

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Injury and Violence	Health Risk Behavior and Percentages												Linear Change*	Quadratic Change*	Change from 2015-2017 †		
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car driven by someone else)			31.0	29.1	23.8	19.1	15.5	12.2	11.8	11.9		11.4	8.1	9.0	Decreased, 1995-2017	Decreased, 1995-2005 Decreased, 2005-2017	No change
QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey)			45.2	39.8	35.1	32.6	31.7	25.0	27.8	24.6		19.3	18.5	15.7	Decreased, 1995-2017	No quadratic change	No change
QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)												8.9	6.8	5.3	Decreased, 2013-2017	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,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Total  
Injury and Violence**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †												
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017														
QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)													46.0	47.0	46.4	No linear change	Not available <sup>§</sup>	No change									
QN12: Percentage of students who carried a weapon (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)													25.9	20.9	20.8	20.2	16.8	19.4	18.6	16.0	22.2	22.1	19.8	No linear change	Decreased, 1995-2003 Increased, 2003-2017	No change	
QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)													5.9	4.2											No linear change	Not available	No change
QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)													6.1	6.4											No linear change	Not available	No change

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**2017 YOUTH RISK BEHAVIOR SURVEY RESULTS**

**Missouri High School Survey**

**Trend Analysis Report**

**Total  
Injury and Violence**

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to)																
					7.2	9.3	7.3	10.3	8.1		10.2	8.4	10.2	No linear change	No quadratic change	No change
QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)																
											9.6	11.7	10.4	No linear change	Not available <sup>§</sup>	No change
QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)																
								22.8		25.2	21.4	23.3		No linear change	Not available	No change
QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)																
											16.6	19.4		No linear change	Not available	No change

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

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Trend Analysis Report

Total  
Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)																
				24.2	28.5	26.0	25.5	23.6	27.1		27.3	27.5	31.3	Increased, 1999-2017	No quadratic change	No change
QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)																
		24.5	22.2	15.6	19.2	16.8	15.3	14.8	15.4		14.2	16.2	20.9	Decreased, 1995-2017	Decreased, 1995-2013 Increased, 2013-2017	Increased
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)																
		19.6	15.6	12.4	14.3	12.9	11.0	10.1	11.3		12.1	13.4	15.5	Decreased, 1995-2017	Decreased, 1995-2007 Increased, 2007-2017	No change
QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)																
		9.0	9.1	5.2	8.4	7.3	7.1	7.9	6.4		6.9	9.8	8.6	No linear change	Decreased, 1995-1999 No change, 1999-2017	No change

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2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Total  
Injury and Violence

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from  
2015-2017 †

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

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

3.3	3.0	2.2	1.9	2.0	1.8	2.0	2.5			1.9	3.2	2.9	No linear change	Decreased, 1995-2001 No change, 2001-2017	No change
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## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Tobacco Use	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
	75.0	74.0	69.8	68.5	63.3	49.6	50.9	46.5			39.2	34.5	28.6	Decreased, 1995-2017	No quadratic change	No change
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
	39.8	40.3	32.8	30.3	24.8	21.3	23.8	18.9			14.9	11.0	9.2	Decreased, 1995-2017	No quadratic change	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
	20.9	22.3	16.3	18.0	13.6	10.8	11.5	6.8			5.5	4.2	2.7	Decreased, 1995-2017	No change, 1995-2001 Decreased, 2001-2017	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
	16.4	17.2	12.1	13.5	10.8	8.1	8.9	5.5			3.9	3.1	2.0	Decreased, 1995-2017	Decreased, 1995-2007 Decreased, 2007-2017	No change

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

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## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Tobacco Use													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																
												40.6	39.9	No linear change	Not available <sup>§</sup>	No change
QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																
												22.0	10.9	Decreased, 2015-2017	Not available	Decreased
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																
				19.4	16.4	13.3	14.7	15.0	13.5		13.3	12.1	9.2	Decreased, 1999-2017	No quadratic change	No change
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																
				38.0	34.5	28.4	26.7	28.0	24.2		21.0	17.6	13.2	Decreased, 1999-2017	No quadratic change	No change

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### Missouri High School Survey Trend Analysis Report

<b>Total</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
<b>Alcohol and Other Drug Use</b>																
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN41: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																
	39.9	33.6	33.5	30.0	25.4	24.2	20.9	20.4		19.5	17.3	18.4	Decreased, 1995-2017	Decreased, 1995-2007 No change, 2007-2017	No change	
QN42: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																
	55.7	51.4	49.9	47.6	49.2	40.8	44.4	39.3		35.6	34.5	32.0	Decreased, 1995-2017	No quadratic change	No change	
QN43: Percentage of students who usually got the alcohol they drank by someone giving it to them (during the 30 days before the survey, among students who currently drank alcohol)																
							37.6	41.0		34.0	39.9	42.4	No linear change	Not available <sup>§</sup>	No change	
QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																
	21.8	28.2	25.6	24.4	21.8	18.1	19.0	20.6		20.5	16.3	19.9	Decreased, 1995-2017	No quadratic change	No change	

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## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Sexual Behaviors	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015			
QN59: Percentage of students who ever had sexual intercourse	53.7	51.5	56.8	50.9	52.2	46.7	52.1	48.7			43.1	37.7	41.9	Decreased, 1995-2017	No quadratic change	No change
QN60: Percentage of students who had sexual intercourse for the first time before age 13 years	8.9	8.2	9.5	6.5	7.0	5.9	6.5	5.7			3.9	4.1	2.5	Decreased, 1995-2017	No quadratic change	No change
QN62: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)	39.1	36.7	41.6	38.8	38.4	33.2	40.6	35.5			32.4	27.5	32.3	Decreased, 1995-2017	No quadratic change	No change
QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)	29.1	26.5	25.4	25.5	27.1	23.0	21.9	23.3			20.7	20.4	15.5	Decreased, 1995-2017	No quadratic change	No change

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### Missouri High School Survey Trend Analysis Report

<b>Total Sexual Behaviors</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN64: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)																
	52.1	58.2	59.8	61.5	67.3	67.2	59.3	59.8			58.1	56.4	51.0	No linear change	Increased, 1995-2003 Decreased, 2003-2017	No change
QN65: Percentage of students who used birth control pills before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
	20.9	20.7	20.5	21.2	24.0	18.0	18.9	24.3			16.0	22.9	23.7	No linear change	No quadratic change	No change
QNIUDIMP: Percentage of students who used an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											3.5	4.6	3.9	No linear change	Not available <sup>§</sup>	No change
QNSHPARG: Percentage of students who used a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											4.8	5.6	6.7	No linear change	Not available	No change

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### Missouri High School Survey Trend Analysis Report

Total Sexual Behaviors													Linear Change*	Quadratic Change*	Change from 2015-2017 †											
Health Risk Behavior and Percentages																										
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017													
QNOTHHPL: Percentage of students who used birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													24.4	33.0	34.3	Increased, 2013-2017	Not available <sup>§</sup>	No change								
QNDUALBC: Percentage of students who used both a condom during last sexual intercourse and birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													9.5	12.7	12.0	No linear change	Not available	No change								
QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active)													13.8	14.0	11.1	11.2	5.9	9.9	10.9	8.4	16.2	12.1	12.7	No linear change	Decreased, 1995-2003 Increased, 2003-2017	No change

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<b>Total</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOWT: Percentage of students who were overweight ( $\geq$ 85th percentile but $<$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>																
				13.4	14.7	14.9	15.8	14.2	14.3		15.5	13.3	15.7	No linear change	No quadratic change	No change
QNOBESE: Percentage of students who had obesity ( $\geq$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>																
				8.9	12.7	12.1	13.8	11.9	14.3		14.9	13.1	16.6	Increased, 1999-2017	No quadratic change	No change
QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)																
				20.0	19.9	21.3	21.2	22.1	26.0		29.2	31.3	34.3	Increased, 1999-2017	No change, 1999-2005 Increased, 2005-2017	No change
QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)																
				16.6	19.6	15.7	14.5	13.1	13.3		14.3	12.8	13.8	Decreased, 1999-2017	No quadratic change	No change

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

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§Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

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<b>Total</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				6.6	7.1	7.0	6.0	5.4	7.1		7.6	6.6	7.9	No linear change	No quadratic change	No change
QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				58.3	56.8	54.3	57.5	56.9	55.9		55.0	53.6	50.5	Decreased, 1999-2017	No quadratic change	No change
QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				28.5	28.6	24.7	25.9	29.1	27.8		24.6	24.1	23.1	Decreased, 1999-2017	No quadratic change	No change
QNFR3: Percentage of students who ate fruit or drank 100% fruit juices three or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				19.8	19.0	15.6	16.2	18.1	17.8		14.6	13.7	12.4	Decreased, 1999-2017	No quadratic change	No change

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Weight Management and Dietary Behaviors																
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN72: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)																
				34.8	34.3	32.8	34.4	35.0	37.1		41.5	43.6	45.7	Increased, 1999-2017	No change, 1999-2007 Increased, 2007-2017	No change
QN73: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)																
				26.8	25.1	26.7	27.0	29.2	29.0		27.9	34.5	33.8	Increased, 1999-2017	No quadratic change	No change
QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)																
				57.6	55.9	55.9	53.6	56.7	53.0		54.5	54.8	58.4	No linear change	No change, 1999-2013 No change, 2013-2017	No change
QN75: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)																
				16.0	15.1	13.5	14.4	15.7	16.7		21.7	17.7	19.6	Increased, 1999-2017	No quadratic change	No change

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<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				6.2	4.4	4.2	4.7	6.6	6.7		6.3	6.1	8.4	Increased, 1999-2017	No quadratic change	No change
QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				61.6	63.4	62.2	62.4	59.5	62.5		58.5	58.0	55.4	Decreased, 1999-2017	No quadratic change	No change
QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				26.4	27.5	23.4	24.3	24.9	28.5		24.2	21.8	21.9	Decreased, 1999-2017	No quadratic change	No change
QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				12.1	12.5	9.3	11.0	11.3	14.3		11.5	10.5	9.6	No linear change	No quadratic change	No change

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<b>Total</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN77: Percentage of students who did not drink milk (during the 7 days before the survey)																
				19.6	15.3	16.8	15.0	18.3	16.7		18.1	20.8	26.0	Increased, 1999-2017	No change, 1999-2013 Increased, 2013-2017	Increased
QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				44.7	47.8	45.9	45.5	43.4	44.5		38.0	36.0	28.8	Decreased, 1999-2017	No change, 1999-2009 Decreased, 2009-2017	Decreased
QNMILK2: Percentage of students who drank two or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				32.5	35.8	30.7	30.6	28.5	29.9		23.7	22.1	16.2	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	Decreased
QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				17.8	20.2	15.8	15.9	14.3	15.8		11.3	10.4	6.8	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	Decreased

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

†Based on t-test analysis,  $p < 0.05$ .

