Kentucky High School Survey
Trend Analysis Report

Total
Injury and Violence

	Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991 1993 1995 1997 1999 2001 2003 2004 2007 2009 2011 2013 2015 2017 2019 2021				

QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
5.7	5.9	3.9	4.2	2.5	Decreased, 2013-2021	Not available[§]	No change

QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
36.3	36.5	34.7	32.2	34.8	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.

Kentucky High School Survey
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN13: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													7.3	5.3	5.8	No linear change	Not available[§]	No change

QN14: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														9.5	9.0	No linear change	Not available	No change

QN15: Percentage of students who were threatened or injured with a weapon on school property (such as a gun, knife, or club, one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			6.8			5.2	8.0	8.3	7.9	7.4	5.4	7.2	7.1	7.1	6.4	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.

Kentucky High School Survey
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN17: Percentage of students who were in a physical fight on school property (one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
		12.5				10.1	12.7	10.6	9.5	11.4	6.0	7.8	7.7	5.6	6.6	Decreased, 1997-2021	No quadratic change	No change

QN21: Percentage of students who experienced sexual dating violence (being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to do, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											9.8	10.1	6.5	6.8	13.5	No linear change	Not available[§]	Increased

[*]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.

Kentucky High School Survey
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											9.8	8.9	8.6	7.4	8.4	No linear change	Not available§	No change

QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									20.8	18.9	21.4	22.0	21.2	23.8	16.0	No linear change	No change, 2009-2017 Decreased, 2017-2021	Decreased

QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										17.4	13.2	17.0	18.2	18.0	17.7	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.

Kentucky High School Survey
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						30.1	28.2	29.4	26.7	27.0	25.7	31.3	29.2	37.2	39.2	Increased, 2003-2021	Decreased, 2003-2013 Increased, 2013-2021	No change

QN26: Percentage of students who seriously considered attempting suicide (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			22.4			17.6	15.4	15.1	14.6	14.8	15.0	15.7	14.8	18.4	19.1	Decreased, 1997-2021	Decreased, 1997-2009 Increased, 2009-2021	No change

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			17.0			14.5	11.6	11.9	12.5	13.7	12.6	13.9	13.0	15.9	15.0	No linear change	Decreased, 1997-2007 Increased, 2007-2021	No change

QN28: Percentage of students who actually attempted suicide (one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			8.0			10.3	9.2	7.6	8.8	10.9	7.7	9.4	7.9	8.1	9.5	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Injury and Violence

						Health Risk Behavior and Percentages										Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)

																Linear Change	Quadratic Change	Change from 2019-2021
			2.5			3.7	2.7	2.4	3.5	4.6	2.9	3.9	2.8	3.0	3.2	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

**Total
Tobacco Use**

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)																		
			77.3			71.1	59.5	62.2	59.0	59.2	47.1	44.1	40.5	30.6	26.4	Decreased, 1997-2021	Decreased, 1997-2011 Decreased, 2011-2021	No change
QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs)																		
													15.5	11.8	13.5	No linear change	Not available[§]	No change
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																		
			47.0			32.7	26.2	26.0	26.1	24.1	17.9	16.9	14.3	8.9	4.9	Decreased, 1997-2021	Decreased, 1997-2017 Decreased, 2017-2021	Decreased
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																		
			27.6			18.4	14.4	13.4	12.0	11.6	7.3	5.7	4.9	3.0	1.3	Decreased, 1997-2021	Decreased, 1997-2011 Decreased, 2011-2021	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.

Kentucky High School Survey
Trend Analysis Report

**Total
Tobacco Use**

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																		
			22.5			14.9	11.1	10.6	9.3	9.0	5.6	4.6	3.7	2.2	1.1	Decreased, 1997-2021	Decreased, 1997-2011 Decreased, 2011-2021	No change
QN33: Percentage of students who smoked more than 10 cigarettes per day (on the days they smoked during the 30 days before the survey, among students who currently smoked cigarettes)																		
			26.2			16.6	19.1	13.6	13.8	18.2	10.9	6.8	7.2	11.0	8.2	Decreased, 1997-2021	No quadratic change	No change
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu])																		
												41.7	44.5	53.7	45.1	Increased, 2015-2021	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.

Total
Tobacco Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu], on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 23.4 | 14.1 | 26.1 | 21.9 | No linear change | Not available[§] | No change |

QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey)

| | | | | | | | | | | | | 3.2 | 2.7 | 11.1 | 8.1 | Increased, 2015-2021 | Not available | Decreased |

QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey)

| | | | | | | | | | | | | 2.2 | 1.9 | 8.7 | 6.8 | Increased, 2015-2021 | Not available | No change |

QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 26.9 | 19.6 | 26.3 | 21.7 | 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.

Kentucky High School Survey
Trend Analysis Report

**Total
Tobacco Use**

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
						Health Risk Behavior and Percentages												
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 10.6 | 6.4 | 4.2 | Decreased, 2017-2021 | Not available[§] | No change |

QNFRSKL: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on 20 or more days during the 30 days before the survey)

| | | | | | | | | | | | | | 4.5 | 2.4 | 1.5 | Decreased, 2017-2021 | Not available | No change |

QNDAYSKL: Percentage of students who currently used smokeless tobacco daily (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on all 30 days during the 30 days before the survey)

| | | | | | | | | | | | | | 3.4 | 2.2 | 1.1 | Decreased, 2017-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

**Total
Tobacco Use**

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

						18.7	15.5	15.5	17.2	17.5	13.3	14.0	11.0	7.9	4.3	Decreased, 2003-2021	Decreased, 2003-2015 Decreased, 2015-2021	Decreased

QNTB4: Percentage of students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products (on at least 1 day during the 30 days before the survey)

													23.4	27.1	22.5	No linear change	Not available[§]	No change

QNFRCGR: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or little cigars, on 20 or more days during the 30 days before the survey)

						1.4	2.6	2.0	1.8	2.5	1.9	1.8	1.0	1.6	1.0	Decreased, 2003-2021	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.

Kentucky High School Survey
Trend Analysis Report

**Total
Tobacco Use**

	Health Risk Behavior and Percentages													Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**	

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																	
						37.6	29.4	28.8	29.3	27.8	22.0	20.7	17.3	11.6	6.9	Decreased, 2003-2021	Decreased, 2003-2017 Decreased, 2017-2021	Decreased
QNDAYCGR: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little cigars, on all 30 days during the 30 days before the survey)																	
						0.8	1.7	1.3	1.5	1.6	1.2	1.1	0.5	1.5	0.9	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																		
			30.4			26.8	28.9	25.1	21.7	20.5	19.0	15.9	17.1	15.4	14.4	Decreased, 1997-2021	No quadratic change	No change
QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																		
			49.3			45.1	37.4	40.6	37.8	34.6	30.4	28.5	26.6	23.5	17.5	Decreased, 1997-2021	Decreased, 1997-2009 Decreased, 2009-2021	Decreased
QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row if they were female or five or more drinks of alcohol in a row if they were male, within a couple of hours, on at least 1 day during the 30 days before the survey)																		
													13.2	10.3	8.0	Decreased, 2017-2021	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.

Kentucky High School Survey
Trend Analysis Report

Total
Alcohol and Other Drug Use

							Health Risk Behavior and Percentages									Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN43: Percentage of students who reported that the largest number of drinks they had in a row was 10 or more (within a couple of hours, during the 30 days before the survey)

														2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														3.6	2.1	No linear change	Not available[§]	Decreased

QN45: Percentage of students who ever used marijuana (one or more times during their life)

			1997			2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
			48.1			43.3	34.4	35.0	31.4	37.4	34.0	33.1	32.1	31.9	23.1	Decreased, 1997-2021	No quadratic change	Decreased

QN46: Percentage of students who tried marijuana for the first time before age 13 years

			1997			2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
			9.3			11.5	10.0	10.2	9.2	10.0	8.5	6.3	7.4	7.0	6.1	Decreased, 1997-2021	No change, 1997-2009 Decreased, 2009-2021	No change

QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

			1997			2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
			28.6			21.1	15.8	16.4	16.1	19.2	17.7	17.2	15.8	16.1	11.9	Decreased, 1997-2021	Decreased, 1997-2004 Decreased, 2004-2021	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.

Kentucky High School Survey
Trend Analysis Report

Total
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN48: Percentage of students who ever used synthetic marijuana (one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												10.3	7.9	6.2	6.7	Decreased, 2015-2021	Not available[§]	No change

QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													10.9	11.0	10.6	No linear change	Not available	No change

QN51: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			24.7			14.3	13.5	14.2	13.4	11.4	7.1	7.4	6.5	5.6	7.5	Decreased, 1997-2021	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.

Kentucky High School Survey
Trend Analysis Report

Total
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN52: Percentage of students who ever used heroin (also called "smack," "junk," or "China White," one or more times during their life)

												3.7	2.1	1.8	1.9	Decreased, 2015-2021	Not available[§]	No change

QN53: Percentage of students who ever used methamphetamines (also called "speed," "crystal meth," "crank," "ice," or "meth," one or more times during their life)

														2.2	1.7	No linear change	Not available	No change

QN55: Percentage of students who ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)

													2.5	2.2	1.5	No linear change	Not available	No change

QN56: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)

			34.2			30.4	19.8	27.0	25.6	24.4	20.6	20.9	22.4	24.0	18.5	Decreased, 1997-2021	No quadratic change	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.

Kentucky High School Survey
Trend Analysis Report

**Total
Sexual Behaviors**

						Health Risk Behavior and Percentages										Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QN57: Percentage of students who ever had sexual intercourse																		
			53.7			52.1	46.3	50.3	48.3	51.8	44.7	41.7	38.4	39.2	30.7	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	Decreased
QN58: Percentage of students who had sexual intercourse for the first time before age 13 years																		
			7.2			5.6	7.9	7.8	6.7	7.2	5.4	4.8	3.7	3.2	3.9	Decreased, 1997-2021	No change, 1997-2007 Decreased, 2007-2021	No change
QN59: Percentage of students who had sexual intercourse with four or more persons during their life																		
			18.1			14.8	13.6	14.4	12.7	16.6	12.6	10.4	9.6	8.5	7.1	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	No change
QN60: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)																		
			39.4			38.7	33.5	36.5	33.6	37.7	31.7	30.3	29.0	28.7	22.0	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Sexual Behaviors

																Linear Change[*]	**Quadratic Change**[*]	**Change from 2019-2021**[†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN61: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)

| | | | 27.6 | | | 21.9 | 19.3 | 19.0 | 22.9 | 16.8 | 18.7 | 17.1 | 17.5 | 14.9 | 13.3 | Decreased, 1997-2021 | No quadratic change | No change |

QN62: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)

| | | | 57.3 | | | 61.7 | 65.2 | 59.0 | 59.9 | 50.6 | 53.1 | 53.9 | 48.7 | 52.6 | 46.4 | Decreased, 1997-2021 | Increased, 1997-2004 Decreased, 2004-2021 | No change |

QN82: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)

| | | | | | | | | | | | | 11.6 | 11.3 | 10.8 | 7.3 | Decreased, 2015-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN66: Percentage of students who described themselves as slightly or very overweight

			32.0			33.8	33.2	31.2	30.1	30.0	32.3	32.0	33.7	34.7	33.3	No linear change	No quadratic change	No change

QNOWT: Percentage of students who were overweight (>= 85th percentile but <95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

						15.2	16.8	16.3	15.4	15.4	15.4	17.0	16.1	17.8	16.2	No linear change	No quadratic change	No change

QNOBESE: Percentage of students who had obesity (>= 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

						14.5	15.4	15.4	17.4	16.5	18.0	18.5	20.2	18.4	19.6	Increased, 2003-2021	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, $p < 0.05$.
[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN68: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)

| | | | | | | 25.8 | 27.2 | 28.8 | 26.1 | 26.5 | 28.5 | 28.3 | 31.3 | 32.7 | 32.9 | Increased, 2003-2021 | No change, 2003-2011 Increased, 2011-2021 | No change |

QN69: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)

| | | | | | | 18.5 | 20.8 | 18.9 | 18.8 | 19.1 | 14.2 | 14.8 | 16.7 | 18.4 | 19.1 | Decreased, 2003-2021 | Decreased, 2003-2015 Increased, 2015-2021 | No change |

QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 9.9 | 11.3 | 10.6 | 9.7 | 9.7 | 8.0 | 7.7 | 8.8 | 10.4 | 9.8 | No linear change | Decreased, 2003-2015 No change, 2015-2021 | 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.

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Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 46.0 | 50.1 | 47.0 | 50.8 | 50.3 | 55.4 | 52.7 | 48.3 | 47.5 | 47.5 | No linear change | Increased, 2003-2013 Decreased, 2013-2021 | No change |

QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 19.2 | 23.8 | 21.3 | 24.2 | 23.0 | 25.7 | 21.0 | 20.8 | 20.9 | 19.0 | Decreased, 2003-2021 | Increased, 2003-2013 Decreased, 2013-2021 | No change |

QN70: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)

| | | | | | | 40.3 | 47.2 | 46.3 | 45.6 | 45.6 | 47.0 | 49.6 | 49.7 | 50.9 | 52.9 | Increased, 2003-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN71: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						25.6	24.2	24.3	23.1	25.7	26.5	29.0	35.4	37.6	37.6	Increased, 2003-2021	No change, 2003-2009 Increased, 2009-2021	No change

QN72: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						59.2	59.8	60.0	58.6	58.9	55.9	58.2	61.7	62.9	65.3	Increased, 2003-2021	No change, 2003-2015 Increased, 2015-2021	No change

QN73: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						17.9	19.3	20.7	21.7	22.9	21.1	21.9	24.1	24.4	25.5	Increased, 2003-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 6.4 | 7.5 | 6.7 | 6.3 | 7.0 | 6.2 | 8.5 | 10.3 | 11.0 | 10.8 | Increased, 2003-2021 | No change, 2003-2011 Increased, 2011-2021 | No change |

QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 55.6 | 58.0 | 57.4 | 58.7 | 56.8 | 57.3 | 57.1 | 50.7 | 48.2 | 47.8 | Decreased, 2003-2021 | No change, 2003-2015 Decreased, 2015-2021 | No change |

QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 22.2 | 26.3 | 22.0 | 22.3 | 25.4 | 22.7 | 23.2 | 18.3 | 18.7 | 16.6 | Decreased, 2003-2021 | No change, 2003-2015 Decreased, 2015-2021 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						10.5	13.5	11.1	10.9	12.3	11.6	11.1	9.0	8.9	8.2	Decreased, 2003-2021	No change, 2003-2013 Decreased, 2013-2021	No change

QN74: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							16.4	18.1	17.6	21.7	23.6	23.2	25.4	22.1		Increased, 2007-2021	Increased, 2007-2015 No change, 2015-2021	No change

QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							40.5	35.7	36.4	32.9	32.4	28.1	25.6	27.6		Decreased, 2007-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages															Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

| | | | | | | | | 31.4 | 26.7 | 26.3 | 24.5 | 23.3 | 20.5 | 17.6 | 18.5 | Decreased, 2007-2021 | No quadratic change | No change |

QN75: Percentage of students who did not drink milk (during the 7 days before the survey)

| | | | | | | | | | | | 21.9 | 22.5 | 26.0 | 30.0 | 37.3 | Increased, 2013-2021 | Not available§ | Increased |

QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

| | | | | | | | | | | | 34.5 | 30.3 | 28.0 | 24.6 | 18.9 | Decreased, 2013-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Total
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

| | | | | | | | | | | 10.5 | 8.7 | 7.1 | 7.3 | 4.7 | Decreased, 2013-2021 | Not available[§] | Decreased |

QN76: Percentage of students who did not eat breakfast (during the 7 days before the survey)

| | | | | | | | | | 14.9 | 15.5 | 12.3 | 12.6 | 15.4 | 16.6 | 20.5 | Increased, 2009-2021 | Decreased, 2009-2015 / Increased, 2015-2021 | Increased |

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

| | | | | | | | | | 31.9 | 29.9 | 40.1 | 34.8 | 30.2 | 26.5 | 23.0 | Decreased, 2009-2021 | Increased, 2009-2013 / Decreased, 2013-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

**Total
Physical Activity**

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN77: 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)

										2011	2013	2015	2017	2019	2021	Linear	Quadratic	2019-2021
										39.3	39.8	37.0	40.6	37.4	44.7	Increased, 2011-2021	No change, 2011-2015 Increased, 2015-2021	Increased

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)

| | | | | | | | | | | 20.6 | 19.9 | 16.5 | 19.2 | 19.1 | 15.9 | Decreased, 2011-2021 | No quadratic change | 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)

| | | | | | | | | | | 21.9 | 22.5 | 20.2 | 22.0 | 19.0 | 25.3 | No linear change | No change, 2011-2017 No change, 2017-2021 | Increased |

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

Kentucky High School Survey
Trend Analysis Report

Total
Physical Activity

						Health Risk Behavior and Percentages										Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN79: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | 31.3 | | | 34.9 | 25.2 | 31.0 | 32.9 | 35.4 | 34.4 | 37.8 | 31.2 | 31.5 | 35.6 | 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)

| | | | 22.3 | | | 23.8 | 17.3 | 20.0 | 23.1 | 20.0 | 19.3 | 22.3 | 19.2 | 17.8 | 23.5 | No linear change | No quadratic change | No change |

QN80: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the 12 months before the survey)

| | | | | | | 50.9 | 52.6 | 48.6 | 48.2 | 46.3 | 50.8 | 50.8 | 48.3 | 45.9 | 46.5 | Decreased, 2003-2021 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Total
Other

																Linear Change*	Quadratic Change*	Change from 2019-2021 †
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN84: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)

								2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								69.7	69.0	67.8	69.4	69.8	73.1	71.6	69.7	Increased, 2007-2021	No quadratic change	No change

QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)

								2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								2.7	2.0	3.2	2.3	2.2	2.1	1.9	1.9	Decreased, 2007-2021	No quadratic change	No change

QN86: Percentage of students who got 8 or more hours of sleep (on an average school night)

												2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												24.3	22.0	19.4	20.0	Decreased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

Total
Site-Added

Health Risk Behavior and Percentages			Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN87: Percentage of students who usually did not sleep in their parent's or guardian's home (during the 30 days before the survey)

| | | | | | | | | | | | | | 5.7 | 5.2 | 5.8 | No linear change | Not available[§] | No change |

QNWATER1: Percentage of students who drank a bottle or glass of plain water one or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 59.5 | 62.7 | 63.1 | No linear change | Not available | No change |

QNWATER2: Percentage of students who drank a bottle or glass of plain water two or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 49.5 | 54.4 | 54.7 | 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.

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Kentucky High School Survey
Trend Analysis Report

Total Site-Added

	Health Risk Behavior and Percentages															Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QNWATER3: Percentage of students who drank a bottle or glass of plain water three or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 37.2 | 40.7 | 41.0 | No linear change | Not available§ | No change |

QN92: Percentage of students who did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times during the 12 months before the survey)

| | | | | | | | | | | | | | 20.8 | 17.2 | 17.6 | 21.9 | No linear change | Not available | No change |

QN93: Percentage of students who currently used an electronic vapor product on school property (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | | 19.7 | 13.8 | Decreased, 2019-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Total Site-Added

																Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**				

QN94: Percentage of students who did not drink a bottle or glass of plain water (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

													9.2	9.0	6.5	No linear change	Not available[§]	No change

QN95: Percentage of students who brushed their teeth on all 7 days (during the 7 days before the survey)

						76.7	77.3	74.5	77.2	72.9	70.6	70.4	68.1	Decreased, 2007-2021	No quadratic change	No change

QN96: Percentage of students who missed one or more days of school because their mental health was not good (including stress, anxiety, and depression, during the 30 days before the survey)

													25.4	25.8	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.

Kentucky High School Survey
Trend Analysis Report

**Total
Site-Added**

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN97: Percentage of students who do not have an adult in their life that they trust and can talk to about serious problems

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											16.2	13.9	11.3	15.5	16.6	No linear change	Not available[§]	No change

QN98: Percentage of students who reported there is at least one teacher or other adult in their school that they can talk to if they have a problem

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														69.7	68.6	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.

Kentucky High School Survey
Trend Analysis Report

Male
Injury and Violence

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

											7.8	5.4	4.3	4.7	3.0	Decreased, 2013-2021	Not available[§]	No change

QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

											40.4	36.1	37.7	34.8	31.9	Decreased, 2013-2021	Not available	No change

QN13: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey)

												9.4	8.5	7.5	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.

Kentucky High School Survey
Trend Analysis Report

Male
Injury and Violence

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN14: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														7.6	8.0	No linear change	Not available[§]	No change

QN15: Percentage of students who were threatened or injured with a weapon on school property (such as a gun, knife, or club, one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			9.6			7.7	11.1	9.6	10.4	8.7	6.6	7.6	9.1	7.9	6.5	Decreased, 1997-2021	No quadratic change	No change

QN17: Percentage of students who were in a physical fight on school property (one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			18.6			12.0	15.9	13.7	13.8	15.1	7.7	10.3	10.3	6.1	8.7	Decreased, 1997-2021	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.

Kentucky High School Survey
Trend Analysis Report

Male
Injury and Violence

Health Risk Behavior and Percentages						Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN21: Percentage of students who experienced sexual dating violence (being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to do, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

											6.4	6.1	2.2	3.2	6.7	No linear change	Not available[§]	Increased

QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

											7.6	5.3	6.7	5.4	5.6	No linear change	Not available	No change

QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)

									19.7	17.1	18.6	15.5	16.4	19.6	11.9	Decreased, 2009-2021	No quadratic change	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.

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Kentucky High School Survey
Trend Analysis Report

Male
Injury and Violence

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										13.1	9.9	9.2	11.8	13.0	12.3	No linear change	No quadratic change	No change

QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						23.6	21.8	23.1	21.7	22.1	20.0	20.5	17.6	27.8	26.9	No linear change	Decreased, 2003-2017; Increased, 2017-2021	No change

QN26: Percentage of students who seriously considered attempting suicide (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			18.4			14.3	12.6	12.2	12.4	11.6	10.9	10.6	9.6	14.6	13.7	Decreased, 1997-2021	Decreased, 1997-2015; Increased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

Male
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			12.7			13.8	9.9	9.9	10.9	12.8	10.9	9.8	9.6	14.0	10.8	No linear change	No quadratic change	Decreased

QN28: Percentage of students who actually attempted suicide (one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			6.5			9.8	7.0	5.8	8.4	10.4	5.9	5.7	5.8	6.2	6.1	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	No change

QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			2.5			3.4	2.2	1.4	3.8	4.9	2.6	2.5	2.0	2.9	1.9	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Male
Tobacco Use

	Health Risk Behavior and Percentages														**Linear Change**[*]	**Quadratic Change**[*]	**Change from 2019-2021**[†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**		

QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			78.1			69.6	60.2	62.0	61.1	61.2	49.2	41.4	41.2	31.7	25.9	Decreased, 1997-2021	Decreased, 1997-2011 Decreased, 2011-2021	No change

QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													16.5	14.1	14.4	No linear change	Not available[§]	No change

QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			48.4			31.8	26.4	26.2	29.1	26.7	20.3	15.7	14.3	10.3	5.1	Decreased, 1997-2021	Decreased, 1997-2017 Decreased, 2017-2021	Decreased

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

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			30.0			18.0	15.3	12.5	12.1	12.3	8.4	4.5	4.2	3.4	1.5	Decreased, 1997-2021	No quadratic change	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.

Kentucky High School Survey
Trend Analysis Report

Male
Tobacco Use

	Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

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

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			24.9			14.6	12.3	10.3	9.7	9.6	6.6	3.6	3.3	2.3	1.3	Decreased, 1997-2021	No quadratic change	No change

QN33: Percentage of students who smoked more than 10 cigarettes per day (on the days they smoked during the 30 days before the survey, among students who currently smoked cigarettes)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			30.0			17.5	23.6	14.0	17.9	20.3	11.8	8.6	7.3	14.1	6.8	Decreased, 1997-2021	No quadratic change	No change

QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu])

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												43.9	46.9	52.7	40.7	No linear change	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.

Kentucky High School Survey
Trend Analysis Report

Male
Tobacco Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu], on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 23.4 | 16.4 | 27.6 | 16.9 | No linear change | Not available[§] | Decreased |

QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey)

| | | | | | | | | | | | | 4.4 | 4.1 | 14.2 | 7.1 | Increased, 2015-2021 | Not available | Decreased |

QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey)

| | | | | | | | | | | | | 3.2 | 3.0 | 11.6 | 5.9 | Increased, 2015-2021 | Not available | Decreased |

QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 26.6 | 21.8 | 27.6 | 16.4 | Decreased, 2015-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Tobacco Use

	Health Risk Behavior and Percentages																	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**				

QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 17.2 | 10.2 | 5.8 | Decreased, 2017-2021 | Not available[§] | Decreased |

QNFRSKL: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on 20 or more days during the 30 days before the survey)

| | | | | | | | | | | | | | 8.1 | 4.3 | 2.2 | Decreased, 2017-2021 | Not available | No change |

QNDAYSKL: Percentage of students who currently used smokeless tobacco daily (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on all 30 days during the 30 days before the survey)

| | | | | | | | | | | | | | 6.4 | 3.8 | 1.7 | Decreased, 2017-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																		
						24.2	21.5	19.6	24.6	23.4	18.3	17.1	13.4	10.5	5.2	Decreased, 2003-2021	Decreased, 2003-2015 Decreased, 2015-2021	Decreased
QNTB4: Percentage of students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products (on at least 1 day during the 30 days before the survey)																		
													27.9	28.7	17.7	Decreased, 2017-2021	Not available[§]	Decreased
QNFRCGR: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or little cigars, on 20 or more days during the 30 days before the survey)																		
						2.2	4.2	2.8	3.2	3.6	2.1	2.5	0.9	2.1	1.0	Decreased, 2003-2021	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.

Kentucky High School Survey
Trend Analysis Report

Male
Tobacco Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																		
						38.2	30.9	29.9	34.1	32.0	25.5	20.7	18.2	13.6	7.1	Decreased, 2003-2021	Decreased, 2003-2013 Decreased, 2013-2021	Decreased
QNDAYCGR: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little cigars, on all 30 days during the 30 days before the survey)																		
						1.2	2.9	2.2	2.7	2.6	1.4	1.6	0.7	1.8	0.8	Decreased, 2003-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Male
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)

| | | | 37.5 | | | 31.9 | 32.9 | 28.4 | 24.4 | 24.4 | 21.0 | 17.9 | 18.5 | 17.5 | 14.5 | Decreased, 1997-2021 | No quadratic change | No change |

QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)

| | | | 53.8 | | | 46.3 | 38.0 | 41.0 | 40.4 | 35.6 | 32.6 | 25.6 | 24.4 | 23.6 | 14.4 | Decreased, 1997-2021 | Decreased, 1997-2011 Decreased, 2011-2021 | Decreased |

QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row if they were female or five or more drinks of alcohol in a row if they were male, within a couple of hours, on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 12.7 | 11.8 | 7.0 | Decreased, 2017-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Alcohol and Other Drug Use

								Health Risk Behavior and Percentages								Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN43: Percentage of students who reported that the largest number of drinks they had in a row was 10 or more (within a couple of hours, during the 30 days before the survey)

														5.0	2.5	Decreased, 2019-2021	Not available[§]	Decreased

QN45: Percentage of students who ever used marijuana (one or more times during their life)

			51.9			45.4	36.0	36.0	34.4	39.7	36.9	33.7	30.9	31.9	21.3	Decreased, 1997-2021	No quadratic change	Decreased

QN46: Percentage of students who tried marijuana for the first time before age 13 years

			11.3			14.7	13.4	13.4	11.4	13.1	10.6	6.1	8.8	7.7	5.4	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	No change

QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

			33.5			22.5	18.1	17.4	19.6	20.6	20.0	17.5	14.6	16.9	10.9	Decreased, 1997-2021	No quadratic change	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.

Kentucky High School Survey
Trend Analysis Report

Male
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN48: Percentage of students who ever used synthetic marijuana (one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												8.5	7.6	7.2	6.4	No linear change	Not available[§]	No change

QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													9.5	10.8	7.1	Decreased, 2017-2021	Not available	Decreased

QN51: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			26.5			13.8	14.0	14.7	13.6	12.1	6.7	5.7	7.4	5.1	6.3	Decreased, 1997-2021	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.

Kentucky High School Survey
Trend Analysis Report

Male
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN52: Percentage of students who ever used heroin (also called "smack," "junk," or "China White," one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												3.6	2.2	2.0	1.9	No linear change	Not available[§]	No change

QN53: Percentage of students who ever used methamphetamines (also called "speed," "crystal meth," "crank," "ice," or "meth," one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														2.5	1.8	No linear change	Not available	No change

QN55: Percentage of students who ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													2.7	2.2	1.8	No linear change	Not available	No change

QN56: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			39.8			31.7	21.6	28.8	27.9	26.6	24.8	20.5	23.0	24.8	18.7	Decreased, 1997-2021	No quadratic change	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.

