# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Injury	and V	iolence			Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN6:	Percent	age of s	students	who ra	rely or	never w	ore a bi	cycle he	elmet (a	mong s	tudents	who ha	d ridde	n a bicy	cle)			
									85.7	86.0	81.6	80.4	71.3	80.4	75.4	Decreased, 2009-2021	No quadratic change	No change
					rely or reboard)		ore a he	lmet w	hen roll	erbladiı	ng or sk	ateboard	ding (ar	nong sti	udents			
					,				86.3	89.1	83.2	85.7	75.1	82.6	77.0	Decreased, 2009-2021	No quadratic change	Decreased
QN8:	Percent	age of s	students	who di	id not al	ways w	ear a se	at belt (	when ri	ding in	a car dr	iven by	someo	ne else)				
									48.4	48.4	42.3	42.6	30.8	35.9	37.3	Decreased, 2009-2021	Decreased, 2009-2017 Increased, 2017-2021	No change

# Kentucky Middle School Survey

Trend Analysis Report

Total Injury	and V	iolence	:															
					Heal	lth Risk	Behavi	ior and	Percen	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN9:	Percen	tage of	students	s who e	ver rode	e with a	driver w	vho had	been d	rinking	alcohol	(in a ca	ur)					
									25.6	22.5	19.8	17.8	13.9	16.7	16.6	Decreased, 2009-2021	Decreased, 2009-2017 Increased, 2017-2021	No change
QN10:	Perce	ntage of	f studen	ts who	were ev	ver in a j	physical	fight				•			·			
									55.2	50.3	46.9	46.7	37.2	44.4	40.9	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	No change
QN12:	Perce	ntage of	f studen	ts who	were ev	ver bulli	ed on sc	hool pr	operty	-			-					
									41.8	43.1	48.9	47.0	43.7	44.6	34.0	Decreased, 2009-2021	Increased, 2009-2015 Decreased, 2015-2021	Decreased
			f studen , or othe				ronically	y bullie	d (coun	ting bei	ng bulli	ed throu	igh text	ing,				
										21.6	24.8	24.3	23.3	25.2	27.0	Increased, 2011-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total	
Injury and Violence	

					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN14:	Perce	ntage of	f studen	ts who	ever ser	iously t	hought a	about ki	lling th	emselve	es							
									17.4	19.1	15.0	18.4	18.2	22.4	23.7	Increased, 2009-2021	No change, 2009-2013 Increased, 2013-2021	No change
QN15:	Perce	ntage of	f studen	ts who	ever ma	de a pla	in about	how the	ey woul	d kill tł	nemselv	ves						
									11.0	11.5	9.7	13.4	10.5	13.6	18.2	Increased, 2009-2021	No change, 2009-2017 Increased, 2017-2021	Increased
QN16:	Perce	ntage of	f studen	ts who	ever trie	ed to kil	l themse	elves										
									6.5	7.1	6.7	6.9	5.8	8.8	9.8	Increased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

Trend Analysis Report

Fobac	co Use																	
					Heal	th Risk	Behavi	or and	Percer	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN17:	Percer	ntage of	f studen	ts who	ever trie	ed cigare	ette smo	king (ev	ven one	e or two	puffs)		-					
									34.1	29.3	23.7	22.5	12.1	16.5	12.8	Decreased, 2009-2021	No quadratic change	Decreased
	Percer	ntage of	f studen	ts who	tried cig	garette s	moking	for the	first tin	ne befor	re age 1	1 years	(even o	ne or tw	0			
puffs)																		
,																	·· · · · · ·	
													4.8	7.9	6.8	No linear change	Not available <sup>§</sup>	No change
QN19:		ntage of	f studen	ts who	currentl	y smoke	ed cigar	ettes (on	n at leas	st 1 day	during	the 30 d			6.8	No linear change	Not available <sup>§</sup>	No change
		ntage of	f studen	ts who	currentl	y smoke	ed cigare	ettes (on		-	during	the 30 d		ore the	6.8	No linear change		No change
QN19:		ntage of	fstuden	ts who	currentl	y smoke	ed cigare	ettes (on	n at leas 9.8	st 1 day 9.0	during 6.4	the 30 d			6.8	No linear change Decreased, 2009-2021	Not available <sup>§</sup>	No change
QN19: survey QNFR	) CIG: P		ge of st			-		ettes (on	9.8	9.0	6.4	6.6	lays bef 2.7	ore the 4.3	1.7	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 Middle School Survey

**Trend Analysis Report** 

Total Tobacco	o Use																	
					Heal	th Risk	Behav	ior an	d Percei	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991 1	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDAY the surve		Percer	ntage of	student	ts who c	currently	y smoke	ed ciga	rettes da	ily (on a	all 30 da	ays duri	ng the 3	30 days	before			
									1.8	1.6	1.4	0.7	0.5	0.6	0.1	Decreased, 2009-2021	No quadratic change	Decreased
QN21: I	Percer	itage of	f studen	ts who e	ever use	ed an ele	ectronic	vapor	product	•								
												21.8	15.1	31.4	24.1	Increased, 2015-2021	Not available <sup>§</sup>	Decreased
QN22: I pens, e-c during th	cigars,	e-hool	cahs, ho	okah pe	ens, and													
C		•										12.1	3.9	17.3	11.3	Increased, 2015-2021	Not available	Decreased
QNFRE during th						rrently	used ele	ectronic	e vapor p	oroducts	frequei	ntly (on	20 or n	nore day	Ś			
												1.4	0.3	2.0	2.9	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.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Tobac	co Use																	
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change*	<b>Change from</b> 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	AYEVP: efore th			studen	ts who o	currently	y used e	lectroni	c vapoi	r produo	cts daily	(on all	30 days	s during	the 30			
												0.9	0.1	1.2	2.0	Increased, 2015-2021	Not available <sup>§</sup>	No change
	5: Perc the 30					tly smo	ked ciga	arettes o	or used	electror	nic vapo	r produ	cts (on	at least	1 day			
												13.5	5.0	17.1	10.2	No linear change	Not available	Decreased
dissolv	vable to	bacco p	roducts	[such a	s Coper		Grizzly	, Skoal,			bacco, s s], not c				vapor			
													2.6	3.9	2.7	No linear change	Not available	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Tobac	co Use																
		Health Risk Behavior and Percentages										Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>			
1991	1993	1995	1997	1999	2001	2003	2005 2	2007 2009	2011	2013	2015	2017	2019	2021	-		
snus, o	or dissol	lvable to	obacco j	products	s [such	as Cope	nhagen, C	eless tobaco Grizzly, Sko lays before t	al, or Ĉa	mel Snu				dip,			
												0.4	0.7	0.7	No linear change	Not available <sup>§</sup>	No change
or diss	olvable	tobacco	o produ	cts [suc]	h as Co	penhage		okeless toba y, Skoal, or urvey)									
												0.4	0.7	0.6	No linear change	Not available	No change
	: Percer days be				currentl	y smoke	ed cigars (	cigars, ciga	rillos, or	little ci	gars, on	at least	t 1 day c	luring			
								6.9	5.9	4.5	5.3	2.1	3.9	1.8	Decreased, 2009-2021	No quadratic change	Decreased

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Tobac	co Use				Healt	h Risk	Behavi	or and ]	Percent	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
								rettes o he surv		or used	l smoke	eless tob	acco or	electro	nic			
													6.4	17.9	11.6	Increased, 2017-2021	Not available <sup>§</sup>	Decreased
				ents who e the sur		tly smol	ked ciga	urettes o	r cigars	or used	l smoke	eless tob	acco (o	n at leas	st 1			
													4.9	7.6	4.5	No linear change	Not available	Decreased
				tudents ays befo			moked	cigars fi	requent	ly (ciga	rs, ciga	rillos, o	r little c	igars, o	n 20			
							moked	cigars fi	equent	ly (ciga 0.5	rs, ciga 0.7	rillos, o 0.5	r little c	igars, o 0.6	n 20 0.2	No linear change	No quadratic change	No change
or mor	e days o	luring t	he 30 da	ays befo	ts who	urvey)		cigars fi	0.7	0.5	0.7	0.5	0.3	0.6	0.2	No linear change	No quadratic change	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Alcoho	ol and (	Other I	Orug Us	se														
					Heal	th Risk	Behavio	or and P	ercen	ntages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007 2	2009	2011	2013	2015	2017	2019	2021	-		
QN25:	Percer	ntage of	studen	ts who	ever dra	nk alcol	hol (othe	er than a f	ew s	ips)								
									32.1	31.9	26.4	25.2	17.1	22.9	19.3	Decreased, 2009-2021	No quadratic change	No change
QN26:	Percer	ntage of	studen	ts who	drank al	cohol fo	or the fir	st time be	efore	age 11	years (c	other tha	ın a few	sips)				
									14.3	13.0	12.2	10.5	7.1	11.6	10.3	Decreased, 2009-2021	No quadratic change	No change
QN27:	Percer	ntage of	studen	ts who	ever use	ed mariju	uana					-			-			
									9.8	9.2	9.5	9.0	7.3	9.5	5.9	Decreased, 2009-2021	No quadratic change	Decreased
QN28:	Percer	ntage of	studen	ts who	tried ma	rijuana	for the f	irst time	befor	e age 11	l years			•		· · · · · · · · · · · · · · · · · · ·		
									3.4	2.8	2.9	2.8	2.2	2.6	1.9	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Alcoh	ol and (	Other I	)rug Us	e														
					Healt	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	ow a do					k prescr ng drug									rently			
													4.3	9.1	8.5	Increased, 2017-2021	Not available <sup>§</sup>	No change
QN30	: Percei	ntage of	student	ts who e	ever use	d cocair	ne (any	form of	f cocain	e, inclu	ding po	wder, ci	rack, or	freebas	e)			
									3.6	3.8	2.8	2.7	2.2	1.9	1.7	Decreased, 2009-2021	No quadratic change	No change
	: Percentints or s	-			ever use	d inhala	ints (sni	ffed glu	ie, brea	thed the	conten	ts of spi	ray cans	, or inh	aled			
										10.7	8.3	7.1	5.9	7.3	6.4	Decreased, 2011-2021	Decreased, 2011-2017 No change, 2017-2021	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total
Sexual Behaviors

					Healt	h Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN32:	Percer	ntage of	student	ts who e	ver had	sexual	interco	urse										
									17.2	13.8	10.2	9.7	5.5	8.3	5.8	Decreased, 2009-2021	No quadratic change	No change
QN33:	Percer	ntage of	studen	ts who h	ad sexu	al inter	course	for the f	first tim	e before	e age 11	years		-				
									4.9	3.3	2.5	2.9	1.6	2.3	2.4	Decreased, 2009-2021	Decreased, 2009-2013 No change, 2013-2021	No change
QN34:	Percer	ntage of	student	ts who e	ver had	sexual	interco	urse wit	th three	or more	e person	IS	-	-	:			
									5.6	4.4	3.5	3.1	1.4	1.7	0.7	Decreased, 2009-2021	No quadratic change	No change
	Percer		student	ts who u	ised a co	ondom	during l	ast sexu	ual inter	course	(among	student	s who e	ver had				
									70.1	65.5	69.4	53.0	53.1	56.4	47.9	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

002				Heal	th Risk	Behavio	or and F	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
ercen	tage of	studen	ts who	describe	ed them	selves as	slightly	or ver	ry overv	weight		-					
								28.1	28.1	28.0	30.3	27.0	31.5	31.8	Increased, 2009-2021	No quadratic change	No change
ercen	tage of	studen	ts who	were try	ying to 1	ose weig	ht			-	-				·		
								47.4	50.0	49.7	47.8	46.7	49.4	46.9	No linear change	No quadratic change	No change
ercen	tage of	studen	ts who	did not	eat brea	kfast (du	ring the	7 day	s before	e the sur	rvey)		:				
								13.4	11.4	10.7	10.5	9.7	12.5	16.4	No linear change	Decreased, 2009-2017 Increased, 2017-2021	Increased
DAY:	Percer	ntage of	f studen	nts who	ate brea	kfast on	all 7 day	ys (dur	ing the	7 days	before t	he surve	ey)				
								39.2	40.1	43.9	46.0	46.6	40.9	35.4	No linear change	Increased, 2009-2017 Decreased, 2017-2021	Decreased
'e	ercen	rcentage of	ercentage of studen	ercentage of students who	ercentage of students who were try	ercentage of students who were trying to l	ercentage of students who were trying to lose weig	ercentage of students who were trying to lose weight	28.1 28.1 28.1 47.4 47.4 Arcentage of students who did not eat breakfast (during the 7 day 13.4 AY: Percentage of students who ate breakfast on all 7 days (during the 17) 47.4	28.1 28.1 precentage of students who were trying to lose weight 47.4 50.0 precentage of students who did not eat breakfast (during the 7 days before 13.4 11.4 AY: Percentage of students who ate breakfast on all 7 days (during the	ercentage of students who were trying to lose weight 47.4 50.0 49.7 ercentage of students who did not eat breakfast (during the 7 days before the sur 13.4 11.4 10.7 AY: Percentage of students who ate breakfast on all 7 days (during the 7 days	28.1 28.1 28.0 30.3 Precentage of students who were trying to lose weight 47.4 50.0 49.7 47.8 Precentage of students who did not eat breakfast (during the 7 days before the survey) 13.4 11.4 10.7 10.5 AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before t	28.128.128.128.030.327.0ercentage of students who were trying to lose weight47.450.049.747.846.7ercentage of students who did not eat breakfast (during the 7 days before the survey)13.411.410.710.59.7AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	28.1  28.1  28.0  30.3  27.0  31.5 $47.4  50.0  49.7  47.8  46.7  49.4$ $47.4  50.0  49.7  47.8  46.7  49.4$ $13.4  11.4  10.7  10.5  9.7  12.5$ $AY:  Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)$	28.1       28.1       28.0       30.3       27.0       31.5       31.8         ercentage of students who were trying to lose weight       47.4       50.0       49.7       47.8       46.7       49.4       46.9         ercentage of students who did not eat breakfast (during the 7 days before the survey)       13.4       11.4       10.7       10.5       9.7       12.5       16.4         AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)       13.4       11.4       10.7       10.5       9.7       12.5       16.4	28.128.128.128.030.327.031.531.8Increased, 2009-2021recentage of students who were trying to lose weight47.450.049.747.846.749.446.9No linear changerecentage of students who did not eat breakfast (during the 7 days before the survey)13.411.410.710.59.712.516.4No linear changeAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	28.1       28.1       28.1       28.0       30.3       27.0       31.5       31.8       Increased, 2009-2021       No quadratic change         rcentage of students who were trying to lose weight       47.4       50.0       49.7       47.8       46.7       49.4       46.9       No linear change       No quadratic change         rcentage of students who did not eat breakfast (during the 7 days before the survey)       13.4       11.4       10.7       10.5       9.7       12.5       16.4       No linear change       Decreased, 2009-2017         AY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)       39.2       40.1       43.9       46.0       46.6       40.9       35.4       No linear change       Increased, 2009-2017