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Total Weight Management and Dietary Behaviors														Linear Change*	Quadratic Change*	Change from 2015-2017 †
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)																
											14.2	15.5	14.6	No linear change	Not available <sup>§</sup>	No change
QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)																
											35.6	30.9	32.2	No linear change	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Physical Activity	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †							
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017						
QN79: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)												45.4	45.7	46.2	No linear change	Not available <sup>§</sup>	No change						
QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)												17.1	16.4	16.7	No linear change	Not available	No change						
QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)												27.2	26.0	28.6	No linear change	Not available	No change						
QN80: Percentage of students who watched television 3 or more hours per day (on an average school day)												40.2	38.1	32.4	33.9	29.6	32.4	25.6	21.2	21.1	Decreased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Total Physical Activity</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN81: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)														Increased, 2007-2017	Not available <sup>§</sup>	No change
QN82: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)														No linear change	No quadratic change	No change
QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)														No linear change	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Total Other	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017
	QN86: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)																
							69.2	69.9							No linear change	Not available <sup>§</sup>	No change
	QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)																
							2.8	2.3							No linear change	Not available	No change
	QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma																
							19.6	20.8	20.6		24.1	22.0	26.7		Increased, 2005-2017	No quadratic change	Increased
	QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)																
							27.4	20.3							Decreased, 2015-2017	Not available	Decreased

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015			
QN90: Percentage of students who rarely or never wore a bicycle helmet (during the 12 months before the survey, among students who had ridden a bicycle)																
	96.0	92.5	91.5	89.8	87.5	88.7	84.8	81.3			86.7	85.7	83.4	Decreased, 1995-2017	Decreased, 1995-2009 No change, 2009-2017	No change
QN91: Percentage of students who rarely or never wear a seat belt when driving (among students who drive a car)																
											10.6	7.0	8.9	No linear change	Not available <sup>§</sup>	No change
QN92: Percentage of students who talked on a cell phone while driving (on at least 1 day during the 30 days before the survey, among students who drove a car or other vehicle)																
											54.2	48.6	53.1	No linear change	Not available	No change
QN94: Percentage of students who were injured in a physical fight (one or more times during the 12 months before the survey; injuries had to be treated by a doctor or nurse)																
	4.5	4.4	3.9	3.5	3.6	4.0	5.1	3.8			9.3	6.3	4.8	Increased, 1995-2017	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017	
QN97: Percentage of students who tried to quit smoking cigarettes (among students who smoked cigarettes during the 12 months before the survey)																		
													49.3	50.8	No linear change	Not available <sup>§</sup>	No change	
QN100: Percentage of students who ever tried smoking cigars, cigarillos, or little cigars (even one or two puffs)																		
													23.8	24.7	16.3	Decreased, 2013-2017	Not available	Decreased
QN101: Percentage of students who have ever participated in a program to help them quit using tobacco (among students who have used tobacco)																		
													11.5	14.1	9.3	No linear change	Not available	No change
QN102: Percentage of students who responded that their school has special groups or classes for students who want to quit using tobacco																		
													4.0	2.8	4.1	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017	
QN103: Percentage of students who saw or heard ads about the dangers of cigarette smoking (on TV, the Internet or on the radio, on at least 1 day during the 30 days before the survey)																		
													78.7	77.8	No linear change	Not available <sup>§</sup>	No change	
QN104: Percentage of students who sometimes, most of the time, or always see ads for tobacco products when they use the Internet																		
													32.9	40.4	Increased, 2015-2017	Not available	Increased	
QN105: Percentage of students who live with someone that smokes cigarettes																		
													41.4	36.5	38.1	No linear change	Not available	No change
QN106: Percentage of students who were at home when someone was smoking tobacco products (on at least one day during the 7 days before the survey)																		
													28.7	30.9	No linear change	Not available	No change	
QN107: Percentage of students who rode in a vehicle where someone was smoking tobacco products (on at least one day during the 7 days before the survey)																		
													32.3	36.6	No linear change	Not available	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN108: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey )																	
												48.6	50.6	No linear change	Not available <sup>§</sup>	No change	
QN109: Percentage of students who breathed the smoke from someone who was smoking tobacco products in the place where they worked (on at least one day during the 7 days before the survey, among students who worked during the 7 days before the survey)																	
												21.1	27.1	No linear change	Not available	Increased	
QN110: Percentage of students who participated in any community activities to educate the public about the dangers of secondhand smoke (during the 12 months before the survey)																	
												8.6	6.4	6.6	No linear change	Not available	No change
QN111: Percentage of students who live in a home where smoking tobacco products is never allowed																	
												75.2	73.2	No linear change	Not available	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017
	QN112: Percentage of students who ride in or drive family vehicles in which smoking tobacco products is never allowed																
													69.2	66.5	No linear change	Not available <sup>§</sup>	No change
	QN113: Percentage of students who think people should never allow smoking inside their home																
													80.1	80.7	No linear change	Not available	No change
	QN114: Percentage of students who think people should never allow smoking in their vehicles																
													76.1	76.4	No linear change	Not available	No change
	QN115: Percentage of students who think employers should never allow smoking in indoor areas in places where people work																
													86.0	87.7	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages												Linear Change*	Quadratic Change*	Change from 2015-2017 †		
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN117: Percentage of students who did exercises to strengthen or tone their muscles on three or more days (such as push-ups, sit-ups, or weight lifting, during the 7 days before the survey)												50.4	51.2	47.6	No linear change	Not available <sup>§</sup>	No change
QN118: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have asthma								11.6	11.6		12.1	11.1	13.2	No linear change	Not available	No change	
QN119: Percentage of students who have ever been taught by a nurse or doctor how to take care of or manage their asthma (among students who have ever had asthma)												53.8	53.0	56.6	No linear change	Not available	No change
QN120: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)													13.3	13.0	No linear change	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Total Site-Added	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017
QN122: Percentage of students who ate dinner at home with at least one of their parents on four or more days (during the 7 days before the survey)																	
													61.9	58.5	Decreased, 2015-2017	Not available <sup>§</sup>	No change
QN123: Percentage of students who strongly agree or agree that their teachers really care about them and give them a lot of encouragement																	
													59.2	62.0	No linear change	Not available	No change
QN124: Percentage of students who most of the time or always get the kind of help they need (among students who report having felt sad, empty, hopeless, angry, or anxious)																	
													26.0	26.0	No linear change	Not available	No change
QN125: Percentage of students who participate in school activities one or more hours (such as sports, band, drama, or clubs, during an average week when they are in school)																	
													67.8	65.5	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Male Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car driven by someone else)																
		39.3	34.9	29.3	24.6	17.7	16.0	13.8	15.1		13.5	11.9	12.0	Decreased, 1995-2017	Decreased, 1995-2005 Decreased, 2005-2017	No change
QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey)																
		47.0	39.2	37.1	34.8	30.3	24.6	25.5	25.6		19.2	19.9	16.6	Decreased, 1995-2017	No quadratic change	No change
QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)																
											10.8	7.7	6.6	No linear change	Not available <sup>§</sup>	No change
QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)																
											46.5	46.7	44.5	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Male Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN12: Percentage of students who carried a weapon (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
		43.5	34.6	32.6	33.6	27.9	31.3	29.4	25.7		33.2	33.8	27.8	Decreased, 1995-2017	Decreased, 1995-2003 No change, 2003-2017	No change
QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
												9.1	5.5	Decreased, 2015-2017	Not available <sup>§</sup>	Decreased
QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)																
												8.0	7.3	No linear change	Not available	No change
QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to)																
					4.3	5.6	4.0	6.6	4.4		5.2	4.7	7.1	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,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Male  
Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)																
											7.4	12.9	8.8	No linear change	Not available <sup>§</sup>	No change
QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)																
								21.2		20.0	19.6	19.5		No linear change	Not available	No change
QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)																
											11.7	14.8		No linear change	Not available	No change
QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)																
				19.0	24.1	20.2	19.8	17.5	21.3		16.7	23.6	24.2	No linear change	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Male Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)																
		19.7	17.5	12.2	15.6	12.2	10.9	10.5	10.6		10.1	13.2	17.5	Decreased, 1995-2017	Decreased, 1995-2009 Increased, 2009-2017	No change
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)																
		16.8	12.3	11.1	10.5	9.9	8.1	7.4	8.6		7.5	11.0	14.2	Decreased, 1995-2017	Decreased, 1995-2007 Increased, 2007-2017	Increased
QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)																
		7.0	7.0	3.8	5.9	4.8	4.9	5.1	5.0		5.4	9.2	8.3	No linear change	Decreased, 1995-2009 Increased, 2009-2017	No change
QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)																
		3.0	2.5	1.4	1.5	1.4	1.4	1.2	1.6		1.0	3.1	3.2	No linear change	Decreased, 1995-2005 Increased, 2005-2017	No change

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

†Based on t-test analysis,  $p < 0.05$ .

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Male  
Tobacco Use

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
	75.4	74.3	73.2	68.4	61.9	49.9	50.2	46.8			42.0	37.9	27.2	Decreased, 1995-2017	No quadratic change	Decreased
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
	40.2	39.7	35.6	30.1	22.8	22.0	24.3	18.8			16.1	13.7	10.2	Decreased, 1995-2017	No quadratic change	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
	21.3	21.4	17.6	18.3	11.7	10.1	11.0	7.0			5.7	5.7	2.9	Decreased, 1995-2017	No quadratic change	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
	17.1	16.5	13.4	13.9	9.3	7.8	8.9	6.3			4.4	4.4	2.2	Decreased, 1995-2017	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Male Tobacco Use													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																
												46.7	40.4	No linear change	Not available <sup>§</sup>	No change
QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																
												27.7	13.6	Decreased, 2015-2017	Not available	Decreased
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																
				27.1	23.4	17.4	19.8	19.7	16.3		17.0	17.1	11.4	Decreased, 1999-2017	No quadratic change	Decreased
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																
				42.1	36.9	28.6	29.5	29.7	25.3		23.6	22.8	15.9	Decreased, 1999-2017	No quadratic change	Decreased

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																
<b>Alcohol and Other Drug Use</b>																
Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN41: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																
	46.8	38.4	39.3	34.3	28.6	28.5	22.9	25.8		22.6	20.5	19.9	Decreased, 1995-2017	Decreased, 1995-2007 Decreased, 2007-2017	No change	
QN42: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																
	57.4	49.8	53.3	49.2	49.7	41.2	44.4	39.5		33.8	34.8	27.5	Decreased, 1995-2017	No quadratic change	Decreased	
QN43: Percentage of students who usually got the alcohol they drank by someone giving it to them (during the 30 days before the survey, among students who currently drank alcohol)																
							30.6	36.5		28.8	35.4	36.6	No linear change	Not available <sup>§</sup>	No change	
QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																
	23.3	29.4	28.0	26.8	23.1	19.8	20.4	22.7		23.7	20.0	19.8	Decreased, 1995-2017	No quadratic change	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male Sexual Behaviors</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN59: Percentage of students who ever had sexual intercourse																
		55.7	50.4	57.4	52.2	51.5	46.3	50.9	50.2		45.4	41.2	41.2	Decreased, 1995-2017	No quadratic change	No change
QN60: Percentage of students who had sexual intercourse for the first time before age 13 years																
		13.6	11.9	14.0	10.0	9.6	8.4	9.7	7.9		5.4	5.3	3.6	Decreased, 1995-2017	No quadratic change	No change
QN62: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)																
		38.5	31.9	40.2	38.7	35.3	31.5	37.2	34.9		32.9	29.2	28.9	Decreased, 1995-2017	No quadratic change	No change
QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)																
		35.5	32.6	34.9	30.7	32.6	28.6	27.8	27.3		23.5	22.4	17.0	Decreased, 1995-2017	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male Sexual Behaviors</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>
<b>Health Risk Behavior and Percentages</b>																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN64: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)																
	60.7	65.8	65.7	66.5	78.8	73.1	65.8	68.7			64.3	59.8	53.0	No linear change	Increased, 1995-2003 Decreased, 2003-2017	No change
QN65: Percentage of students who used birth control pills before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
	15.6	12.2	14.8	14.2	16.7	11.6	13.9	21.7			14.5	18.8	18.9	No linear change	No quadratic change	No change
QNIUDIMP: Percentage of students who used an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											1.8	4.1	1.3	No linear change	Not available <sup>§</sup>	No change
QNSHPARG: Percentage of students who used a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											1.7	2.5	6.1	Increased, 2013-2017	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Male Sexual Behaviors													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOTHHPL: Percentage of students who used birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													No linear change	Not available <sup>§</sup>	No change	
						18.1	25.4	26.3								
QNDUALBC: Percentage of students who used both a condom during last sexual intercourse and birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													No linear change	Not available	No change	
						9.1	10.9	7.6								
QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active)													No linear change	Decreased, 1995-2003 Increased, 2003-2017	No change	
	12.3	13.4	9.0	11.5	4.1	10.4	11.3	8.0			13.5	13.0	9.8			