Kentucky High School Survey
Trend Analysis Report

Male
Sexual Behaviors

							Health Risk Behavior and Percentages									Linear Change*	Quadratic Change*	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN57: Percentage of students who ever had sexual intercourse

| | | | 56.9 | | | 49.7 | 48.0 | 49.0 | 49.0 | 51.7 | 45.9 | 42.3 | 40.3 | 38.3 | 29.0 | Decreased, 1997-2021 | Decreased, 1997-2017 Decreased, 2017-2021 | Decreased |

QN58: Percentage of students who had sexual intercourse for the first time before age 13 years

| | | | 10.7 | | | 7.6 | 11.5 | 10.0 | 9.3 | 8.9 | 7.5 | 5.4 | 5.3 | 4.2 | 4.4 | Decreased, 1997-2021 | No change, 1997-2009 Decreased, 2009-2021 | No change |

QN59: Percentage of students who had sexual intercourse with four or more persons during their life

| | | | 23.1 | | | 15.8 | 16.6 | 14.8 | 14.7 | 17.0 | 14.4 | 10.6 | 11.7 | 9.7 | 8.4 | Decreased, 1997-2021 | No quadratic change | No change |

QN60: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)

| | | | 40.2 | | | 34.8 | 32.5 | 33.2 | 31.2 | 34.6 | 31.0 | 31.0 | 28.8 | 26.9 | 20.1 | Decreased, 1997-2021 | No quadratic change | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Male
Sexual Behaviors

	Health Risk Behavior and Percentages													Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**	

QN61: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)

| | | | 34.8 | | | 28.0 | 24.6 | 21.4 | 28.6 | 22.2 | 23.8 | 17.3 | 17.9 | 18.3 | 11.3 | Decreased, 1997-2021 | No quadratic change | No change |

QN62: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)

| | | | 65.5 | | | 68.3 | 69.4 | 67.5 | 66.3 | 55.9 | 62.1 | 64.6 | 53.3 | 60.5 | 51.9 | Decreased, 1997-2021 | No quadratic change | No change |

QN82: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)

| | | | | | | | | | | | | 10.1 | 12.0 | 11.4 | 9.0 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN66: Percentage of students who described themselves as slightly or very overweight

			1997			2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			26.3			27.9	29.5	25.0	24.2	23.2	29.3	25.5	28.1	30.4	30.4	No linear change	No change, 1997-2011 Increased, 2011-2021	No change

QNOWT: Percentage of students who were overweight (>= 85th percentile but <95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

						2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						14.3	17.2	17.2	14.8	14.3	13.8	14.9	15.0	15.5	15.0	No linear change	No quadratic change	No change

QNOBESE: Percentage of students who had obesity (>= 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

						2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						19.4	20.4	19.7	20.4	20.6	24.2	20.6	23.0	21.9	24.9	Increased, 2003-2021	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, $p < 0.05$.
[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN68: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						24.5	27.9	29.7	27.6	27.5	30.0	27.8	30.3	29.9	34.1	Increased, 2003-2021	No quadratic change	No change

QN69: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						20.9	21.8	21.2	20.2	23.1	16.5	18.0	20.2	20.0	21.1	No linear change	No quadratic change	No change

QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						12.1	13.4	12.7	11.4	12.4	10.1	9.3	11.3	11.6	11.6	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 46.9 | 53.1 | 47.6 | 51.8 | 51.3 | 55.3 | 52.7 | 51.6 | 48.2 | 49.7 | No linear change | Increased, 2003-2015 No change, 2015-2021 | No change |

QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 19.3 | 26.1 | 22.6 | 24.1 | 24.4 | 27.9 | 20.1 | 23.8 | 20.4 | 21.0 | Decreased, 2003-2021 | Increased, 2003-2013 Decreased, 2013-2021 | No change |

QN70: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)

| | | | | | | 47.1 | 49.9 | 50.8 | 50.3 | 50.4 | 52.0 | 55.9 | 54.9 | 54.3 | 60.2 | Increased, 2003-2021 | No quadratic change | Increased |

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

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN71: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						24.9	25.8	26.1	23.4	26.7	25.3	29.5	37.2	35.8	37.0	Increased, 2003-2021	No change, 2003-2009 Increased, 2009-2021	No change

QN72: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						59.3	59.0	59.8	58.7	56.6	56.1	60.7	61.6	62.1	64.4	Increased, 2003-2021	No change, 2003-2013 Increased, 2013-2021	No change

QN73: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						20.1	23.2	23.5	23.4	26.3	24.4	25.5	27.0	25.5	28.5	Increased, 2003-2021	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.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 7.5 | 10.0 | 8.6 | 7.9 | 8.7 | 7.6 | 10.4 | 12.0 | 12.0 | 12.7 | Increased, 2003-2021 | No quadratic change | No change |

QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 53.2 | 57.6 | 55.9 | 57.4 | 58.4 | 57.9 | 55.3 | 49.2 | 49.0 | 47.3 | Decreased, 2003-2021 | No change, 2003-2013 Decreased, 2013-2021 | No change |

QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 22.2 | 28.0 | 23.0 | 22.1 | 26.3 | 24.4 | 21.9 | 17.2 | 18.1 | 18.5 | Decreased, 2003-2021 | No change, 2003-2013 Decreased, 2013-2021 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						11.6	15.2	12.3	10.7	12.8	13.7	10.9	9.0	8.5	9.0	Decreased, 2003-2021	No change, 2003-2013 Decreased, 2013-2021	No change

QN74: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								15.7	16.3	17.5	20.4	22.7	21.7	23.8	23.5	Increased, 2007-2021	No quadratic change	No change

QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								44.1	39.7	37.1	36.2	33.0	31.9	27.3	29.1	Decreased, 2007-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

| | | | | | | | | 34.7 | 30.1 | 28.0 | 26.9 | 23.9 | 23.4 | 19.3 | 19.8 | Decreased, 2007-2021 | No quadratic change | No change |

QN75: Percentage of students who did not drink milk (during the 7 days before the survey)

| | | | | | | | | | | | 18.6 | 18.5 | 20.0 | 23.5 | 29.6 | Increased, 2013-2021 | Not available[§] | Increased |

QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

| | | | | | | | | | | | 39.8 | 37.9 | 34.7 | 30.0 | 23.4 | Decreased, 2013-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										14.1	13.2	9.7	10.0	6.1		Decreased, 2013-2021	Not available[§]	Decreased

QN76: Percentage of students who did not eat breakfast (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									16.1	17.6	12.6	13.0	14.8	16.3	18.4	No linear change	Decreased, 2009-2015 Increased, 2015-2021	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	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									35.0	31.2	42.9	37.3	34.1	29.7	25.9	Decreased, 2009-2021	Increased, 2009-2013 Decreased, 2013-2021	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.

Kentucky High School Survey
Trend Analysis Report

Male
Physical Activity

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN77: 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)

										2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										49.5	48.7	44.1	50.5	44.4	52.8	No linear change	No change, 2011-2015 No change, 2015-2021	Increased

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)

| | | | | | | | | | | 17.2 | 16.1 | 13.9 | 15.5 | 15.5 | 13.6 | No linear change | No quadratic change | 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)

| | | | | | | | | | | 30.4 | 29.5 | 27.3 | 31.0 | 24.8 | 35.1 | No linear change | No change, 2011-2015 No change, 2015-2021 | Increased |

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

Kentucky High School Survey
Trend Analysis Report

Male
Physical Activity

								Health Risk Behavior and Percentages								Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN79: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | 36.9 | | | 43.8 | 30.2 | 37.3 | 41.8 | 43.9 | 41.9 | 44.2 | 38.2 | 37.8 | 39.5 | 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)

| | | | 27.4 | | | 28.7 | 20.2 | 23.5 | 29.8 | 24.8 | 22.5 | 25.2 | 25.2 | 20.9 | 26.3 | No linear change | No quadratic change | No change |

QN80: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the 12 months before the survey)

| | | | | | | 55.5 | 55.2 | 51.7 | 51.9 | 47.9 | 54.3 | 53.3 | 50.5 | 49.7 | 48.1 | Decreased, 2003-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Other

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN84: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)

| | | | | | | | | 68.0 | 69.6 | 66.3 | 66.5 | 68.2 | 70.3 | 70.2 | 67.6 | No linear change | No quadratic change | No change |

QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)

| | | | | | | | | 2.8 | 2.3 | 3.3 | 2.3 | 2.1 | 2.4 | 1.7 | 2.3 | Decreased, 2007-2021 | No quadratic change | No change |

QN86: Percentage of students who got 8 or more hours of sleep (on an average school night)

| | | | | | | | | | | | | 26.8 | 23.3 | 20.7 | 20.5 | Decreased, 2015-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Site-Added

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN87: Percentage of students who usually did not sleep in their parent's or guardian's home (during the 30 days before the survey)

| | | | | | | | | | | | | | 6.3 | 6.1 | 6.0 | No linear change | Not available[§] | No change |

QNWATER1: Percentage of students who drank a bottle or glass of plain water one or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 57.2 | 62.3 | 64.1 | No linear change | Not available | No change |

QNWATER2: Percentage of students who drank a bottle or glass of plain water two or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 46.6 | 54.5 | 57.1 | Increased, 2017-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Site-Added

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNWATER3: Percentage of students who drank a bottle or glass of plain water three or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 36.0 | 40.7 | 44.9 | Increased, 2017-2021 | Not available[§] | No change |

QN92: Percentage of students who did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times during the 12 months before the survey)

| | | | | | | | | | | | | | 13.3 | 11.5 | 12.3 | 13.0 | No linear change | Not available | No change |

QN93: Percentage of students who currently used an electronic vapor product on school property (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | | 23.3 | 13.9 | Decreased, 2019-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Male
Site-Added

																Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021				

QN94: Percentage of students who did not drink a bottle or glass of plain water (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

													12.1	10.4	7.4	Decreased, 2017-2021	Not available[§]	No change

QN95: Percentage of students who brushed their teeth on all 7 days (during the 7 days before the survey)

							70.5	69.3	66.8	69.8	64.8	64.4	63.3	62.7	Decreased, 2007-2021	No quadratic change	No change

QN96: Percentage of students who missed one or more days of school because their mental health was not good (including stress, anxiety, and depression, during the 30 days before the survey)

														17.4	15.5	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.

Kentucky High School Survey
Trend Analysis Report

Male
Site-Added

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN97: Percentage of students who do not have an adult in their life that they trust and can talk to about serious problems

											16.7	11.1	11.9	13.6	15.6	No linear change	Not available[§]	No change

QN98: Percentage of students who reported there is at least one teacher or other adult in their school that they can talk to if they have a problem

														69.6	68.2	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.

Kentucky High School Survey
Trend Analysis Report

Female
Injury and Violence

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

| | | | | | | | | | | | 3.4 | 6.1 | 3.0 | 2.9 | 1.5 | Decreased, 2013-2021 | Not available[§] | No change |

QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

| | | | | | | | | | | | 31.6 | 37.1 | 30.2 | 28.6 | 36.8 | No linear change | Not available | No change |

QN13: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey)

| | | | | | | | | | | | | | 4.2 | 1.4 | 3.2 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Injury and Violence

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN14: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | | 10.9 | 9.3 | No linear change | Not available§ | No change |

QN15: Percentage of students who were threatened or injured with a weapon on school property (such as a gun, knife, or club, one or more times during the 12 months before the survey)

| | | | 3.8 | | | 2.3 | 4.7 | 6.6 | 5.2 | 5.1 | 3.8 | 6.7 | 4.7 | 5.8 | 5.8 | Increased, 1997-2021 | No quadratic change | No change |

QN17: Percentage of students who were in a physical fight on school property (one or more times during the 12 months before the survey)

| | | | 5.9 | | | 7.8 | 9.3 | 7.3 | 5.1 | 7.2 | 4.1 | 4.8 | 4.7 | 5.1 | 3.2 | Decreased, 1997-2021 | No change, 1997-2004 Decreased, 2004-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN21: Percentage of students who experienced sexual dating violence (being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to do, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										13.1	13.8	10.2	9.4	18.9	No linear change	Not available[§]	Increased

QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										11.8	12.1	9.7	8.7	10.1	No linear change	Not available	No change

QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								21.9	20.8	24.1	28.6	25.8	27.9	19.6	No linear change	Increased, 2009-2017 Decreased, 2017-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)

										21.9	16.4	25.0	25.1	22.7	22.9	No linear change	No quadratic change	No change

QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)

						36.7	35.0	35.9	32.1	32.1	31.7	42.5	40.9	46.7	51.6	Increased, 2003-2021	No change, 2003-2011 Increased, 2011-2021	No change

QN26: Percentage of students who seriously considered attempting suicide (during the 12 months before the survey)

			26.1			21.0	18.3	17.8	16.9	18.0	19.2	20.6	19.4	21.3	24.7	No linear change	Decreased, 1997-2009 Increased, 2009-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Female
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)

			21.4			14.8	13.4	13.8	14.2	14.5	14.3	18.1	15.9	17.2	18.7	No linear change	Decreased, 1997-2004 Increased, 2004-2021	No change

QN28: Percentage of students who actually attempted suicide (one or more times during the 12 months before the survey)

			9.1			10.3	11.2	9.2	9.1	10.8	9.2	12.9	9.3	9.3	12.3	No linear change	No quadratic change	No change

QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)

			2.2			3.6	3.1	3.2	3.2	4.1	3.2	5.3	3.4	2.6	4.3	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Female
Tobacco Use

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
				Health Risk Behavior and Percentages														
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)

| | | | 76.3 | | | 72.4 | 58.7 | 62.4 | 57.1 | 57.0 | 44.9 | 46.8 | 39.8 | 29.3 | 26.5 | Decreased, 1997-2021 | Decreased, 1997-2013 Decreased, 2013-2021 | No change |

QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs)

| | | | | | | | | | | | | | 14.2 | 9.0 | 11.8 | No linear change | Not available[§] | No change |

QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

| | | | 45.3 | | | 33.4 | 26.0 | 25.8 | 23.1 | 21.4 | 15.5 | 18.0 | 14.0 | 7.2 | 4.2 | Decreased, 1997-2021 | Decreased, 1997-2017 Decreased, 2017-2021 | No change |

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

| | | | 24.8 | | | 18.8 | 13.5 | 14.2 | 12.0 | 10.5 | 6.3 | 6.8 | 5.4 | 2.4 | 1.0 | Decreased, 1997-2021 | Decreased, 1997-2017 Decreased, 2017-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Tobacco Use

	Health Risk Behavior and Percentages															**Linear Change***	**Quadratic Change***	**Change from 2019-2021** [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																		
			19.6			15.2	9.9	10.8	8.9	8.1	4.6	5.5	3.9	1.9	0.8	Decreased, 1997-2021	Decreased, 1997-2017 Decreased, 2017-2021	No change
QN33: Percentage of students who smoked more than 10 cigarettes per day (on the days they smoked during the 30 days before the survey, among students who currently smoked cigarettes)																		
			22.0			16.0	14.5	13.0	8.5	15.8	9.4	5.2	5.8	4.6	10.5	Decreased, 1997-2021	No quadratic change	No change
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu])																		
												39.5	41.7	54.5	48.9	Increased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Tobacco Use

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu], on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 23.3 | 11.3 | 24.0 | 26.6 | Increased, 2015-2021 | Not available[§] | No change |

QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey)

| | | | | | | | | | | | | 2.0 | 1.2 | 7.5 | 9.1 | Increased, 2015-2021 | Not available | No change |

QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey)

| | | | | | | | | | | | | 1.1 | 0.8 | 5.2 | 7.6 | Increased, 2015-2021 | Not available | No change |

QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 27.3 | 17.0 | 24.7 | 26.6 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Tobacco Use

Health Risk Behavior and Percentages			Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey)

													3.1	2.0	1.7	No linear change	Not available[§]	No change

QNFRSKL: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on 20 or more days during the 30 days before the survey)

													0.9	0.1	0.6	No linear change	Not available	No change

QNDAYSKL: Percentage of students who currently used smokeless tobacco daily (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on all 30 days during the 30 days before the survey)

													0.4	0.1	0.5	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.

