | 7.8 | 4.3 | 2.8 | No linear change | No change, 2007-2013 Decreased, 2013-2017 | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN26: Percentage of students who ever drank alcohol (other than a few sips)																
								44.8	51.0	49.7	33.9	30.4	26.1	Decreased, 2007-2017	No quadratic change	No change
QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips)																
								16.2	24.4	15.5	14.3	11.5	10.1	Decreased, 2007-2017	No quadratic change	No change
QN28: Percentage of students who ever used marijuana																
								14.1	14.8	17.6	20.2	7.6	12.8	No linear change	No quadratic change	No change
QN29: Percentage of students who tried marijuana for the first time before age 11 years																
								3.0	4.2	2.6	6.4	1.8	1.5	No linear change	No quadratic change	No change
QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase)																
								5.0	6.8	5.2	3.6	1.9	1.5	Decreased, 2007-2017	No quadratic change	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Sexual Behaviors

														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2005**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**			

QN34: Percentage of students who ever had sexual intercourse

| | | | | | | | | 25.3 | 27.3 | 22.9 | 16.5 | 7.4 | 8.0 | Decreased, 2007-2017 | No change, 2007-2011 Decreased, 2011-2017 | No change |

QN35: Percentage of students who had sexual intercourse for the first time before age 11 years

| | | | | | | | | 8.4 | 7.0 | 4.6 | 5.1 | 0.5 | 2.3 | Decreased, 2007-2017 | No quadratic change | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN38: Percentage of students who described themselves as slightly or very overweight																
								26.6	24.7	32.6	32.9	30.7	35.5	Increased, 2007-2017	No quadratic change	No change
QN39: Percentage of students who were trying to lose weight																
								52.5	46.1	54.0	55.1	58.7	60.4	Increased, 2007-2017	No quadratic change	No change
QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey)																
										15.7	15.0	16.4	13.0	No linear change	Not available[§]	No change
QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)																
										42.6	41.0	47.8	47.1	No linear change	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Physical Activity

		Health Risk Behavior and Percentages												Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

									2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
									37.5	38.6	35.8	37.7	42.8	No linear change	Not available[§]	No change

QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

									2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
									28.7	11.7	16.9	19.6	12.1	Decreased, 2009-2017	Not available	Decreased

QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)

									2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
									23.3	25.3	20.8	24.0	24.4	No linear change	Not available	No change

QN42: Percentage of students who watched television 3 or more hours per day (on an average school day)

							2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change 2015-2017
							45.9	49.5	45.8	45.3	31.0	28.0	Decreased, 2007-2017	No change, 2007-2013 Decreased, 2013-2017	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Physical Activity

Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)

| | | | | | | | | | 37.0 | 38.6 | 45.6 | 49.9 | 55.1 | Increased, 2009-2017 | Not available[§] | No change |

QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | | | | | | | 72.1 | 51.3 | 64.2 | 61.4 | 59.1 | 65.4 | No linear change | No change, 2007-2011
No change, 2011-2017 | No change |

QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)

| | | | | | | | | | 35.2 | 22.6 | 22.0 | 14.2 | 17.0 | 15.2 | Decreased, 2007-2017 | Decreased, 2007-2013
No change, 2013-2017 | No change |

QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey)

| | | | | | | | | | 50.3 | 51.1 | 56.7 | 54.7 | 52.7 | 55.2 | No linear change | No quadratic change | No change |

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.
[†]Based on t-test analysis, p < 0.05.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
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**Hispanic
Other**

														Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				

QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
								18.4	16.8	26.6	27.3	19.6	20.9	No linear change	Increased, 2007-2013 / No change, 2013-2017	No change

QN48: Percentage of students who got 8 or more hours of sleep (on an average school night)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
										55.5	56.7	50.4	45.8	Decreased, 2011-2017	Not available[§]	No change

QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change	Quadratic Change	Change from 2015-2017
												66.0	66.8	No linear change	Not available	No change

[*]Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Site-Added

															Health Risk Behavior and Percentages	Linear Change*	Quadratic Change*	Change from 2015-2017 [†]
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					

QN54: Percentage of students who smoked a whole cigarette before age 11 years (for the first time)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017
								5.9	7.7	3.3	5.8	2.9	1.0	Decreased, 2007-2017	No quadratic change	No change

QN55: Percentage of students who currently drank alcohol (other than a few sips, during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017
											16.6	10.0	8.6	Decreased, 2013-2017	Not available[§]	No change

QN56: Percentage of students who currently used marijuana (during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017
											10.6	11.5	4.7	7.8	No linear change	Not available	No change

QN63: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not including diet soda or diet pop, one or more times the day before the survey)

1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	Linear Change*	Quadratic Change*	Change from 2015-2017
											37.2	49.1	51.9	Increased, 2013-2017	Not available	No change

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
[†]Based on t-test analysis, $p < 0.05$.
[§]Not enough years of data to calculate.

Delaware Middle School Survey
New Castle County
Trend Analysis Report

Hispanic
Site-Added

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			

QN64: Percentage of students who did not drink caffeinated drinks (including coffee, teas, sodas, power drinks, energy drinks or other drinks with caffeine added, one or more times the day before the survey)

| | | | | | | | | | | | | 59.2 | 55.9 | No linear change | Not available§ | No change |

QN68: Percentage of students who play violent video games 2 or more hours per week on average (such as games that are rated M)

| | | | | | | | | | | | | 33.0 | 35.5 | No linear change | Not available | No change |

QN69: Percentage of students who have been taught about AIDS or HIV infection in school

| | | | | | | | 65.7 | 57.5 | 51.7 | 50.4 | | 41.0 | 39.7 | Decreased, 2007-2017 | No quadratic change | No change |

QN70: Percentage of students who are deaf or have serious difficulty hearing

| | | | | | | | | | | | | 2.9 | 4.6 | No linear change | Not available | No change |

QN71: Percentage of students who have serious difficulty seeing (even when wearing glasses)

| | | | | | | | | | | | | 12.6 | 15.0 | No linear change | Not available | No change |

*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, $p < 0.05$.
†Based on t-test analysis, $p < 0.05$.
§Not enough years of data to calculate.