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOWT: Percentage of students who were overweight ( $\geq$ 85th percentile but $<$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>																
				13.2	17.0	14.9	15.9	14.9	14.7		14.7	14.3	15.2	No linear change	No quadratic change	No change
QNOBESE: Percentage of students who had obesity ( $\geq$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>																
				12.3	16.9	15.9	17.1	15.3	18.2		18.5	15.9	18.9	Increased, 1999-2017	No quadratic change	No change
QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)																
				20.5	19.1	20.3	21.5	21.8	27.1		27.6	28.1	30.0	Increased, 1999-2017	No quadratic change	No change
QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)																
				17.0	21.4	16.0	17.0	13.0	15.5		16.0	14.3	15.7	No linear change	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				8.0	8.0	8.6	7.1	5.1	8.6		8.5	7.4	8.4	No linear change	No quadratic change	No change
QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				59.3	58.7	59.4	57.0	57.0	54.0		57.2	55.1	53.9	Decreased, 1999-2017	No quadratic change	No change
QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				28.2	30.4	28.2	27.7	31.4	26.7		26.7	24.8	23.4	Decreased, 1999-2017	No change, 1999-2007 Decreased, 2007-2017	No change
QNFR3: Percentage of students who ate fruit or drank 100% fruit juices three or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				20.7	20.9	17.9	17.9	20.8	18.2		16.2	15.4	13.3	Decreased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
<b>1991</b>	<b>1993</b>	<b>1995</b>	<b>1997</b>	<b>1999</b>	<b>2001</b>	<b>2003</b>	<b>2005</b>	<b>2007</b>	<b>2009</b>	<b>2011</b>	<b>2013</b>	<b>2015</b>	<b>2017</b>			
QN72: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)																
				39.0	39.3	37.3	38.7	42.3	41.7		45.0	48.5	51.0	Increased, 1999-2017	No quadratic change	No change
QN73: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)																
				26.7	22.7	25.4	28.5	27.1	26.7		25.2	32.6	33.4	Increased, 1999-2017	No quadratic change	No change
QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)																
				57.2	55.9	56.6	52.6	56.7	52.9		51.7	52.8	57.1	No linear change	No quadratic change	No change
QN75: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)																
				16.9	17.4	17.1	16.5	16.8	19.6		21.6	18.9	21.8	Increased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
<b>1991</b>	<b>1993</b>	<b>1995</b>	<b>1997</b>	<b>1999</b>	<b>2001</b>	<b>2003</b>	<b>2005</b>	<b>2007</b>	<b>2009</b>	<b>2011</b>	<b>2013</b>	<b>2015</b>	<b>2017</b>			
QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				7.6	6.3	5.5	5.6	7.9	8.6		6.1	6.8	9.0	No linear change	No quadratic change	No change
QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				62.2	61.8	60.5	61.3	57.5	60.7		60.9	60.2	55.8	No linear change	No quadratic change	No change
QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				25.4	29.4	25.0	25.0	25.0	29.6		24.2	23.5	23.5	Decreased, 1999-2017	No quadratic change	No change
QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				12.0	13.9	10.4	12.3	10.8	16.3		10.7	12.1	11.0	No linear change	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																
<b>Weight Management and Dietary Behaviors</b>																
<b>Health Risk Behavior and Percentages</b>													<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN77: Percentage of students who did not drink milk (during the 7 days before the survey)																
				13.8	10.2	12.1	11.8	12.2	14.0		13.8	14.8	20.9	Increased, 1999-2017	No change, 1999-2013 Increased, 2013-2017	Increased
QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				56.4	58.1	55.1	50.1	51.7	52.1		45.2	44.8	35.1	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	Decreased
QNMILK2: Percentage of students who drank two or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				44.3	45.7	41.6	38.4	36.2	37.3		29.8	29.0	20.3	Decreased, 1999-2017	No quadratic change	Decreased
QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				25.8	27.4	23.5	21.4	19.2	20.2		16.0	13.8	8.5	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	Decreased

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

†Based on t-test analysis,  $p < 0.05$ .

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Male													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Weight Management and Dietary Behaviors																
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)																
											15.5	15.6	17.9	No linear change	Not available <sup>§</sup>	No change
QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey)																
											36.9	31.7	30.6	Decreased, 2013-2017	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

<b>Male</b>																													
<b>Physical Activity</b>																													
<b>Health Risk Behavior and Percentages</b>														<b>Linear Change*</b>	<b>Quadratic Change*</b>	<b>Change from 2015-2017 †</b>													
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017																
QN79: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)														54.2	51.9	52.7	No linear change			Not available <sup>§</sup>			No change						
QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)														14.2	13.5	15.5	No linear change			Not available			No change						
QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)														36.2	33.5	35.5	No linear change			Not available			No change						
QN80: Percentage of students who watched television 3 or more hours per day (on an average school day)														43.4	43.5	35.6	38.0	30.1	35.0	26.8	18.1	20.0	Decreased, 1999-2017			Decreased, 1999-2009 Decreased, 2009-2017			No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Male																
Physical Activity																
Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN81: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)																
							25.2	29.1			33.5	37.1	41.8	Increased, 2007-2017	Not available <sup>§</sup>	No change
QN82: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)																
	54.7	53.6	58.3	62.2	56.6	59.2	60.6	54.8			53.5	55.6	56.4	No linear change	No quadratic change	No change
QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)																
	38.9	31.4	24.9	33.9	37.7	36.6	30.6	40.4			37.0	28.2	32.3	No linear change	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Male Other	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017
	QN86: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)																
							65.4	67.5							No linear change	Not available <sup>§</sup>	No change
	QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)																
							3.8	2.5							No linear change	Not available	No change
	QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma																
				17.9	20.6	21.6			21.5	23.5	27.7				Increased, 2005-2017	No quadratic change	No change
	QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)																
							29.4	20.2							Decreased, 2015-2017	Not available	Decreased

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Male Site-Added													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN90: Percentage of students who rarely or never wore a bicycle helmet (during the 12 months before the survey, among students who had ridden a bicycle)																
		95.2	92.9	92.1	90.9	89.1	89.7	84.6	83.8		86.8	88.1	85.3	Decreased, 1995-2017	Decreased, 1995-2009 No change, 2009-2017	No change
QN91: Percentage of students who rarely or never wear a seat belt when driving (among students who drive a car)																
											13.3	10.2	12.1	No linear change	Not available <sup>§</sup>	No change
QN92: Percentage of students who talked on a cell phone while driving (on at least 1 day during the 30 days before the survey, among students who drove a car or other vehicle)																
											56.4	47.5	50.3	No linear change	Not available	No change
QN94: Percentage of students who were injured in a physical fight (one or more times during the 12 months before the survey; injuries had to be treated by a doctor or nurse)																
		6.3	6.3	5.3	4.3	4.5	4.8	5.4	4.6		11.2	8.7	6.3	Increased, 1995-2017	Decreased, 1995-2003 Increased, 2003-2017	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Male  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN97: Percentage of students who tried to quit smoking cigarettes (among students who smoked cigarettes during the 12 months before the survey)													46.1	46.8	No linear change	Not available <sup>§</sup>	No change	
QN100: Percentage of students who ever tried smoking cigars, cigarillos, or little cigars (even one or two puffs)													30.1	31.1	19.4	Decreased, 2013-2017	Not available	Decreased
QN101: Percentage of students who have ever participated in a program to help them quit using tobacco (among students who have used tobacco)													14.3	16.4	10.4	No linear change	Not available	No change
QN102: Percentage of students who responded that their school has special groups or classes for students who want to quit using tobacco													4.8	3.9	5.6	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Male  
Site-Added

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN103: Percentage of students who saw or heard ads about the dangers of cigarette smoking (on TV, the Internet or on the radio, on at least 1 day during the 30 days before the survey)													No linear change	Not available <sup>§</sup>	No change	
												76.3	75.3			
QN104: Percentage of students who sometimes, most of the time, or always see ads for tobacco products when they use the Internet													Increased, 2015-2017	Not available	Increased	
												32.0	38.6			
QN105: Percentage of students who live with someone that smokes cigarettes													No linear change	Not available	No change	
												40.1	39.3	36.3		
QN106: Percentage of students who were at home when someone was smoking tobacco products (on at least one day during the 7 days before the survey)													No linear change	Not available	No change	
												32.1	29.4			
QN107: Percentage of students who rode in a vehicle where someone was smoking tobacco products (on at least one day during the 7 days before the survey)													No linear change	Not available	No change	
												32.0	33.6			

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Male Site-Added														Linear Change*	Quadratic Change*	Change from 2015-2017 †
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN108: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey )																
												45.4	43.2	No linear change	Not available <sup>§</sup>	No change
QN109: Percentage of students who breathed the smoke from someone who was smoking tobacco products in the place where they worked (on at least one day during the 7 days before the survey, among students who worked during the 7 days before the survey)																
												27.0	29.1	No linear change	Not available	No change
QN110: Percentage of students who participated in any community activities to educate the public about the dangers of secondhand smoke (during the 12 months before the survey)																
											8.5	7.9	7.5	No linear change	Not available	No change
QN111: Percentage of students who live in a home where smoking tobacco products is never allowed																
												72.5	73.0	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Male  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN112: Percentage of students who ride in or drive family vehicles in which smoking tobacco products is never allowed													67.0	68.1	No linear change	Not available <sup>§</sup>	No change
QN113: Percentage of students who think people should never allow smoking inside their home													75.0	76.4	No linear change	Not available	No change
QN114: Percentage of students who think people should never allow smoking in their vehicles													71.6	73.8	No linear change	Not available	No change
QN115: Percentage of students who think employers should never allow smoking in indoor areas in places where people work													82.1	85.6	No linear change	Not available	Increased

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Male Site-Added													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN117: Percentage of students who did exercises to strengthen or tone their muscles on three or more days (such as push-ups, sit-ups, or weight lifting, during the 7 days before the survey)																
											57.7	59.3	55.0	No linear change	Not available <sup>§</sup>	No change
QN118: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have asthma																
							9.9	10.4		7.9	9.9	11.2		No linear change	Not available	No change
QN119: Percentage of students who have ever been taught by a nurse or doctor how to take care of or manage their asthma (among students who have ever had asthma)																
											47.3	49.9	48.3	No linear change	Not available	No change
QN120: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)																
												8.2	8.1	No linear change	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Male Site-Added													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
Health Risk Behavior and Percentages																	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN122: Percentage of students who ate dinner at home with at least one of their parents on four or more days (during the 7 days before the survey)													60.6	58.9	No linear change	Not available <sup>§</sup>	No change
QN123: Percentage of students who strongly agree or agree that their teachers really care about them and give them a lot of encouragement													56.0	65.3	Increased, 2015-2017	Not available	Increased
QN124: Percentage of students who most of the time or always get the kind of help they need (among students who report having felt sad, empty, hopeless, angry, or anxious)													22.8	20.9	No linear change	Not available	No change
QN125: Percentage of students who participate in school activities one or more hours (such as sports, band, drama, or clubs, during an average week when they are in school)													64.4	64.1	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car driven by someone else)																
		22.4	23.0	18.0	13.5	13.1	8.0	9.8	8.6		9.0	4.4	5.9	Decreased, 1995-2017	Decreased, 1995-2005 Decreased, 2005-2017	No change
QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey)																
		43.3	40.3	33.1	30.3	33.0	25.2	29.7	23.4		19.4	16.8	14.7	Decreased, 1995-2017	No quadratic change	No change
QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)																
											6.7	5.8	3.6	No linear change	Not available <sup>§</sup>	No change
QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)																
											44.9	47.5	47.7	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN12: Percentage of students who carried a weapon (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
		8.2	7.1	9.1	6.6	5.2	7.5	7.5	5.9		10.6	10.8	11.5	Increased, 1995-2017	No change, 1995-2009 Increased, 2009-2017	No change
QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
												2.9	2.6	No linear change	Not available <sup>§</sup>	No change
QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)																
												4.1	4.7	No linear change	Not available	No change
QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to)																
					10.2	13.0	10.8	14.0	12.0		15.4	11.9	13.3	No linear change	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Female  
Injury and Violence