# Kentucky Middle School Survey

**Trend Analysis Report** 

					Heal	th Risk	Behavi	or and P	ercen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
of phy		tivity th						at least 60 them brea										
									54.5	52.3	54.8	47.9	52.7	43.8	50.5	Decreased, 2009-2021	No quadratic change	Increased
day (ii	n any ki	nd of pl		activity				te in at le rt rate an										
day (ii	n any ki	nd of pl	nysical a	activity				rt rate an					ome of t	he time		No linear change	No change, 2009-2015 No change, 2015-2021	No change
day (in during QNPA kind o	n any ki the 7 d	nd of pl ays bef Percer cal activ	nysical a ore the s	activity survey)	that inc	reased t	heir hea	rt rate an	10.3	le them 12.2 60 minu	breather 12.0 utes per	hard so 12.6 day on	12.4 all 7 da	he time 14.6 ys (in ar	11.7 1y	No linear change	e ,	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Physical Act	ivity																
				Healt	th Risk	Behavi	or and I	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN41: Perce when they w			ts who a	attended	l physica	al educa	tion (PI	E) class	ses on 1	or more	e days (	in an av	erage w	veek			
								44.6	45.5	47.5	50.5	36.8	38.9	40.5	No linear change	No quadratic change	No change
QNDLYPE: when they w			tudents	who att	ended p	hysical	educatio	on (PE) 34.7	) classes 30.8	s on all : 25.6	-		verage w 28.2		Decreased, 2009-2021	No quadratic change	No change
QN42: Perce community g								am (cou	unting a	ny team	is run b	y their s	chool o	r			
								59.9	58.7	62.3	59.1	63.3	55.3	50.3	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	No change
QN43: Perce times during						n from j	playing	a sport	or bein	g physi	cally ac	tive (on	e or mo	re			
										-		13.9	18.4	18.4	Increased, 2017-2021	Not available <sup>§</sup>	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 Middle School Survey

**Trend Analysis Report** 

Other					Heal	th Risk	Behavi	ior and	Percen	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
				-			-											
N45:	Percer	tage of	f studen	ts who g	got 8 or	more h	ours of	sleep (o	on an av	erage sc	chool nig	ght)						
QN45:	Percer	ntage of	f studen	ts who g	got 8 or	more h	ours of	sleep (o	on an av	erage sc	chool nig	ght) 49.0	53.6	44.1	43.1	Decreased, 2015-2021	Not available <sup>§</sup>	No change
QN46:		ntage of	<u>.</u>								chool niş lian's hor	49.0				,	Not available <sup>§</sup>	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Site-Add	ded																	
					Healt	th Risk	Behavio	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>
1991 1	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN47: P cutting or														such as				
												16.9	16.0	20.0	22.5	Increased, 2015-2021	Not available <sup>§</sup>	No change
QN48: P the surve		itage of	f studen	ts who s	moked	cigarett	es on sc	hool pr	operty (	on at le	east 1 da	y durin	g the 30	) days b	efore			
												2.0	1.0	2.2	1.1	No linear change	Not available	Decreased
ON49: P						y used a	n electro	onic vaj	por proc	luct on	school	property	v (on at	least 1 (	lav			
during the	ne 30 d	lays be	fore the	survey	)								y (on at	icast i v	iay			
	ne 30 (	lays be	iore the	survey	)								, (on at	7.1	5.1	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.

# Kentucky Middle School Survey

**Trend Analysis Report** 

					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
						drink a e survey		glass o	of plain	water (c	counting	g tap, bo	ottled, a	nd unfla	wored			
													9.8	6.7	6.5	Decreased, 2017-2021	Not available <sup>§</sup>	No change
						d that so ng their					provide	e short	physica	l activit	у			
														21.9	34.0	Increased, 2019-2021	Not available	Increased
QN53	Perce	ntage of	fstuden	ts who	have ev	er been	told by	a docto	r or a ni	urse that	t they ha	ave asth	ima					
									22.8	22.3	20.3	20.6	18.7	20.5	16.2	Decreased, 2009-2021	No quadratic change	Decreased

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

Total

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Site-A	dded																	
					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
			f studen long stu					ys of scl	hool bec	cause of	their as	sthma (c	luring t	he 30 da	ıys			
														16.5	13.6	No linear change	Not available <sup>§</sup>	No change
QN55:	Perce	ntage of	f studen	ts who l	brushed	their te	eth on a	all 7 day		-	-	efore the	-		(( )	Desmond	No shares 2000 2017	No sheeree
									74.3	72.9	73.1	73.8	73.3	68.4	66.1	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	No change
QN56:	Perce	ntage of	f studen	ts who f	flossed	heir tee	th on al	ll 7 days	s (during	g the 7 o	lays bef	fore the	survey)					
									24.5	22.0	22.2	22.0	17.9	18.8	21.8	Decreased, 2009-2021	No quadratic change	No change
QN57: proble		ntage of	f studen	ts who o	do not h	ave an a	adult in	their lif	fe that th	ney trus	t and ca	in talk to	o about	serious	-			
											12.4	12.5	10.5	12.5	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.

#### Kentucky Middle School Survey

**Trend Analysis Report** 

#### Site-Added Health Risk Behavior and Percentages Linear Change\* **Quadratic Change**<sup>\*</sup> Change from 2019-2021 \* 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021 QN58: Percentage of students who reported their parents or other adults in their family most of the time or always ask where they are going or with whom they will be Not available§ 74.1 72.8 76.8 71.1 66.0 Decreased. Decreased 2013-2021 QN59: 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 66.2 66.3 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) 64.5 60.7 63.3 No linear change Not available No change

Total

# Kentucky Middle School Survey

**Trend Analysis Report** 

Total Site-Added			Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991 1993 199	5 1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNWATER2: Per tap, bottled, and un									wo or m	ore tim	es per d	lay (cou	nting			
											57.3	53.3	56.6	No linear change	Not available <sup>§</sup>	No change
QNWATER3: Per tap, bottled, and un									hree or	more tir	nes per	day (co	unting			
											44.3	39.5	44.2	No linear change	Not available	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Injury	and V	iolence																
					Heal	th Risk	Behavi	or and Pe	ercen	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007 2	2009	2011	2013	2015	2017	2019	2021	-		
QN6:	Percent	age of	students	s who ra	arely or	never w	vore a bi	cycle helr	net (a	among s	students	who ha	ad ridde	n a bicy	cle)			
								٤	86.7	87.6	83.5	81.5	73.9	81.4	76.5	Decreased, 2009-2021	No quadratic change	No change
	Percent sed rolle						ore a he	elmet whe	n roll	lerbladii	ng or sk	ateboar	ding (a	mong st	udents			
								8	39.9	88.9	84.6	83.5	77.4	80.2	74.2	Decreased, 2009-2021	No quadratic change	No change
QN8:	Percent	age of	students	s who di	id not a	lways w	ear a se	at belt (wl	nen ri	iding in	a car di	riven by	someo	ne else)				
								2	50.2	51.0	45.7	44.1	30.0	36.0	38.5	Decreased, 2009-2021	No quadratic change	No change
QN9:	Percent	age of	students	s who ev	ver rode	with a	driver w	vho had be	een d	rinking	alcohol	(in a ca	ar)					
								2	26.1	23.1	18.0	17.5	12.1	16.7	14.8	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male	
Injury and	Violence

					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN10:	Percer	ntage of	fstuden	ts who	were ev	er in a p	hysical	fight						-				
									70.4	64.0	61.1	59.6	45.8	57.6	52.3	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	No change
QN12:	Percer	ntage of	fstuden	ts who	were ev	er bullie	ed on sc	hool pro	operty		-			-	-			
									38.9	38.8	41.0	39.9	37.7	35.3	27.9	Decreased, 2009-2021	No change, 2009-2015 Decreased, 2015-2021	Decreased
					were ev		onically	y bullie	d (coun	ting bei	ng bulli	ed throu	igh text	ing,				
Instagi	ram, Fa	cebook	or othe	er socia	l media)											_		
										12.1	15.4	13.9	14.2	17.5	20.4	Increased, 2011-2021	No quadratic change	No change
QN14:	Percer	ntage of	fstuden	ts who	ever ser	iously t	hought a	about ki	lling th	emselve	es				-			
									14.4	13.7	10.6	11.3	11.7	15.0	17.8	No linear change	Decreased, 2009-2017 Increased, 2017-2021	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Injur	y and V	iolence			Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN15	: Perce	ntage of	studen	ts who e	ever ma	ide a pla	n about	how th	ey wou	ld kill tl	hemselv	res						
									9.7	8.5	8.5	8.9	6.4	9.4	14.8	No linear change	Decreased, 2009-2017 Increased, 2017-2021	Increased
QN16	: Perce	ntage of	studen	ts who o	ever trie	ed to kil	l themse	elves	5.9	4.9	5.4	3.4	3.9	5.9	7.2	No linear change	Decreased, 2009-2017 Increased, 2017-2021	No change

# Kentucky Middle School Survey

Trend Analysis Report

Male Tobacco Us	se																
				Healt	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991 1993	3 1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN17: Perc	centage of	student	s who e	ever trie	d cigare	ette smo	oking (e	ven one	or two	puffs)							
								35.8	28.9	24.0	21.8	11.0	15.8	12.8	Decreased, 2009-2021	No quadratic change	No change
QN18: Perc puffs)	centage of	student	s who t	ried cig	arette s	moking	for the	first tin	ne befor	re age 1	1 years	(even o	ne or tw	/0	·		
												4.7	8.3	7.1	No linear change	Not available <sup>§</sup>	No change
QN19: Perc	centage of	student	s who c	currently	y smoke	ed cigar	ettes (or	n at leas	t 1 day	during	the 30 c	lays bef	ore the				
								11.0	8.4	6.3	6.0	2.1	4.2	1.7	Decreased, 2009-2021	No quadratic change	Decreased
											_	_					
QNFRCIG: days before			idents v	who cur	rently s	moked	cigarette	es frequ	ently (c	on 20 or	more d	lays dur	ing the 3	30			

 $^*Based$  on trend 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 Middle School Survey

**Trend Analysis Report** 

Male Tobacco Use																	
				Heal	th Risk	Behavi	or and	Percer	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDAYCIG: the survey)	Percer	ntage of	student	s who c	currently	y smoke	d cigar	ettes da	ily (on a	all 30 da	ays duri	ng the 3	0 days l	before			
								2.5	1.8	1.3	0.6	0.5	1.0	0.1	Decreased, 2009-2021	No quadratic change	No change
QN21: Perce	ntage of	studen	ts who e	ever use	d an ele	ectronic	vapor p	product			22.6	14.6	29.8	21.6	No linear change	Not available <sup>§</sup>	Decreased
QN22: Perce pens, e-cigars during the 30	, e-hook	ahs, ho	okah pe	ns, and													
											13.1	4.3	15.0	9.0	No linear change	Not available	Decreased
QNFREVP: 1 during the 30					rrently u	ised elec	etronic	vapor p	oroducts	frequer	ntly (on	20 or m	ore day	S			
											1.4	0.4	2.5	2.4	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.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Tobac	co Use																	
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
-		Percer e surve	•	fstuden	ts who	currently	y used e	lectroni	c vapo	r produc	cts daily	(on all	30 days	s during	the 30			
												0.9	0.2	1.5	1.5	No linear change	Not available <sup>§</sup>	No change
				ents who survey		ntly smo	ked ciga	arettes o	or used	electror	nic vapo	r produ	cts (on	at least	1 day			
U		2										13.2	5.1	14.8	7.7	No linear change	Not available	Decreased
dissolv	able to	bacco p	roducts	[such a	s Coper	nhagen,	mokeles Grizzly, e the sur	Skoal,							vapor			
													2.8	5.1	4.1	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Tobac	co Use																
					Heal	th Risk	Behavior	and Perce	entages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005 2	007 2009	2011	2013	2015	2017	2019	2021	-		
nus, o	or dissol	vable to	bacco j	products	s [such a	as Cope	nhagen, G	eless tobaco rizzly, Sko ays before	al, or Ĉa	mel Snu				dip,			
												0.7	1.3	1.1	No linear change	Not available <sup>§</sup>	No change
r diss	olvable	tobacco	o produ	cts [sucl	h as Coj	penhage		okeless tob y, Skoal, or urvey)									
												0.7	1.3	0.9	No linear change	Not available	No change
	Percer days be				currently	y smoke	ed cigars (	cigars, ciga	rillos, or	little ci	gars, on	at least	t 1 day d	luring			
								8.1	7.1	5.3	6.6	2.3	4.6	2.5	Decreased.	No quadratic change	Decreased

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Tobacco Use																	
				Healt	h Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNTB4: Per vapor produc									s or use	d smoke	eless toł	Dacco of	r electro	nic			
												6.6	16.1	10.0	Increased, 2017-2021	Not available <sup>§</sup>	Decreased
QNTB3: Per day during th					tly smo	ked ciga	arettes o	or cigars	s or use	d smoke	eless toł	bacco (o	on at lea	st 1			
												4.6	7.9	5.6	No linear change	Not available	No change
QNFRCGR: or more days						moked	cigars f	requent	tly (ciga	ars, ciga	rillos, c	or little o	cigars, o	n 20			
								0.7	0.8	0.8	0.4	0.1	1.0	0.2	No linear change	No quadratic change	No change
QNDAYCGI days during t					currentl	y smoke	ed cigar	s daily	(cigars,	cigarill	os, or li	ttle ciga	ars, on a	11 30			

