

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Total  
Injury and Violence**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)  |      |      |      |      |      |                      |                            |                            |
| 11.8  | 11.9 |      | 11.4 | 8.1  | 9.0  | Decreased, 2007-2017 | 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)  |      |      |      |      |      |                      |                            |                            |
| 27.8  | 24.6 |      | 19.3 | 18.5 | 15.7 | Decreased, 2007-2017 | Not available              | 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              | No change                  |

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

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

§Not enough years of data to calculate.

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|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)  |      |      |      |      |      |                      |                            |                            |
| 18.6   | 16.0 |      | 22.2 | 22.1 | 19.8 | Increased, 2007-2017 | 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)   |      |      |      |      |      |                      |                            |                            |
|  |      |      |      | 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                  |

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

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|--|------|------|------|------|------|------------------|----------------------------|----------------------------|
| 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)  |      |      |      |      |      |                  |                            |                            |
| 10.3   | 8.1  |      | 10.2 | 8.4  | 10.2 | No linear change | Not available <sup>§</sup> | 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              | 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,  $p < 0.05$ .

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

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Injury and Violence**

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|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN25: Percentage of students who felt sad or hopeless (almost every day for $\geq 2$ weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey) |      |      |      |      |      |                      |                            |                            |
| 23.6   | 27.1 |      | 27.3 | 27.5 | 31.3 | Increased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)   |      |      |      |      |      |                      |                            |                            |
| 14.8   | 15.4 |      | 14.2 | 16.2 | 20.9 | Increased, 2007-2017 | Not available              | Increased                  |
| QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)   |      |      |      |      |      |                      |                            |                            |
| 10.1   | 11.3 |      | 12.1 | 13.4 | 15.5 | Increased, 2007-2017 | Not available              | No change                  |
| QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)  |      |      |      |      |      |                      |                            |                            |
| 7.9  | 6.4  |      | 6.9  | 9.8  | 8.6  | No linear change     | Not available              | No change                  |

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10-year Trend Analysis Report

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| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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) |      |      |      |      |      |                  |                            |                         |
| 2.0  | 2.5  |      | 1.9  | 3.2  | 2.9  | 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 10-year Trend Analysis Report

**Total  
Tobacco Use**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)  |      |      |      |      |      |                      |                            |                            |
| 50.9   | 46.5 |      | 39.2 | 34.5 | 28.6 | Decreased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)                |      |      |      |      |      |                      |                            |                            |
| 23.8   | 18.9 |      | 14.9 | 11.0 | 9.2  | Decreased, 2007-2017 | Not available              | No change                  |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) |      |      |      |      |      |                      |                            |                            |
| 11.5   | 6.8  |      | 5.5  | 4.2  | 2.7  | Decreased, 2007-2017 | Not available              | No change                  |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)         |      |      |      |      |      |                      |                            |                            |
| 8.9  | 5.5  |      | 3.9  | 3.1  | 2.0  | Decreased, 2007-2017 | 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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## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Total  
Tobacco Use**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change* | Change from<br>2015-2017 † |                            |           |
|---|------|------|------|------|------|----------------------|-------------------|----------------------------|----------------------------|-----------|
| 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 |
| 15.0  | 13.5 |      | 13.3 | 12.1 | 9.2  | Decreased, 2007-2017 | 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)  |      |      |      |      |      | 28.0                 | 24.2              | Decreased, 2007-2017       | Not available              | No change |
|   |      |      | 21.0 | 17.6 | 13.2 |                      |                   |                            |                            |           |

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

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

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Total**

**Alcohol and Other Drug Use**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                      |                            |                            |
| 20.9  | 20.4 |      | 19.5 | 17.3 | 18.4 | No linear change     | 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)                                    |      |      |      |      |      |                      |                            |                            |
| 44.4  | 39.3 |      | 35.6 | 34.5 | 32.0 | Decreased, 2007-2017 | Not available              | 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              | No change                  |
| QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 19.0  | 20.6 |      | 20.5 | 16.3 | 19.9 | 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 10-year Trend Analysis Report