Kentucky High School Survey
Trend Analysis Report

Female
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

| | | | | | | 12.6 | 9.0 | 11.1 | 9.5 | 11.0 | 7.6 | 10.2 | 7.6 | 4.6 | 3.0 | Decreased, 2003-2021 | No change, 2003-2015 Decreased, 2015-2021 | No change |

QNTB4: Percentage of students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 18.6 | 25.1 | 27.0 | Increased, 2017-2021 | Not available[§] | No change |

QNFRCGR: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or little cigars, on 20 or more days during the 30 days before the survey)

| | | | | | | 0.7 | 0.9 | 1.1 | 0.4 | 1.3 | 1.7 | 0.8 | 0.8 | 0.8 | 0.9 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)

| | | | | | | 36.7 | 27.8 | 27.7 | 24.5 | 23.4 | 18.2 | 20.5 | 15.9 | 9.3 | 6.2 | Decreased, 2003-2021 | Decreased, 2003-2017 Decreased, 2017-2021 | No change |

QNDAYCGR: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little cigars, on all 30 days during the 30 days before the survey)

| | | | | | | 0.3 | 0.5 | 0.4 | 0.4 | 0.5 | 1.0 | 0.5 | 0.4 | 0.8 | 0.9 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																		
			22.6			21.3	24.7	21.3	18.9	16.1	16.8	13.5	15.3	13.0	13.3	Decreased, 1997-2021	No quadratic change	No change
QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																		
			44.5			44.2	36.8	40.1	35.2	33.3	28.0	31.2	28.6	23.1	19.8	Decreased, 1997-2021	No change, 1997-2007 Decreased, 2007-2021	No change
QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row if they were female or five or more drinks of alcohol in a row if they were male, within a couple of hours, on at least 1 day during the 30 days before the survey)																		
													13.8	8.6	8.9	Decreased, 2017-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Alcohol and Other Drug Use

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
						Health Risk Behavior and Percentages												
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN43: Percentage of students who reported that the largest number of drinks they had in a row was 10 or more (within a couple of hours, during the 30 days before the survey)

																Linear Change	Quadratic Change	Change from 2019-2021
														1.9	1.7	No linear change	Not available[§]	No change

QN45: Percentage of students who ever used marijuana (one or more times during their life)

																Linear Change	Quadratic Change	Change from 2019-2021
			44.0			41.1	32.6	33.9	28.5	34.8	30.6	32.6	32.9	31.6	24.6	Decreased, 1997-2021	No quadratic change	Decreased

QN46: Percentage of students who tried marijuana for the first time before age 13 years

																Linear Change	Quadratic Change	Change from 2019-2021
			6.8			8.2	6.4	6.9	6.9	6.6	6.0	6.3	5.8	6.1	6.4	No linear change	No quadratic change	No change

QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

																Linear Change	Quadratic Change	Change from 2019-2021
			23.3			19.5	13.4	15.4	12.5	17.4	15.3	16.9	16.7	14.8	12.8	Decreased, 1997-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN48: Percentage of students who ever used synthetic marijuana (one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change 2019-2021
												11.6	7.5	4.4	6.3	Decreased, 2015-2021	Not available[§]	No change

QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change 2019-2021
													11.9	10.9	13.6	No linear change	Not available	No change

QN51: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change 2019-2021
			22.5			14.6	13.0	13.4	13.2	10.3	7.2	8.6	5.0	5.4	7.6	Decreased, 1997-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Alcohol and Other Drug Use

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN52: Percentage of students who ever used heroin (also called "smack," "junk," or "China White," one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												3.1	1.6	0.8	1.4	No linear change	Not available[§]	No change

QN53: Percentage of students who ever used methamphetamines (also called "speed," "crystal meth," "crank," "ice," or "meth," one or more times during their life)

													1.3	1.2		No linear change	Not available	No change

QN55: Percentage of students who ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)

												2.0	1.4	1.2		No linear change	Not available	No change

QN56: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)

			28.2			28.9	17.9	25.1	23.1	22.1	15.9	21.0	21.3	22.6	17.5	Decreased, 1997-2021	No quadratic change	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.

Kentucky High School Survey
Trend Analysis Report

Female
Sexual Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN57: Percentage of students who ever had sexual intercourse

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			50.3			54.3	44.6	51.5	47.8	51.9	43.3	41.4	36.5	40.4	32.4	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	Decreased

QN58: Percentage of students who had sexual intercourse for the first time before age 13 years

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			3.4			3.7	4.1	5.8	4.0	5.5	3.2	4.1	1.8	2.1	3.1	Decreased, 1997-2021	Increased, 1997-2007 Decreased, 2007-2021	No change

QN59: Percentage of students who had sexual intercourse with four or more persons during their life

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			12.6			13.7	10.6	13.9	10.7	16.3	10.5	10.2	7.6	7.2	5.9	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	No change

QN60: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			38.3			42.4	34.5	39.6	36.1	40.9	32.3	29.6	28.9	30.7	23.8	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Female
Sexual Behaviors

						Health Risk Behavior and Percentages										Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN61: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change 2019-2021
			19.4			17.1	14.4	17.2	18.0	12.4	13.6	16.4	17.3	11.9	14.8	No linear change	No quadratic change	No change

QN62: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)

| | | | 49.7 | | | 56.9 | 61.4 | 52.6 | 54.5 | 46.4 | 45.1 | 43.8 | 44.3 | 45.6 | 42.3 | Decreased, 1997-2021 | Increased, 1997-2004 Decreased, 2004-2021 | No change |

QN82: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)

| | | | | | | | | | | | | 12.9 | 10.3 | 10.1 | 5.4 | Decreased, 2015-2021 | 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.

Kentucky High School Survey
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Female
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN66: Percentage of students who described themselves as slightly or very overweight

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			38.0			39.9	37.2	37.5	36.5	36.7	35.5	38.8	39.6	39.3	36.4	No linear change	No quadratic change	No change

QNOWT: Percentage of students who were overweight (>= 85th percentile but <95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						16.1	16.5	15.2	16.0	16.6	17.0	19.2	17.3	20.3	17.5	Increased, 2003-2021	No quadratic change	No change

QNOBESE: Percentage of students who had obesity (>= 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						9.3	10.2	10.8	14.1	12.1	11.3	16.2	17.2	14.6	13.9	Increased, 2003-2021	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, $p < 0.05$.
[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

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Female
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN68: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)

| | | | | | | 27.0 | 26.5 | 27.9 | 24.7 | 25.6 | 27.2 | 28.6 | 32.3 | 35.6 | 31.9 | Increased, 2003-2021 | No change, 2003-2011 Increased, 2011-2021 | No change |

QN69: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)

| | | | | | | 16.2 | 19.8 | 16.6 | 17.4 | 15.1 | 11.5 | 11.3 | 12.9 | 16.4 | 16.4 | Decreased, 2003-2021 | Decreased, 2003-2015 Increased, 2015-2021 | No change |

QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 7.8 | 9.2 | 8.5 | 8.0 | 7.0 | 5.8 | 5.8 | 6.2 | 9.0 | 7.8 | No linear change | Decreased, 2003-2015 Increased, 2015-2021 | 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, $p < 0.05$.

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Female
Weight Management and Dietary Behaviors

																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 44.6 | 46.8 | 46.3 | 49.9 | 49.1 | 55.7 | 52.7 | 45.1 | 46.7 | 44.9 | No linear change | Increased, 2003-2013 Decreased, 2013-2021 | No change |

QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 19.0 | 21.3 | 19.9 | 24.5 | 21.5 | 23.5 | 21.9 | 17.5 | 21.6 | 16.9 | Decreased, 2003-2021 | No change, 2003-2013 Decreased, 2013-2021 | Decreased |

QN70: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)

| | | | | | | 33.3 | 44.3 | 42.0 | 40.7 | 40.8 | 41.9 | 43.2 | 45.1 | 46.8 | 45.9 | Increased, 2003-2021 | 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, $p < 0.05$.

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Kentucky High School Survey
Trend Analysis Report

Female
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN71: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						26.3	22.6	22.5	22.7	24.8	27.8	28.2	33.7	39.5	38.5	Increased, 2003-2021	No change, 2003-2009 Increased, 2009-2021	No change

QN72: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						59.5	60.6	60.5	58.7	61.5	56.0	55.7	62.2	64.0	66.9	Increased, 2003-2021	Decreased, 2003-2015 Increased, 2015-2021	No change

QN73: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						15.8	15.1	17.7	19.8	19.4	17.6	18.0	20.5	22.9	22.5	Increased, 2003-2021	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, $p < 0.05$.

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Female
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

						2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
						5.3	4.8	4.8	4.6	5.2	4.8	6.5	8.5	9.9	9.1	Increased, 2003-2021	No change, 2003-2011 Increased, 2011-2021	No change

QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

						2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
						57.9	58.5	58.9	60.0	55.2	56.5	58.8	51.9	47.4	47.8	Decreased, 2003-2021	No change, 2003-2015 Decreased, 2015-2021	No change

QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

						2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
						21.9	24.3	20.9	22.6	24.5	20.7	24.0	18.9	18.9	14.3	Decreased, 2003-2021	No change, 2003-2015 Decreased, 2015-2021	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.

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Trend Analysis Report

Female
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 8.8 | 11.7 | 9.9 | 11.2 | 11.9 | 9.3 | 11.1 | 8.4 | 8.6 | 7.2 | Decreased, 2003-2021 | No change, 2003-2015 Decreased, 2015-2021 | No change |

QN74: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, one or more times during the 7 days before the survey)

| | | | | | | | 17.2 | 20.0 | 17.8 | 23.2 | 24.7 | 24.7 | 27.2 | 21.1 | | Increased, 2007-2021 | Increased, 2007-2017 No change, 2017-2021 | Decreased |

QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

| | | | | | | | 36.9 | 31.6 | 35.7 | 29.6 | 31.6 | 24.3 | 23.5 | 26.0 | | Decreased, 2007-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Female
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								28.2	23.3	24.7	22.0	22.5	17.5	15.5	17.0	Decreased, 2007-2021	No quadratic change	No change

QN75: Percentage of students who did not drink milk (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											25.5	26.5	32.0	37.0	45.2	Increased, 2013-2021	Not available§	Increased

QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											28.8	22.3	21.3	18.7	14.1	Decreased, 2013-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										6.4	3.9	4.5	4.3	3.3		Decreased, 2013-2021	Not available[§]	No change

QN76: Percentage of students who did not eat breakfast (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										13.5	13.4	11.9	12.4	16.1	16.4	Increased, 2009-2021	No change, 2009-2015 / Increased, 2015-2021	Increased

(QN76 values: 13.5, 13.4, 11.9, 12.4, 16.1, 16.4, 22.3 under years 2009–2021)

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

2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
28.8	28.6	37.2	32.2	26.1	23.4	20.2	Decreased, 2009-2021	Increased, 2009-2013 / Decreased, 2013-2021	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.

Kentucky High School Survey
Trend Analysis Report

Female
Physical Activity

Health Risk Behavior and Percentages							Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN77: 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)

| | | | | | | | | | | 29.0 | 30.8 | 29.9 | 30.8 | 30.3 | 36.5 | Increased, 2011-2021 | No quadratic change | Increased |

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)

| | | | | | | | | | | 23.9 | 23.6 | 18.8 | 22.9 | 22.5 | 18.0 | Decreased, 2011-2021 | No quadratic change | 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)

| | | | | | | | | | | 13.3 | 15.4 | 12.9 | 12.8 | 13.0 | 15.6 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Female
Physical Activity

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN79: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change 2019-2021
			25.5			25.8	20.1	24.4	23.7	26.5	26.7	31.1	23.7	24.5	31.1	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)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change 2019-2021
			16.9			19.0	14.3	16.6	16.1	15.3	16.1	19.3	13.1	14.7	20.7	No linear change	No quadratic change	No change

QN80: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change 2019-2021
						46.4	49.7	45.3	44.6	44.6	47.3	48.2	46.5	42.0	45.0	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Female
Other

																Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN84: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)

								71.6	68.4	69.8	72.5	71.5	76.8	73.4	72.8	Increased, 2007-2021	No quadratic change	No change

QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)

								2.6	1.8	2.7	2.2	2.1	1.8	2.1	1.3	No linear change	No quadratic change	No change

QN86: Percentage of students who got 8 or more hours of sleep (on an average school night)

												21.8	20.8	18.3	19.5	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.

Kentucky High School Survey
Trend Analysis Report

Female
Site-Added

	Health Risk Behavior and Percentages		**Linear Change**[*]	**Quadratic Change**[*]	**Change from 2019-2021** [†]
1991 1993 1995 1997 1999 2001 2003 2004 2007 2009 2011 2013 2015 2017 2019 2021					

QN87: Percentage of students who usually did not sleep in their parent's or guardian's home (during the 30 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
4.4	3.7	4.9	No linear change	Not available[§]	No change

QNWATER1: Percentage of students who drank a bottle or glass of plain water one or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
62.2	63.6	62.7	No linear change	Not available	No change

QNWATER2: Percentage of students who drank a bottle or glass of plain water two or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
53.0	54.7	52.8	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.

Kentucky High School Survey
Trend Analysis Report

Female
Site-Added

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNWATER3: Percentage of students who drank a bottle or glass of plain water three or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
38.8	41.0	37.4	No linear change	Not available[§]	No change

QN92: Percentage of students who did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times during the 12 months before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
28.0	22.5	22.6 → 30.0	No linear change	Not available	Increased

QN93: Percentage of students who currently used an electronic vapor product on school property (on at least 1 day during the 30 days before the survey)

2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
15.1	12.9	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.