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017						
QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)														No linear change	Not available <sup>§</sup>	No change			
											11.6	10.2	11.4						
QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)														No linear change	Not available	No change			
											24.5	30.4	22.9	27.0					
QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)														No linear change	Not available	No change			
											21.4	23.8							
QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)														Increased, 1999-2017	No quadratic change	Increased			
											29.8	33.3	32.1	31.6	29.5	33.2	38.4	31.3	38.3

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)																
		29.4	27.1	19.3	23.0	21.5	19.9	19.4	20.6		18.6	18.9	24.1	Decreased, 1995-2017	Decreased, 1995-1999 No change, 1999-2017	Increased
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)																
		22.4	19.0	14.0	18.4	15.9	14.0	12.9	14.2		16.4	15.8	16.6	Decreased, 1995-2017	Decreased, 1995-2007 No change, 2007-2017	No change
QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)																
		10.9	11.1	6.8	11.0	9.8	9.3	10.7	7.9		8.0	10.3	8.4	No linear change	No quadratic change	No change
QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)																
		3.5	3.5	3.1	2.3	2.7	2.3	2.9	3.3		2.8	3.2	2.6	No linear change	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Tobacco Use**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
	74.6	73.7	66.3	68.7	64.7	49.3	51.3	46.0			36.0	31.3	30.0	Decreased, 1995-2017	No quadratic change	No change
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
	39.4	40.8	30.1	30.4	26.9	20.5	23.2	19.1			13.2	8.1	8.1	Decreased, 1995-2017	Decreased, 1995-2009 Decreased, 2009-2017	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
	20.5	23.1	15.0	17.7	15.3	11.4	11.8	6.6			5.4	2.8	2.4	Decreased, 1995-2017	Decreased, 1995-2007 Decreased, 2007-2017	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
	15.7	17.8	10.8	13.0	12.3	8.5	8.7	4.8			3.4	1.8	1.8	Decreased, 1995-2017	No change, 1995-2003 Decreased, 2003-2017	No change

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

†Based on t-test analysis,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Tobacco Use**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †									
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017											
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])													35.0	39.5	No linear change	Not available <sup>§</sup>	No change							
QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)													16.5	7.9	Decreased, 2015-2017	Not available	Decreased							
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)													11.6	9.2	9.2	9.4	10.0	10.5	9.3	7.1	6.8	Decreased, 1999-2017	No quadratic change	No change
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)													33.7	32.1	28.3	23.8	26.1	23.0	17.7	12.2	10.4	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female

#### Alcohol and Other Drug Use

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN41: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																
		32.7	28.4	27.4	25.5	21.7	19.8	18.6	14.7		16.2	14.2	16.9	Decreased, 1995-2017	Decreased, 1995-2009 No change, 2009-2017	No change
QN42: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																
		53.9	53.0	46.5	46.1	48.5	40.4	44.1	39.1		37.4	34.3	36.1	Decreased, 1995-2017	No quadratic change	No change
QN43: Percentage of students who usually got the alcohol they drank by someone giving it to them (during the 30 days before the survey, among students who currently drank alcohol)																
								44.9	45.9		39.2	44.2	47.6	No linear change	Not available <sup>§</sup>	No change
QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																
		20.2	26.9	23.3	21.9	20.4	16.2	17.4	18.4		17.0	12.6	19.5	Decreased, 1995-2017	No quadratic change	Increased

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Female  
Sexual Behaviors

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN59: Percentage of students who ever had sexual intercourse																
		51.6	52.4	56.1	49.6	52.8	47.1	53.1	47.3		40.7	35.1	42.4	Decreased, 1995-2017	No quadratic change	No change
QN60: Percentage of students who had sexual intercourse for the first time before age 13 years																
		4.3	4.5	5.0	3.0	4.2	3.5	3.2	3.4		2.4	2.9	1.2	Decreased, 1995-2017	No quadratic change	No change
QN62: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)																
		39.9	41.2	42.9	38.9	41.6	34.7	43.7	36.3		31.9	26.1	35.6	Decreased, 1995-2017	No quadratic change	Increased
QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)																
		22.9	21.5	16.8	20.0	22.3	18.1	16.8	19.4		17.9	18.0	14.3	Decreased, 1995-2017	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female Sexual Behaviors

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN64: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)																
		43.8	52.9	54.4	56.4	56.9	61.5	53.8	51.1		51.8	53.5	49.5	No linear change	Increased, 1995-2001 No change, 2001-2017	No change
QN65: Percentage of students who used birth control pills before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
		25.9	26.8	26.2	27.9	30.5	23.7	23.2	27.0		17.6	27.1	27.4	No linear change	No quadratic change	No change
QNIUDIMP: Percentage of students who used an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											5.2	4.9	5.9	No linear change	Not available <sup>§</sup>	No change
QNSHPARG: Percentage of students who used a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											7.9	8.7	7.2	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Sexual Behaviors**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOTHHPL: Percentage of students who used birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													No linear change	Not available <sup>§</sup>	No change	
QNDUALBC: Percentage of students who used both a condom during last sexual intercourse and birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													No linear change	Not available	No change	
QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active)													No linear change	Decreased, 1995-2003 Increased, 2003-2017	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOWT: Percentage of students who were overweight ( $\geq$ 85th percentile but $<$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>																
				13.7	12.3	15.0	15.7	13.4	13.8		16.3	12.4	16.2	No linear change	No quadratic change	No change
QNOBESE: Percentage of students who had obesity ( $\geq$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>																
				5.3	8.3	8.2	10.6	8.5	10.4		11.1	10.3	14.4	Increased, 1999-2017	No quadratic change	No change
QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)																
				19.1	20.8	22.4	21.0	22.6	25.0		31.3	34.3	38.8	Increased, 1999-2017	No change, 1999-2007 Increased, 2007-2017	No change
QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)																
				16.1	17.9	15.5	11.9	13.3	11.0		12.2	11.3	11.8	Decreased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				4.9	6.3	5.2	5.0	5.8	5.5		6.8	5.7	7.4	No linear change	No quadratic change	No change
QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				57.4	54.6	49.0	57.6	56.6	57.9		52.4	52.1	47.0	Decreased, 1999-2017	No change, 1999-2009 Decreased, 2009-2017	No change
QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				28.6	26.6	21.2	23.6	26.8	29.0		22.7	23.4	22.6	No linear change	No quadratic change	No change
QNFR3: Percentage of students who ate fruit or drank 100% fruit juices three or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				18.8	17.1	13.3	14.2	15.4	17.2		13.2	12.2	11.1	Decreased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN72: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)													Increased, 1999-2017	No change, 1999-2007 Increased, 2007-2017	No change	
30.1	29.3	27.9	29.9	27.9	32.3	37.6	38.8	40.6								
QN73: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)													Increased, 1999-2017	No quadratic change	No change	
26.5	27.5	28.0	25.3	31.1	31.4	30.6	36.4	34.3								
QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)													No linear change	No quadratic change	No change	
57.9	55.8	55.5	54.7	56.9	53.2	57.4	57.2	59.7								
QN75: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)													Increased, 1999-2017	No quadratic change	No change	
14.6	12.8	9.6	12.0	14.6	13.7	21.7	16.1	17.3								

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

†Based on t-test analysis,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				4.2	2.6	2.5	3.6	5.3	4.7		6.3	5.5	7.7	Increased, 1999-2017	No quadratic change	No change
QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				61.2	64.8	64.0	63.6	61.6	64.2		56.3	56.1	54.9	Decreased, 1999-2017	No quadratic change	No change
QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				27.5	25.3	21.7	23.5	24.5	27.2		24.2	20.2	20.1	Decreased, 1999-2017	No quadratic change	No change
QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)																
				12.2	11.1	8.2	9.4	11.5	12.2		12.4	8.9	7.9	No linear change	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Female

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN77: Percentage of students who did not drink milk (during the 7 days before the survey)																
				25.4	20.5	21.6	18.2	24.6	19.5		22.8	26.3	30.8	Increased, 1999-2017	No change, 1999-2013 Increased, 2013-2017	No change
QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				33.0	37.5	36.3	40.7	34.9	36.7		30.5	28.1	22.5	Decreased, 1999-2017	No change, 1999-2009 Decreased, 2009-2017	No change
QNMILK2: Percentage of students who drank two or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				20.5	25.7	19.4	22.5	20.7	22.1		17.7	15.8	12.0	Decreased, 1999-2017	No change, 1999-2009 Decreased, 2009-2017	No change
QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				9.5	12.9	7.8	10.1	9.1	11.3		6.6	7.1	4.9	Decreased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Female

Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from  
2015-2017 †

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

QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)

12.9 15.5 11.3 No linear change Not available<sup>§</sup> Decreased

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

34.5 30.5 34.2 No linear change Not available No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Physical Activity**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †									
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017											
QN79: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													36.3	40.1	39.7	No linear change	Not available <sup>§</sup>	No change						
QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													20.3	18.8	17.8	No linear change	Not available	No change						
QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													18.0	19.0	21.8	No linear change	Not available	No change						
QN80: Percentage of students who watched television 3 or more hours per day (on an average school day)													36.8	32.2	29.0	29.7	29.1	29.8	24.5	23.9	22.0	Decreased, 1999-2017	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Female  
Physical Activity

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN81: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)																
								18.0	16.5		31.9	38.3	42.9	Increased, 2007-2017	Not available <sup>§</sup>	No change
QN82: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)																
	38.4	38.6	42.3	49.3	42.4	39.8	41.5	33.4			38.3	36.9	42.6	No linear change	No quadratic change	No change
QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)																
	28.6	25.9	15.2	26.1	28.7	25.6	17.4	25.4			24.4	18.2	24.9	No linear change	No quadratic change	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Female Other	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017
	QN86: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)																
							73.2	72.4							No linear change	Not available <sup>§</sup>	No change
	QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)																
							1.8	2.0							No linear change	Not available	No change
	QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma																
							21.5	20.9	19.7		26.5	20.6	25.9		No linear change	No quadratic change	No change
	QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)																
							25.5	20.4							Decreased, 2015-2017	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Female Site-Added													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
Health Risk Behavior and Percentages																
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN90: Percentage of students who rarely or never wore a bicycle helmet (during the 12 months before the survey, among students who had ridden a bicycle)																
	96.8	92.1	90.7	88.5	84.9	87.3	85.4	77.4			86.4	82.9	80.9	Decreased, 1995-2017	Decreased, 1995-1999 Decreased, 1999-2017	No change
QN91: Percentage of students who rarely or never wear a seat belt when driving (among students who drive a car)																
											7.7	3.5	4.9	No linear change	Not available <sup>§</sup>	No change
QN92: Percentage of students who talked on a cell phone while driving (on at least 1 day during the 30 days before the survey, among students who drove a car or other vehicle)																
											51.2	49.5	55.3	No linear change	Not available	No change
QN94: Percentage of students who were injured in a physical fight (one or more times during the 12 months before the survey; injuries had to be treated by a doctor or nurse)																
	2.5	2.5	2.5	2.5	2.7	3.0	4.5	3.0			6.9	3.8	2.8	Increased, 1995-2017	No quadratic change	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN100: Percentage of students who ever tried smoking cigars, cigarillos, or little cigars (even one or two puffs)													16.9	18.5	13.2	No linear change	Not available <sup>§</sup>	Decreased
QN101: Percentage of students who have ever participated in a program to help them quit using tobacco (among students who have used tobacco)													6.5	10.7	7.6	No linear change	Not available	No change
QN102: Percentage of students who responded that their school has special groups or classes for students who want to quit using tobacco													2.7	1.3	2.4	No linear change	Not available	No change
QN103: Percentage of students who saw or heard ads about the dangers of cigarette smoking (on TV, the Internet or on the radio, on at least 1 day during the 30 days before the survey)													81.3	80.4		No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