**Total  
Sexual Behaviors**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN59: Percentage of students who ever had sexual intercourse   |      |      |      |      |      |                      |                            |                            |
| 52.1   | 48.7 |      | 43.1 | 37.7 | 41.9 | Decreased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| QN60: Percentage of students who had sexual intercourse for the first time before age 13 years   |      |      |      |      |      |                      |                            |                            |
| 6.5  | 5.7  |      | 3.9  | 4.1  | 2.5  | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 40.6   | 35.5 |      | 32.4 | 27.5 | 32.3 | Decreased, 2007-2017 | Not available              | No change                  |
| QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)          |      |      |      |      |      |                      |                            |                            |
| 21.9   | 23.3 |      | 20.7 | 20.4 | 15.5 | No linear change     | Not available              | No change                  |

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

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## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Total  
Sexual Behaviors**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                  |                            |                            |
| 59.3  | 59.8 |      | 58.1 | 56.4 | 51.0 | No linear change | Not available <sup>§</sup> | 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)  |      |      |      |      |      |                  |                            |                            |
| 18.9  | 24.3 |      | 16.0 | 22.9 | 23.7 | No linear change | Not available              | 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              | 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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†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 10-year Trend Analysis Report

**Total  
Sexual Behaviors**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)  |      |      |      |      |      | Increased, 2013-2017 | Not available <sup>§</sup> | No change                  |
|  |      |      | 24.4 | 33.0 | 34.3 |                      |                            |                            |
| 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                  |
|  |      |      | 9.5  | 12.7 | 12.0 |                      |                            |                            |
| QNBCNONE: Percentage of students who did not use any method to prevent pregnancy during last sexual intercourse (among students who were currently sexually active)  |      |      |      |      |      | Increased, 2007-2017 | Not available              | No change                  |
| 10.9   | 8.4  |      | 16.2 | 12.1 | 12.7 |                      |                            |                            |

\*Based on trend 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 10-year Trend Analysis Report

**Total**

**Weight Management and Dietary Behaviors**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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> |      |      |      |      |      |                      |                            |                            |
| 14.2  | 14.3 |      | 15.5 | 13.3 | 15.7 | No linear change     | Not available <sup>¶</sup> | 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>                           |      |      |      |      |      |                      |                            |                            |
| 11.9  | 14.3 |      | 14.9 | 13.1 | 16.6 | No linear change     | Not available              | 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)  |      |      |      |      |      |                      |                            |                            |
| 22.1  | 26.0 |      | 29.2 | 31.3 | 34.3 | Increased, 2007-2017 | Not available              | No change                  |
| QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 13.1  | 13.3 |      | 14.3 | 12.8 | 13.8 | 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,  $p < 0.05$ .

§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  
10-year Trend Analysis Report

Total

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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)                     |      |      |      |      |      |                      |                            |                         |
| 5.4   | 7.1  |      | 7.6  | 6.6  | 7.9  | 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)   |      |      |      |      |      |                      |                            |                         |
| 56.9  | 55.9 |      | 55.0 | 53.6 | 50.5 | Decreased, 2007-2017 | 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)   |      |      |      |      |      |                      |                            |                         |
| 29.1  | 27.8 |      | 24.6 | 24.1 | 23.1 | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                         |
| 18.1  | 17.8 |      | 14.6 | 13.7 | 12.4 | Decreased, 2007-2017 | 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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## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Total**

**Weight Management and Dietary Behaviors**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)      |      |      |      |      |      |                      |                            |                            |
| 35.0  | 37.1 |      | 41.5 | 43.6 | 45.7 | Increased, 2007-2017 | 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)         |      |      |      |      |      |                      |                            |                            |
| 29.2  | 29.0 |      | 27.9 | 34.5 | 33.8 | Increased, 2007-2017 | Not available              | No change                  |
| QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)          |      |      |      |      |      |                      |                            |                            |
| 56.7  | 53.0 |      | 54.5 | 54.8 | 58.4 | 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) |      |      |      |      |      |                      |                            |                            |
| 15.7  | 16.7 |      | 21.7 | 17.7 | 19.6 | Increased, 2007-2017 | Not available              | No change                  |

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**Total**

**Weight Management and Dietary Behaviors**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)                     |      |      |      |      |      |                      |                            |                            |
| 6.6  | 6.7  |      | 6.3  | 6.1  | 8.4  | 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)   |      |      |      |      |      |                      |                            |                            |
| 59.5   | 62.5 |      | 58.5 | 58.0 | 55.4 | Decreased, 2007-2017 | 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)   |      |      |      |      |      |                      |                            |                            |
| 24.9   | 28.5 |      | 24.2 | 21.8 | 21.9 | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 11.3   | 14.3 |      | 11.5 | 10.5 | 9.6  | Decreased, 2007-2017 | 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 10-year Trend Analysis Report