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Alcoh	ol and (	Other I	Drug Us	se														
					Heal	th Risk	Behavio	or and P	ercer	ntages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN25:	Percei	ntage of	fstuden	ts who	ever dra	ink alcol	hol (othe	er than a	few s	ips)								
									35.9	33.9	26.7	26.8	16.2	21.2	18.9	Decreased, 2009-2021	No quadratic change	No change
QN26:	Percei	ntage of	fstuden	ts who	drank al	cohol fo	or the firs	st time b	efore	age 11	years (c	other that	n a few	sips)				
									16.3	16.5	12.2	12.1	7.2	13.0	11.0	Decreased, 2009-2021	No quadratic change	No change
QN27:	Percei	ntage of	fstuden	ts who	ever use	ed mariju	uana						-	-				
									11.0	10.6	10.6	9.7	6.6	9.0	4.8	Decreased, 2009-2021	No quadratic change	Decreased
QN28:	Percei	ntage of	fstuden	ts who	tried ma	irijuana	for the fi	irst time	befor	e age 1	1 years			;				
									3.9	4.1	3.6	3.6	2.2	2.6	1.8	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Alcoh	ol and (	Other I	<b>)rug</b> Us	e	Healt	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	ow a do										a doctor xyconti				rently			
	,												3.6	6.7	7.4	Increased, 2017-2021	Not available <sup>§</sup>	No change
QN30	Percei	ntage of	student	ts who e	ever use	d cocair	ne (any	form of	cocain	e, inclu	ding po	wder, ci	rack, or	freebas	e)			
									4.2	3.1	2.4	2.9	2.8	1.1	1.8	Decreased, 2009-2021	No quadratic change	No change
-		U	student o get hig		ever use	d inhala	nts (sni	ffed glu	ie, brea	thed the	e conten	ts of spi	ray cans	s, or inh	aled			
										9.9	8.6	6.1	5.4	6.4	5.5	Decreased, 2011-2021	No quadratic change	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male
<b>Sexual Behaviors</b>

					Healt	h Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN32:	Percei	ntage of	studen	ts who e	ever had	sexual	interco	urse										
									21.4	17.1	12.6	12.1	6.3	8.9	6.9	Decreased, 2009-2021	No quadratic change	No change
QN33:	Percei	ntage of	studen	ts who ł	nad sexu	al inter	course	for the f	first tim	e before	e age 11	years	-		<u>.</u>			
									6.7	4.7	3.0	3.7	2.1	3.0	2.9	Decreased, 2009-2021	Decreased, 2009-2013 No change, 2013-2021	No change
QN34:	Percei	ntage of	studen	ts who e	ever had	sexual	interco	urse wit	th three	or more	e persor	is	-					
									6.9	5.6	4.0	4.3	1.6	2.0	1.0	Decreased, 2009-2021	No quadratic change	No change
	Percei interco		studen	ts who ι	ised a c	ondom	during l	ast sexu	ual inter	rcourse	(among	student	s who e	ver had				
									71.0	69.0	75.4	58.8	55.4	60.8	56.7	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

ii cigi		agemen	t anu L	netary	Behavi		D.I		D	4						T :*	One lost's Channet	Classic from
					Heal	th Kisk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN36	Perce	ntage of	studen	ts who	describe	ed them	selves as	s slightly	y or ve	ry overv	weight							
									27.5	26.8	27.9	26.8	26.8	30.5	29.2	No linear change	No quadratic change	No change
QN37	Perce	ntage of	studen	ts who	were try	ing to l	ose weig	ght										_
									40.1	41.2	41.7	38.4	40.9	41.0	42.5	No linear change	No quadratic change	No change
QN38	Perce	ntage of	studen	ts who	did not	eat brea	kfast (dı	uring the	e 7 day	s before	e the su	rvey)						
									12.0	8.5	7.1	7.8	7.1	10.9	12.5	No linear change	Decreased, 2009-2013 Increased, 2013-2021	No change
QNB	7DAY	: Perce	ntage of	f studen	ts who	ate brea	kfast on	all 7 da	ys (dui	ring the	7 days	before t	he surve	ey)				_
									46.6	47.3	52.9	53.8	51.7	46.9	44.3	No linear change	Increased, 2009-2015 Decreased, 2015-2021	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Physic	al Acti	vity															
					Heal	th Risk	Behavio	r and Perc	entages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007 200	9 2011	2013	2015	2017	2019	2021	-		
of phy		tivity th						least 60 mi									
								59.	1 58.6	60.0	54.4	56.0	48.5	55.8	Decreased, 2009-2021	No quadratic change	Increased
day (ir	n any ki	nd of pl	nysical		that inc			e in at least t rate and m									
								10.	1 9.8	12.4	11.5	12.5	14.6	11.1	No linear change	No quadratic change	No change
kind o		al activ						ctive at leas ade them bi									
								40.9	9 39.2	37.7	36.3	32.9	27.6	36.0	Decreased, 2009-2021	No quadratic change	Increased

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Physical Activ	vity																
	Health Risk Behavior and Percentages													Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>	
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN41: Percer when they wer			s who a	attendec	l physic	al educa	ation (PE	E) class	ses on 1	or more	e days (	in an av	erage w	veek			
								46.1	48.8	51.1	53.1	39.8	41.9	42.8	No linear change	No quadratic change	No change
QNDLYPE: I when they wer			udents	who att	ended p	hysical	educatio	on (PE)	classes	s on all :	5 days (	(in an av	verage w	veek			
								35.4	33.4	28.4	27.8	23.0	30.5	22.6	Decreased, 2009-2021	No quadratic change	No change
QN42: Percer community gr								ım (cou	inting a	ny team	is run b	y their s	chool o	r			
								62.0	58.9	62.7	61.6	64.5	55.3	52.0	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	No change
QN43: Percer times during th						on from	playing a	a sport	or bein	g physi	cally ac	tive (on	e or mo	re			
												15.7	19.3	19.4	No linear change	Not available <sup>§</sup>	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 Middle School Survey

**Trend Analysis Report** 

Male Other					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN45:	Perce	ntage of	f studen	ts who g	got 8 or	more h	ours of	sleep (o	on an av	erage so	chool ni	ght) 50.0	53.9	44.6	47.1	Decreased, 2015-2021	Not available <sup>§</sup>	No change
	Perce the sur		f studen	ts who i	usually	did not	sleep in	their pa	arent's c	or guard	ian's ho	me (dur	ring the 2.9	30 days 2.9	5.1	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Site-A	dded																	
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
							o purpo ore times							such as				
												9.8	10.9	13.8	15.0	Increased, 2015-2021	Not available <sup>§</sup>	No change
QN48: the sur		ntage of	f studen	ts who	smoked	cigaret	tes on sc	chool pr	operty	(on at le	east 1 da	ay durin	ng the 30	) days b	efore			
												2.2	1.0	2.5	1.3	No linear change	Not available	No change
			f studen fore the			y used a	in electr	onic va	por pro	duct on	school	property	y (on at	least 1	day			
														7.3	3.8	Decreased, 2019-2021	Not available	Decreased
QN50:	Perce	ntage of	f studen	ts who l	had oral	sex			-		12.4	11.5	10.6	0.4	6.0		NT / 111	
											12.4	11.5	10.6	9.4	6.8	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.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Site-A	dded				Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			2019-2021
						drink a l e survey	bottle or	glass o	of plain	water (	counting	g tap, bo	ottled, a	nd unfla	wored			
													11.1	7.9	7.8	No linear change	Not available <sup>§</sup>	No change
							me of th physical				s provid	e short j	physica	l activit	y			
														21.3	32.8	Increased, 2019-2021	Not available	Increased
QN53:	Percer	ntage of	studen	ts who l	nave eve	er been	told by a	a docto	r or a n	urse that	t they ha	ave asth	nma					
									24.8	22.0	20.9	20.8	20.0	22.1	18.3	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Site-Ac	dded																	
					Healt	th Risk	Behavi	or and	Percer	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN54: before							nore day ı)	vs of sch	hool be	cause of	f their a	sthma (o	during t	he 30 da	ays			
														13.7	16.2	No linear change	Not available <sup>§</sup>	No change
		0					eth on a		67.5	69.0	-		67.8		60.3	Decreased, 2009-2021	No quadratic change	No change
QN56:	Percei	ntage of	studen	ts who f	lossed t	their tee	th on al	l 7 days	s (durin	g the 7	days bei	fore the	survey	)				
									21.6	20.2	19.4	21.5	16.6	17.0	19.3	No linear change	No quadratic change	No change
QN57: probler		ntage of	studen	ts who o	lo not h	ave an a	adult in	their lif	e that t	hey trus	t and ca	in talk to	o about	serious				
											11.3	10.3	9.3	9.6	11.9	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Site-Ao	lded																	
					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
				ts who r whom t			arents of	r other a	adults ir	n their f	amily m	lost of t	he time	or alwa	ys ask			
											67.8	68.0	71.7	66.4	62.0	No linear change	Not available <sup>§</sup>	No change
-	Percen ey have	U		ts who r	eported	there is	s at leas	t one te	acher or	other a	dult in 1	their sch	nool tha	t they ca	an talk			
														66.1	65.0	No linear change	Not available	No change
									of plain ore the s		one or m	ore time	es per d	ay (cou	nting			
													61.6	60.2	62.7	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Male Site-A	dded				Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
-	ATER2: ottled, ar		0					0			wo or n	nore tim	es per d	lay (cou	nting			
													54.5	52.4	56.7	No linear change	Not available <sup>§</sup>	No change
-	ATER3: ottled, ar		0					0			hree or	more tii	nes per	day (co	unting			
													42.4	39.2	43.7	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Injury	e v and V	iolence	:															
					Heal	th Risk	Behavi	or and P	ercen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN6:	Percent	age of	students	s who ra	arely or	never w	ore a bi	cycle hel	met (a	among s	students	who ha	d ridde	n a bicy	cle)			
									84.3	84.7	79.5	79.0	68.6	79.5	74.2	Decreased, 2009-2021	No quadratic change	No change
				s who ra e a skat			ore a he	elmet who	en roll	lerbladi	ng or sk	ateboar	ding (ar	nong st	udents			
									82.4	89.1	82.1	88.0	73.1	84.6	79.1	Decreased, 2009-2021	No quadratic change	No change
QN8:	Percent	age of	students	s who d	id not a	lways w	vear a sea	at belt (w	hen ri	iding in	a car dı	riven by	someo	ne else)				
									46.6	45.7	38.7	40.8	31.4	35.7	35.7	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	No change
QN9:	Percent	age of	students	s who e	ver rode	with a	driver w	ho had b	een di	rinking	alcohol	(in a ca	ur)		-			
			÷	·	÷	;			25.0	22.0	21.7	18.2	15.8	16.6	18.3	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Injury		iolence																
					Heal	th Risk ]	Behavi	or and	Percer	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN10:	Perce	ntage of	studen	ts who	were ev	er in a pl	nysical	fight										
		C				Ĩ	2	U	38.8	36.3	31.8	32.8	27.9	30.2	28.7	Decreased, 2009-2021	No quadratic change	No change
QN12:	Perce	ntage of	studen	ts who	were ev	er bullie	d on scl	nool pro	operty			-	-					
								-	44.9	47.2	57.2	54.6	49.8	54.3	40.3	No linear change	Increased, 2009-2013 Decreased, 2013-2021	Decreased
					were ev l media)	er electro	onically	v bullied	d (coun	ting bei	ng bulli	ed throu	igh text	ing,				
										31.3	34.8	35.4	32.9	33.5	33.5	No linear change	No quadratic change	No change
ON14:	Perce	ntage of	studen	ts who	ever ser	iously th	ought a	ıbout ki	lling th	emselve	es		-			·		
		0					0		20.6	24.4	19.6	26.0	24.7	30.4	29.9	Increased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Injury	le y and V	iolence																
					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN15	: Perce	ntage of	studen	ts who e	ever ma	de a pla	n about	how th	ey woul	d kill th	nemselv	es		-				
									12.3	14.4	11.1	18.3	14.9	18.1	21.6	Increased, 2009-2021	No quadratic change	No change
QN16	: Perce	ntage of	studen	ts who e	ever trie	ed to kill	l themse	elves	:			:		:				
									7.2	9.3	8.1	10.7	7.6	11.9	12.6	Increased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN17:	Percer	ntage of	studen	ts who e	ever trie	d cigare	ette smo	king (e	ven one	or two	puffs)		-					
									32.2	29.5	23.3	23.3	13.1	17.1	12.5	Decreased, 2009-2021	No quadratic change	No change
QN18:	Percer	ntage of	studen	ts who t	ried cig	arette s	moking	for the	first tin	ne befor	re age 1	1 years	(even or	ne or tw	0			
QN18: puffs)	Percer	ntage of	studen	ts who t	ried cig	arette s	moking	for the	first tin	ne befor	re age 1	1 years (					N	
	Percer	ntage of	studen	ts who t	ried cig	arette s	moking	for the	first tin	ne befor	re age 1	1 years (	(even oi 5.0	ne or tw 7.4	o 6.2	No linear change	Not available <sup>§</sup>	No change
puffs) QN19	Percer											1 years ( the 30 d	5.0	7.4		No linear change	Not available <sup>§</sup>	No change
puffs)	Percer								n at leas	t 1 day	during	the 30 d	5.0 ays befo	7.4	6.2			No change
puffs) QN19	Percer												5.0	7.4		No linear change Decreased, 2009-2021	Not available <sup>§</sup> No quadratic change	No change Decreased
QN19 Survey QNFR	Percer	ntage of Percenta	f studen ge of st	ts who c	currently	y smoke	ed cigaro	ettes (or	n at leas 8.4	it 1 day 9.7	during 6.2	the 30 d	5.0 ays befo 3.3	7.4 ore the 4.4	6.2	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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Female Tobacco Use																
			Healt	th Risk	Behavi	or and	Percer	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991 1993 19	95 1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDAYCIG: Pe he survey)	rcentage of	f student	s who c	urrently	/ smoke	d cigar	ettes da	ily (on a	all 30 da	ays duri	ng the 3	0 days	before			
							1.1	1.5	1.4	0.7	0.5	0.1	0.0	Not available	Not available <sup>§</sup>	Not available
QN21: Percentag	e of studer	nts who e	ever use	d an ele	ectronic	vapor	product			20.9	15.8	33.1	26.6	Increased, 2015-2021	Not available	No change
2N22: Percentag ens, e-cigars, e-h luring the 30 days	lookahs, ho	ookah pe	ens, and													
										11.0	3.5	19.6	13.8	Increased, 2015-2021	Not available	No change
QNFREVP: Perce during the 30 days				rrently u	ised elec	ctronic	vapor p	roducts	frequer	ntly (on	20 or m	ore day	S			
										1.4	0.2	1.4	3.6	Increased, 2015-2021	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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Tobacc	o Use																	
					Heal	th Risk	Behavi	or and 1	Percent	ages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QNDAY days bef				student	s who o	currently	v used e	lectroni	c vapor j	produc	ts daily	v (on all	30 days	during	the 30			
												0.9	0.0	0.9	2.6	Not available	Not available <sup>§</sup>	No change
QNTB5 during th		•				ntly smo	ked ciga	rettes o	r used el	lectron	ic vapo	or produ	cts (on	at least	1 day			
0				•								13.6	4.9	19.4	12.8	No linear change	Not available	No change
dissolva	able tob	bacco p	roducts	[such as	s Coper		Grizzly,	Skoal,	co (chew or Came						vapor			
													2.3	2.5	1.3	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Tobac	le co Use																
					Heal	th Risk	Behavio	r and Pero	centages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007 200	9 2011	2013	2015	2017	2019	2021	-		
snus, o	or dissol	lvable to	obacco	product	s [such	as Cope	enhagen,	keless toba Grizzly, Sk days before	oal, or C	amel Snu				dip,			
												0.1	0.1	0.3	No linear change	Not available <sup>§</sup>	No change
or diss	olvable	tobacco	o produ	cts [suc	h as Co	penhage		nokeless to y, Skoal, o survey)									
												0.1	0.1	0.3	No linear change	Not available	No change
		ntage of			currentl	y smoke	ed cigars	(cigars, cig	arillos, o	r little ci	gars, on	at least	t 1 day c	luring			
								5.4	4 4.5	3.5	4.0	1.9	3.1	1.2	Decreased, 2009-2021	No quadratic change	Decreased