Kentucky High School Survey
Trend Analysis Report

Female
Site-Added

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN94: Percentage of students who did not drink a bottle or glass of plain water (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													5.5	7.1	5.4	No linear change	Not available[§]	No change

QN95: Percentage of students who brushed their teeth on all 7 days (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								83.6	85.8	82.6	85.5	81.7	78.1	78.6	74.5	Decreased, 2007-2021	No change, 2007-2013 Decreased, 2013-2021	No change

QN96: Percentage of students who missed one or more days of school because their mental health was not good (including stress, anxiety, and depression, during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														33.3	35.1	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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Kentucky High School Survey
Trend Analysis Report

Female
Site-Added

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN97: Percentage of students who do not have an adult in their life that they trust and can talk to about serious problems

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											15.3	16.5	10.6	17.1	17.0	No linear change	Not available[§]	No change

QN98: Percentage of students who reported there is at least one teacher or other adult in their school that they can talk to if they have a problem

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														70.2	69.2	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.

Kentucky High School Survey
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2019-2021[§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021

QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

| | | | | | | | | | | | 5.7 | 4.8 | 3.8 | 4.0 | 1.8 | Decreased, 2013-2021 | Not available[¶] | No change |

QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

| | | | | | | | | | | | 36.0 | 37.3 | 34.8 | 31.3 | 36.2 | No linear change | Not available | No change |

QN13: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey)

| | | | | | | | | | | | | 5.4 | 4.2 | 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.

Kentucky High School Survey
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN14: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)

														8.7	7.0	No linear change	Not available[¶]	No change

QN15: Percentage of students who were threatened or injured with a weapon on school property (such as a gun, knife, or club, one or more times during the 12 months before the survey)

			6.5			4.6	7.7	7.4	7.3	5.6	5.1	5.1	6.3	6.3	5.0	No linear change	No quadratic change	No change

QN17: Percentage of students who were in a physical fight on school property (one or more times during the 12 months before the survey)

			12.1			9.6	11.7	9.5	8.8	10.6	5.5	6.6	6.3	4.5	4.7	Decreased, 1997-2021	No change, 1997-2011 Decreased, 2011-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages			Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021

QN21: Percentage of students who experienced sexual dating violence (being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to do, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											8.6	8.8	5.9	6.7	13.0	No linear change	Not available[¶]	Increased

QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											8.4	8.0	7.9	7.5	6.8	No linear change	Not available	No change

QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									21.3	19.0	21.7	23.4	21.6	25.0	16.3	No linear change	No change, 2009-2017 Decreased, 2017-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)

| | | | | | | | | | | 17.5 | 13.3 | 17.8 | 19.3 | 18.8 | 18.5 | Increased, 2011-2021 | No quadratic change | No change |

QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)

| | | | | | | 30.1 | 28.5 | 29.0 | 26.6 | 27.0 | 24.5 | 30.6 | 29.1 | 36.7 | 41.0 | Increased, 2003-2021 | Decreased, 2003-2013 Increased, 2013-2021 | No change |

QN26: Percentage of students who seriously considered attempting suicide (during the 12 months before the survey)

| | | | 22.3 | | | 17.9 | 15.7 | 14.7 | 14.1 | 14.2 | 14.6 | 14.9 | 14.4 | 18.1 | 19.7 | Decreased, 1997-2021 | Decreased, 1997-2009 Increased, 2009-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

White*
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021[§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			17.1			14.3	11.6	11.6	11.7	13.8	11.8	13.1	12.5	15.3	14.9	No linear change	Decreased, 1997-2007 Increased, 2007-2021	No change

QN28: Percentage of students who actually attempted suicide (one or more times during the 12 months before the survey)

| | | | 7.6 | | | 9.3 | 8.9 | 7.1 | 8.2 | 9.2 | 6.7 | 8.1 | 6.3 | 7.0 | 8.0 | No linear change | No quadratic change | No change |

QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)

| | | | 2.3 | | | 2.9 | 2.7 | 2.2 | 3.3 | 3.8 | 2.3 | 3.5 | 2.0 | 2.3 | 2.8 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

White*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)

| | | | 77.0 | | | 71.3 | 60.9 | 62.2 | 59.1 | 59.7 | 46.8 | 44.5 | 41.5 | 31.6 | 27.5 | Decreased, 1997-2021 | Decreased, 1997-2011 Decreased, 2011-2021 | No change |

QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs)

| | | | | | | | | | | | | | 15.0 | 11.4 | 12.3 | No linear change | Not available[¶] | No change |

QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

| | | | 47.7 | | | 34.2 | 27.4 | 27.0 | 27.1 | 25.1 | 18.9 | 17.0 | 15.1 | 9.7 | 5.3 | Decreased, 1997-2021 | Decreased, 1997-2017 Decreased, 2017-2021 | Decreased |

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

| | | | 28.6 | | | 19.7 | 15.0 | 14.3 | 12.8 | 11.9 | 7.8 | 5.5 | 5.5 | 3.2 | 1.3 | Decreased, 1997-2021 | Decreased, 1997-2011 Decreased, 2011-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

White*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

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

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			23.5			16.0	11.8	11.3	10.1	9.0	5.9	4.7	4.2	2.3	1.0	Decreased, 1997-2021	Decreased, 1997-2011 Decreased, 2011-2021	No change

QN33: Percentage of students who smoked more than 10 cigarettes per day (on the days they smoked during the 30 days before the survey, among students who currently smoked cigarettes)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			26.7			17.0	18.9	14.2	14.8	16.8	11.0	6.5	6.8	9.2	4.3	Decreased, 1997-2021	No quadratic change	No change

QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu])

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												40.6	45.0	55.7	45.7	Increased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Tobacco Use

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu], on at least 1 day during the 30 days before the survey)

												22.8	14.4	28.1	22.4	No linear change	Not available[¶]	Decreased

QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey)

												3.4	2.8	12.8	9.0	Increased, 2015-2021	Not available	Decreased

QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey)

												2.1	2.0	9.8	7.5	Increased, 2015-2021	Not available	No change

QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey)

												27.0	20.7	28.5	22.2	No linear change	Not available	Decreased

[*]Non-Hispanic.
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[§]Based on t-test analysis, $p < 0.05$.
[¶]Not enough years of data to calculate.

Kentucky High School Survey
Trend Analysis Report

White*
Tobacco Use

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 10.9 | 6.8 | 4.1 | Decreased, 2017-2021 | Not available[¶] | Decreased |

QNFRSKL: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on 20 or more days during the 30 days before the survey)

| | | | | | | | | | | | | | 5.2 | 2.5 | 1.5 | Decreased, 2017-2021 | Not available | No change |

QNDAYSKL: Percentage of students who currently used smokeless tobacco daily (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on all 30 days during the 30 days before the survey)

| | | | | | | | | | | | | | 3.9 | 2.2 | 1.1 | Decreased, 2017-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

White*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN38: 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	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						18.4	14.9	14.7	17.0	16.4	11.9	12.2	10.9	7.3	3.7	Decreased, 2003-2021	Decreased, 2003-2017 Decreased, 2017-2021	Decreased

QNTB4: Percentage of students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products (on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													24.6	29.1	23.1	No linear change	Not available[¶]	Decreased

QNFRCGR: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or little cigars, on 20 or more days during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						1.4	2.4	1.3	1.7	2.0	1.3	1.1	0.9	1.6	0.8	Decreased, 2003-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																		
						38.7	29.9	29.5	30.4	28.5	22.1	20.6	17.8	12.2	7.0	Decreased, 2003-2021	Decreased, 2003-2017 Decreased, 2017-2021	Decreased
QNDAYCGR: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little cigars, on all 30 days during the 30 days before the survey)																		
						0.7	1.5	0.8	1.4	1.2	0.7	0.6	0.5	1.4	0.7	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.

Kentucky High School Survey
Trend Analysis Report

White*
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)

| | | | 29.3 | | | 26.4 | 28.8 | 24.8 | 21.5 | 19.4 | 17.5 | 14.3 | 16.1 | 14.7 | 13.7 | Decreased, 1997-2021 | No quadratic change | No change |

QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)

| | | | 49.1 | | | 46.7 | 38.6 | 41.0 | 38.5 | 35.2 | 30.5 | 29.1 | 28.7 | 23.9 | 18.9 | Decreased, 1997-2021 | Decreased, 1997-2017 Decreased, 2017-2021 | Decreased |

QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row if they were female or five or more drinks of alcohol in a row if they were male, within a couple of hours, on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 14.4 | 11.4 | 8.7 | Decreased, 2017-2021 | 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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White*
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QN43: Percentage of students who reported that the largest number of drinks they had in a row was 10 or more (within a couple of hours, during the 30 days before the survey)																		
														3.9	2.3	Decreased, 2019-2021	Not available[¶]	Decreased
QN45: Percentage of students who ever used marijuana (one or more times during their life)																		
			46.2			43.6	33.7	33.9	30.4	35.8	31.7	31.8	29.9	29.5	20.9	Decreased, 1997-2021	No quadratic change	Decreased
QN46: Percentage of students who tried marijuana for the first time before age 13 years																		
			8.3			10.9	9.6	9.3	8.7	8.4	7.0	5.3	6.4	5.8	4.7	Decreased, 1997-2021	No change, 1997-2004 Decreased, 2004-2021	No change
QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																		
			26.8			21.4	15.4	15.3	15.2	17.8	16.0	16.1	14.6	14.5	10.2	Decreased, 1997-2021	No quadratic change	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.

Kentucky High School Survey
Trend Analysis Report

White*
Alcohol and Other Drug Use

							Health Risk Behavior and Percentages									Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN48: Percentage of students who ever used synthetic marijuana (one or more times during their life)

| | | | | | | | | | | | | 9.1 | 7.2 | 5.3 | 5.2 | Decreased, 2015-2021 | Not available[¶] | No change |

QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life)

| | | | | | | | | | | | | | 9.7 | 9.9 | 9.4 | No linear change | Not available | No change |

QN51: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)

| | | | 25.9 | | | 14.4 | 14.0 | 14.2 | 13.3 | 10.4 | 6.6 | 6.3 | 5.6 | 5.2 | 6.5 | Decreased, 1997-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

White*
Alcohol and Other Drug Use

								Health Risk Behavior and Percentages								Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QN52: Percentage of students who ever used heroin (also called "smack," "junk," or "China White," one or more times during their life)																		
												2.3	0.9	1.1	1.0	Decreased, 2015-2021	Not available[¶]	No change
QN53: Percentage of students who ever used methamphetamines (also called "speed," "crystal meth," "crank," "ice," or "meth," one or more times during their life)																		
														1.4	0.8	No linear change	Not available	No change
QN55: Percentage of students who ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)																		
													1.7	1.3	0.8	Decreased, 2017-2021	Not available	No change
QN56: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)																		
			34.2			31.0	19.7	26.9	25.1	23.4	18.7	20.1	21.0	23.5	18.2	Decreased, 1997-2021	Decreased, 1997-2013 No change, 2013-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Sexual Behaviors

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN57: Percentage of students who ever had sexual intercourse

| | | | 50.8 | | | 51.4 | 43.9 | 48.3 | 46.6 | 50.4 | 43.5 | 40.8 | 37.5 | 38.7 | 31.1 | Decreased, 1997-2021 | No change, 1997-2011 Decreased, 2011-2021 | Decreased |

QN58: Percentage of students who had sexual intercourse for the first time before age 13 years

| | | | 5.6 | | | 5.0 | 6.8 | 6.5 | 5.5 | 5.4 | 4.2 | 3.4 | 2.9 | 2.5 | 3.1 | Decreased, 1997-2021 | No change, 1997-2007 Decreased, 2007-2021 | No change |

QN59: Percentage of students who had sexual intercourse with four or more persons during their life

| | | | 15.5 | | | 13.6 | 12.0 | 12.4 | 11.8 | 14.7 | 11.4 | 8.9 | 9.0 | 8.0 | 6.1 | Decreased, 1997-2021 | No change, 1997-2011 Decreased, 2011-2021 | No change |

QN60: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)

| | | | 37.0 | | | 38.4 | 32.2 | 35.2 | 32.5 | 37.0 | 32.0 | 30.1 | 28.3 | 28.6 | 22.4 | Decreased, 1997-2021 | Decreased, 1997-2017 Decreased, 2017-2021 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

White*
Sexual Behaviors

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QN61: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)																		
			27.4			21.9	19.9	19.5	22.4	15.2	16.8	14.4	17.5	14.5	13.1	Decreased, 1997-2021	No quadratic change	No change
QN62: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)																		
			53.9			61.1	64.4	59.2	58.7	50.9	53.6	55.0	47.0	52.8	48.3	Decreased, 1997-2021	Increased, 1997-2004 Decreased, 2004-2021	No change
QN82: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)																		
												10.1	10.0	10.2	7.2	Decreased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

						Health Risk Behavior and Percentages										Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QN66: Percentage of students who described themselves as slightly or very overweight																		
			32.2			34.9	34.4	32.0	30.7	30.6	32.8	33.3	34.3	36.5	34.4	No linear change	No quadratic change	No change
QNOWT: Percentage of students who were overweight (>= 85th percentile but <95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[¶]																		
						15.0	16.4	15.4	15.2	15.2	15.7	16.2	15.6	18.7	16.0	No linear change	No quadratic change	No change
QNOBESE: Percentage of students who had obesity (>= 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[¶]																		
						14.2	15.4	15.1	17.2	16.1	17.7	18.1	19.9	18.3	18.9	Increased, 2003-2021	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, $p < 0.05$.
[¶]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN68: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						25.7	28.1	29.3	27.6	26.8	29.5	28.3	31.5	34.3	34.8	Increased, 2003-2021	No change, 2003-2015 Increased, 2015-2021	No change

QN69: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						17.7	20.7	18.6	18.3	18.3	13.5	14.2	16.4	18.4	18.8	No linear change	Decreased, 2003-2015 Increased, 2015-2021	No change

QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						9.7	11.4	10.3	9.9	9.3	6.9	7.3	8.2	10.6	10.4	No linear change	Decreased, 2003-2015 Increased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 46.3 | 49.1 | 46.2 | 49.7 | 49.0 | 54.2 | 52.1 | 48.1 | 46.4 | 45.5 | No linear change | Increased, 2003-2013 Decreased, 2013-2021 | No change |

QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 19.4 | 22.4 | 20.4 | 23.2 | 22.2 | 24.5 | 20.3 | 19.5 | 19.0 | 16.2 | Decreased, 2003-2021 | Increased, 2003-2013 Decreased, 2013-2021 | No change |

QN70: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)

| | | | | | | 38.6 | 46.7 | 46.1 | 45.4 | 44.8 | 46.7 | 48.8 | 50.3 | 50.7 | 52.9 | Increased, 2003-2021 | 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, $p < 0.05$.