**Total**

**Weight Management and Dietary Behaviors**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN77: Percentage of students who did not drink milk (during the 7 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 18.3   | 16.7 |      | 18.1 | 20.8 | 26.0 | Increased, 2007-2017 | Not available <sup>§</sup> | 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)   |      |      |      |      |      |                      |                            |                            |
| 43.4   | 44.5 |      | 38.0 | 36.0 | 28.8 | Decreased, 2007-2017 | Not available              | 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)   |      |      |      |      |      |                      |                            |                            |
| 28.5   | 29.9 |      | 23.7 | 22.1 | 16.2 | Decreased, 2007-2017 | Not available              | 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) |      |      |      |      |      |                      |                            |                            |
| 14.3   | 15.8 |      | 11.3 | 10.4 | 6.8  | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

| Total<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                  |                            |                            |
| 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 10-year Trend Analysis Report

**Total  
Physical Activity**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                      |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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)  |      |      |      |      |      | 29.6           | 32.4              | 25.6                       | 21.2             | 21.1                       | Decreased, 2007-2017 | 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 10-year Trend Analysis Report

**Total  
Physical Activity**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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) |      |      |      |      |      |                      |                            |                            |
| 21.5  | 22.9 |      | 32.7 | 37.4 | 42.3 | 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)   |      |      |      |      |      |                      |                            |                            |
| 51.2  | 44.4 |      | 46.1 | 46.0 | 49.5 | 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)  |      |      |      |      |      |                      |                            |                            |
| 24.1  | 33.1 |      | 30.9 | 23.0 | 28.6 | 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 10-year Trend Analysis Report

| Total<br>Other | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|----------------|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
|                | 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   |      |      |      |      |      |                      |                            |                            |
|                | 20.8  | 20.6 |      | 24.1 | 22.0 | 26.7 | Increased, 2007-2017 | Not available              | 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 10-year Trend Analysis Report

**Total  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|----------------------------|
| 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)                        |      |      |      |      |      |                  |                            |                            |
| 84.8  | 81.3 |      | 86.7 | 85.7 | 83.4 | No linear change | Not available <sup>§</sup> | 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              | 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)   |      |      |      |      |      |                  |                            |                            |
| 5.1   | 3.8  |      | 9.3  | 6.3  | 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 10-year Trend Analysis Report

**Total  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Total  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Total  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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  
10-year Trend Analysis Report

Total  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from 2015-2017 † |                            |           |
|--|------|------|------|------|------|----------------|-------------------|-------------------------|----------------------------|-----------|
| 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 10-year Trend Analysis Report

**Total  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                  |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|------------------|---------------|-----------|
| 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              | 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 10-year Trend Analysis Report

**Total  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|-----------|
| 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 10-year Trend Analysis Report

#### Male Injury and Violence

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)  |      |      |      |      |      |                      |                            |                            |
| 13.8  | 15.1 |      | 13.5 | 11.9 | 12.0 | Decreased, 2007-2017 | 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)  |      |      |      |      |      |                      |                            |                            |
| 25.5  | 25.6 |      | 19.2 | 19.9 | 16.6 | Decreased, 2007-2017 | Not available              | 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              | 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 10-year Trend Analysis Report

**Male  
Injury and Violence**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                      |                            |                            |
| 29.4  | 25.7 |      | 33.2 | 33.8 | 27.8 | No linear change     | Not available <sup>§</sup> | 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              | 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)   |      |      |      |      |      |                      |                            |                            |
| 6.6   | 4.4  |      | 5.2  | 4.7  | 7.1  | No linear change     | Not available              | No change                  |

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

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

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Male  
Injury and Violence**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                      |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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)  |      |      |      |      |      | 17.5           | 21.3              | 16.7                       | 23.6             | 24.2                       | Increased, 2007-2017 | 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 10-year Trend Analysis Report