Female Site-Added														Linear Change*	Quadratic Change*	Change from 2015-2017 †			
Health Risk Behavior and Percentages																			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017						
QN104: Percentage of students who sometimes, most of the time, or always see ads for tobacco products when they use the Internet														34.0	42.2	Increased, 2015-2017	Not available <sup>§</sup>	Increased	
QN105: Percentage of students who live with someone that smokes cigarettes														42.6	33.7	39.9	No linear change	Not available	No change
QN106: Percentage of students who were at home when someone was smoking tobacco products (on at least one day during the 7 days before the survey)														24.9	31.9	No linear change	Not available	No change	
QN107: Percentage of students who rode in a vehicle where someone was smoking tobacco products (on at least one day during the 7 days before the survey)														32.3	39.1	No linear change	Not available	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Site-Added**

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017						
QN108: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey )														51.5	58.0	No linear change	Not available <sup>§</sup>	Increased	
QN109: Percentage of students who breathed the smoke from someone who was smoking tobacco products in the place where they worked (on at least one day during the 7 days before the survey, among students who worked during the 7 days before the survey)														15.2	24.5	Increased, 2015-2017	Not available	Increased	
QN110: Percentage of students who participated in any community activities to educate the public about the dangers of secondhand smoke (during the 12 months before the survey)														8.7	4.7	5.3	No linear change	Not available	No change
QN111: Percentage of students who live in a home where smoking tobacco products is never allowed														78.0	73.6	No linear change	Not available	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN112: Percentage of students who ride in or drive family vehicles in which smoking tobacco products is never allowed													71.3	65.1	No linear change	Not available <sup>§</sup>	No change
QN113: Percentage of students who think people should never allow smoking inside their home													85.4	85.0	No linear change	Not available	No change
QN114: Percentage of students who think people should never allow smoking in their vehicles													81.0	79.0	No linear change	Not available	No change
QN115: Percentage of students who think employers should never allow smoking in indoor areas in places where people work													89.8	90.1	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †					
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017							
QN117: Percentage of students who did exercises to strengthen or tone their muscles on three or more days (such as push-ups, sit-ups, or weight lifting, during the 7 days before the survey)													43.2	43.8	40.0	No linear change	Not available <sup>§</sup>	No change		
QN118: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have asthma													13.2	12.9	16.3	12.3	15.2	No linear change	Not available	No change
QN119: Percentage of students who have ever been taught by a nurse or doctor how to take care of or manage their asthma (among students who have ever had asthma)													60.9	56.1	66.5	No linear change	Not available	No change		
QN120: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)													17.8	17.5	No linear change	Not available	No change			

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Female  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN122: Percentage of students who ate dinner at home with at least one of their parents on four or more days (during the 7 days before the survey)													63.2	58.0	Decreased, 2015-2017	Not available <sup>§</sup>	No change
QN123: Percentage of students who strongly agree or agree that their teachers really care about them and give them a lot of encouragement													62.7	58.7	No linear change	Not available	No change
QN124: Percentage of students who most of the time or always get the kind of help they need (among students who report having felt sad, empty, hopeless, angry, or anxious)													28.0	30.1	No linear change	Not available	No change
QN125: Percentage of students who participate in school activities one or more hours (such as sports, band, drama, or clubs, during an average week when they are in school)													71.0	66.8	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***  
**Injury and Violence**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car driven by someone else)																
		30.3	26.6	19.3	18.5	13.3	11.9	10.2	9.4		9.8	7.2	7.8	Decreased, 1995-2017	Decreased, 1995-2007 No change, 2007-2017	No change
QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey)																
		45.4	41.7	37.0	33.4	30.8	24.5	27.1	24.5		17.4	17.5	14.3	Decreased, 1995-2017	No quadratic change	No change
QN10: Percentage of students who drove a car or other vehicle when they had been drinking alcohol (one or more times during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)																
											8.8	6.5	5.3	Decreased, 2013-2017	Not available <sup>¶</sup>	No change
QN11: Percentage of students who texted or e-mailed while driving a car or other vehicle (on at least 1 day during the 30 days before the survey, among students who had driven a car or other vehicle during the 30 days before the survey)																
											47.3	49.8	46.6	No linear change	Not available	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***  
**Injury and Violence**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN12: Percentage of students who carried a weapon (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
		24.9	19.9	19.0	20.2	16.3	18.9	17.6	14.9		23.6	23.4	21.8	No linear change	Decreased, 1995-2003 Increased, 2003-2017	No change
QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
												5.8	4.3	No linear change	Not available <sup>¶</sup>	No change
QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)																
												4.6	4.6	No linear change	Not available	No change
QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to)																
					6.7	8.6	6.4	10.0	7.3		8.5	7.5	9.8	No linear change	No quadratic change	No change

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*  
Injury and Violence

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN22: Percentage of students who experienced physical dating violence (being physically hurt on purpose by someone they were dating or going out with [counting such things as being hit, slammed into something, or injured with an object or weapon] one or more times during the 12 months before the survey, among students who dated or went out with someone during the 12 months before the survey)																
											7.8	10.0	9.9	No linear change	Not available <sup>¶</sup>	No change
QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)																
								23.9			26.0	22.1	23.6	No linear change	Not available	No change
QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)																
											17.3	19.9		No linear change	Not available	No change
QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)																
				23.4	28.1	25.2	24.8	23.0	25.6		25.6	26.4	31.7	Increased, 1999-2017	No change, 1999-2013 Increased, 2013-2017	Increased

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***  
**Injury and Violence**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)																
		24.2	22.6	16.9	19.2	16.5	15.9	14.9	14.2		14.2	16.9	20.4	Decreased, 1995-2017	Decreased, 1995-2009 Increased, 2009-2017	No change
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)																
		18.9	16.5	13.5	13.9	13.1	11.3	10.0	10.3		12.2	13.0	16.1	Decreased, 1995-2017	Decreased, 1995-2009 Increased, 2009-2017	No change
QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)																
		8.1	8.5	5.6	8.0	6.3	6.7	7.4	5.3		6.0	8.9	7.8	No linear change	Decreased, 1995-2009 Increased, 2009-2017	No change
QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)																
		2.6	2.4	2.3	1.6	1.8	1.3	1.9	1.9		1.8	2.9	2.2	No linear change	No change, 1995-2003 No change, 2003-2017	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***  
**Tobacco Use**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
		74.6	73.8	70.6	69.6	62.7	50.5	49.3	45.5		38.1	33.9	30.6	Decreased, 1995-2017	No quadratic change	No change
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
		40.8	43.4	39.4	32.6	26.0	23.3	25.2	19.4		14.4	12.0	9.9	Decreased, 1995-2017	No quadratic change	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
		21.4	24.7	20.0	19.6	14.3	12.2	12.1	6.7		5.4	4.6	2.9	Decreased, 1995-2017	No change, 1995-2001 Decreased, 2001-2017	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
		16.7	19.2	14.7	14.6	11.5	9.3	9.9	5.6		3.9	3.5	2.1	Decreased, 1995-2017	Decreased, 1995-2007 Decreased, 2007-2017	No change

\*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,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

White\*

Tobacco Use

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																
												41.7	40.8	No linear change	Not available <sup>¶</sup>	No change
QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																
												22.2	11.5	Decreased, 2015-2017	Not available	Decreased
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																
				21.4	16.4	12.5	13.9	14.2	12.1		11.7	12.2	9.4	Decreased, 1999-2017	No quadratic change	No change
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																
				43.8	36.5	29.1	27.5	28.5	23.6		19.9	18.1	13.6	Decreased, 1999-2017	No quadratic change	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***

**Alcohol and Other Drug Use**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN41: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																
	39.3	33.6	31.7	29.4	23.3	22.5	20.0	17.9		18.9	15.3	18.4		Decreased, 1995-2017	Decreased, 1995-2009 No change, 2009-2017	No change
QN42: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																
	56.6	55.2	55.7	49.9	50.3	42.5	47.0	40.0		36.1	37.0	34.0		Decreased, 1995-2017	No quadratic change	No change
QN43: Percentage of students who usually got the alcohol they drank by someone giving it to them (during the 30 days before the survey, among students who currently drank alcohol)																
							37.9	41.4		34.7	39.8	43.1		No linear change	Not available <sup>¶</sup>	No change
QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																
	20.6	26.1	22.3	24.2	20.0	17.4	17.5	18.4		17.9	14.7	19.2		Decreased, 1995-2017	No quadratic change	Increased

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***  
**Sexual Behaviors**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN59: Percentage of students who ever had sexual intercourse																
		51.8	46.0	51.0	47.9	50.4	43.3	48.8	43.9		39.4	37.1	41.9	Decreased, 1995-2017	No quadratic change	No change
QN60: Percentage of students who had sexual intercourse for the first time before age 13 years																
		7.0	4.6	5.5	4.8	4.0	4.3	4.0	2.9		2.2	2.9	1.9	Decreased, 1995-2017	No quadratic change	No change
QN62: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)																
		37.3	33.1	38.0	37.0	36.8	31.3	38.2	32.4		30.5	27.6	33.0	Decreased, 1995-2017	No quadratic change	No change
QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)																
		29.1	28.5	30.3	25.5	26.3	23.8	23.1	23.7		18.3	20.7	15.6	Decreased, 1995-2017	No quadratic change	No change

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*  
Sexual Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN64: Percentage of students who used a condom during last sexual intercourse (among students who were currently sexually active)																
	51.6	55.2	52.5	59.7	63.5	63.7	57.5	57.5			56.4	56.3	51.6	No linear change	Increased, 1995-2003 Decreased, 2003-2017	No change
QN65: Percentage of students who used birth control pills before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
	21.8	23.4	28.5	24.4	26.7	19.8	22.5	30.0			17.9	24.4	26.4	No linear change	No quadratic change	No change
QNIUDIMP: Percentage of students who used an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											2.3	4.6	4.0	No linear change	Not available <sup>¶</sup>	No change
QNSHPARG: Percentage of students who used a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)																
											5.5	5.7	7.0	No linear change	Not available	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***

**Sexual Behaviors**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>																	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017																			
QNOTHHPL: Percentage of students who used birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													25.8	34.7	37.4	Increased, 2013-2017			Not available <sup>¶</sup>			No change										
QNDUALBC: Percentage of students who used both a condom during last sexual intercourse and birth control pills; an IUD (such as Mirena or ParaGard) or implant (such as Implanon or Nexplanon); or a shot (such as Depo-Provera), patch (such as OrthoEvra), or birth control ring (such as NuvaRing) before last sexual intercourse (to prevent pregnancy, among students who were currently sexually active)													9.2	13.0	14.3	Increased, 2013-2017			Not available			No change										
QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active)													12.7	12.4	11.4	10.5	6.4	9.3	9.0	6.5	13.7	9.3	10.8	No linear change			Decreased, 1995-2009 No change, 2009-2017			No change		

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*

Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOWT: Percentage of students who were overweight ( $\geq$ 85th percentile but $<$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>¶</sup>																
				10.8	14.1	14.1	15.9	13.0	12.4		15.0	12.2	15.5	No linear change	No quadratic change	No change
QNOBESE: Percentage of students who had obesity ( $\geq$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>¶</sup>																
				8.2	11.5	12.6	12.4	10.0	14.1		14.5	12.2	15.6	Increased, 1999-2017	No quadratic change	No change
QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)																
				20.3	20.8	20.9	22.2	23.3	26.8		29.8	33.1	35.6	Increased, 1999-2017	No quadratic change	No change
QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)																
				14.1	18.7	14.6	12.4	11.3	11.5		14.1	12.5	12.3	Decreased, 1999-2017	Decreased, 1999-2007 No change, 2007-2017	No change