# Kentucky Middle School Survey

**Trend Analysis Report** 

Female Tobacco Use	•																
				Healt	th Risk	Behavi	or and I	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNTB4: Per vapor produc									s or use	d smoke	eless tol	bacco o	r electro	nic			
												6.3	19.6	13.2	Increased, 2017-2021	Not available <sup>§</sup>	No change
QNTB3: Per day during th					tly smo	ked ciga	arettes o	r cigars	s or use	d smoke	eless tol	bacco (o	on at lea	st 1			
												5.2	7.1	3.3	No linear change	Not available	No change
QNFRCGR: or more days						smoked	cigars f	requent	ly (ciga	ars, ciga	rillos, c	or little o	cigars, o	n 20			
								0.7	0.2	0.6	0.6	0.5	0.2	0.2	No linear change	No quadratic change	No change
QNDAYCGI days during t					currentl	y smoke	ed cigars	s daily	(cigars,	cigarill	los, or li	ittle cig	ars, on a	11 30			

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

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

Trend Analysis Report

					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN25:	Percer	ntage of	studen	ts who e	ever dra	nk alcol	hol (oth	er than	a few si	ps)								
									28.0	29.9	26.0	23.6	18.0	24.7	19.6	Decreased,	No quadratic change	No change
																2009-2021		
QN26:	Percer	ntage of	studen	ts who c	lrank al	cohol fo	or the fin	rst time	before	age 11	years (o	ther that	n a few	sips)				
QN26:	Percer	ntage of	f studen	ts who c	lrank al	cohol fo	or the fir	rst time	before 12.3	age 11 <u>-</u> 9.5	years (o 12.1	ther that 9.0	n a few 6.9	sips) 10.1	9.3	No linear change	No quadratic change	No change
_				ts who c ts who e				rst time						- ·	9.3		No quadratic change	No change
								rst time						- ·	9.3 7.0		No quadratic change No quadratic change	No change No change
QN27:	Percer	ntage of	studen	ts who e	ever use	d mariji			12.3 8.5	9.5 7.6	12.1 8.2	9.0	6.9	10.1		No linear change		

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Alcoh		Other I	Drug Us	se														
					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	ow a do						ription p gs such a								rently			
													4.9	11.5	9.8	Increased, 2017-2021	Not available <sup>§</sup>	No change
QN30:	Percei	ntage of	fstuden	ts who e	ever use	d cocai	ne (any	form of	cocain	e, inclu	ding po	wder, ci	rack, or	freebas	e)			
									2.9	4.3	3.1	2.4	1.7	2.9	1.6	Decreased, 2009-2021	No quadratic change	No change
-		0	f studen o get hi		ever use	d inhala	ants (sni	ffed glu	ie, brea	thed the	e conten	ts of spi	ray cans	s, or inh	aled			
										11.6	7.9	8.2	6.5	8.2	7.2	Decreased, 2011-2021	No quadratic change	No change

# Kentucky Middle School Survey

Female
Sexual Behaviors

					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN32	Perce	ntage o	f studer	ıts who	ever had	d sexual	interco	urse	12.8	10.6	7.6	7.3	4.8	7.5	4.5	Decreased, 2009-2021	No quadratic change	No change
QN33	Perce	ntage o	f studer	its who	had sex	ual inter	course	for the t	first tim 3.2	e before 2.0	e age 11 2.0	years 2.1	1.1	1.5	1.7	No linear change	No quadratic change	No change
QN34	Perce	ntage o	f studer	its who	ever had	l sexual	interco	urse wi	th three 4.1	or more 3.2	e persor 2.7	ns 1.9	1.1	1.4	0.4	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

1995 ntage of	<b>1997</b>	<b>1999</b> ts who c	2001	2003	2005	2007	Percen 2009	1 tages	2013	2015				Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>					
				-			Health Risk Behavior and Percentages           93         1995         1997         1999         2001         2003         2007         2009         2011         2013         2015         2017         2019														
ntage of	fstuden	ts who c	lescribe	ed thems	selves as					2015	2017	2019	2021								
						slightly	or vei	ry overv	weight												
							28.8	29.4	28.2	33.9	27.4	32.6	34.8	Increased, 2009-2021	No quadratic change	No change					
ntage of	fstuden	ts who v	were try	ving to lo	ose weig	t				÷											
C			-	C		-	55.4	58.8	58.2	57.6	52.6	58.2	51.2	No linear change	No quadratic change	Decreased					
ntage of	fstuden	ts who c	lid not e	eat brea	kfast (du	iring the	e 7 day	s before	e the sur	vey)											
							15.0	14.1	14.5	13.2	12.5	14.1	20.0	No linear change	No change, 2009-2017 Increased, 2017-2021	Increased					
: Perce	ntage of	studen	ts who a	ate brea	kfast on	all 7 da	ys (dur	ring the	7 days	before tl	ne surve	ey)									
							31.3	32.8	34.4	38.0	41.1	34.7	27.0	No linear change	Increased, 2009-2017 Decreased, 2017-2021	Decreased					
n	itage of	atage of student	tage of students who	atage of students who did not o	atage of students who did not eat brea	tage of students who did not eat breakfast (du		55.4 ttage of students who did not eat breakfast (during the 7 day 15.0 Percentage of students who ate breakfast on all 7 days (dur	55.4 58.8 tage of students who did not eat breakfast (during the 7 days before 15.0 14.1 Percentage of students who ate breakfast on all 7 days (during the	55.4 58.8 58.2 tage of students who did not eat breakfast (during the 7 days before the sur 15.0 14.1 14.5 Percentage of students who ate breakfast on all 7 days (during the 7 days	55.4 58.8 58.2 57.6 tage of students who did not eat breakfast (during the 7 days before the survey) 15.0 14.1 14.5 13.2 Percentage of students who ate breakfast on all 7 days (during the 7 days before the	55.4       58.8       58.2       57.6       52.6         itage of students who did not eat breakfast (during the 7 days before the survey)         15.0       14.1       14.5       13.2       12.5         Percentage of students who ate breakfast on all 7 days (during the 7 days before the surve)	55.4       58.8       58.2       57.6       52.6       58.2         itage of students who did not eat breakfast (during the 7 days before the survey)         15.0       14.1       14.5       13.2       12.5       14.1         Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	55.458.858.257.652.658.251.2ttage of students who did not eat breakfast (during the 7 days before the survey)15.014.114.513.212.514.120.0Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	55.4       58.8       58.2       57.6       52.6       58.2       51.2       No linear change         itage of students who did not eat breakfast (during the 7 days before the survey)         15.0       14.1       14.5       13.2       12.5       14.1       20.0       No linear change         Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)	55.4       58.8       58.2       57.6       52.6       58.2       51.2       No linear change       No quadratic change         trage of students who did not eat breakfast (during the 7 days before the survey)         15.0       14.1       14.5       13.2       12.5       14.1       20.0       No linear change       No change, 2009-2017         Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)         31.3       32.8       34.4       38.0       41.1       34.7       27.0       No linear change       Increased, 2009-2017					

# Kentucky Middle School Survey

Femal Physic	e cal Acti	vity															
					Heal	th Risk [	Behavior a	and Perce	ntages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005 20	07 2009	2011	2013	2015	2017	2019	2021	-		
of phy		tivity th					active at le										
		-						49.2	46.2	49.5	41.1	49.3	38.9	45.3	Decreased, 2009-2021	No quadratic change	No change
day (ir		nd of pl	nysical a	activity	that inc		articipate in neir heart ra										
								10.7	14.5	11.7	13.9	12.3	14.4	12.3	No linear change	No quadratic change	No change
kind o		al activ					sically acti te and made										
								27.3	24.6	25.2	20.9	23.2	17.9	24.4	Decreased, 2009-2021	No quadratic change	Increased

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Physic	e al Acti <sup>,</sup>	vity																
					Heal	th Risk	Behavi	ior and P	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
	Percer hey we			ts who a	attended	l physica	al educa	ation (PE)	) class	ses on 1	or more	e days (	in an av	verage w	reek			
									42.9	42.1	43.7	47.5	33.7	35.7	38.4	No linear change	No quadratic change	No change
	YPE: I hey we			tudents	who att	ended p	hysical	education	n (PE)	) classes	s on all :	5 days (	(in an av	verage w	veek			
									33.8	28.4	22.7	22.4	15.9	25.9	19.7	Decreased, 2009-2021	No quadratic change	No change
						on at leas hs befor		ports tear rvey)	m (cou	inting a	ny team	is run b	y their s	chool o	r			
									57.6	58.4	61.9	56.5	62.0	55.4	49.2	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	Decreased
					had a co ne surve		n from J	playing a	ı sport	or bein	g physi	cally ac	tive (on	e or mo	re			
													12.2	17.3	17.4	Increased, 2017-2021	Not available <sup>§</sup>	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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

Femal Other					Heal	th Risk	Behav	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN45	Perce	ntage of	f studen	ts who g	got 8 or	more h	ours of	sleep (o	on an av	erage so	chool ni	ght) 48.1	53.2	43.6	39.7	Decreased, 2015-2021	Not available <sup>§</sup>	No change
	Percent the sur		studen	ts who t	usually	did not	sleep in	their p	arent's c	or guard	ian's ho	me (dur	ring the 2.7	30 days 1.6	2.2	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Femal Site-A																		
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
							o purpos ore times							such as				
												24.4	21.1	26.7	30.7	Increased, 2015-2021	Not available <sup>§</sup>	No change
QN48: the sur		ntage of	f studen	ts who s	smoked	cigarett	es on sc	hool pr	operty	(on at le	east 1 da	ay durin	g the 30	) days b	efore			
												1.6	1.0	2.0	0.9	No linear change	Not available	No change
				ts who o survey		y used a	n electr	onic va	por pro	duct on	school	property	y (on at	least 1 (	day			
														6.9	6.5	No linear change	Not available	No change
QN50:	Perce	ntage of	fstuden	ts who l	had oral	sex					7.7	10.3	9.9	10.7	7.3	No linear chongo	Not available	Decreased
											1.1	10.5	9.9	10.7	1.5	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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
						drink a e survey		r glass o	of plain	water (c	counting	g tap, bo	ottled, a	nd unfla	wored			
													8.6	5.4	5.2	Decreased, 2017-2021	Not available <sup>§</sup>	No change
						l that so ng their					s provid	e short j	physica	l activit	y			
														22.6	35.4	Increased, 2019-2021	Not available	Increased
QN53	Percei	ntage of	f studen	ts who l	have ev	er been	told by	a docto	r or a ni	urse that	t they ha	ave asth	ima					
									20.6	22.2	19.6	20.5	17.3	18.9	14.3	Decreased, 2009-2021	No quadratic change	No change

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

Female

# Kentucky Middle School Survey

Female Site-Ac	-																	
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
						one or n e asthma		vs of sch	nool bea	cause of	f their as	sthma (o	during t	he 30 da	iys			
														19.2	10.4	No linear change	Not available <sup>§</sup>	Decreased
									81.6	77.0	79.8	80.8	79.2	76.7	72.8	Decreased, 2009-2021	No quadratic change	No change
ON56:	Percei	ntage of	studen	ts who f	flossed	their tee	th on al	l 7 days	(durin	g the 7 of	davs bet	fore the	survev	)				
		U						2	27.7	23.8	25.3			20.8	23.8	Decreased, 2009-2021	No quadratic change	No change
QN57: probler		ntage of	f studen	ts who o	do not h	ave an a	adult in	their life	e that tl	hey trus	t and ca	in talk to	o about	serious				
											13.5	14.9	11.9	15.5	18.2	No linear change	Not available	No change

#### Kentucky Middle School Survey

**Trend Analysis Report** 

#### Site-Added Health Risk Behavior and Percentages Linear Change\* **Quadratic Change**<sup>\*</sup> Change from 2019-2021 \* 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021 QN58: Percentage of students who reported their parents or other adults in their family most of the time or always ask where they are going or with whom they will be Not available§ 80.9 77.8 82.1 76.2 70.4 Decreased. Decreased 2013-2021 QN59: 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 66.3 67.9 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) 67.3 61.1 64.4 No linear change Not available No change

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

Female

# Kentucky Middle School Survey

**Trend Analysis Report** 

Female Site-Added				Healt	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNWATER tap, bottled,		0					0			wo or n	nore tim	es per d	lay (cou	nting			
												60.0	54.3	57.0	No linear change	Not available <sup>§</sup>	No change
QNWATER tap, bottled,										hree or	more tii	nes per	day (co	unting	·		
												46.4	39.7	44.9	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

White Injury	* 7 and V	iolence	:															
					Heal	th Risk	Behav	ior and	Percer	ntages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN6:	Percent	age of	students	s who ra	arely or	never w	vore a bi	icycle he	elmet (a	among	students	s who ha	ad ridde	n a bicy	cle)			
									85.1	85.5	80.9	80.3	69.5	79.3	74.5	Decreased, 2009-2021	No quadratic change	No change
				s who ra e a skate			ore a h	elmet wl	hen rol	lerbladi	ng or sl	kateboai	ding (a	nong st	udents			
									87.1	89.1	82.3	86.7	73.4	82.8	76.8	Decreased, 2009-2021	No quadratic change	Decreased
QN8:	Percent	age of	students	s who d	id not a	lways w	ear a se	eat belt (	when r	iding in	a car d	riven by	/ someo	ne else)	1			
									46.9	45.7	40.6	40.8	28.5	32.0	35.8	Decreased, 2009-2021	Decreased, 2009-2017 Increased, 2017-2021	No change
QN9:	Percent	age of	students	s who e	ver rode	e with a	driver v	who had	been d	rinking	alcoho	l (in a ca	ar)	:		,		
									25.0	22.8	18.7	17.2	14.3	16.2	16.9	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	No change

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>§</sup>Based on t-test analysis, p < 0.05.