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Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages												Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991 1993 1995 1997 1999 2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021				

QN71: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)

| | 24.7 | 22.8 | 22.5 | 20.8 | 24.6 | 25.7 | 27.7 | 33.3 | 36.7 | 35.4 | Increased, 2003-2021 | No change, 2003-2009 Increased, 2009-2021 | No change |

QN72: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

| | 59.3 | 58.7 | 59.7 | 57.4 | 58.2 | 54.6 | 56.5 | 61.8 | 62.5 | 64.9 | Increased, 2003-2021 | No change, 2003-2013 Increased, 2013-2021 | No change |

QN73: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

| | 17.4 | 19.2 | 20.1 | 20.7 | 21.8 | 21.0 | 20.3 | 22.6 | 24.3 | 24.7 | Increased, 2003-2021 | 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, $p < 0.05$.

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Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						5.9	6.9	6.2	6.0	6.1	5.7	7.3	9.3	11.0	9.9	Increased, 2003-2021	No change, 2003-2011 Increased, 2011-2021	No change

QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						56.1	58.5	58.4	59.7	56.6	57.4	59.0	50.8	48.1	47.5	Decreased, 2003-2021	No change, 2003-2015 Decreased, 2015-2021	No change

QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						21.9	26.2	21.5	22.5	24.9	22.2	23.7	17.9	18.0	14.4	Decreased, 2003-2021	No change, 2003-2015 Decreased, 2015-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

| | | | | | | 10.4 | 13.0 | 10.5 | 10.4 | 11.7 | 10.9 | 10.8 | 8.7 | 7.9 | 6.7 | Decreased, 2003-2021 | No change, 2003-2015 Decreased, 2015-2021 | No change |

QN74: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, one or more times during the 7 days before the survey)

| | | | | | | 16.0 | 17.8 | 16.8 | 21.5 | 23.2 | 22.4 | 24.3 | 20.9 | Increased, 2007-2021 | Increased, 2007-2015 No change, 2015-2021 | No change |

QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

| | | | | | | 42.2 | 37.5 | 38.2 | 35.0 | 33.6 | 30.0 | 27.8 | 29.4 | Decreased, 2007-2021 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

								32.7	28.0	27.8	26.1	24.1	21.9	18.6	19.8	Decreased, 2007-2021	No quadratic change	No change

QN75: Percentage of students who did not drink milk (during the 7 days before the survey)

											20.5	19.7	24.9	30.1	37.1	Increased, 2013-2021	Not available[¶]	Increased

QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

											36.5	32.8	29.9	25.3	18.7	Decreased, 2013-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

| | | | | | | | | | | 10.9 | 9.4 | 7.3 | 7.1 | 4.8 | Decreased, 2013-2021 | Not available[¶] | Decreased |

QN76: Percentage of students who did not eat breakfast (during the 7 days before the survey)

| | | | | | | | | 14.6 | 14.6 | 11.2 | 12.0 | 14.0 | 16.0 | 20.0 | Increased, 2009-2021 | Decreased, 2009-2015 Increased, 2015-2021 | Increased |

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

| | | | | | | | | 33.0 | 30.5 | 42.1 | 36.1 | 31.5 | 27.8 | 24.1 | Decreased, 2009-2021 | Increased, 2009-2013 Decreased, 2013-2021 | No change |

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*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.

Kentucky High School Survey
Trend Analysis Report

White*
Physical Activity

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN77: 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)

| | | | | | | | | | | 40.1 | 41.6 | 37.9 | 42.6 | 38.1 | 45.9 | No linear change | No quadratic change | Increased |

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)

| | | | | | | | | | | 19.4 | 18.4 | 15.3 | 17.2 | 18.2 | 15.4 | No linear change | No quadratic change | 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)

| | | | | | | | | | | 22.5 | 23.6 | 20.0 | 23.4 | 19.2 | 25.2 | No linear change | No quadratic change | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

White*
Physical Activity

							Health Risk Behavior and Percentages									**Linear Change**[†]	**Quadratic Change**[†]	**Change from 2019-2021** [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN79: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | 29.9 | | | 34.9 | 25.0 | 29.2 | 32.8 | 33.9 | 33.6 | 36.1 | 30.0 | 28.9 | 33.2 | 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)

| | | | 22.0 | | | 24.5 | 17.9 | 20.3 | 24.2 | 20.3 | 19.3 | 22.1 | 19.6 | 17.5 | 23.9 | No linear change | No quadratic change | No change |

QN80: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the 12 months before the survey)

| | | | | | | 50.7 | 52.5 | 47.1 | 47.7 | 46.1 | 50.1 | 49.9 | 48.0 | 45.8 | 46.1 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

White*
Other

															Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN84: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)

2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
71.7	71.2	69.4	70.3	73.1	75.8	75.0	73.8	Increased, 2007-2021	No quadratic change	No change

QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)

2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
2.2	1.7	2.5	1.7	1.4	1.9	1.3	0.8	Decreased, 2007-2021	No quadratic change	No change

QN86: Percentage of students who got 8 or more hours of sleep (on an average school night)

2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
25.7	22.6	20.2	20.4	Decreased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Site-Added

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
					Health Risk Behavior and Percentages													
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN87: Percentage of students who usually did not sleep in their parent's or guardian's home (during the 30 days before the survey)

| | | | | | | | | | | | | | 3.6 | 4.1 | 3.7 | No linear change | Not available[¶] | No change |

QNWATER1: Percentage of students who drank a bottle or glass of plain water one or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 61.6 | 63.5 | 63.8 | No linear change | Not available | No change |

QNWATER2: Percentage of students who drank a bottle or glass of plain water two or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 50.8 | 54.5 | 54.5 | 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.

Kentucky High School Survey
Trend Analysis Report

White*
Site-Added

																Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2019-2021[§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021				

QNWATER3: Percentage of students who drank a bottle or glass of plain water three or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

													37.5	40.8	38.8	No linear change	Not available[¶]	No change

QN92: Percentage of students who did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times during the 12 months before the survey)

													19.8	16.9	17.5	21.5	No linear change	Not available	No change

QN93: Percentage of students who currently used an electronic vapor product on school property (on at least 1 day during the 30 days before the survey)

														20.9	12.5	Decreased, 2019-2021	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.

Kentucky High School Survey
Trend Analysis Report

White*
Site-Added

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN94: Percentage of students who did not drink a bottle or glass of plain water (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

																Linear Change	Quadratic Change	Change from 2019-2021
												7.7	8.4	6.3	No linear change	Not available[¶]	No change

QN95: Percentage of students who brushed their teeth on all 7 days (during the 7 days before the survey)

																Linear Change	Quadratic Change	Change from 2019-2021
							77.9	77.9	75.7	78.6	75.1	72.8	71.7	68.9		Decreased, 2007-2021	No change, 2007-2013 Decreased, 2013-2021	No change

QN96: Percentage of students who missed one or more days of school because their mental health was not good (including stress, anxiety, and depression, during the 30 days before the survey)

																Linear Change	Quadratic Change	Change from 2019-2021
														26.1	25.2	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.

Kentucky High School Survey
Trend Analysis Report

White*
Site-Added

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN97: Percentage of students who do not have an adult in their life that they trust and can talk to about serious problems

| | | | | | | | | | | | 14.6 | 13.3 | 11.5 | 15.3 | 14.2 | No linear change | Not available[¶] | No change |

QN98: Percentage of students who reported there is at least one teacher or other adult in their school that they can talk to if they have a problem

| | | | | | | | | | | | | | | 71.4 | 71.1 | 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.

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Kentucky High School Survey
Trend Analysis Report

Black*
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											4.6	8.2	3.9	4.6	6.5	No linear change	Not available[¶]	No change

QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												38.3	26.6	31.8	31.6	18.7	No linear change	Not available	No change

QN13: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													11.7	7.1	8.0	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN14: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														9.7	16.9	No linear change	Not available[¶]	No change

QN15: Percentage of students who were threatened or injured with a weapon on school property (such as a gun, knife, or club, one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			5.3			9.1	8.8	9.7	8.9	8.9	3.4	18.7	9.7	10.3	10.7	No linear change	No quadratic change	No change

QN17: Percentage of students who were in a physical fight on school property (one or more times during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			11.6			15.1	18.5	14.8	9.9	13.9	6.3	15.9	10.6	9.5	10.5	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Injury and Violence

Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN21: Percentage of students who experienced sexual dating violence (being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to do, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										15.8	14.8	4.0	7.7	13.9		No linear change	Not available[¶]	No change

QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										18.4	12.2	7.7	7.7	15.0		No linear change	Not available	No change

QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									14.8	14.5	19.1	12.7	16.8	17.8	8.0	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Injury and Violence

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)

| | | | | | | | | | | 14.0 | 10.7 | 10.3 | 11.3 | 15.4 | 11.1 | No linear change | No quadratic change | No change |

QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)

| | | | | | | 26.6 | 21.8 | 30.9 | 23.0 | 26.1 | 30.6 | 37.5 | 28.1 | 36.6 | 30.3 | Increased, 2003-2021 | No quadratic change | No change |

QN26: Percentage of students who seriously considered attempting suicide (during the 12 months before the survey)

| | | | 18.2 | | | 11.9 | 9.9 | 14.7 | 14.7 | 17.8 | 14.9 | 17.3 | 9.7 | 21.0 | 15.1 | No linear change | No quadratic change | No change |

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[*]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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Black*
Injury and Violence

							Health Risk Behavior and Percentages									Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)																		
			12.1			14.7	10.2	10.6	13.6	12.9	14.2	17.5	13.4	19.3	12.8	No linear change	No quadratic change	No change
QN28: Percentage of students who actually attempted suicide (one or more times during the 12 months before the survey)																		
			1.8			18.1	9.6	9.7	8.8	19.9	8.9	17.5	14.5	15.4	10.6	Increased, 1997-2021	Increased, 1997-2004 No change, 2004-2021	No change
QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)																		
			0.0			8.4	1.4	2.3	3.2	8.1	5.7	6.5	7.0	8.6	4.0	Not available	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)

			79.4			67.7	47.4	61.5	55.7	53.9	45.9	35.5	27.8	20.9	21.0	Decreased, 1997-2021	No quadratic change	No change

QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs)

													15.3	11.7	19.4	No linear change	Not available[¶]	No change

QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

			33.4			14.9	14.9	14.4	17.2	14.4	11.9	10.6	6.3	4.9	1.8	Decreased, 1997-2021	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)

			13.3			2.4	8.1	5.2	4.6	5.7	4.6	4.2	0.3	2.3	1.8	Decreased, 1997-2021	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Tobacco Use

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
						Health Risk Behavior and Percentages												
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

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

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			9.2			0.7	4.7	3.3	2.6	4.7	3.3	1.9	0.3	2.3	1.8	Decreased, 1997-2021	No quadratic change	No change

QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu])

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												42.3	41.7	40.2	40.3	No linear change	Not available[¶]	No change

QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu], on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												24.7	7.3	13.0	20.2	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Tobacco Use

	Health Risk Behavior and Percentages				Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021

QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey)

2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
0.0	0.3	3.0	7.2	Not available	Not available[¶]	No change

QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey)

2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
0.0	0.3	3.0	5.5	Not available	Not available	No change

QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey)

2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
21.0	9.0	12.4	19.5	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
6.4	2.3	3.3	No linear change	Not available[¶]	No change

QNFRSKL: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on 20 or more days during the 30 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
0.3	1.7	1.8	No linear change	Not available	No change

QNDAYSKL: Percentage of students who currently used smokeless tobacco daily (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on all 30 days during the 30 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
0.3	1.7	1.8	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Tobacco Use

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021[§]
					Health Risk Behavior and Percentages													
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

| | | | | | | 22.5 | 18.2 | 17.3 | 16.7 | 20.0 | 18.8 | 17.7 | 7.8 | 8.7 | 6.2 | Decreased, 2003-2021 | No change, 2003-2015 Decreased, 2015-2021 | No change |

QNTB4: Percentage of students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 12.7 | 13.4 | 19.5 | No linear change | Not available[¶] | No change |

QNFRCGR: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or little cigars, on 20 or more days during the 30 days before the survey)

| | | | | | | 2.1 | 2.9 | 7.7 | 1.0 | 4.7 | 5.4 | 4.5 | 0.7 | 2.2 | 2.6 | 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.

Kentucky High School Survey
Trend Analysis Report

Black*
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																		
						25.7	23.6	19.3	20.6	21.3	21.6	16.0	11.0	8.3	5.6	Decreased, 2003-2021	No change, 2003-2013 Decreased, 2013-2021	No change
QNDAYCGR: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little cigars, on all 30 days during the 30 days before the survey)																		
						1.5	2.3	5.6	0.5	2.9	4.0	3.7	0.7	2.2	2.6	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Black*
Alcohol and Other Drug Use

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)

			38.9			29.3	28.1	21.1	19.6	20.9	26.6	17.4	16.6	14.6	13.2	Decreased, 1997-2021	No quadratic change	No change

QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)

			44.6			29.3	27.1	35.2	31.2	23.7	27.7	18.6	9.9	18.4	12.7	Decreased, 1997-2021	No quadratic change	No change

QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row if they were female or five or more drinks of alcohol in a row if they were male, within a couple of hours, on at least 1 day during the 30 days before the survey)

													5.3	4.8	6.4	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021[§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN43: Percentage of students who reported that the largest number of drinks they had in a row was 10 or more (within a couple of hours, during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														2.2	1.9	No linear change	Not available[¶]	No change

QN45: Percentage of students who ever used marijuana (one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			63.4			43.5	40.0	42.1	37.7	43.4	46.0	40.4	44.6	40.8	30.9	Decreased, 1997-2021	No quadratic change	No change

QN46: Percentage of students who tried marijuana for the first time before age 13 years

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			18.7			17.3	13.3	13.7	12.3	14.3	16.5	9.3	11.2	11.3	12.0	No linear change	No quadratic change	No change

QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			42.7			18.0	18.9	23.9	21.3	22.9	27.5	22.1	20.7	22.2	20.8	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Alcohol and Other Drug Use

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN48: Percentage of students who ever used synthetic marijuana (one or more times during their life)

																Linear Change	Quadratic Change	Change from 2019-2021
												13.1	6.9	7.0	10.9	No linear change	Not available[¶]	No change

QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life)

																Linear Change	Quadratic Change	Change from 2019-2021
													12.5	12.8	13.0	No linear change	Not available	No change

QN51: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)

																Linear Change	Quadratic Change	Change from 2019-2021
			10.0			11.7	6.2	10.2	9.6	12.6	7.5	9.1	8.9	5.9	6.7	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Alcohol and Other Drug Use

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
					Health Risk Behavior and Percentages													
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN52: Percentage of students who ever used heroin (also called "smack," "junk," or "China White," one or more times during their life)

| | | | | | | | | | | | | 9.8 | 3.7 | 2.6 | 4.4 | No linear change | Not available[¶] | No change |

QN53: Percentage of students who ever used methamphetamines (also called "speed," "crystal meth," "crank," "ice," or "meth," one or more times during their life)

| | | | | | | | | | | | | | 4.6 | 4.3 | No linear change | Not available | No change |

QN55: Percentage of students who ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)

| | | | | | | | | | | | | | 3.3 | 4.6 | 4.1 | No linear change | Not available | No change |

QN56: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)

| | | 26.6 | | | | 23.7 | 18.5 | 22.6 | 27.5 | 27.7 | 27.6 | 24.0 | 29.4 | 24.2 | 14.3 | 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.