\*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>Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

White\*

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNFRO: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				5.7	7.3	6.4	5.7	5.0	6.3		7.4	6.6	7.2	No linear change	No quadratic change	No change
QNFRI: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				57.7	55.2	53.5	57.4	56.0	55.1		54.2	52.4	49.2	Decreased, 1999-2017	No quadratic change	No change
QNFRI2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				25.7	26.6	22.5	25.5	27.7	25.5		23.1	22.8	22.1	Decreased, 1999-2017	No quadratic change	No change
QNFRI3: Percentage of students who ate fruit or drank 100% fruit juices three or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				17.3	16.8	13.4	14.7	16.0	15.2		12.5	12.1	10.9	Decreased, 1999-2017	No quadratic change	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN72: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)																
				29.3	32.3	30.9	31.3	32.5	33.9		40.0	40.7	44.2	Increased, 1999-2017	No change, 1999-2007 Increased, 2007-2017	No change
QN73: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)																
				21.8	23.8	24.2	24.1	26.1	26.6		26.3	33.2	30.5	Increased, 1999-2017	No quadratic change	No change
QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)																
				50.0	53.3	54.0	49.6	53.2	50.0		51.9	52.0	56.6	No linear change	No quadratic change	No change
QN75: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)																
				11.7	14.1	12.6	12.6	13.5	13.9		19.5	14.1	18.0	Increased, 1999-2017	No quadratic change	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													Increased, 1999-2017	No quadratic change	No change	
				3.2	4.1	3.5	3.2	4.8	5.0		5.1	4.5	7.3			
QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													Decreased, 1999-2017	No quadratic change	No change	
				68.5	65.0	63.4	65.2	62.7	65.6		60.7	60.7	57.4			
QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													Decreased, 1999-2017	No quadratic change	No change	
				29.3	28.2	24.0	25.2	24.7	29.7		24.2	21.3	21.9			
QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													Decreased, 1999-2017	No quadratic change	No change	
				12.3	12.0	9.2	10.8	10.3	13.4		10.1	9.7	8.5			

\*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,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

White\*

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN77: Percentage of students who did not drink milk (during the 7 days before the survey)																
				15.0	13.1	14.8	13.2	15.2	12.9		15.6	17.9	22.3	Increased, 1999-2017	No change, 1999-2013 Increased, 2013-2017	No change
QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				50.7	50.3	48.5	48.7	46.6	48.1		41.4	39.1	30.8	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	Decreased
QNMILK2: Percentage of students who drank two or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				37.2	37.7	32.3	33.1	30.3	31.5		25.9	24.2	17.4	Decreased, 1999-2017	Decreased, 1999-2013 Decreased, 2013-2017	Decreased
QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				20.5	21.0	17.7	16.8	14.6	16.1		12.2	11.2	7.5	Decreased, 1999-2017	No quadratic change	Decreased

\*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,  $p < 0.05$ .

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*

Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages

Linear Change<sup>†</sup>

Quadratic Change<sup>†</sup>

Change from  
2015-2017<sup>§</sup>

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

QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)

12.8 13.5 13.6 No linear change Not available<sup>¶</sup> No change

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

36.5 33.9 33.2 No linear change Not available No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\***

**Physical Activity**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN79: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													No linear change	Not available <sup>¶</sup>	No change	
								47.5			48.7		48.1			
QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													No linear change	Not available	No change	
								17.7			13.7		15.1			
QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													No linear change	Not available	No change	
								28.4			27.9		29.7			
QN80: Percentage of students who watched television 3 or more hours per day (on an average school day)													Decreased, 1999-2017	No quadratic change	No change	
				31.6	32.5	27.2	28.3	22.7	26.1		21.8	18.8	19.4			

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*

Physical Activity

Health Risk Behavior and Percentages

Linear Change<sup>†</sup>

Quadratic Change<sup>†</sup>

Change from  
2015-2017<sup>§</sup>

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

QN81: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)

19.3 20.7 32.5 37.8 42.4 Increased, 2007-2017 Not available<sup>¶</sup> No change

QN82: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)

46.3 46.6 51.7 57.2 47.5 49.2 50.8 41.9 45.1 44.6 48.2 No linear change No quadratic change No change

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

33.8 27.7 21.0 30.6 33.9 32.9 24.9 33.3 33.0 24.8 29.1 No linear change No quadratic change No change

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White* Other	Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017
	QN86: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)																
								72.6	72.3						No linear change	Not available <sup>¶</sup>	No change
	QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)																
								2.2	2.3						No linear change	Not available	No change
	QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma																
							17.8	19.8	18.7		23.3	20.3	25.1		Increased, 2005-2017	No quadratic change	No change
	QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)																
								27.2	22.2						Decreased, 2015-2017	Not available	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\*  
Site-Added**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN90: Percentage of students who rarely or never wore a bicycle helmet (during the 12 months before the survey, among students who had ridden a bicycle)																
		96.2	92.7	91.4	89.6	86.8	87.3	83.3	79.7		86.3	84.5	81.8	Decreased, 1995-2017	Decreased, 1995-2007 No change, 2007-2017	No change
QN91: Percentage of students who rarely or never wear a seat belt when driving (among students who drive a car)																
											9.4	6.2	7.5	No linear change	Not available <sup>¶</sup>	No change
QN92: Percentage of students who talked on a cell phone while driving (on at least 1 day during the 30 days before the survey, among students who drove a car or other vehicle)																
											55.4	51.3	56.2	No linear change	Not available	No change
QN94: Percentage of students who were injured in a physical fight (one or more times during the 12 months before the survey; injuries had to be treated by a doctor or nurse)																
		3.7	2.5	3.0	2.9	2.4	3.0	3.4	2.4		8.0	5.3	4.0	Increased, 1995-2017	Decreased, 1995-2003 Increased, 2003-2017	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\*  
Site-Added**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN97: Percentage of students who tried to quit smoking cigarettes (among students who smoked cigarettes during the 12 months before the survey)													48.9	53.1	No linear change	Not available <sup>¶</sup>	No change	
QN100: Percentage of students who ever tried smoking cigars, cigarillos, or little cigars (even one or two puffs)													24.9	26.0	16.7	Decreased, 2013-2017	Not available	Decreased
QN101: Percentage of students who have ever participated in a program to help them quit using tobacco (among students who have used tobacco)													8.3	11.8	6.8	No linear change	Not available	No change
QN102: Percentage of students who responded that their school has special groups or classes for students who want to quit using tobacco													3.8	2.1	2.5	No linear change	Not available	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**White\*  
Site-Added**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>‡</sup>	Change from 2015-2017 <sup>§</sup>			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN103: Percentage of students who saw or heard ads about the dangers of cigarette smoking (on TV, the Internet or on the radio, on at least 1 day during the 30 days before the survey)													80.0	79.5	No linear change	Not available <sup>¶</sup>	No change	
QN104: Percentage of students who sometimes, most of the time, or always see ads for tobacco products when they use the Internet													32.6	38.9	No linear change	Not available	No change	
QN105: Percentage of students who live with someone that smokes cigarettes													40.7	36.8	38.3	No linear change	Not available	No change
QN106: Percentage of students who were at home when someone was smoking tobacco products (on at least one day during the 7 days before the survey)													28.0	30.9	No linear change	Not available	No change	
QN107: Percentage of students who rode in a vehicle where someone was smoking tobacco products (on at least one day during the 7 days before the survey)													32.2	37.7	No linear change	Not available	No change	

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

White\*  
Site-Added

Health Risk Behavior and Percentages														Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017						
QN108: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey )														50.4	53.1	No linear change	Not available <sup>¶</sup>	No change	
QN109: Percentage of students who breathed the smoke from someone who was smoking tobacco products in the place where they worked (on at least one day during the 7 days before the survey, among students who worked during the 7 days before the survey)														22.9	25.9	No linear change	Not available	No change	
QN110: Percentage of students who participated in any community activities to educate the public about the dangers of secondhand smoke (during the 12 months before the survey)														7.9	5.1	5.0	No linear change	Not available	No change
QN111: Percentage of students who live in a home where smoking tobacco products is never allowed														76.4	73.2	No linear change	Not available	No change	

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*  
Site-Added

Health Risk Behavior and Percentages														Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN112: Percentage of students who ride in or drive family vehicles in which smoking tobacco products is never allowed														No linear change	Not available <sup>¶</sup>	No change
												69.9	65.0			
QN113: Percentage of students who think people should never allow smoking inside their home														No linear change	Not available	No change
												80.1	79.7			
QN114: Percentage of students who think people should never allow smoking in their vehicles														No linear change	Not available	No change
												75.3	74.5			
QN115: Percentage of students who think employers should never allow smoking in indoor areas in places where people work														No linear change	Not available	No change
												86.6	87.8			

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*  
Site-Added

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>‡</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN117: Percentage of students who did exercises to strengthen or tone their muscles on three or more days (such as push-ups, sit-ups, or weight lifting, during the 7 days before the survey)																
											51.4	53.8	47.5	No linear change	Not available <sup>¶</sup>	No change
QN118: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have asthma																
							10.5	10.4			11.3	9.8	12.3	No linear change	Not available	No change
QN119: Percentage of students who have ever been taught by a nurse or doctor how to take care of or manage their asthma (among students who have ever had asthma)																
											52.7	53.5	57.3	No linear change	Not available	No change
QN120: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)																
												14.0	13.9	No linear change	Not available	No change

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

White\*  
Site-Added

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN122: Percentage of students who ate dinner at home with at least one of their parents on four or more days (during the 7 days before the survey)																
												65.3	60.8	Decreased, 2015-2017	Not available <sup>¶</sup>	No change
QN123: Percentage of students who strongly agree or agree that their teachers really care about them and give them a lot of encouragement																
												61.1	63.4	No linear change	Not available	No change
QN124: Percentage of students who most of the time or always get the kind of help they need (among students who report having felt sad, empty, hopeless, angry, or anxious)																
												28.4	28.2	No linear change	Not available	No change
QN125: Percentage of students who participate in school activities one or more hours (such as sports, band, drama, or clubs, during an average week when they are in school)																
												70.4	67.0	No linear change	Not available	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Black\***  
**Injury and Violence**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car driven by someone else)																
		38.3	39.0	33.4	20.3	25.4	12.5	17.0	21.3		14.6	11.6	13.7	Decreased, 1995-2017	Decreased, 1995-2005 No change, 2005-2017	No change
QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey)																
		43.9	28.9	30.9	26.6	37.8	26.4	25.2	26.0		23.7	20.5	19.7	Decreased, 1995-2017	No quadratic change	No change
QN12: Percentage of students who carried a weapon (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
		32.5	19.6	24.4	17.5	17.0	18.9	19.2	19.1		12.2	14.8	9.8	Decreased, 1995-2017	No quadratic change	No change
QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)																
											3.5	2.5		No linear change	Not available <sup>¶</sup>	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Black\***  
**Injury and Violence**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>								
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017										
QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)													8.4	8.5	No linear change	Not available <sup>¶</sup>	No change						
QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to)													8.8	11.9	9.9	10.4	8.6	16.6	10.1	8.0	No linear change	No quadratic change	No change
QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)													16.3	18.8	15.2	17.4	No linear change	Not available	No change				
QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)													13.3	13.5	No linear change	Not available	No change						

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Black\***  
**Injury and Violence**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)																
				22.5	28.8	29.1	26.8	23.3	29.5		30.2	26.8	26.0	No linear change	No quadratic change	No change
QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)																
	19.9	17.3	10.4	17.0	15.1	10.6	12.0	17.1		11.4	11.1	18.7	No linear change	No quadratic change	No change	
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)																
	19.6	9.9	7.4	15.1	9.9	8.5	9.0	12.3		7.4	13.8	8.5	No linear change	No quadratic change	No change	
QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)																
	14.8	8.1	3.7	9.6	10.2	7.5	9.0	8.5		5.4	12.6	6.9	No linear change	No quadratic change	No change	