# Kentucky Middle School Survey

White Injury	* v and V	iolence																
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
ON10:	Percer	itage of	fstuden	ts who	were ev	er in a p	hysical	fight										
		U				Ĩ	5	U	53.5	47.8	43.8	42.1	33.1	40.0	38.3	Decreased, 2009-2021	Decreased, 2009-2017 Increased, 2017-2021	No change
QN12:	Perce	ntage of	fstuden	ts who	were ev	er bullie	ed on scl	hool pro	operty									
									43.2	44.2	49.6	48.5	43.4	46.1	36.5	Decreased, 2009-2021	Increased, 2009-2013 Decreased, 2013-2021	Decreased
					were ev media)		onically	v bullied	l (coun	ting bei	ng bulli	ed throu	igh text	ng,				
										22.4	25.3	27.2	23.3	26.1	29.1	Increased, 2011-2021	No quadratic change	No change
QN14:	Percer	ntage of	fstuden	ts who	ever ser	iously th	hought a	bout ki	lling th	emselve	es	-	-	-	-			
-		J				5	5		16.8	18.5	13.4	17.6	17.9	22.0	22.7	Increased, 2009-2021	No change, 2009-2013 Increased, 2013-2021	No change

# Kentucky Middle School Survey

White Injury	y and V	iolence			Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN15	: Perce	ntage of	student	ts who e	ever ma	de a pla	n about	how th	ey wou	ld kill tl	nemselv	es			:			
									10.8	11.2	9.3	12.9	10.5	13.2	17.3	Increased, 2009-2021	No change, 2009-2017 Increased, 2017-2021	Increased
QN16	: Percer	ntage of	student	ts who e	ever trie	ed to kil	l themse	elves	-	-								
						-		-	5.7	6.6	6.0	6.3	5.4	8.5	8.5	Increased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Health Risk Behav         1991       1993       1995       1997       1999       2001       2003       2005         QN17:       Percentage of students who ever tried cigarette smoking puffs)       QN18:       Percentage of students who tried cigarette smoking puffs)	<b>2007 2009</b> oking (even one 33.9	<b>2011</b> ne or two 29.9	22.9	22.0	<b>2017</b> 12.2 (even or	<b>2019</b> 16.3	<b>2021</b> 13.0	Linear Change <sup>†</sup> Decreased, 2009-2021	<b>Quadratic Change<sup>†</sup></b> No quadratic change	Change from 2019-2021 <sup>§</sup> No change
QN17: Percentage of students who ever tried cigarette smoking         QN18: Percentage of students who tried cigarette smoking         puffs)         QN19: Percentage of students who currently smoked cigar	oking (even one 33.9	ne or two 29.9	puffs) 22.9	22.0	12.2	16.3	13.0		No quadratic change	No change
QN18: Percentage of students who tried cigarette smoking puffs) QN19: Percentage of students who currently smoked cigar	33.9	29.9	22.9			-			No quadratic change	No change
puffs) QN19: Percentage of students who currently smoked cigar						-			No quadratic change	No change
puffs) QN19: Percentage of students who currently smoked cigar	g for the first tir	me befor	re age 1	1 years	(even o	ne or tw				
							0			
					4.6	7.6	5.9	No linear change	Not available <sup>¶</sup>	No change
	rettes (on at lea	ast 1 day	during	the 30 d	lays bef	ore the				
	10.5	9.6	6.2	6.6	2.9	4.6	1.6	Decreased, 2009-2021	No quadratic change	Decreased
QNFRCIG: Percentage of students who currently smoked days before the survey)	cigarettes frequ	uently (o	on 20 or	more d	ays duri	ing the 3	30			
		2.6	1.6	0.8	0.8	0.7	0.1	Decreased, 2009-2021	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.

<sup>8</sup>Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

White* Tobacco	Use																	
					Healt	h Risk	Behavi	or and	Percen	itages						Linear Change $^{\dagger}$	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991 19	993 19	995 1	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDAYC he survey		ercenta	ge of	students	s who c	urrently	smoke	d cigare	ettes dai	ily (on a	all 30 da	iys duri	ng the 3	30 days 1	before	1		
									1.8	1.7	1.2	0.7	0.7	0.7	0.1	Decreased, 2009-2021	No quadratic change	No change
QN21: Pe	ercentag	ge of st	tudent	s who e	ver use	d an ele	ctronic	vapor p	roduct									
												20.9	15.1	32.5	24.5	Increased, 2015-2021	Not available <sup>¶</sup>	Decreased
QN22: Pe ens. e-cis	igars, e-l	hookał	ns, hoc						por pro	duct (in	cluding							
	e 30 day	s bero	re the			mous [s	uch as .	JUUL, S	SMOK,									
	e 30 day	s bero	re the			mous (s	uch as .	JUUL, S	ŚMŌK,					least 1 d		Increased, 2015-2021	Not available	Decreased
QNFREV during the	P: Perc	centage	e of stu	survey)	who cur					, Suorin	, Vuse,	and blu 11.6	], on at 3.9	least 1 d	lay 11.4	,	Not available	Decreased

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>8</sup>Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Kentucky Middle School Survey

White <sup>:</sup> Tobac																		
					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDA days be			U	studen	ts who o	currently	y used e	electron	ic vapor	r produc	cts daily	v (on all	30 day	s during	the 30			
												1.0	0.2	0.9	1.7	No linear change	Not available <sup>¶</sup>	No change
				ents who survey		ntly smo	ked cig	arettes	or used o	electror	nic vapo	or produ	icts (on	at least	1 day			
-		-		-								13.6	5.3	17.7	10.3	No linear change	Not available	Decreased
dissolv	able to	bacco p	roducts	[such a	s Coper	y used s nhagen, ys before	Grizzly	, Skoal		0		,	1,	,	vapor			
													2.7	3.8	1.8	No linear change	Not available	Decreased

# Kentucky Middle School Survey

Trend Analysis Report

White Tobac	* co Use																	
					Heal	th Risk	Behavi	ior and	Perce	ntages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
snus, c	or dissol	vable to	obacco j		s [such a	as Cope	nhagen	, Grizzl	ly, Sko	al, or Ĉ	iently (c amel Sn yey)				dip,			
													0.4	0.7	0.3	No linear change	Not available <sup>¶</sup>	No change
or diss	olvable	tobacco	o produ		h as Coj	penhage	en, Griz	zly, Sko	oal, or		ily (chev Snus], n					No linear change	Not available	No change
															0.2	i to inten enunge		
	Percer days be				currentl	y smoke	ed cigar	s (cigar	s, ciga	rillos, o	r little c	igars, or	at least	1 day c	luring			
									6.4	5.4	3.7	4.6	1.9	3.3	1.5	Decreased,	No quadratic change	Decrease

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

<sup>8</sup>Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

White* Tobacco Use																	
				Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QNTB4: Per apor produc									or used	l smoke	eless toł	acco or	electro	nic			
												6.6	18.5	11.6	Increased, 2017-2021	Not available <sup>¶</sup>	Decreased
QNTB3: Per lay during th					tly smo	ked cig	arettes o	or cigars	or used	l smoke	eless toł	acco (o	n at leas	st 1			
												5.2	7.3	3.9	No linear change	Not available	Decreased
NFRCGR:						moked	cigars f	frequent	ly (ciga	rs, ciga	rillos, o	r little c	igars, o	n 20	·		
or more days	-																
or more days	-							0.5	0.6	0.5	0.5	0.4	0.5	0.2	No linear change	No quadratic change	No change
or more days QNDAYCGH lays during t					currentl	y smoke	ed cigar								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.

<sup>8</sup>Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Kentucky Middle School Survey

neon	ol and (	Other I	Orug Us	se			<b></b>		n							<b>I</b> : (1) <sup>†</sup>		
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN25	Perce	ntage of	f studen	ts who	ever dra	nk alco	nol (oth	er than a	a few si	ips)								
									31.4	32.1	24.7	25.4	17.3	21.7	19.9	Decreased, 2009-2021	No quadratic change	No change
										-					-			
ON26	Perce	ntage of	f studen	ts who	drank al	cohol fo	or the fi	rst time	before	age 11	vears (o	ther that	n a few	sips)				
QN26	Perce	ntage of	f studen	ts who	drank al	cohol fo	or the fi	rst time		-				-	10.9	Desmand	Na ana hasia ahay ay	Na sherra
QN26	Perce	ntage of	f studen	ts who	drank al	cohol fo	or the fi	rst time	before 13.3	age 11 12.7	years (o 11.4	ther tha 9.9	n a few 7.0	sips) 11.0	10.8	Decreased, 2009-2021	No quadratic change	No change
-			f studen f studen					rst time		-				-	10.8		No quadratic change	No change
-								rst time		-				-	10.8 5.2		No quadratic change No quadratic change	No change Decreased
QN27	Perce	ntage of	f studen	ts who	ever use	d mariji	uana	first time	13.3 9.2	12.7 8.1	11.4 7.8	9.9	7.0	11.0		2009-2021 Decreased,		

# Kentucky Middle School Survey

Trend Analysis Report

White Alcoh	* ol and (	Other I	Drug Us	se	Hool	th Risk	Bohovi	or and	Dorcon	tagos						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from
					iicai	III KISK	Denavi	or and	I ei cen	lages						Linear Change	Quauratic Change	2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	ow a do										a doctor xycontii				rently			
													4.1	8.4	7.2	Increased, 2017-2021	Not available <sup>¶</sup>	No change
QN30	: Perce	ntage of	fstuden	ts who e	ever use	d cocai	ne (any	form of	cocain	e, inclu	ding pov	wder, c	rack, or	freebas	e)			
									3.8	3.2	2.5	2.5	2.1	1.9	1.1	Decreased, 2009-2021	No quadratic change	No change
	: Percentints or s	-			ever use	d inhala	ants (sni	ffed glu	ie, breat	hed the	conten	ts of sp	ray cans	, or inh	aled			
										10.9	7.8	6.9	5.7	7.2	6.0	Decreased, 2011-2021	Decreased, 2011-2015 No change, 2015-2021	No change

<sup>8</sup>Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

White Sexua	*   Behav	iors																
					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN32:	Percer	ntage of	studen	ts who e	ever had	l sexual	interco	urse		:		-	:					
									16.2	13.0	8.9	8.7	5.1	6.6	4.4	Decreased, 2009-2021	No quadratic change	No change
QN33:	Percer	ntage of	f studen	ts who l	had sexu	ual inter	course	for the f	ïrst tim	e before	e age 11	years						
									3.9	2.6	2.1	2.3	1.6	1.2	1.5	Decreased, 2009-2021	No quadratic change	No change
QN34:	Percer	ntage of	studen	ts who e	ever had	l sexual	interco	urse wit	th three	or more	e persor	is				·		
									4.6	3.9	2.5	2.5	1.3	1.7	0.4	Decreased, 2009-2021	No quadratic change	Decreased
	Percer interco		fstuden	ts who i	used a c	ondom	during	last sexu	al inter	course	(among	student	s who e	ver had				
									70.3	65.4	71.0	52.7	51.7	62.6	55.7	Decreased,	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.

<sup>§</sup>Based on t-test analysis, p < 0.05.