#### Male Injury and Violence

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)   |      |      |      |      |      |                      |                            |                            |
| 10.5   | 10.6 |      | 10.1 | 13.2 | 17.5 | Increased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)   |      |      |      |      |      |                      |                            |                            |
| 7.4  | 8.6  |      | 7.5  | 11.0 | 14.2 | Increased, 2007-2017 | Not available              | Increased                  |
| QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)  |      |      |      |      |      |                      |                            |                            |
| 5.1  | 5.0  |      | 5.4  | 9.2  | 8.3  | Increased, 2007-2017 | Not available              | 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) |      |      |      |      |      |                      |                            |                            |
| 1.2  | 1.6  |      | 1.0  | 3.1  | 3.2  | No linear change     | Not available              | No change                  |

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

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

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

**Male  
Tobacco Use**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)  |      |      |      |      |      |                      |                            |                            |
| 50.2   | 46.8 |      | 42.0 | 37.9 | 27.2 | Decreased, 2007-2017 | Not available <sup>§</sup> | Decreased                  |
| QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)                |      |      |      |      |      |                      |                            |                            |
| 24.3   | 18.8 |      | 16.1 | 13.7 | 10.2 | Decreased, 2007-2017 | Not available              | No change                  |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) |      |      |      |      |      |                      |                            |                            |
| 11.0   | 7.0  |      | 5.7  | 5.7  | 2.9  | Decreased, 2007-2017 | Not available              | No change                  |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)         |      |      |      |      |      |                      |                            |                            |
| 8.9  | 6.3  |      | 4.4  | 4.4  | 2.2  | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

Male  
Tobacco Use

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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)   |      |      |      |      |      |                      |                            |                         |
| 19.7  | 16.3 |      | 17.0 | 17.1 | 11.4 | Decreased, 2007-2017 | Not available              | Decreased               |
| QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)  |      |      |      |      |      |                      |                            |                         |
| 29.7  | 25.3 |      | 23.6 | 22.8 | 15.9 | Decreased, 2007-2017 | 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 10-year Trend Analysis Report

#### Male

#### Alcohol and Other Drug Use

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                      |                            |                            |
| 22.9  | 25.8 |      | 22.6 | 20.5 | 19.9 | Decreased, 2007-2017 | 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)                                    |      |      |      |      |      |                      |                            |                            |
| 44.4  | 39.5 |      | 33.8 | 34.8 | 27.5 | Decreased, 2007-2017 | Not available              | 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              | No change                  |
| QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 20.4  | 22.7 |      | 23.7 | 20.0 | 19.8 | 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  
10-year Trend Analysis Report

Male  
Sexual Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                         |
| QN59: Percentage of students who ever had sexual intercourse   |      |      |      |      |      |                      |                            |                         |
| 50.9   | 50.2 |      | 45.4 | 41.2 | 41.2 | Decreased, 2007-2017 | Not available <sup>§</sup> | No change               |
| QN60: Percentage of students who had sexual intercourse for the first time before age 13 years   |      |      |      |      |      |                      |                            |                         |
| 9.7  | 7.9  |      | 5.4  | 5.3  | 3.6  | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                         |
| 37.2   | 34.9 |      | 32.9 | 29.2 | 28.9 | Decreased, 2007-2017 | Not available              | No change               |
| QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)          |      |      |      |      |      |                      |                            |                         |
| 27.8   | 27.3 |      | 23.5 | 22.4 | 17.0 | Decreased, 2007-2017 | 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 10-year Trend Analysis Report

#### Male Sexual Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                      |                            |                            |
| 65.8  | 68.7 |      | 64.3 | 59.8 | 53.0 | Decreased, 2007-2017 | Not available <sup>§</sup> | 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)  |      |      |      |      |      |                      |                            |                            |
| 13.9  | 21.7 |      | 14.5 | 18.8 | 18.9 | No linear change     | Not available              | 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              | 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 10-year Trend Analysis Report

**Male  
Sexual Behaviors**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                  |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|------------------|---------------|-----------|
| 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)  |      |      |      |      |      | 18.1           | 25.4              | 26.3                       | 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) |      |      |      |      |      | 9.1            | 10.9              | 7.6                        | 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)  |      |      |      |      |      | 11.3           | 8.0               | 13.5                       | 13.0             | 9.8                        | 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 10-year Trend Analysis Report

#### Male

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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> |      |      |      |      |      |                      |                            |                            |
| 14.9  | 14.7 |      | 14.7 | 14.3 | 15.2 | No linear change     | Not available <sup>¶</sup> | 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>                           |      |      |      |      |      |                      |                            |                            |
| 15.3  | 18.2 |      | 18.5 | 15.9 | 18.9 | No linear change     | Not available              | 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)  |      |      |      |      |      |                      |                            |                            |
| 21.8  | 27.1 |      | 27.6 | 28.1 | 30.0 | Increased, 2007-2017 | Not available              | No change                  |
| QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 13.0  | 15.5 |      | 16.0 | 14.3 | 15.7 | 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,  $p < 0.05$ .