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Black\*  
Injury and Violence

Health Risk Behavior and Percentages

Linear Change<sup>†</sup>

Quadratic Change<sup>†</sup>

Change from  
2015-2017<sup>§</sup>

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

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

8.0 2.5 1.9 2.5 2.0 3.7 1.5 3.9 0.8 3.1 4.1 No linear change No quadratic change No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Black\*  
Tobacco Use**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)																
		76.6	73.8	66.9	61.1	65.8	42.9	54.6	48.2		41.7	35.7	17.0	Decreased, 1995-2017	No quadratic change	Decreased
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)																
		23.9	21.9	16.9	14.4	17.2	9.6	15.0	15.7		11.3	5.9	5.0	Decreased, 1995-2017	No quadratic change	No change
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)																
		9.4	9.1	6.1	6.5	7.8	3.4	7.3	5.0		4.3	2.9	1.1	Decreased, 1995-2017	No quadratic change	No change
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)																
		6.8	5.9	4.6	5.9	6.4	2.4	3.7	3.2		3.4	1.8	1.1	Decreased, 1995-2017	No quadratic change	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Black\*  
Tobacco Use**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>									
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017											
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])													34.3	35.4	No linear change	Not available <sup>¶</sup>	No change							
QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)													19.5	6.2	Decreased, 2015-2017	Not available	Decreased							
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)													14.4	13.6	16.2	17.9	16.6	17.2	15.2	10.6	8.1	No linear change	No change, 1999-2013 No change, 2013-2017	No change
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)													24.5	20.2	23.8	20.2	24.0	24.6	20.8	14.2	10.9	Decreased, 1999-2017	No quadratic change	No change

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Black\*

Alcohol and Other Drug Use

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN41: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																
	37.4	30.1	36.2	30.0	34.0	29.3	22.4	26.3		16.0	25.8	16.8	Decreased, 1995-2017	No quadratic change	No change	
QN42: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																
	43.5	32.4	36.0	34.1	45.6	31.0	29.8	37.6		29.1	24.9	22.9	Decreased, 1995-2017	No quadratic change	No change	
QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																
	32.3	33.5	34.0	22.9	29.7	20.3	24.3	29.3		28.2	21.3	21.7	Decreased, 1995-2017	No quadratic change	No change	

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Black\*  
Sexual Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN59: Percentage of students who ever had sexual intercourse																
		78.6	75.8	71.6	64.3	62.9	64.7	67.4	70.2		60.7	41.8	41.7	Decreased, 1995-2017	No quadratic change	No change
QN60: Percentage of students who had sexual intercourse for the first time before age 13 years																
		29.3	22.6	19.0	13.3	21.2	13.6	16.3	14.5		10.2	8.7	4.3	Decreased, 1995-2017	No quadratic change	No change
QN62: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)																
		63.7	52.0	53.0	46.9	48.2	44.0	52.2	48.2		40.0	25.9	31.0	Decreased, 1995-2017	No quadratic change	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Black\*

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOWT: Percentage of students who were overweight ( $\geq$ 85th percentile but $<$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>¶</sup>													No linear change	No quadratic change	No change	
				20.7	18.0	19.5	15.6	18.0	20.6		18.8	17.7	17.6			
QNOBESE: Percentage of students who had obesity ( $\geq$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>¶</sup>													Increased, 1999-2017	Increased, 1999-2007 No change, 2007-2017	No change	
				10.2	18.5	7.4	21.1	20.2	15.5		16.2	17.2	17.6			
QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)													Increased, 1999-2017	No quadratic change	No change	
				17.5	14.4	22.7	14.4	17.3	23.2		28.6	22.9	29.3			
QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)													Decreased, 1999-2017	No quadratic change	No change	
				21.5	24.8	20.2	24.4	22.0	20.2		12.8	14.6	17.9			

\*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>Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
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Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				7.7	5.3	9.1	6.9	7.3	10.4		8.8	6.6	8.3	No linear change	No quadratic change	No change
QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				61.6	64.7	56.7	57.5	57.8	58.6		59.4	56.4	55.6	No linear change	No quadratic change	No change
QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				35.2	38.9	33.7	27.2	32.6	34.1		32.3	27.8	22.4	Decreased, 1999-2017	No quadratic change	No change
QNFR3: Percentage of students who ate fruit or drank 100% fruit juices three or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)																
				26.6	31.3	26.3	21.4	25.0	24.9		25.3	21.1	15.7	No linear change	No quadratic change	No change

\*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.

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### Missouri High School Survey Trend Analysis Report

**Black\***

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN72: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey)													No linear change	No quadratic change	No change	
				47.7	46.9	43.1	49.3	45.9	50.5		48.5	53.5	50.1			
QN73: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey)													No linear change	No quadratic change	No change	
				37.5	30.8	38.3	39.3	42.8	37.8		34.9	38.1	45.5			
QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)													No linear change	No quadratic change	No change	
				77.1	70.5	68.3	74.6	72.6	67.3		69.5	71.5	70.1			
QN75: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)													Increased, 1999-2017	No quadratic change	No change	
				26.2	20.4	18.2	21.0	25.5	27.2		31.1	31.8	27.0			

\*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.

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### Missouri High School Survey Trend Analysis Report

#### Black\*

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													No linear change	No quadratic change	No change	
			11.9	5.8	6.4	10.8	13.9	13.4		12.1	11.5	9.7				
QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													No linear change	No quadratic change	No change	
			45.4	54.7	55.1	47.3	44.9	49.0		45.7	48.0	46.3				
QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													No linear change	No quadratic change	No change	
			19.1	23.1	17.3	17.9	22.6	21.7		21.3	23.5	15.6				
QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													No linear change	No quadratic change	No change	
			11.7	14.0	6.9	10.3	14.5	15.4		13.3	15.5	8.6				

\*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,  $p < 0.05$ .

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

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#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN77: Percentage of students who did not drink milk (during the 7 days before the survey)																
				30.9	26.9	28.4	23.8	32.2	33.3		29.8	35.8	41.3	Increased, 1999-2017	No quadratic change	No change
QNMILK1: Percentage of students who drank one or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				30.0	34.0	31.1	28.4	28.5	29.6		22.6	20.7	19.7	Decreased, 1999-2017	No quadratic change	No change
QNMILK2: Percentage of students who drank two or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				20.0	25.2	22.1	16.8	18.3	22.8		12.2	10.9	12.0	Decreased, 1999-2017	No quadratic change	No change
QNMILK3: Percentage of students who drank three or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)																
				9.9	16.4	6.0	10.2	10.6	13.8		6.5	6.0	5.4	Decreased, 1999-2017	No quadratic change	No change

\*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,  $p < 0.05$ .

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Missouri High School Survey  
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Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages

Linear Change<sup>†</sup>

Quadratic Change<sup>†</sup>

Change from  
2015-2017<sup>§</sup>

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

QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)

19.7 21.3 16.7 No linear change Not available<sup>¶</sup> No change

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

33.7 18.9 31.3 No linear change Not available Increased

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Black\***

**Physical Activity**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN79: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													No linear change	Not available <sup>¶</sup>	No change	
								39.3			37.9		39.5			
QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													No linear change	Not available	No change	
								13.8			23.7		23.3			
QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													No linear change	Not available	No change	
								24.0			19.5		24.5			
QN80: Percentage of students who watched television 3 or more hours per day (on an average school day)													Decreased, 1999-2017	No change, 1999-2009 Decreased, 2009-2017	No change	
				60.0	66.9	58.1	61.5	59.1	58.0		43.8	32.3	29.9			

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Black\*

Physical Activity

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN81: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)																
								29.5	31.2		34.0	37.3	45.7	Increased, 2007-2017	Not available <sup>¶</sup>	No change
QN82: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)																
	52.3	43.5	47.9	48.5	59.6	52.6	50.7	52.8		46.0	50.7	55.0	No linear change	No quadratic change	No change	
QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)																
	39.9	33.5	19.4	26.8	28.8	24.2	20.7	30.1		20.6	16.0	25.4	No linear change	No quadratic change	No change	

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
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Black* Other	Health Risk Behavior and Percentages												Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013				2015
	QN86: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)															
							59.0	63.1						No linear change	Not available <sup>¶</sup>	No change
	QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)															
							5.5	1.5						No linear change	Not available	No change
	QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma															
							27.0	25.4	28.0		28.4	31.0	32.0	No linear change	No quadratic change	No change
	QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)															
							27.8	14.1						Decreased, 2015-2017	Not available	Decreased

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

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Site-Added**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>											
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017													
QN91: Percentage of students who rarely or never wear a seat belt when driving (among students who drive a car)													9.8	12.8	No linear change	Not available <sup>¶</sup>	No change									
QN94: Percentage of students who were injured in a physical fight (one or more times during the 12 months before the survey; injuries had to be treated by a doctor or nurse)													9.0	8.1	5.4	5.4	8.3	6.1	10.3	7.9	9.7	9.6	5.2	No linear change	No quadratic change	No change
QN100: Percentage of students who ever tried smoking cigars, cigarillos, or little cigars (even one or two puffs)													17.9	18.1	12.6				No linear change	Not available	No change					
QN102: Percentage of students who responded that their school has special groups or classes for students who want to quit using tobacco													4.1	5.2	7.5				No linear change	Not available	No change					

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

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Site-Added**

Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>‡</sup>	Change from 2015-2017 <sup>§</sup>			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN103: Percentage of students who saw or heard ads about the dangers of cigarette smoking (on TV, the Internet or on the radio, on at least 1 day during the 30 days before the survey)													73.2	75.6	No linear change	Not available <sup>¶</sup>	No change	
QN104: Percentage of students who sometimes, most of the time, or always see ads for tobacco products when they use the Internet													35.8	52.0	Increased, 2015-2017	Not available	Increased	
QN105: Percentage of students who live with someone that smokes cigarettes													44.0	36.7	35.0	No linear change	Not available	No change
QN106: Percentage of students who were at home when someone was smoking tobacco products (on at least one day during the 7 days before the survey)													31.9	30.9	No linear change	Not available	No change	
QN107: Percentage of students who rode in a vehicle where someone was smoking tobacco products (on at least one day during the 7 days before the survey)													32.3	33.9	No linear change	Not available	No change	

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
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Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN108: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey )																	
												43.8	39.5	No linear change	Not available <sup>¶</sup>	No change	
QN110: Percentage of students who participated in any community activities to educate the public about the dangers of secondhand smoke (during the 12 months before the survey)																	
												11.3	11.0	6.6	No linear change	Not available	No change
QN111: Percentage of students who live in a home where smoking tobacco products is never allowed																	
												71.2	73.0	No linear change	Not available	No change	
QN112: Percentage of students who ride in or drive family vehicles in which smoking tobacco products is never allowed																	
												68.2	71.3	No linear change	Not available	No change	

\*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.