# Kentucky Middle School Survey

		-gemen	t unu L	ictai y	Behavi Heal		Behavi	ior and	Percen	ntages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from
1001	1002	1005	1007	1000	2001	2002	2005	2007	2000	2011	2012	2015	2017	2010	2021	-		2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN36	Percer	ntage of	f studen	ts who	describe	ed them	selves as	s slightl	y or ve	ry overv	weight			:		:		
									28.3	29.1	28.9	30.4	27.6	32.5	33.8	Increased, 2009-2021	No quadratic change	No change
QN37	Percer	ntage of	fstuden	ts who	were try	ying to 1	ose weig	ght										
									47.8	50.9	49.8	47.1	45.9	49.4	47.1	No linear change	No quadratic change	No change
QN38	Percer	ntage of	f studen	ts who	did not	eat brea	kfast (di	uring th	e 7 day	s before	e the sur	rvey)		-				
									12.7	10.9	9.9	10.9	8.4	12.5	16.7	No linear change	Decreased, 2009-2017 Increased, 2017-2021	Increased
QNBK	7DAY	: Perce	ntage of	f studen	its who	ate brea	kfast on	all 7 da	ays (du	ring the	7 days	before t	he surve	ey)				
									39.1	40.1	43.8	44.1	46.2	41.4	35.2	No linear change	Increased, 2009-2017 Decreased, 2017-2021	Decreased

# Kentucky Middle School Survey

White Physic	* cal Acti	vity																
					Healt	th Risk	Behavi	or and P	ercen	itages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
of phy		tivity th						at least 60 them brea										
								:	55.3	53.0	55.1	47.5	54.4	44.2	52.3	Decreased, 2009-2021	No quadratic change	Increased
day (ir	n any ki	nd of pl		activity				ate in at le art rate and										_
									8.6	11.2	10.8	12.1	10.7	13.5	10.6	Increased, 2009-2021	No quadratic change	No change
kind o		al activ						active at nade then										
								:	34.2	32.0	31.5	27.4	28.3	22.8	30.5	Decreased, 2009-2021	Decreased, 2009-2017 No change, 2017-2021	Increased

# Kentucky Middle School Survey

Trend Analysis Report

White <sup>s</sup> Physic		vity																
					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change $^{\dagger}$	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
	Percer hey we			ts who a	attended	l physic	al educa	ation (P	E) class	ses on 1	or more	e days (	in an av	verage w	veek	1		
			ŗ						44.8	45.9	47.5	50.8	36.4	40.3	40.0	No linear change	No quadratic change	No change
QNDL when t				tudents	who att	ended p	hysical	educati	on (PE) 35.2	classes 31.8		-	in an av 18.5	-	veek 19.9	Decreased, 2009-2021	No quadratic change	Decreased
						on at lea		ports tea	am (cou	inting a	ny team	ns run b	y their s	school o	r			
	• •		C					•	59.5	59.0	62.6	59.1	64.3	54.9	51.4	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	No change
					nad a co le surve		n from	playing	a sport	or bein	g physio	cally ac	tive (on	e or mo	re			
													12.1	17.9	15.1	Increased, 2017-2021	Not available <sup>¶</sup>	No change

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

White Other					Healt	th Risk	Behavi	or and	Percer	ntages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN45:	Percei	ntage of	student	ts who g	got 8 or	more h	ours of a	sleep (o	on an av	erage so	chool ni	ght) 49.6	53.7	45.8	41.3	Decreased, 2015-2021	Not available¶	No change
	the sur		student	ts who ı	isually o	did not :	sleep in	their pa	arent's o	or guard	lian's ho	me (dur	ing the 2.5	30 days 1.9	2.1	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

White <sup>s</sup> Site-A																		
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
												wanting the surv		such as				
												17.2	16.3	19.6	22.5	Increased, 2015-2021	Not available <sup>¶</sup>	No change
QN48: the sur		ntage of	studen	ts who s	smoked	cigarett	es on so	chool pr	operty	(on at le	east 1 d	ay durin	g the 30	) days b	efore			
												1.9	1.0	2.4	1.0	No linear change	Not available	Decreased
				ts who of survey		y used a	n electr	onic va	por pro	duct on	school	property	y (on at	least 1	day			
-		-												6.1	4.6	No linear change	Not available	No change
QN50:	Perce	ntage of	studen	ts who l	had oral	sex						10.5						
											9.0	10.3	9.8	8.6	5.9	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.

# Kentucky Middle School Survey

**Trend Analysis Report** 

White Site-A					Healt	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
			student g the 7				bottle or	glass o	f plain	water (	counting	g tap, bo	ttled, a	nd unfla	vored			
													8.2	6.1	5.5	Decreased, 2017-2021	Not available <sup>¶</sup>	No change
							me of th physical				s provid	e short j	ohysica	l activit	y			
														22.2	32.4	Increased, 2019-2021	Not available	Increased
QN53:	Percer	ntage of	student	s who h	nave eve	er been	told by a	a doctor	r or a nu	urse tha	t they ha	ave asth	ma	<u>.</u>		<u> </u>		
									23.1	21.7	18.9	19.7	17.7	19.3	15.4	Decreased, 2009-2021	No quadratic change	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

White* Site-Added																	
				Healt	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-	Not available <sup>¶</sup> No change, 2009-2017 Decreased, 2017-2021	
QN54: Perce before the sur							s of sch	iool bec	cause of	their as	sthma (c	luring t	he 30 da	iys		e Not available <sup>¶</sup> No change, 2009-2017 Decreased, 2017-2021 No quadratic change	
													15.9	13.5	No linear change	Not available <sup>¶</sup>	No change
QN55: Perce	ntage of	fstuden	ts who t	brushed	their tee	eth on a	ll 7 days	s (durir 73.9	ng the 7 71.5	days be 72.5	efore the	e survey 71.8	<sup>(</sup> ) 67.8	65.2	Decreased, 2009-2021		No change
QN56: Perce	ntage of	fstuden	ts who f	flossed t	heir tee	th on all	17 days	(during	g the 7 o	lays bef	fore the	survey)					
								23.1	20.7	21.3	20.1	17.3	18.3	20.7	Decreased, 2009-2021	No quadratic change	No change
QN57: Perce problems	ntage of	fstuden	ts who c	do not h	ave an a	adult in	their life	e that th	ney trus	t and ca	n talk to	o about	serious				
										11.6	13.2	9.0	11.2	15.3	No linear change	Not available	Increased

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

White Site-A					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
				ts who r whom t		l their pa ll be	arents o	r other	adults ir	n their f	amily n	ost of t	he time	or alwa	iys ask			
											75.4	74.7	78.3	71.5	68.5	Decreased, 2013-2021	Not available <sup>¶</sup>	No change
		ntage of a prob		ts who r	reported	there is	s at leas	t one te	acher or	other a	adult in	their scl	nool tha	t they c	an talk	· · · · · · · · · · · · · · · · · · ·		
														67.8	66.4	No linear change	Not available	No change
-			0			drank a during		0			one or m	ore tim	es per d	ay (cou	nting			
													66.2	61.4	64.8	No linear change	Not available	No change

# Kentucky Middle School Survey

White Site-A					Healt	th Risk	Behavi	or and	Percer	ntages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
	ATER2: ottled, ar										wo or n	ore tim	es per d 58.8	ay (cou 53.9	nting 57.5	No linear change	Not available <sup>¶</sup>	No change
ONW	ATER3:	Percer	ntage of	student	ts who d	drank a	bottle or	r glass	of plain	water t	hree or	more tir	nes per	day (co	ounting			
-	ottled, ar		0					0					Ĩ		U			
													45.7	38.8	43.9	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Black Injury	* v and V	iolence																
					Heal	th Risk	. Behavi	ior and P	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN6:	Percent	age of	students	s who ra	arely or	never w	vore a bi	icycle hel	met (a	among s	students	who ha	d ridde	n a bicy	cle)			
									93.3	92.7	90.5	88.5	86.2	96.7	81.0	Decreased, 2009-2021	No quadratic change	Decreased
					arely or eboard)		vore a he	elmet who	en roll	lerbladi	ng or sk	ateboar	ding (ar	nong sti	udents			
									89.0	91.2	90.2	87.1	85.4	90.1	82.7	No linear change	No quadratic change	No change
QN8:	Percent	age of	students	s who di	id not al	lways w	vear a se	at belt (w	hen ri	iding in	a car di	iven by	someo	ne else)				
									56.3	65.1	56.0	53.6	45.0	53.1	44.2	Decreased, 2009-2021	No quadratic change	No change
QN9:	Percent	age of	students	s who ev	ver rode	with a	driver w	vho had b	een di	rinking	alcohol	(in a ca	ur)					
									34.1	21.2	22.3	19.4	12.1	21.9	17.5	Decreased,	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.

<sup>§</sup>Based on t-test analysis, p < 0.05.

# Kentucky Middle School Survey

Black <sup>:</sup> Injury		iolence																
					Healt	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN10:	Perce	ntage of	fstuden	ts who	were eve	er in a p	hysical	fight		-	-	i	:			:		
									73.1	64.7	67.1	72.9	60.8	67.4	57.3	Decreased, 2009-2021	No quadratic change	No change
QN12:	Perce	ntage of	fstuden	ts who	were eve	er bullie	d on sch	hool pro	operty				•					
									31.5	34.6	38.1	32.7	42.3	31.3	21.7	No linear change	No change, 2009-2017 Decreased, 2017-2021	No change
					were eve media)	er electro	onically	/ bullied	l (coun	ting bein	ng bulli	ed throu	igh text	ing,				
										15.6	18.3	11.6	20.4	21.8	19.8	No linear change	No quadratic change	No change
QN14:	Perce	ntage of	studen	ts who o	ever seri	iously th	nought a	ıbout ki	lling th	emselve	es		·				-	
		J				J	5		19.1	21.2	15.5	21.8	17.1	21.8	23.4	No linear change	No quadratic change	No change

# Kentucky Middle School Survey

Black Injury	* y and V	iolence				4			D									
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN15	: Percer	ntage of	studen	ts who e	ever ma	de a pla	n about	how th	ey woul	ld kill tl	hemselv	res			-			
									10.3	9.7	6.7	17.7	9.6	13.8	18.4	Increased, 2009-2021	No quadratic change	No change
QN16	: Percer	ntage of	studen	ts who e	ever trie	ed to kil	l themse	elves										
									11.4	8.7	6.9	9.5	5.7	8.3	10.8	No linear change	No quadratic change	No change

# Kentucky Middle School Survey

Trend Analysis Report

Black* Tobac	* co Use																	
					Healt	th Risk	Behavi	ior and	Percer	ntages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN17:	Percer	ntage of	studen	ts who e	ever trie	d cigare	ette smo	oking (e	ven one	e or two	puffs)			:	:			
									36.7	23.3	28.8	28.7	9.4	14.5	13.1	Decreased, 2009-2021	No quadratic change	No change
QN18: puffs)	Percer	ntage of	studen	ts who t	ried cig	arette si	moking	for the	first tin	ne befo	re age 1	1 years	(even o	ne or tw	/0			
													2.9	7.5	10.5	Increased, 2017-2021	Not available <sup>¶</sup>	No change
QN19: survey		ntage of	studen	ts who c	currently	y smoke	d cigar	ettes (or	n at leas	st 1 day	during	the 30 d	lays bef	ore the				
									5.3	4.6	5.3	6.7	1.8	3.0	1.3	Decreased, 2009-2021	No quadratic change	No change
	CIG: P efore th			udents v	who cur	rently s	moked o	cigarette	es frequ	ently (	on 20 or	more d	ays dur	ing the 2	30			

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

Trend Analysis Report

Black* Tobac	∗ co Use																	
					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change $^{\dagger}$	Quadratic Change $^{\dagger}$	Change from 2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QNDA the sur		Percer	ntage of	student	s who c	currently	/ smoke	d cigare	ttes dai	ly (on	all 30 da	ays duri	ng the 3	0 days l	before			
									1.7	0.9	0.5	0.0	0.0	0.0	0.0	Not available	Not available <sup>¶</sup>	Not available
QN21:	Percer	ntage of	f studen	ts who e	ever use	ed an ele	ectronic	vapor p	roduct			29.0	13.2	24.5	23.8	No linear change	Not available	No change
ens, e	-cigars	, e-hook	cahs, ho		ns, and			onic vaj JUUL, S										
												14.3	2.6	12.0	11.2	No linear change	Not available	No change
				udents survey		rrently u	ised ele	ctronic v	apor pi	roducts	freque	ntly (on	20 or m	ore day	s			

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

Black* Tobac	* co Use																	
					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDA days be				student	ts who c	currently	y used e	lectron	c vapor	produ	cts dail	y (on all	30 day	s during	the 30			
												0.0	0.0	1.7	3.8	Not available	Not available <sup>¶</sup>	No change
				ents who survey		tly smo	ked ciga	arettes o	or used o	electro	nic vap	or produ	cts (on	at least	1 day	·		
during	ule 50	aays be	iore the	survey	,							14.1	3.6	9.8	11.5	No linear change	Not available	No change
dissolv	able to	bacco p	roducts		s Coper	hagen,	Grizzly	, Skoal,				snuff, d counting			vapor 7.0	No linear change	Not available	No change
													0.7	1.0	7.0	No micar change		No change

# Kentucky Middle School Survey

Trend Analysis Report

Black Tobac	* co Use																	
					Heal	th Risk	Behavi	ior and	Percer	itages						Linear Change $^{\dagger}$	Quadratic Change <sup>†</sup>	Change from 2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
snus, o		vable to	bacco j	products	s [such a	as Cope	nhagen	, Grizzl	y, Skoa	l, or Ĉa	ently (cl amel Sn ey)				dip,			
													0.0	0.0	3.5	Not available	Not available <sup>¶</sup>	Not available
or diss	solvable	tobacco	o produ	cts [sucl	h as Coj	penhage	en, Griz	zly, Sko	oal, or C		ly (chev Snus], no							
vapor	product	s, on all	30 day	s during	g the 30	days be	efore the	e survey	y)				0.0	0.0	3.5	Not available	Not available	Not available
													0.0	0.0	5.5			
	: Percei days be				currently	y smoke	ed cigar	s (cigar	s, cigar	illos, o	r little ci	gars, on	at least	1 day o	luring			
									8.7	8.7	9.5	8.5	3.7	6.9	2.6	Decreased.	No quadratic change	

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Black* Tobacco Use																
			Healt	h Risk l	Behavio	or and	Percen	tages						Linear Change $^{\dagger}$	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
<b>1991 1993</b>	1995 1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNTB4: Percer vapor products (								or used	d smoke	eless tol	Dacco oi	electro	nic			
											6.0	10.6	14.5	No linear change	Not available <sup>¶</sup>	No change
QNTB3: Percer day during the 3				tly smok	ced ciga	rettes o	or cigars	or used	d smoke	eless tol	bacco (o	n at lea	st 1			
											4.2	6.9	8.6	No linear change	Not available	No change
QNFRCGR: Pe or more days du					moked	cigars f	requent	ly (ciga	ırs, ciga	rillos, c	or little c	igars, o	n 20			
					moked	cigars f	requent	ly (ciga 0.0	ırs, ciga 1.4	rillos, c 0.6	or little c	igars, o 0.0	n 20 0.0	Not available	Not available	Not available
	Percentage	days befo	ts who c	urvey)			1.1	0.0	1.4	0.6	0.0	0.0	0.0	Not available	Not available	Not available