Kentucky High School Survey
Trend Analysis Report

Black*
Sexual Behaviors

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN57: Percentage of students who ever had sexual intercourse

| | | | 81.3 | | | 60.0 | 67.8 | 65.1 | 59.1 | 62.4 | 51.1 | 42.7 | 41.2 | 41.1 | 23.3 | Decreased, 1997-2021 | No quadratic change | Decreased |

QN58: Percentage of students who had sexual intercourse for the first time before age 13 years

| | | | 23.8 | | | 12.0 | 17.5 | 17.6 | 12.8 | 14.6 | 11.1 | 9.5 | 6.0 | 6.2 | 5.7 | Decreased, 1997-2021 | No quadratic change | No change |

QN59: Percentage of students who had sexual intercourse with four or more persons during their life

| | | | 39.5 | | | 29.1 | 27.6 | 30.7 | 18.7 | 28.0 | 18.9 | 16.0 | 10.9 | 12.2 | 7.3 | Decreased, 1997-2021 | No quadratic change | No change |

QN60: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)

| | | | 61.0 | | | 45.0 | 45.1 | 46.0 | 40.5 | 46.7 | 28.2 | 28.5 | 31.8 | 27.1 | 17.0 | Decreased, 1997-2021 | No quadratic change | No change |

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*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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Black*
Sexual Behaviors

	Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN82: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												15.4	16.5	14.5	5.3	Decreased, 2015-2021	Not available[¶]	Decreased

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[*]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.

Kentucky High School Survey
Trend Analysis Report

Black*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN66: Percentage of students who described themselves as slightly or very overweight

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			35.3			21.8	23.5	25.1	26.1	24.8	31.6	21.0	33.1	25.2	28.3	No linear change	No quadratic change	No change

QNOWT: Percentage of students who were overweight (>= 85th percentile but <95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[¶]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						18.0	20.7	23.1	16.6	14.8	13.3	22.9	20.3	13.6	18.1	No linear change	No quadratic change	No change

QNOBESE: Percentage of students who had obesity (>= 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[¶]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						17.0	15.5	17.0	21.9	19.5	19.1	17.7	26.2	22.5	20.1	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, $p < 0.05$.
[¶]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

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Black*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages		Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN68: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						25.9	20.0	24.7	14.1	26.5	25.9	24.1	31.2	24.7	23.9	No linear change	No quadratic change	No change

QN69: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)

| | | | | | | 27.2 | 22.8 | 22.6 | 19.7 | 25.8 | 18.6 | 17.8 | 20.9 | 23.0 | 24.4 | No linear change | No quadratic change | No change |

QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | 12.7 | 11.9 | 12.8 | 7.9 | 11.9 | 15.1 | 9.2 | 14.0 | 10.8 | 7.8 | No linear change | No quadratic change | No change |

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*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, $p < 0.05$.

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Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021

QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

						40.8	56.9	51.2	59.7	52.9	56.8	61.4	50.1	48.7	56.1	No linear change	No quadratic change	No change

QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

						19.1	34.5	29.6	30.3	27.7	29.7	25.5	24.5	23.9	29.5	No linear change	No quadratic change	No change

QN70: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)

						58.5	51.8	52.8	45.8	53.8	49.2	54.8	48.7	52.1	58.2	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, $p < 0.05$.

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Black*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN71: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						32.5	35.3	37.0	39.1	33.4	32.7	35.5	50.0	44.9	56.9	Increased, 2003-2021	No change, 2003-2013 Increased, 2013-2021	No change

QN72: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						60.6	71.2	66.9	68.6	68.2	65.5	69.9	68.1	69.2	75.6	No linear change	No quadratic change	No change

QN73: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						22.2	20.5	25.4	27.2	28.6	22.8	34.8	36.0	26.9	32.4	Increased, 2003-2021	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, $p < 0.05$.

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Black*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages	Linear Change[†]	Quadratic Change[†]	Change from 2019-2021[§]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

						10.7	12.0	10.9	7.7	11.4	10.0	17.6	18.0	11.6	16.9	Increased, 2003-2021	No quadratic change	No change

QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

						51.9	52.3	46.3	51.6	54.6	55.3	45.5	45.7	41.4	41.0	Decreased, 2003-2021	No quadratic change	No change

QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

						25.7	24.7	23.5	19.8	25.6	24.0	15.4	16.7	18.4	17.3	Decreased, 2003-2021	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, $p < 0.05$.

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Black*
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
						10.5	15.8	14.5	12.6	13.9	16.7	10.0	7.8	9.7	10.0	No linear change	No quadratic change	No change

QN74: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								18.2	19.5	24.2	20.9	22.4	25.6	29.4	23.8	Increased, 2007-2021	No quadratic change	No change

QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								29.1	24.9	24.3	25.3	28.6	21.4	19.6	22.9	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.

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Black*
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
								23.8	18.4	16.1	20.2	20.5	15.1	15.9	12.7	Decreased, 2007-2021	No quadratic change	No change

QN75: Percentage of students who did not drink milk (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											34.9	41.0	34.5	32.2	45.4	No linear change	Not available[¶]	Increased

QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											17.2	13.7	12.7	22.2	14.5	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

| | | | | | | | | | 5.0 | 3.1 | 5.8 | 8.6 | 4.6 | No linear change | Not available[¶] | No change |

QN76: Percentage of students who did not eat breakfast (during the 7 days before the survey)

| | | | | | | | | 15.5 | 21.5 | 20.3 | 15.7 | 25.7 | 21.9 | 19.8 | No linear change | No quadratic change | No change |

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

| | | | | | | | | 23.5 | 25.7 | 27.9 | 28.5 | 22.1 | 18.2 | 18.4 | 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.

Kentucky High School Survey
Trend Analysis Report

Black*
Physical Activity

Health Risk Behavior and Percentages																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN77: 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)

| | | | | | | | | | | 37.1 | 31.2 | 30.2 | 33.7 | 35.1 | 40.0 | No linear change | No quadratic change | 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)

| | | | | | | | | | | 26.1 | 31.3 | 22.1 | 28.0 | 23.6 | 19.4 | No linear change | No quadratic change | 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)

| | | | | | | | | | | 18.0 | 15.3 | 18.8 | 16.3 | 20.4 | 23.6 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Black*
Physical Activity

	Health Risk Behavior and Percentages													Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN79: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
			41.6			36.3	26.5	41.0	31.5	42.8	36.9	46.7	33.4	42.4	44.1	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 | | | 16.7 | 13.0 | 17.7 | 16.5 | 18.8 | 19.3 | 21.7 | 16.5 | 19.9 | 21.7 | No linear change | No quadratic change | No change |

QN80: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the 12 months before the survey)

| | | | | | | 55.3 | 56.4 | 57.7 | 53.2 | 47.8 | 52.2 | 53.3 | 49.8 | 46.5 | 58.7 | No linear change | No quadratic change | No change |

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*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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Black*
Other

	Health Risk Behavior and Percentages															Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN84: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							57.4	57.2	64.1	66.1	48.3	61.4	56.8	55.6		No linear change	No quadratic change	No change

QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							5.6	3.1	5.7	4.8	5.9	3.5	4.8	6.7		No linear change	No quadratic change	No change

QN86: Percentage of students who got 8 or more hours of sleep (on an average school night)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												16.2	18.7	14.1	19.4	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Site-Added

																Health Risk Behavior and Percentages		Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**				

QN87: Percentage of students who usually did not sleep in their parent's or guardian's home (during the 30 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
12.2	8.4	14.7	No linear change	Not available[¶]	No change

QNWATER1: Percentage of students who drank a bottle or glass of plain water one or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
52.4	54.7	61.0	No linear change	Not available	No change

QNWATER2: Percentage of students who drank a bottle or glass of plain water two or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
45.5	49.5	56.9	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Site-Added

						Health Risk Behavior and Percentages										Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNWATER3: Percentage of students who drank a bottle or glass of plain water three or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

													2017	2019	2021			
													39.5	36.0	53.5	Increased, 2017-2021	Not available[¶]	Increased

QN92: Percentage of students who did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times during the 12 months before the survey)

												2015	2017	2019	2021			
												23.4	13.4	17.5	18.9	No linear change	Not available	No change

QN93: Percentage of students who currently used an electronic vapor product on school property (on at least 1 day during the 30 days before the survey)

														2019	2021			
														13.4	18.2	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Site-Added

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
				Health Risk Behavior and Percentages														
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN94: Percentage of students who did not drink a bottle or glass of plain water (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

													15.1	11.8	8.7	No linear change	Not available[¶]	No change

QN95: Percentage of students who brushed their teeth on all 7 days (during the 7 days before the survey)

						70.9	79.0	72.0	70.6	61.5	64.7	66.3	66.2	Decreased, 2007-2021	No quadratic change	No change

QN96: Percentage of students who missed one or more days of school because their mental health was not good (including stress, anxiety, and depression, during the 30 days before the survey)

														23.2	28.5	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.

Kentucky High School Survey
Trend Analysis Report

Black*
Site-Added

																Linear Change[†]	Quadratic Change[†]	Change from 2019-2021 [§]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

Health Risk Behavior and Percentages

QN97: Percentage of students who do not have an adult in their life that they trust and can talk to about serious problems

																Linear Change	Quadratic Change	Change from 2019-2021
											25.0	15.4	10.0	16.3	23.4	No linear change	Not available[¶]	No change

QN98: Percentage of students who reported there is at least one teacher or other adult in their school that they can talk to if they have a problem

																Linear Change	Quadratic Change	Change from 2019-2021
														62.3	68.2	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Injury and Violence

	Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											14.3	16.8	4.0	7.3	3.6	No linear change	Not available[§]	No change

QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
											40.5	49.1	26.6	36.8	31.9	No linear change	Not available	No change

QN13: Percentage of students who carried a gun (not counting the days when they carried a gun only for hunting or for a sport such as target shooting, on at least 1 day during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													10.9	8.3	8.9	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Injury and Violence

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN14: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | | 15.1 | 10.8 | No linear change | Not available[§] | No change |

QN15: Percentage of students who were threatened or injured with a weapon on school property (such as a gun, knife, or club, one or more times during the 12 months before the survey)

| | | | | | | | 15.1 | 21.6 | 13.7 | 27.3 | 10.4 | 9.5 | 9.2 | 10.9 | 10.7 | Decreased, 2004-2021 | No quadratic change | No change |

QN17: Percentage of students who were in a physical fight on school property (one or more times during the 12 months before the survey)

| | | | | | | | 27.3 | 24.8 | 19.3 | 21.2 | 11.9 | 9.4 | 11.8 | 6.7 | 12.3 | Decreased, 2004-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Injury and Violence

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN21: Percentage of students who experienced sexual dating violence (being forced by someone they were dating or going out with to do sexual things [counting such things as kissing, touching, or being physically forced to have sexual intercourse] that they did not want to do, one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

| | | | | | | | | | 18.0 | 17.4 | 12.5 | 4.3 | 12.0 | No linear change | Not available[§] | No change |

QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)

| | | | | | | | | | 23.5 | 12.8 | 12.7 | 6.0 | 10.5 | No linear change | Not available | No change |

QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)

| | | | | | | | | 29.6 | 33.8 | 26.2 | 20.4 | 17.2 | 22.5 | 17.9 | Decreased, 2009-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Injury and Violence

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)

| | | | | | | | | | | 28.0 | 20.8 | 17.1 | 14.3 | 16.6 | 17.3 | No linear change | No quadratic change | No change |

QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)

| | | | | | | | 42.8 | 39.8 | 37.9 | 35.5 | 31.5 | 31.4 | 30.0 | 38.6 | 37.9 | No linear change | No change, 2004-2015 No change, 2015-2021 | No change |

QN26: Percentage of students who seriously considered attempting suicide (during the 12 months before the survey)

| | | | | | | | 25.7 | 25.7 | 27.2 | 20.5 | 17.2 | 21.3 | 22.0 | 12.3 | 16.7 | Decreased, 2004-2021 | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Injury and Violence

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
						Health Risk Behavior and Percentages												
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)

							2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
							16.8	24.8	20.7	17.2	20.2	15.9	17.5	13.6	14.0	No linear change	No quadratic change	No change

QN28: Percentage of students who actually attempted suicide (one or more times during the 12 months before the survey)

							2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
							25.4	16.4	18.4	16.9	15.7	8.0	16.3	11.1	14.7	No linear change	No quadratic change	No change

QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)

							2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
							10.8	11.3	7.5	14.8	5.3	2.6	4.7	5.2	4.2	Decreased, 2004-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Tobacco Use

							Health Risk Behavior and Percentages									Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)

2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
64.0	65.3	60.4	61.6	53.2	48.6	45.7	28.1	20.2	Decreased, 2004-2021	Decreased, 2004-2017 Decreased, 2017-2021	No change

QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs)

2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
15.5	9.0	12.5	No linear change	Not available[§]	No change

QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)

2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
31.8	32.1	28.2	37.6	16.7	25.6	12.4	6.9	4.4	Decreased, 2004-2021	No change, 2004-2011 Decreased, 2011-2021	No change

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

2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
26.3	15.5	13.1	25.1	6.8	12.5	1.6	2.3	0.2	Decreased, 2004-2021	No change, 2004-2011 Decreased, 2011-2021	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

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

| | | | | | | | 24.8 | 11.8 | 6.2 | 21.4 | 6.8 | 9.2 | 1.2 | 1.3 | 0.2 | Decreased, 2004-2021 | No change, 2004-2011 Decreased, 2011-2021 | No change |

QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu])

| | | | | | | | | | | | | 49.4 | 43.5 | 51.7 | 42.7 | No linear change | Not available[§] | No change |

QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods [such as JUUL, SMOK, Suorin, Vuse, and blu], on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 25.6 | 16.0 | 23.8 | 19.0 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Tobacco Use

	Health Risk Behavior and Percentages					Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNFREVP: Percentage of students who currently used electronic vapor products frequently (on 20 or more days during the 30 days before the survey)

												5.9	4.9	4.0	7.9	No linear change	Not available[§]	No change

QNDAYEVP: Percentage of students who currently used electronic vapor products daily (on all 30 days during the 30 days before the survey)

												5.9	4.0	4.0	7.6	No linear change	Not available	No change

QNTB5: Percentage of students who currently smoked cigarettes or used electronic vapor products (on at least 1 day during the 30 days before the survey)

												34.0	17.1	22.5	19.1	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey)