§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 10-year Trend Analysis Report

#### Male

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)                     |      |      |      |      |      |                      |                            |                            |
| 5.1   | 8.6  |      | 8.5  | 7.4  | 8.4  | 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)   |      |      |      |      |      |                      |                            |                            |
| 57.0  | 54.0 |      | 57.2 | 55.1 | 53.9 | 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)   |      |      |      |      |      |                      |                            |                            |
| 31.4  | 26.7 |      | 26.7 | 24.8 | 23.4 | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 20.8  | 18.2 |      | 16.2 | 15.4 | 13.3 | Decreased, 2007-2017 | 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 10-year Trend Analysis Report

#### Male

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)      |      |      |      |      |      |                      |                            |                            |
| 42.3  | 41.7 |      | 45.0 | 48.5 | 51.0 | Increased, 2007-2017 | 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)         |      |      |      |      |      |                      |                            |                            |
| 27.1  | 26.7 |      | 25.2 | 32.6 | 33.4 | Increased, 2007-2017 | Not available              | No change                  |
| QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)          |      |      |      |      |      |                      |                            |                            |
| 56.7  | 52.9 |      | 51.7 | 52.8 | 57.1 | 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) |      |      |      |      |      |                      |                            |                            |
| 16.8  | 19.6 |      | 21.6 | 18.9 | 21.8 | 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 10-year Trend Analysis Report

#### Male

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)                     |      |      |      |      |      |                      |                            |                            |
| 7.9  | 8.6  |      | 6.1  | 6.8  | 9.0  | 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)   |      |      |      |      |      |                      |                            |                            |
| 57.5   | 60.7 |      | 60.9 | 60.2 | 55.8 | 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)   |      |      |      |      |      |                      |                            |                            |
| 25.0   | 29.6 |      | 24.2 | 23.5 | 23.5 | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 10.8   | 16.3 |      | 10.7 | 12.1 | 11.0 | No linear change     | Not available              | No change                  |

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

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

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

#### Male

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN77: Percentage of students who did not drink milk (during the 7 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 12.2   | 14.0 |      | 13.8 | 14.8 | 20.9 | Increased, 2007-2017 | Not available <sup>§</sup> | 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)   |      |      |      |      |      |                      |                            |                            |
| 51.7   | 52.1 |      | 45.2 | 44.8 | 35.1 | Decreased, 2007-2017 | Not available              | 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)   |      |      |      |      |      |                      |                            |                            |
| 36.2   | 37.3 |      | 29.8 | 29.0 | 20.3 | Decreased, 2007-2017 | Not available              | 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) |      |      |      |      |      |                      |                            |                            |
| 19.2   | 20.2 |      | 16.0 | 13.8 | 8.5  | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

Male

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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 10-year Trend Analysis Report

#### Male Physical Activity

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                      |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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)  |      |      |      |      |      | 30.1           | 35.0              | 26.8                       | 18.1             | 20.0                       | Decreased, 2007-2017 | 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 10-year Trend Analysis Report

**Male  
Physical Activity**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                      |                            |                            |
| 60.6  | 54.8 |      | 53.5 | 55.6 | 56.4 | 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)  |      |      |      |      |      |                      |                            |                            |
| 30.6  | 40.4 |      | 37.0 | 28.2 | 32.3 | 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  
10-year Trend Analysis Report

| Male<br>Other | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---------------|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
|               | 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   |      |      |      |      |      |                      |                            |                            |
|               | 20.6  | 21.6 |      | 21.5 | 23.5 | 27.7 | Increased, 2007-2017 | Not available              | 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 10-year Trend Analysis Report

**Male  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)                        |      |      |      |      |      |                      |                            |                            |
| 84.6  | 83.8 |      | 86.8 | 88.1 | 85.3 | No linear change     | Not available <sup>§</sup> | 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              | 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)   |      |      |      |      |      |                      |                            |                            |
| 5.4   | 4.6  |      | 11.2 | 8.7  | 6.3  | Increased, 2007-2017 | 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 10-year Trend Analysis Report