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

Black* Alcoho		Other I	Orug Us	e														
					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN25:	Percer	ntage of	fstuden	ts who	ever dra	nk alcol	nol (oth	er than	a few si	ps)			-			-		
									39.7	27.7	34.1	27.6	14.8	30.9	14.3	Decreased, 2009-2021	No quadratic change	No change
QN26:	Percer	ntage of	fstuden	ts who	drank al	cohol fo	or the fi	rst time	before	age 11	years (o	other that	n a few	sips)				
									21.6	11.5	16.6	13.9	5.3	12.4	4.4	Decreased, 2009-2021	No quadratic change	No change
QN27:	Percer	ntage of	fstuden	ts who	ever use	d marij	Jana					-						
									14.4	13.4	18.0	11.1	9.6	15.0	8.1	No linear change	No quadratic change	No change
QN28:	Percer	ntage of	fstuden	ts who t	tried ma	rijuana	for the	first tim	e befor	e age 1	1 years	-		·				
									5.6	3.8	6.0	4.0	1.8	3.1	5.3	No linear change	No quadratic change	No change

# Kentucky Middle School Survey

					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	ow a do					k prescr ng drug									ently			
	,												4.6	14.3	17.1	Increased, 2017-2021	Not available <sup>¶</sup>	No chang
																2017-2021		
QN30	Perce	ntage of	f student	ts who e	ever use	d cocaiı	ne (any	form of	cocain	e, inclu	ding pov	wder, ci	ack, or	freebase	e)			
QN30	Perce	ntage of	f student	ts who e	ever use	d cocaiı	ne (any	form of	cocain 1.0	e, inclue 5.5	ding pov 3.6	vder, cr 1.9	cack, or 3.6	freebase	e) 2.5	No linear change	No quadratic change	No chang
QN31	Perce	ntage of		ts who e		d cocair d inhala			1.0	5.5	3.6	1.9	3.6	1.6	2.5		No quadratic change	No chang

# Kentucky Middle School Survey

Black Sexua	* l Behav	viors			Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN32	: Perce	ntage of	f studen	ts who e	ever had	l sexual	interco	urse	27.7	21.0	16.9	16.3	9.2	18.1	12.3	Decreased, 2009-2021	No quadratic change	No change
QN33	: Perce	ntage of	f studen	ts who l	had sex	ual inter	course	for the f	irst time 11.6	e before 7.9	e age 11 3.4	years 6.8	1.7	6.8	4.8	No linear change	No quadratic change	No change
QN34	: Perce	ntage of	f studen	ts who o	ever had	l sexual	interco	urse wit	h three 12.2	or more 8.1	e person 8.1	8.1	1.8	0.9	2.8	Decreased, 2009-2021	No quadratic change	No change

# Kentucky Middle School Survey

					Heal	th Risk	Behavi	or and	Percer	ntages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN36	: Perce	ntage of	studen	ts who	describe	ed them	selves as	s slightl	ly or ve	ry overv	weight		:	:		:		
									24.2	25.4	19.0	27.3	21.2	24.5	21.4	No linear change	No quadratic change	No change
QN37	: Perce	ntage of	studen	ts who	were try	ying to 1	ose weig	ght										
									43.1	40.1	47.5	51.6	45.0	42.3	41.5	No linear change	No quadratic change	No change
QN38	: Perce	ntage of	f studen	ts who	did not	eat brea	ıkfast (dı	uring th	ie 7 day	s before	e the sur	rvey)						
									19.0	12.4	14.3	6.0	16.8	11.0	18.7	No linear change	Decreased, 2009-2015 Increased, 2015-2021	No change
QNBI	K7DAY	: Perce	ntage of	f studen	its who	ate brea	kfast on	all 7 da	ays (du	ring the	7 days	before t	he surve	ey)	-			
									37.4	35.6	43.1	52.5	44.7	33.5	34.0	No linear change	Increased, 2009-2015 Decreased, 2015-2021	No change

# Kentucky Middle School Survey

Black <sup>*</sup> Physic	* al Acti	vity																
					Heal	th Risk	Behavi	ior and	Percei	ntages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
f phy		tivity th				ysically t rate an												
									53.7	45.0	56.6	47.4	48.0	39.0	44.1	Decreased, 2009-2021	No quadratic change	No change
ay (ir	any ki	nd of pl	nysical		that inc	did not p reased t												
									18.1	18.2	16.6	15.7	18.2	20.4	17.5	No linear change	No quadratic change	No change
kind of		al activ				were phy heart ra												
									36.6	29.4	37.5	34.6	28.6	20.0	30.5	Decreased, 2009-2021	No quadratic change	Increased

# Kentucky Middle School Survey

**Trend Analysis Report** 

Black* Physical A	Activity																
-				Healt	th Risk	Behavi	or and I	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991 19	93 1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN41: Pe when they			ts who a	attended	physica	al educa	ation (PE	) class	es on 1	or more	e days (	in an av	erage w	reek			
		,						49.0	47.2	46.5	49.7	42.0	35.6	48.1	No linear change	No quadratic change	No change
QNDLYP when they			tudents	who att	ended pl	hysical	educatio	on (PE)	classes	s on all :	5 days (	in an av	erage w	veek			
								34.3	30.8	25.6	34.0	25.9	26.6	30.6	No linear change	No quadratic change	No change
QN42: Pe community								m (cou	inting a	ny team	is run b	y their s	chool o	r			
								64.2	60.4	63.7	62.5	66.4	68.5	49.6	No linear change	No quadratic change	Decreased
QN43: Pe times duri						n from j	playing a	a sport	or bein	g physio	cally ac	tive (on	e or mo	re			
	C											24.2	13.8	28.2	No linear change	Not available <sup>¶</sup>	Increased

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

Black <sup>:</sup> Other					Healt	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change $^{\dagger}$	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN45:	: Perce	ntage of	f studen	ts who g	got 8 or	more h	ours of	sleep (o	on an av	erage so	chool ni	ght) 43.5	54.0	28.4	49.3	No linear change	Not available <sup>¶</sup>	Increased
	Perces the sur		fstuden	ts who u	isually o	did not	sleep in	their pa	arent's o	r guard	ian's ho	me (dur	ing the 5.0	30 days 2.5	9.1	No linear change	Not available	No change

# Kentucky Middle School Survey

Trend Analysis Report

Black Site-A																		
					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change $^{\dagger}$	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
						ething to the or mo								such as				
												13.0	12.0	17.1	17.1	No linear change	Not available <sup>¶</sup>	No change
		ntage of	f studen	ts who s	smoked	cigarett	es on sc	chool pr	operty	(on at le	ast 1 da	y durin	g the 30	) days b	efore			
the su	vey)											1.6	0.0	1.1	0.0	Not available	Not available	Not available
				ts who o survey		y used a	n electr	onic vaj	por pro	duct on	school	property	(on at	least 1 o	day			
														7.0	8.9	No linear change	Not available	No change
QN50	Perce	ntage of	f studen	ts who l	had oral	sex				-	147	160	10.2	10.4	10.0		NT / 111	
											14.7	16.3	10.3	19.4	10.9	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.

# Kentucky Middle School Survey

Black <sup>*</sup> Site-A																		
					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
						drink a l e survey		glass c	f plain	water (	counting	g tap, bo	ottled, a	nd unfla	avored			
													18.8	7.0	10.0	Decreased, 2017-2021	Not available <sup>¶</sup>	No change
						that song their					s provid	e short	physica	l activit	у			
														19.6	34.6	Increased, 2019-2021	Not available	Increased
QN53:	Percer	ntage of	studen	ts who ł	nave ev	er been	told by	a doctor	r or a nu	irse tha	t they h	ave asth	nma					
									27.6	27.3	26.3	30.1	27.9	24.9	15.6	No linear change	No quadratic change	No change

# Kentucky Middle School Survey

Trend Analysis Report

Black* Site-A																		
					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change $^{\dagger}$	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 §
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN55:	Percei	ntage of	studen	ts who l	brushed	their te	eth on a	ıll 7 day	s (durir	ng the 7	days be	fore the	e survey	7)				
									79.7	81.0	82.2	81.1	84.0	69.3	66.9	Decreased, 2009-2021	No change, 2009-2017 Decreased, 2017-2021	No change
QN56:	Percer	ntage of	studen	ts who f	flossed	their tee	th on al	17 days	(durin	g the 7 o	days bef	ore the	survey)	)				
									30.2	25.2	28.8	31.4	24.5	17.5	24.1	No linear change	No quadratic change	No change
QN57: problei		ntage of	studen	ts who d	do not h	ave an a	adult in	their lif	e that the	ney trus	t and ca	n talk to	o about	serious				_
											15.6	7.6	15.3	16.0	15.4	No linear change	Not available <sup>¶</sup>	No change
					reported they wil		arents o	r other a	adults in	n their f	âmily n	nost of t	he time	or alwa	ys ask			_
											68.7	65.3	79.2	76.1	59.9	No linear change	Not available	Decreased

\*Non-Hispanic. \*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

# Kentucky Middle School Survey

Black <sup>:</sup> Site-A																		
					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup><math>\dagger</math></sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
		ntage of a prob		ts who 1	reported	l there is	s at leas	t one te	acher or	other a	dult in	their scl	nool tha	t they c	an talk			
														59.6	65.1	No linear change	Not available <sup>¶</sup>	No change
-			0			drank a , during		0			one or m	ore tim			U	No linear change	Not available	No obengo
													55.9	59.3	59.0	No linear change	not available	No change
-			•			drank a , during		0	•		wo or n	nore tim	es per d	ay (cou	inting	·		
													49.9	51.5	53.0	No linear change	Not available	No change

# Kentucky Middle School Survey

Black Site-A					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2019-2021 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
	ATER3: ottled, ar										hree or	more tir	nes per	day (co	unting			
													41.1	41.0	44.0	No linear change	Not available <sup>¶</sup>	No change

# Kentucky Middle School Survey

Hispa Injury		iolence															
					Heal	th Risk	Behavi	or and Perce	entages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007 2009	2011	2013	2015	2017	2019	2021	-		
QN6:	Percent	tage of s	students	s who ra	rely or	never w	ore a bio	cycle helmet	(among	students	who ha	ad ridde	n a bicy	cle)			
								84.7	85.8	81.6	83.1	85.4	79.9	74.0	No linear change	No quadratic change	No change
								80.0					79.9	75.9	No linear change	No quadratic change	No change
QN8:	Percent	tage of s	students	who di	id not al	lways w	ear a sea	at belt (when	riding ii	n a car d	riven by	y someo	ne else)				
								61.6	56.6	45.6	45.7	38.8	42.2	38.5	Decreased, 2009-2021	No quadratic change	No change
QN9:	Percent	tage of s	students	who ev	ver rode	with a	driver w	ho had been	drinking	alcohol	(in a ca	ar)					
								24.5	27.1	30.6	22.3	13.2	16.8	16.4	Decreased, 2009-2021	No quadratic change	No change

### Kentucky Middle School Survey

**Trend Analysis Report** 

					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN10	Percer	ntage of	fstuden	ts who	were ev	er in a p	hysical	fight	-		-	-		-				
									55.3	51.8	60.3	52.9	42.4	54.1	39.9	Decreased, 2009-2021	No quadratic change	Decreased
QN12	Percer	ntage of	studen	ts who	were ev	er bullie	ed on sc	hool pr	operty	-						·		
									43.8	35.8	61.8	45.1	44.6	42.3	26.1	Decreased, 2009-2021	Increased, 2009-2013 Decreased, 2013-2021	Decreased
-	: Percer ram, Fa	•				er electi	onically	y bullie	d (coun	ting bei	ng bulli	ed throu	igh text	ing,				
										14.3	26.9	18.3	31.9	25.2	18.5	No linear change	Increased, 2011-2017 No change, 2017-2021	No change
QN14	Percei	ntage of	fstuden	ts who	ever ser	iously t	hought a	about ki	illing th	emselve	es							
									26.1	19.1	35.5	21.7	26.7	28.1	24.1	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.