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Missouri High School Survey  
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Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN113: Percentage of students who think people should never allow smoking inside their home																	
												80.6	83.3	No linear change	Not available <sup>¶</sup>	No change	
QN114: Percentage of students who think people should never allow smoking in their vehicles																	
												80.8	81.8	No linear change	Not available	No change	
QN115: Percentage of students who think employers should never allow smoking in indoor areas in places where people work																	
												84.7	89.4	No linear change	Not available	No change	
QN117: Percentage of students who did exercises to strengthen or tone their muscles on three or more days (such as push-ups, sit-ups, or weight lifting, during the 7 days before the survey)																	
												45.4	38.8	48.1	No linear change	Not available	Increased

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

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Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN118: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have asthma													No linear change	Not available <sup>¶</sup>	No change	
						17.4	16.3				18.6	18.4	19.2			
QN120: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)													No linear change	Not available	No change	
												9.2	8.4			
QN122: Percentage of students who ate dinner at home with at least one of their parents on four or more days (during the 7 days before the survey)													No linear change	Not available	No change	
												50.7	54.2			
QN123: Percentage of students who strongly agree or agree that their teachers really care about them and give them a lot of encouragement													No linear change	Not available	No change	
												50.1	54.4			

\*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.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
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Health Risk Behavior and Percentages													Linear Change <sup>†</sup>	Quadratic Change <sup>†</sup>	Change from 2015-2017 <sup>§</sup>		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN124: Percentage of students who most of the time or always get the kind of help they need (among students who report having felt sad, empty, hopeless, angry, or anxious)													19.4	20.8	No linear change	Not available <sup>¶</sup>	No change
QN125: Percentage of students who participate in school activities one or more hours (such as sports, band, drama, or clubs, during an average week when they are in school)													59.2	59.9	No linear change	Not available	No change

\*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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car driven by someone else)													23.9	14.1	13.2	Decreased, 2013-2017	Not available <sup>§</sup>	No change
QN9: Percentage of students who rode with a driver who had been drinking alcohol (in a car or other vehicle, one or more times during the 30 days before the survey)													35.7	28.6	22.5	Decreased, 2013-2017	Not available	No change
QN12: Percentage of students who carried a weapon (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)													25.1	24.3	19.1	No linear change	Not available	No change
QN13: Percentage of students who carried a weapon on school property (such as a gun, knife, or club, on at least 1 day during the 30 days before the survey)													8.0	4.8		No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey)													11.1	11.0	No linear change	Not available <sup>§</sup>	No change	
QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to)													16.3	15.9	16.2	No linear change	Not available	No change
QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)													23.2	25.1	25.5	No linear change	Not available	No change
QN24: Percentage of students who were electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media, ever during the 12 months before the survey)													17.0	21.2		No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Injury and Violence

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN25: Percentage of students who felt sad or hopeless (almost every day for >=2 weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)													No linear change	Not available <sup>§</sup>	No change	
								42.7	38.0	37.4						
QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)													No linear change	Not available	No change	
								23.0	21.2	25.4						
QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)													No linear change	Not available	No change	
								20.0	17.7	19.2						
QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)													No linear change	Not available	No change	
								17.8	12.2	10.9						

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Injury and Violence

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from  
2015-2017 †

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

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

3.8 7.2 3.4 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,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Tobacco Use

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)													Decreased, 2013-2017	Not available <sup>§</sup>	No change	
											50.7	39.0	30.2			
QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)													No linear change	Not available	No change	
											21.6	13.3	8.7			
QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey)													No linear change	Not available	No change	
											6.6	4.4	2.6			
QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)													No linear change	Not available	No change	
											4.9	3.2	1.9			

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic Tobacco Use

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN34: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo])																	
												44.3	39.2	No linear change	Not available <sup>§</sup>	No change	
QN35: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey)																	
												19.7	7.5	Decreased, 2015-2017	Not available	Decreased	
QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey)																	
												22.8	13.6	7.0	Decreased, 2013-2017	Not available	No change
QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)																	
												28.3	22.1	11.7	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Alcohol and Other Drug Use

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN41: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips)																
											37.0	24.0	17.8	Decreased, 2013-2017	Not available <sup>§</sup>	No change
QN42: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey)																
											49.2	34.1	27.0	Decreased, 2013-2017	Not available	No change
QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)																
											31.6	20.4	17.8	No linear change	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Sexual Behaviors

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN59: Percentage of students who ever had sexual intercourse														No linear change	Not available <sup>§</sup>	No change
QN60: Percentage of students who had sexual intercourse for the first time before age 13 years														No linear change	Not available	No change
QN62: Percentage of students who were currently sexually active (had sexual intercourse with at least one person, during the 3 months before the survey)														No linear change	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QNOWT: Percentage of students who were overweight ( $\geq$ 85th percentile but $<$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>													No linear change	Not available <sup>¶</sup>	No change	
						15.2	20.5	17.0								
QNOBESE: Percentage of students who had obesity ( $\geq$ 95th percentile for body mass index, based on sex- and age-specific reference data from the 2000 CDC growth charts) <sup>§</sup>													No linear change	Not available	Increased	
						18.3	10.5	24.1								
QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)													No linear change	Not available	No change	
						26.3	27.0	29.0								
QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)													No linear change	Not available	No change	
						19.3	9.5	17.9								

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

†Based on t-test analysis,  $p < 0.05$ .

§Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

¶Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QNFR0: Percentage of students who did not eat fruit or drink 100% fruit juices (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)													7.8	4.3	12.4	No linear change	Not available <sup>§</sup>	No change
QNFR1: Percentage of students who ate fruit or drank 100% fruit juices one or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)													48.7	61.0	55.8	No linear change	Not available	No change
QNFR2: Percentage of students who ate fruit or drank 100% fruit juices two or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)													23.9	25.2	29.9	No linear change	Not available	No change
QNFR3: Percentage of students who ate fruit or drank 100% fruit juices three or more times per day (such as orange juice, apple juice, or grape juice, during the 7 days before the survey)													15.2	17.2	19.0	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from  
2015-2017 †

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

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

43.2 48.5 49.9 No linear change Not available<sup>§</sup> No change

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

34.8 39.7 40.9 No linear change Not available No change

QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)

61.1 53.3 55.9 No linear change Not available No change

QN75: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey)

24.8 22.2 24.4 No linear change Not available No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic

#### Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QNVEG0: Percentage of students who did not eat vegetables (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													8.8	9.8	18.4	No linear change	Not available <sup>§</sup>	No change
QNVEG1: Percentage of students who ate vegetables one or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													53.0	53.6	54.0	No linear change	Not available	No change
QNVEG2: Percentage of students who ate vegetables two or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													23.6	18.8	25.9	No linear change	Not available	No change
QNVEG3: Percentage of students who ate vegetables three or more times per day (green salad, potatoes [excluding French fries, fried potatoes, or potato chips], carrots, or other vegetables, during the 7 days before the survey)													16.5	7.8	14.3	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from 2015-2017 †

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

QN77: Percentage of students who did not drink milk (during the 7 days before the survey)

22.0 21.6 28.3 No linear change Not available<sup>§</sup> No change

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

34.3 29.8 27.4 No linear change Not available No change

QNMILK2: Percentage of students who drank two or more glasses per day of milk (counting the milk they drank in a glass or cup, from a carton, or with cereal and counting the half pint of milk served at school as equal to one glass, during the 7 days before the survey)

16.2 18.8 14.4 No linear change Not available No change

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

6.8 8.3 5.4 No linear change Not available No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from  
2015-2017 †

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

QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)

15.0 23.2 18.8 No linear change Not available<sup>§</sup> No change

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

26.6 28.2 26.6 No linear change Not available No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

#### Hispanic Physical Activity

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN79: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													33.0	38.7	44.4	No linear change	Not available <sup>§</sup>	No change
QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													20.5	19.8	16.5	No linear change	Not available	No change
QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey)													19.0	23.0	25.2	No linear change	Not available	No change
QN80: Percentage of students who watched television 3 or more hours per day (on an average school day)													30.5	21.8	22.4	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Physical Activity

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN81: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)																
											34.6	31.2	38.5	No linear change	Not available <sup>§</sup>	No change
QN82: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school)																
											53.2	52.0	53.1	No linear change	Not available	No change
QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school)																
											25.6	18.9	27.7	No linear change	Not available	No change

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic Other	Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
	1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015				2017		
	QN86: Percentage of students who saw a dentist (for a check-up, exam, teeth cleaning, or other dental work, during the 12 months before the survey)													62.1	66.5	No linear change	Not available <sup>§</sup>	No change	
	QNNODNT: Percentage of students who never saw a dentist (for a check-up, exam, teeth cleaning, or other dental work)													2.4	3.4	No linear change	Not available	No change	
	QN87: Percentage of students who had ever been told by a doctor or nurse that they had asthma													24.8	18.1	34.5	No linear change	Not available	Increased
	QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)													31.5	17.7		No linear change	Not available	Decreased

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Hispanic  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN94: Percentage of students who were injured in a physical fight (one or more times during the 12 months before the survey; injuries had to be treated by a doctor or nurse)													16.5	8.3	4.3	Decreased, 2013-2017	Not available <sup>§</sup>	No change
QN100: Percentage of students who ever tried smoking cigars, cigarillos, or little cigars (even one or two puffs)													27.9	26.3	13.1	Decreased, 2013-2017	Not available	No change
QN102: Percentage of students who responded that their school has special groups or classes for students who want to quit using tobacco													7.2	2.2	8.1	No linear change	Not available	No change
QN103: Percentage of students who saw or heard ads about the dangers of cigarette smoking (on TV, the Internet or on the radio, on at least 1 day during the 30 days before the survey)													77.6	71.2		No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Hispanic  
Site-Added**

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017					
QN104: Percentage of students who sometimes, most of the time, or always see ads for tobacco products when they use the Internet													33.8	36.1	No linear change	Not available <sup>§</sup>	No change	
QN105: Percentage of students who live with someone that smokes cigarettes													38.3	32.1	46.4	No linear change	Not available	No change
QN106: Percentage of students who were at home when someone was smoking tobacco products (on at least one day during the 7 days before the survey)													24.0	28.9	No linear change	Not available	No change	
QN107: Percentage of students who rode in a vehicle where someone was smoking tobacco products (on at least one day during the 7 days before the survey)													25.8	24.3	No linear change	Not available	No change	

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Site-Added

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †		
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017				
QN108: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey )																	
												42.2	43.1	No linear change	Not available <sup>§</sup>	No change	
QN110: Percentage of students who participated in any community activities to educate the public about the dangers of secondhand smoke (during the 12 months before the survey)																	
												9.6	4.0	17.5	No linear change	Not available	No change
QN111: Percentage of students who live in a home where smoking tobacco products is never allowed																	
												76.9	77.2	No linear change	Not available	No change	
QN112: Percentage of students who ride in or drive family vehicles in which smoking tobacco products is never allowed																	
												70.1	74.2	No linear change	Not available	No change	

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey Trend Analysis Report

**Hispanic  
Site-Added**

Health Risk Behavior and Percentages														Linear Change*	Quadratic Change*	Change from 2015-2017 †			
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017						
QN113: Percentage of students who think people should never allow smoking inside their home														81.4	84.5	No linear change	Not available <sup>§</sup>	No change	
QN114: Percentage of students who think people should never allow smoking in their vehicles														77.2	83.3	No linear change	Not available	No change	
QN115: Percentage of students who think employers should never allow smoking in indoor areas in places where people work														86.0	88.2	No linear change	Not available	No change	
QN117: Percentage of students who did exercises to strengthen or tone their muscles on three or more days (such as push-ups, sit-ups, or weight lifting, during the 7 days before the survey)														49.1	51.9	46.9	No linear change	Not available	No change

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

†Based on t-test analysis,  $p < 0.05$ .

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Site-Added

Health Risk Behavior and Percentages													Linear Change*	Quadratic Change*	Change from 2015-2017 †	
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017			
QN118: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have asthma																
								8.8	9.9	15.1				No linear change	Not available <sup>§</sup>	No change
QN120: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)																
											13.6	8.8		No linear change	Not available	No change
QN122: Percentage of students who ate dinner at home with at least one of their parents on four or more days (during the 7 days before the survey)																
											61.6	51.3		No linear change	Not available	No change
QN123: Percentage of students who strongly agree or agree that their teachers really care about them and give them a lot of encouragement																
											57.6	69.6		Increased, 2015-2017	Not available	Increased

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

Missouri High School Survey  
Trend Analysis Report

Hispanic  
Site-Added

Health Risk Behavior and Percentages

Linear Change\*

Quadratic Change\*

Change from  
2015-2017 †

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

QN125: Percentage of students who participate in school activities one or more hours (such as sports, band, drama, or clubs, during an average week when they are in school)

59.8

53.8

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,  $p < 0.05$ .

§Not enough years of data to calculate.