**Male  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

Male  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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) |      |      |      |      |      | 76.3           | 75.3              | 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  |      |      |      |      |      | 32.0           | 38.6              | Increased, 2015-2017       | Not available              | Increased     |           |
| QN105: Percentage of students who live with someone that smokes cigarettes  |      |      |      |      |      | 40.1           | 39.3              | 36.3                       | 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)                                      |      |      |      |      |      | 32.1           | 29.4              | 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)                                |      |      |      |      |      | 32.0           | 33.6              | 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 10-year Trend Analysis Report

**Male  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Male  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|-----------|
| 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 10-year Trend Analysis Report

Male  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|----------------------------|
| 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 10-year Trend Analysis Report

**Male  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|-----------|
| 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 10-year Trend Analysis Report

**Female  
Injury and Violence**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)  |      |      |      |      |      |                      |                            |                            |
| 9.8   | 8.6  |      | 9.0  | 4.4  | 5.9  | Decreased, 2007-2017 | 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)  |      |      |      |      |      |                      |                            |                            |
| 29.7  | 23.4 |      | 19.4 | 16.8 | 14.7 | Decreased, 2007-2017 | Not available              | 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              | 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 10-year Trend Analysis Report

**Female  
Injury and Violence**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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)   |      |      |      |      |      |                      |                            |                            |
| 7.5   | 5.9  |      | 10.6 | 10.8 | 11.5 | Increased, 2007-2017 | Not available <sup>§</sup> | 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              | 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)   |      |      |      |      |      |                      |                            |                            |
| 14.0  | 12.0 |      | 15.4 | 11.9 | 13.3 | 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 10-year Trend Analysis Report

#### Female Injury and Violence

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                      |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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) |      |      |      |      |      | 11.6           | 10.2              | 11.4                       | 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)   |      |      |      |      |      | 24.5           | 30.4              | 22.9                       | 27.0             | 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)   |      |      |      |      |      | 21.4           | 23.8              | No linear change           | Not available    | No change                  |                      |               |           |
| QN25: Percentage of students who felt sad or hopeless (almost every day for $\geq 2$ weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey)   |      |      |      |      |      | 29.5           | 33.2              | 38.4                       | 31.3             | 38.3                       | Increased, 2007-2017 | 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 10-year Trend Analysis Report

**Female  
Injury and Violence**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                  |                            |                            |
| QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)   |      |      |      |      |      |                  |                            |                            |
| 19.4   | 20.6 |      | 18.6 | 18.9 | 24.1 | No linear change | Not available <sup>§</sup> | Increased                  |
| QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)   |      |      |      |      |      |                  |                            |                            |
| 12.9   | 14.2 |      | 16.4 | 15.8 | 16.6 | No linear change | Not available              | No change                  |
| QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)  |      |      |      |      |      |                  |                            |                            |
| 10.7   | 7.9  |      | 8.0  | 10.3 | 8.4  | No linear change | Not available              | 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) |      |      |      |      |      |                  |                            |                            |
| 2.9  | 3.3  |      | 2.8  | 3.2  | 2.6  | 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 10-year Trend Analysis Report

**Female  
Tobacco Use**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)  |      |      |      |      |      |                      |                            |                            |
| 51.3   | 46.0 |      | 36.0 | 31.3 | 30.0 | Decreased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)                |      |      |      |      |      |                      |                            |                            |
| 23.2   | 19.1 |      | 13.2 | 8.1  | 8.1  | Decreased, 2007-2017 | Not available              | No change                  |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) |      |      |      |      |      |                      |                            |                            |
| 11.8   | 6.6  |      | 5.4  | 2.8  | 2.4  | Decreased, 2007-2017 | Not available              | No change                  |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)         |      |      |      |      |      |                      |                            |                            |
| 8.7  | 4.8  |      | 3.4  | 1.8  | 1.8  | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

Female  
Tobacco Use

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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)   |      |      |      |      |      |                      |                            |                         |
| 10.0  | 10.5 |      | 9.3  | 7.1  | 6.8  | Decreased, 2007-2017 | 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)  |      |      |      |      |      |                      |                            |                         |
| 26.1  | 23.0 |      | 17.7 | 12.2 | 10.4 | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