Hispanic

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispa Injury	nic y and V	iolence							_							- · · ·		
					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN15	: Percer	ntage of	student	s who e	ever ma	de a pla	n about	how th	ey woul	d kill tl	nemselv	es						
									21.3	15.5	20.8	16.7	15.3	20.1	19.6	No linear change	No quadratic change	No change
QN16	: Percer	ntage of	student	ts who e	ever trie	ed to kill	l themse	elves	14.9	9.5	16.8	9.0	10.4	12.5	11.5	No linear change	No quadratic change	No change
									14.9	7.5	10.8	9.0	10.4	12.3	11.5	no meat 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 Middle School Survey

**Trend Analysis Report** 

Hispar Tobac	nic co Use																	
					Heal	th Risk	k Behav	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN17:	Perce	ntage of	f studen	ts who	ever trie	ed cigar	ette smo	oking (e	even one	or two	puffs)				-			
									39.4	30.5	29.7	25.7	14.0	20.7	10.5	Decreased, 2009-2021	No quadratic change	Decreased
	Perce	ntage of	f studen	ts who	tried cig	garette s	moking	g for the	first tim	ne befor	e age 1	1 years	(even or	ne or tw	0	·		
puffs)													7.9	11.7	7.8	No linear change	Not available <sup>§</sup>	No change
		ntage of	f studen	ts who	currentl	y smok	ed ciga	rettes (o	n at leas	t 1 day	during	the 30 d	lays bef	ore the				
survey	)								14.8	10.1	11.9	7.6	3.3	5.1	3.1	Decreased, 2009-2021	No quadratic change	No change
		Percenta le surve		udents	who cu	rrently s	smoked	cigarett	es frequ	ently (o	on 20 or	more d	ays duri	ing the 3	30			
									0.0	3.9	4.3	2.8	1.0	0.7	0.0	Not available	Not available	Not available
				-	-													

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

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispanic Tobacco Use																	
				Healt	th Risk	Behav	ior an	d Percei	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991 1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QNDAYCIG: the survey)	Percer	ntage of	student	s who c	currently	y smoke	ed ciga	rettes da	ily (on a	all 30 da	ays duri	ng the 3	0 days 1	before			
								0.0	3.3	3.3	2.0	0.0	0.7	0.0	Not available	Not available <sup>§</sup>	Not available
QN21: Percer	ntage of	studen	ts who e	ever use	d an ele	ectronic	vapor	product			28.6	18.9	35.2	19.0	No linear change	Not available	Decreased
QN22: Percer pens, e-cigars during the 30	, e-hook	ahs, ho	okah pe	ens, and													
											17.4	4.0	24.7	10.8	No linear change	Not available	Decreased
QNFREVP: I during the 30					rrently u	ised ele	ctronic	e vapor p	products	freque	ntly (on	20 or m	ore day	S			
											1.6	0.0	5.9	4.1	Not available	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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

					Heal	th Risk	Behavi	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
	YEVP: efore th			f studen	ts who	currently	y used e	electron	ic vapoi	r produ	cts daily	/ (on all	30 days	s during	the 30			
												0.7	0.0	5.3	3.4	Not available	Not available <sup>§</sup>	No change
				-			-											
				ents who survey		ntly smo	ked cig	arettes	or used	electro	nic vapo	or produ			-	No linear change	Not available	Decreased
						ntly smo	ked cig	arettes	or used	electroi	nic vapo	or produ 16.9	cts (on 4.9	at least 23.1	1 day 10.3	No linear change	Not available	Decreased
during QN23: dissolv	the 30 of the 30	days be	fore the	e survey	) currently s Coper	y used s	mokele Grizzly	ss tobac	cco (che	ewing to	obacco,	-	4.9 ip, snus	23.1	10.3	No linear change	Not available	Decreased

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispa Tobac	nic co Use																
					Heal	th Risk	Behavio	or and Per	centage	8					Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007 20	09 201	1 2013	2015	2017	2019	2021	-		
snus, o	or dissol	vable to	obacco	products	s [such	as Cope	nhagen,	okeless tob Grizzly, S days befor	koal, or	Camel Sn				dip,			
												0.6	2.7	0.0	Not available	Not available <sup>§</sup>	Not available
or diss	olvable	tobacc	o produ	cts [suc]	h as Co	penhage		nokeless to ly, Skoal, survey)							Not available	Not available	Not available
	Percent days be				currentl	y smoke	ed cigars	(cigars, ci	garillos,	or little c	igars, or	at leas	t 1 day o	during			
								13	8.2 8.2	2 8.5	9.5	3.9	5.5	2.2	Decreased, 2009-2021	No quadratic change	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispanic Tobacco Us	e																	
				Heal	th Risk	Behav	vior an	d Per	cent	ages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991 1993	1995	1997	1999	2001	2003	2005	200	7 20	09	2011	2013	2015	2017	2019	2021	-		
QNTB4: Pervapor produce										or use	d smok	eless to	bacco o	r electro	nic			
													7.2	24.1	11.8	No linear change	Not available <sup>§</sup>	Decreased
QNTB3: Pe	rcentage	of stud			.1						1 1	1	1 (	. 1				
day during th					tty smo	oked cig	garette	s or ci	gars	or use	d smok	eless to	bacco (	on at lea	st I			
					itty smo	oked ci	garette	s or c1	gars	or use	d smok	eless to	6.3	on at lea	st 1 4.5	No linear change	Not available	No change
	he 30 day Percent	ys before	e the sur	rvey) who cu	rrently		_						6.3	10.0	4.5	No linear change	Not available	No change
day during th	he 30 day Percent	ys before	e the sur	rvey) who cu	rrently		_		uentl				6.3	10.0	4.5	No linear change Not available	Not available Not available	No change Not available
day during th	Percent s during R: Perce	vs before rage of s the 30 d entage o	tudents ays before f student	who cu ore the s	rrently survey)	smoke	d cigar	s frequ 3.	uentl	ly (ciga 0.6	ars, ciga 2.3	arillos, o 1.1	6.3 or little 0.0	10.0 cigars, c 2.6	4.5 n 20 0.0			

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

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

	nic ol and (	Other I	Orug Us	se	Healt	th Risk	Behavi	or and l	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from
										U								2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
QN25:	Percer	ntage of	studen	ts who e	ever dra	nk alcol	nol (oth	er than a	few si	ips)			-					
									34.1	42.6	38.7	26.4	18.0	28.2	21.8	Decreased, 2009-2021	No quadratic change	No change
QN26:	Percer	ntage of	studen	ts who a	lrank al	cohol fo	or the fir	rst time l	before	age 11	years (o	ther tha	n a few	sips)		· · · · · · · · ·		
									21.0	21.1	19.3	14.2	0.0				<b>X 1 1</b>	
													9.9	14.0	11.2	No linear change	No quadratic change	No change
QN27:	Percer	ntage of	studen	ts who e	ever use	d mariju	iana					-	9.9	14.0	11.2	No linear change	No quadratic change	No change
QN27:	Percer	ntage of	student	ts who e	ever use	d mariju	iana		12.9	13.4	19.2		7.6	14.0	7.0	No linear change	No quadratic change	No change Decreased
								first time										

# Kentucky Middle School Survey

**Trend Analysis Report** 

					Healt	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	ow a do						ription p gs such a								rently			
													7.8	10.0	0 0	No linear change	Not available <sup>§</sup>	No shanca
													7.8	10.0	8.8	No inical change	not available"	no change
QN30	Percer	ntage of	f studen	ts who e	ever use	d cocai	ne (any	form of	cocain	e, inclu	ding po	wder, ci				No mea change		No change
QN30	: Percer	ntage of	f studen	ts who e	ever use	ed cocai	ne (any	form of	cocain 4.7	e, inclu 8.7	ding po 6.1	wder, cr 6.2				No linear change	Not available	No change
QN31	: Percer	ntage of		ts who e			ne (any ants (sni		4.7	8.7	6.1	6.2	rack, or 3.5	freebas	e) 4.8			

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispa Sexua	nic I Beha	viors																
					Heal	th Risk	Behavi	ior and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN32	: Perce	ntage of	fstuden	ts who e	ever had	l sexual	interco	urse										
									16.5	10.7	22.3	13.7	4.8	14.5	7.9	Decreased, 2009-2021	No quadratic change	No change
QN33	: Perce	ntage o	f studen	ts who l	nad sexu	ual inter	rcourse	for the t	first tim	e before	e age 11	years				-		
									9.0	4.5	7.9	5.2	0.0	4.8	4.7	Not available	Not available <sup>§</sup>	No change
QN34	: Perce	ntage of	fstuden	ts who e	ever had	l sexual	interco	urse wi	th three	or more	e persor	IS	:					
									6.8	4.8	9.2	3.5	1.8	3.3	1.8	Decreased, 2009-2021	No quadratic change	No change

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

# Kentucky Middle School Survey

Hispa Weigł		agemen	t and E	Dietary	Behavi	ors												
					Heal	lth Risk	Behavi	or and	Percer	ntages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN36	: Perce	ntage of	f studen	ts who	describ	ed them	selves as	s slightl	y or ve	ry overv	weight			-				
									23.0	26.1	34.1	29.3	36.3	33.2	32.8	No linear change	No quadratic change	No change
QN37	: Perce	ntage of	f studen	ts who	were try	ying to l	ose weig	ght								<u>.                                    </u>		
									43.6	53.5	60.2	49.9	61.8	57.7	51.7	No linear change	No quadratic change	No change
QN38	: Perce	ntage of	f studen	ts who	did not	eat brea	ıkfast (dı	uring th	e 7 day	s before	e the su	rvey)			<del>.</del>			
									13.5	18.7	15.9	14.0	16.8	14.2	15.6	No linear change	No quadratic change	No change
QNBK	K7DAY	: Perce	ntage of	f studen	its who	ate brea	kfast on	all 7 da	ays (du	ring the	7 days	before t	he surve	ey)				
									33.4	41.0	37.7	54.2	52.6	38.5	35.5	No linear change	Increased, 2009-2015 Decreased, 2015-2021	No change

# Kentucky Middle School Survey

Physic	nic cal Acti	vity			Healt	th Risk	Behavio	r and Pei	cent	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from
					IIcun		Denu (10)	i unu i ci	cent	uges						Linear Change	Qualitatie Onlinge	2019-2021 <sup>+</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007 20	09	2011	2013	2015	2017	2019	2021			
of phy		tivity th						least 60 r nem breat										
berore	uie sui	vey)						51	1.1	49.3	41.9	53.7	46.9	49.3	48.6	No linear change	No quadratic change	No change
day (ii		nd of pl	nysical a	activity				in at least rate and							st 1			
	,	5		57				17	5.7	150								
-								10	)./	15.3	18.0	14.5	18.2	11.7	12.3	No linear change	No quadratic change	No change
kind o		al activ						ctive at le	ast 6	50 minu	ites per	day on	all 7 day	/s (in an	y	No linear change	No quadratic change	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispanic Physical		ity																
					Healt	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 *
1991 19	993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN41: P when they				ts who a	attended	l physic	al educa	ation (PI	E) class	es on 1	or more	e days (	in an av	erage w	reek			
-	-								42.3	39.9	39.8	44.6	34.3	33.7	36.4	No linear change	No quadratic change	No change
QNDLYF when they				tudents	who att	ended p	hysical	educatio	on (PE) 31.3	classes 24.6	s on all : 24.3	5 days ( 18.9	in an av 17.8	verage w 21.7	veek 13.4	Decreased, 2009-2021	No quadratic change	No change
QN42: P ommuni									am (cou	inting a	ny team	s run b	y their s	chool o	r			
									52.1	52.3	58.2	54.4	55.1	42.8	46.0	Decreased, 2009-2021	No quadratic change	No change
N/2. D	Percent	tage of	student	s who l	nad a co	nousio	n from	nlaving	a sport	or bein	g physic	cally ac	tive (on	e or mo	re			
times dur			onths b				ii ii oiii j	piaying			01 7	2	,					

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

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

Hispa Other					Heal	th Risk	Behav	ior and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN45:	: Perce	ntage of	fstuden	ts who g	got 8 or	more h	ours of	sleep (o	on an av	erage so	chool nig	ght) 53.6	53.8	42.5	46.1	No linear change	Not available <sup>§</sup>	No change
	: Percent the sur		fstudent	ts who i	usually	did not	sleep in	n their p	arent's c	or guard	ian's ho	me (dur	ing the 2.6	30 days 4.7	6.5	No linear change	Not available	No change

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispar Site-A																		
					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change*	Change from 2019-2021 *
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
							o purpo ore times							such as				
												19.7	19.0	29.3	25.2	No linear change	Not available <sup>§</sup>	No change
		ntage of	f studen	ts who s	smoked	cigarett	tes on sc	chool pr	operty	on at le	east 1 da	y durin	g the 30	days b	efore	. <u> </u>		
the sur	vey)											4.2	2.5	2.2	2.4	No linear change	Not available	No change
				ts who c survey		y used a	n electr	onic va	por pro	luct on	school	property	y (on at	least 1 o	lay			
														13.7	3.0	Decreased, 2019-2021	Not available	Decreased
QN50:	Perce	ntage of	f studen	ts who l	nad oral	sex				-	19.8	12.0	16.1	16.0	10.0	No lincor chongo	Not available	No change
											19.8	12.0	16.1	16.9	10.0	No linear change	INOL 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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispa Site-A																		
					Healt	h Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	: Percei ing wate							glass o	of plain	water (o	counting	g tap, bo	ottled, a	nd unfla	wored			
													17.0	11.0	12.7	No linear change	Not available <sup>§</sup>	No change
	: Percer during										s provide	e short j	physical	l activit	y	·		
														21.5	42.1	Increased, 2019-2021	Not available	Increased
QN53	: Percei	ntage of	student	ts who l	nave eve	er been t	old by a	a doctor	r or a ni	urse that	t they ha	ave asth	ma					
									22.3	18.8	28.5	21.6	16.5	26.3	17.6	No linear change	No quadratic change	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispar Site-A																		
					Heal	th Risk	Behavi	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	<b>Change from</b> 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
QN55:	Perce	ntage of	f studen	ts who l	brushed	their te	eth on a	ll 7 day	s (durir	ng the 7	days be	efore the	e survey	r)				
									67.5	78.7	69.6	70.0	75.5	72.8	74.4	No linear change	No quadratic change	No change
QN56:	Perce	ntage of	f studen	ts who f	flossed 1	their tee	th on al	l 7 days	(durin) 19.5	g the 7 o	days bei 22.1	fore the 25.4	survey) 16.6	25.8	25.2	No linear change	No quadratic change	No change
QN57: proble		ntage of	f studen	ts who o	do not h	ave an a	adult in	their lif	e that tl	hey trus	t and ca	ın talk to	o about	serious				
-											14.7	18.2	19.5	15.5	16.4	No linear change	Not available <sup>§</sup>	No change
					reported they wil		arents o	r other a	dults in	n their f	amily n	nost of t	he time	or alwa	ys ask			
											70.6	74.5	67.9	70.6	58.7	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.

<sup>§</sup>Not enough years of data to calculate.

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispa Site-A																		
					Heal	th Risk	Behavio	or and	Percen	itages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021			
	Percei ey have			ts who i	reported	l there is	s at least	one tea	acher o	r other a	dult in	their scl	hool tha	t they c	an talk			
														59.4	61.7	No linear change	Not available <sup>§</sup>	No change
							bottle or the 7 day				one or m	ore tim	es per d	ay (cou	nting	· · · · · · · · ·		
p, 00				P	5	, uuring		) : : : : : :		,ai ( e j )			59.0	62.1	60.9	No linear change	Not available	No change
							bottle or the 7 day				wo or m	ore tim	ies per d	ay (cou	nting			
													53.6	56.5	60.1	No linear change	Not available	No change

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

# Kentucky Middle School Survey

**Trend Analysis Report** 

Hispa Site-A					Heal	th Risk	Behavi	or and	Percen	tages						Linear Change <sup>*</sup>	Quadratic Change <sup>*</sup>	Change from 2019-2021 <sup>†</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	-		
							bottle o the 7 da				hree or	more tii	nes per	day (co	unting			
													41.5	45.7	50.5	No linear change	Not available <sup>§</sup>	No change

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