													4.9	7.0	2.9	No linear change	Not available[§]	No change

QNFRSKL: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on 20 or more days during the 30 days before the survey)

													1.2	1.3	0.3	No linear change	Not available	No change

QNDAYSKL: Percentage of students who currently used smokeless tobacco daily (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on all 30 days during the 30 days before the survey)

													1.2	1.3	0.3	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Tobacco Use

	Health Risk Behavior and Percentages															Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)

| | | | | | | | 25.8 | 22.8 | 24.4 | 33.0 | 19.1 | 19.7 | 8.7 | 8.3 | 5.6 | Decreased, 2004-2021 | No change, 2004-2011 Decreased, 2011-2021 | No change |

QNTB4: Percentage of students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | 19.4 | 23.8 | 21.2 | No linear change | Not available§ | No change |

QNFRCGR: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or little cigars, on 20 or more days during the 30 days before the survey)

| | | | | | | | 12.9 | 4.8 | 4.6 | 10.5 | 5.8 | 4.5 | 1.4 | 0.6 | 0.3 | Decreased, 2004-2021 | No change, 2004-2013 Decreased, 2013-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Tobacco Use

															Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							34.8	34.9	31.0	41.1	20.6	26.0	13.8	7.9	7.4	Decreased, 2004-2021	No change, 2004-2011 Decreased, 2011-2021	No change

QNDAYCGR: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little cigars, on all 30 days during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							12.0	3.3	3.7	8.9	5.8	4.5	0.2	0.6	0.3	Decreased, 2004-2021	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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Alcohol and Other Drug Use

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)

| | | | | | | | 40.8 | 35.9 | 23.1 | 36.9 | 25.8 | 25.5 | 20.6 | 20.1 | 19.6 | Decreased, 2004-2021 | No quadratic change | No change |

QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)

| | | | | | | | 43.4 | 46.3 | 31.7 | 50.6 | 29.0 | 33.4 | 26.1 | 24.2 | 12.7 | Decreased, 2004-2021 | No quadratic change | Decreased |

QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row if they were female or five or more drinks of alcohol in a row if they were male, within a couple of hours, on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | 10.2 | 8.7 | 6.7 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Alcohol and Other Drug Use

Health Risk Behavior and Percentages															Linear Change*	Quadratic Change*	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QN43: Percentage of students who reported that the largest number of drinks they had in a row was 10 or more (within a couple of hours, during the 30 days before the survey)

														2.7	1.3	No linear change	Not available§	No change

QN45: Percentage of students who ever used marijuana (one or more times during their life)

							46.6	42.8	27.3	57.4	39.0	41.5	36.9	41.0	30.4	No linear change	No quadratic change	No change

QN46: Percentage of students who tried marijuana for the first time before age 13 years

							19.1	16.8	4.1	28.7	17.8	9.4	8.5	10.7	9.9	Decreased, 2004-2021	No quadratic change	No change

QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)

							29.9	23.9	20.6	41.9	22.9	19.6	16.6	20.2	15.3	Decreased, 2004-2021	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN48: Percentage of students who ever used synthetic marijuana (one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												18.1	10.7	13.7	12.5	No linear change	Not available[§]	No change

QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													12.5	13.8	14.2	No linear change	Not available	No change

QN51: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							25.1	19.1	18.0	26.7	13.2	16.0	8.2	5.6	9.1	Decreased, 2004-2021	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Alcohol and Other Drug Use

	Health Risk Behavior and Percentages			Linear Change*	Quadratic Change*	Change from 2019-2021 †

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021

QN52: Percentage of students who ever used heroin (also called "smack," "junk," or "China White," one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
												8.7	3.6	3.7	5.9	No linear change	Not available§	No change

QN53: Percentage of students who ever used methamphetamines (also called "speed," "crystal meth," "crank," "ice," or "meth," one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
														4.3	5.3	No linear change	Not available	No change

QN55: Percentage of students who ever injected any illegal drug (used a needle to inject any illegal drug into their body, one or more times during their life)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													3.7	5.7	4.3	No linear change	Not available	No change

QN56: Percentage of students who were offered, sold, or given an illegal drug on school property (during the 12 months before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							29.2	41.7	33.5	34.5	33.2	23.7	28.5	29.6	20.4	Decreased, 2004-2021	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Sexual Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN57: Percentage of students who ever had sexual intercourse

| | | | | | | | 53.1 | 57.5 | 53.9 | 63.2 | 51.3 | 43.0 | 39.4 | 47.8 | 30.0 | Decreased, 2004-2021 | No quadratic change | Decreased |

QN58: Percentage of students who had sexual intercourse for the first time before age 13 years

| | | | | | | | 17.9 | 15.6 | 6.2 | 20.5 | 12.3 | 14.3 | 7.0 | 7.0 | 7.8 | Decreased, 2004-2021 | No quadratic change | No change |

QN59: Percentage of students who had sexual intercourse with four or more persons during their life

| | | | | | | | 22.1 | 25.8 | 19.1 | 32.8 | 19.1 | 19.0 | 9.8 | 9.8 | 10.7 | Decreased, 2004-2021 | No quadratic change | No change |

QN60: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)

| | | | | | | | 33.7 | 41.8 | 41.8 | 52.5 | 33.6 | 30.9 | 25.6 | 37.0 | 19.9 | Decreased, 2004-2021 | No quadratic change | 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, $p < 0.05$.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Sexual Behaviors

																Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021				

QN82: Percentage of students who were ever tested for human immunodeficiency virus (HIV) (not counting tests done if they donated blood)

													2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													22.4	13.5	11.1	5.4	Decreased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages										Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN66: Percentage of students who described themselves as slightly or very overweight

| | | | | | | | 45.3 | 29.1 | 30.6 | 40.3 | 28.4 | 27.2 | 35.7 | 31.5 | 30.2 | No linear change | No quadratic change | No change |

QNOWT: Percentage of students who were overweight (>= 85th percentile but <95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

| | | | | | | | 19.1 | 13.8 | 12.4 | 29.1 | 17.0 | 11.8 | 19.9 | 17.2 | 14.9 | No linear change | No quadratic change | No change |

QNOBESE: Percentage of students who had obesity (>= 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts)[§]

| | | | | | | | 19.1 | 15.5 | 18.7 | 23.3 | 18.8 | 19.0 | 17.3 | 14.3 | 21.4 | 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, $p < 0.05$.
[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN68: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							23.7	22.4	33.7	21.7	18.9	30.2	33.1	32.3	26.2	No linear change	No quadratic change	No change

QN69: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							14.7	19.8	27.1	21.6	9.8	15.8	14.5	13.2	9.6	Decreased, 2004-2021	No quadratic change	No change

QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							6.8	14.3	14.0	11.5	7.1	12.3	11.7	9.0	3.0	Decreased, 2004-2021	No change, 2004-2017 Decreased, 2017-2021	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.

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Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021

QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | | 67.7 | 58.4 | 40.1 | 60.1 | 73.2 | 47.9 | 47.1 | 52.3 | 51.0 | Decreased, 2004-2021 | No quadratic change | No change |

QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)

| | | | | | | | 32.6 | 26.8 | 21.5 | 35.5 | 43.7 | 26.5 | 32.0 | 30.4 | 26.9 | No linear change | No quadratic change | No change |

QN70: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)

| | | | | | | | 34.8 | 39.7 | 53.9 | 46.7 | 42.6 | 44.7 | 52.2 | 49.7 | 50.8 | 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, $p < 0.05$.

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Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
					Health Risk Behavior and Percentages													
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN71: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)

							2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change
							18.9	29.3	32.3	21.1	27.8	37.1	43.4	40.0	37.8	Increased, 2004-2021	No quadratic change	No change

QN72: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

							2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change
							53.6	60.9	61.7	49.1	59.2	60.8	53.7	60.4	64.3	No linear change	No quadratic change	No change

QN73: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

							2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change
							18.3	21.1	30.6	25.3	24.1	29.0	30.8	23.9	25.1	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, $p < 0.05$.

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Hispanic
Weight Management and Dietary Behaviors

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							7.0	7.9	10.7	12.9	8.9	10.9	15.9	12.2	13.1	No linear change	No quadratic change	No change

QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							68.5	60.0	54.1	62.5	54.4	50.9	49.4	52.8	51.7	Decreased, 2004-2021	No quadratic change	No change

QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							41.4	34.3	28.6	27.7	20.4	24.7	23.1	23.7	23.6	No linear change	Decreased, 2004-2013 No change, 2013-2021	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.

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Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

	Health Risk Behavior and Percentages															Linear Change*	Quadratic Change*	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding french fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							21.7	23.6	16.6	16.2	10.0	14.9	14.3	13.3	11.2	Decreased, 2004-2021	No quadratic change	No change

QN74: Percentage of students who did not drink a can, bottle, or glass of soda or pop (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, one or more times during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							23.2	24.6	15.6	29.7	27.2	30.0	31.2	25.3		No linear change	No quadratic change	No change

QNSODA1: Percentage of students who drank a can, bottle, or glass of soda or pop one or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
							37.7	30.2	33.8	19.6	24.1	21.1	17.6	22.4		Decreased, 2007-2021	Decreased, 2007-2017 No change, 2017-2021	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.

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Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021		

QNSODA2: Percentage of students who drank a can, bottle, or glass of soda or pop two or more times per day (such as Coke, Pepsi, or Sprite, not counting diet soda or diet pop, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear	Quadratic	Change
					26.8	23.5	29.3	14.2	16.8	15.3	13.7	15.5				Decreased, 2007-2021	No quadratic change	No change

QN75: Percentage of students who did not drink milk (during the 7 days before the survey)

| | | | | | | | | | | | 20.6 | 20.1 | 23.9 | 28.4 | 36.2 | Increased, 2013-2021 | Not available[§] | No change |

QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

| | | | | | | | | | | | 29.1 | 26.4 | 27.6 | 23.9 | 20.3 | Decreased, 2013-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
										12.0	9.2	7.8	7.4	3.2		Decreased, 2013-2021	Not available[§]	No change

QN76: Percentage of students who did not eat breakfast (during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									23.4	21.2	15.5	14.6	18.0	17.9	24.4	No linear change	No quadratic change	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	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
									25.6	28.8	35.4	33.5	31.1	29.4	17.7	Decreased, 2009-2021	No change, 2009-2015 Decreased, 2015-2021	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Physical Activity

	Health Risk Behavior and Percentages															Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN77: 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)

| | | | | | | | | | | 33.3 | 33.8 | 38.7 | 31.3 | 34.3 | 35.8 | No linear change | No quadratic change | 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)

| | | | | | | | | | | 26.9 | 22.1 | 17.1 | 24.1 | 20.5 | 16.1 | No linear change | No quadratic change | 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)

| | | | | | | | | | | 20.6 | 19.7 | 27.7 | 15.8 | 16.5 | 23.4 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Physical Activity

	Health Risk Behavior and Percentages														Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**		

QN79: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

| | | | | | | | 38.1 | 41.1 | 31.2 | 48.7 | 39.4 | 37.6 | 40.6 | 35.4 | 40.5 | 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)

| | | | | | | | 17.6 | 15.1 | 17.0 | 20.2 | 16.0 | 23.1 | 19.1 | 18.1 | 21.6 | No linear change | No quadratic change | No change |

QN80: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the 12 months before the survey)

| | | | | | | | 48.9 | 53.8 | 44.9 | 47.8 | 56.6 | 56.7 | 41.2 | 42.3 | 37.4 | Decreased, 2004-2021 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Other

																Linear Change*	Quadratic Change*	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN84: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)

| | | | | | | | | 61.7 | 64.6 | 63.5 | 63.5 | 65.8 | 65.8 | 63.2 | 59.7 | No linear change | No quadratic change | No change |

QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)

| | | | | | | | | 6.0 | 3.9 | 6.0 | 4.5 | 6.4 | 3.8 | 4.3 | 4.0 | No linear change | No quadratic change | No change |

QN86: Percentage of students who got 8 or more hours of sleep (on an average school night)

| | | | | | | | | | | | | 21.3 | 17.6 | 22.3 | 16.3 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Site-Added

Health Risk Behavior and Percentages																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021			

QN87: Percentage of students who usually did not sleep in their parent's or guardian's home (during the 30 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													11.2	7.7	9.8	No linear change	Not available[§]	No change

QNWATER1: Percentage of students who drank a bottle or glass of plain water one or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													55.7	66.0	59.0	No linear change	Not available	No change

QNWATER2: Percentage of students who drank a bottle or glass of plain water two or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021	Linear Change	Quadratic Change	Change from 2019-2021
													51.8	58.6	52.8	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Site-Added

																Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021[†]
1991	1993	1995	1997	1999	2001	2003	2004	2007	2009	2011	2013	2015	2017	2019	2021				

QNWATER3: Percentage of students who drank a bottle or glass of plain water three or more times per day (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

| | | | | | | | | | | | | | 40.5 | 46.0 | 45.3 | No linear change | Not available[§] | No change |

QN92: Percentage of students who did something to purposely hurt themselves without wanting to die (such as cutting or burning themselves on purpose one or more times during the 12 months before the survey)

| | | | | | | | | | | | | | 26.4 | 22.6 | 17.9 | 25.4 | No linear change | Not available | No change |

QN93: Percentage of students who currently used an electronic vapor product on school property (on at least 1 day during the 30 days before the survey)

| | | | | | | | | | | | | | | 17.7 | 15.1 | 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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Site-Added

															Health Risk Behavior and Percentages	Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN94: Percentage of students who did not drink a bottle or glass of plain water (counting tap, bottled, and unflavored sparkling water, during the 7 days before the survey)

													16.6	9.6	4.6	Decreased, 2017-2021	Not available[§]	No change

QN95: Percentage of students who brushed their teeth on all 7 days (during the 7 days before the survey)

								69.7	63.7	60.2	72.5	62.9	68.2	69.5	67.3	No linear change	No quadratic change	No change

QN96: Percentage of students who missed one or more days of school because their mental health was not good (including stress, anxiety, and depression, during the 30 days before the survey)

														24.2	29.2	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.

Kentucky High School Survey
Trend Analysis Report

Hispanic
Site-Added

																Linear Change[*]	Quadratic Change[*]	Change from 2019-2021 [†]
Health Risk Behavior and Percentages																		
1991	**1993**	**1995**	**1997**	**1999**	**2001**	**2003**	**2004**	**2007**	**2009**	**2011**	**2013**	**2015**	**2017**	**2019**	**2021**			

QN97: Percentage of students who do not have an adult in their life that they trust and can talk to about serious problems

| | | | | | | | | | | | 14.2 | 16.7 | 13.0 | 19.5 | 24.3 | Increased, 2013-2021 | Not available[§] | No change |

QN98: Percentage of students who reported there is at least one teacher or other adult in their school that they can talk to if they have a problem

| | | | | | | | | | | | | | | 64.2 | 53.6 | 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.