Female  
Alcohol and Other Drug Use

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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)   |      |      |      |      |      |                      |                            |                         |
| 18.6  | 14.7 |      | 16.2 | 14.2 | 16.9 | No linear change     | 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)                                    |      |      |      |      |      |                      |                            |                         |
| 44.1  | 39.1 |      | 37.4 | 34.3 | 36.1 | Decreased, 2007-2017 | Not available              | 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              | No change               |
| QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)  |      |      |      |      |      |                      |                            |                         |
| 17.4  | 18.4 |      | 17.0 | 12.6 | 19.5 | No linear change     | Not available              | Increased               |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

#### Female Sexual Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN59: Percentage of students who ever had sexual intercourse   |      |      |      |      |      |                      |                            |                            |
| 53.1   | 47.3 |      | 40.7 | 35.1 | 42.4 | Decreased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| QN60: Percentage of students who had sexual intercourse for the first time before age 13 years   |      |      |      |      |      |                      |                            |                            |
| 3.2  | 3.4  |      | 2.4  | 2.9  | 1.2  | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 43.7   | 36.3 |      | 31.9 | 26.1 | 35.6 | Decreased, 2007-2017 | Not available              | Increased                  |
| QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)          |      |      |      |      |      |                      |                            |                            |
| 16.8   | 19.4 |      | 17.9 | 18.0 | 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  
10-year Trend Analysis Report

Female  
Sexual Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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)   |      |      |      |      |      |                  |                            |                         |
| 53.8  | 51.1 |      | 51.8 | 53.5 | 49.5 | No linear change | Not available <sup>§</sup> | 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)  |      |      |      |      |      |                  |                            |                         |
| 23.2  | 27.0 |      | 17.6 | 27.1 | 27.4 | No linear change | Not available              | 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              | 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 10-year Trend Analysis Report

**Female  
Sexual Behaviors**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                      |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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)  |      |      |      |      |      | 30.8           | 40.7              | 40.5                       | 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) |      |      |      |      |      | 10.0           | 14.7              | 15.4                       | 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)  |      |      |      |      |      | 10.4           | 8.7               | 18.9                       | 10.5             | 14.9                       | Increased, 2007-2017 | 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 10-year Trend Analysis Report

| Female<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                      |                            |                            |
| 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  | 13.8 |      | 16.3 | 12.4 | 16.2 | No linear change     | Not available <sup>¶</sup> | 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>                           |      |      |      |      |      |                      |                            |                            |
| 8.5   | 10.4 |      | 11.1 | 10.3 | 14.4 | Increased, 2007-2017 | Not available              | 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)  |      |      |      |      |      |                      |                            |                            |
| 22.6  | 25.0 |      | 31.3 | 34.3 | 38.8 | Increased, 2007-2017 | Not available              | No change                  |
| QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)  |      |      |      |      |      |                      |                            |                            |
| 13.3  | 11.0 |      | 12.2 | 11.3 | 11.8 | 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,  $p < 0.05$ .

§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 10-year Trend Analysis Report

| Female<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                      |                            |                            |
| 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)                     |      |      |      |      |      |                      |                            |                            |
| 5.8   | 5.5  |      | 6.8  | 5.7  | 7.4  | 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)   |      |      |      |      |      |                      |                            |                            |
| 56.6  | 57.9 |      | 52.4 | 52.1 | 47.0 | Decreased, 2007-2017 | 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)   |      |      |      |      |      |                      |                            |                            |
| 26.8  | 29.0 |      | 22.7 | 23.4 | 22.6 | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 15.4  | 17.2 |      | 13.2 | 12.2 | 11.1 | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

| Female<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                      |                            |                            |
| 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, 2007-2017 | Not available <sup>§</sup> | No change                  |
| 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)         |      |      |      |      |      | No linear change     | Not available              | No change                  |
| 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     | Not available              | No change                  |
| 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) |      |      |      |      |      | No linear change     | Not available              | No change                  |
| 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.

§Not enough years of data to calculate.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

| Female<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                      |                            |                            |
| 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)                     |      |      |      |      |      |                      |                            |                            |
| 5.3  | 4.7  |      | 6.3  | 5.5  | 7.7  | 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)   |      |      |      |      |      |                      |                            |                            |
| 61.6   | 64.2 |      | 56.3 | 56.1 | 54.9 | Decreased, 2007-2017 | 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)   |      |      |      |      |      |                      |                            |                            |
| 24.5   | 27.2 |      | 24.2 | 20.2 | 20.1 | Decreased, 2007-2017 | 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) |      |      |      |      |      |                      |                            |                            |
| 11.5   | 12.2 |      | 12.4 | 8.9  | 7.9  | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

| Female<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                      |                            |                            |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                      |                            |                            |
| QN77: Percentage of students who did not drink milk (during the 7 days before the survey)  |      |      |      |      |      | Increased, 2007-2017 | Not available <sup>§</sup> | No change                  |
| 24.6   | 19.5 |      | 22.8 | 26.3 | 30.8 |                      |                            |                            |
| 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)   |      |      |      |      |      | Decreased, 2007-2017 | Not available              | No change                  |
| 34.9   | 36.7 |      | 30.5 | 28.1 | 22.5 |                      |                            |                            |
| 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)   |      |      |      |      |      | Decreased, 2007-2017 | Not available              | No change                  |
| 20.7   | 22.1 |      | 17.7 | 15.8 | 12.0 |                      |                            |                            |
| 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) |      |      |      |      |      | Decreased, 2007-2017 | Not available              | No change                  |
| 9.1  | 11.3 |      | 6.6  | 7.1  | 4.9  |                      |                            |                            |

\*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  
10-year Trend Analysis Report

| Female<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|----------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                  |                            |                            |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                  |                            |                            |
| QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)           |      |      |      |      |      | 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) |      |      |      |      |      | 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 10-year Trend Analysis Report

**Female  
Physical Activity**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                      |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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)  |      |      |      |      |      | 29.1           | 29.8              | 24.5                       | 23.9             | 22.0                       | Decreased, 2007-2017 | 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  
10-year Trend Analysis Report

Female  
Physical Activity

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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)   |      |      |      |      |      |                      |                            |                         |
| 41.5  | 33.4 |      | 38.3 | 36.9 | 42.6 | 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)  |      |      |      |      |      |                      |                            |                         |
| 17.4  | 25.4 |      | 24.4 | 18.2 | 24.9 | 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  
10-year Trend Analysis Report

| Female<br>Other | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|-----------------|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
|                 | 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   |      |      |      |      |      |                      |                            |                            |
|                 | 20.9  | 19.7 |      | 26.5 | 20.6 | 25.9 | Increased, 2007-2017 | Not available              | 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 10-year Trend Analysis Report

**Female  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|----------------------------|
| 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)                        |      |      |      |      |      |                  |                            |                            |
| 85.4  | 77.4 |      | 86.4 | 82.9 | 80.9 | No linear change | Not available <sup>§</sup> | 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              | 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)   |      |      |      |      |      |                  |                            |                            |
| 4.5   | 3.0  |      | 6.9  | 3.8  | 2.8  | 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 10-year Trend Analysis Report

**Female  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|-----------|
| 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 10-year Trend Analysis Report

**Female  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Female  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Female  
Site-Added**

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|-----------|
| 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 10-year Trend Analysis Report

**Female  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |                  |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|------------------|---------------|-----------|
| 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  
10-year Trend Analysis Report

Female  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from 2015-2017 † |                            |           |
|--|------|------|------|------|------|----------------|-------------------|-------------------------|----------------------------|-----------|
| 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  
10-year 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> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)  |      |      |      |      |      |                            |                               |                                    |
| 10.2  | 9.4  |      | 9.8  | 7.2  | 7.8  | No linear change           | 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)  |      |      |      |      |      |                            |                               |                                    |
| 27.1  | 24.5 |      | 17.4 | 17.5 | 14.3 | Decreased, 2007-2017       | Not available                 | 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                 | 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 10-year Trend Analysis Report

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

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| 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)   |      |      |      |      |      |                            |                               |                                       |
| 17.6  | 14.9 |      | 23.6 | 23.4 | 21.8 | Increased, 2007-2017       | Not available <sup>¶</sup>    | 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                 | 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)   |      |      |      |      |      |                            |                               |                                       |
| 10.0  | 7.3  |      | 8.5  | 7.5  | 9.8  | 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 10-year Trend Analysis Report

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

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |                  |                            |                      |               |           |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|------------------|----------------------------|----------------------|---------------|-----------|
| 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)   |      |      |      |      |      | 23.0                       | 25.6                          | 25.6                                  | 26.4             | 31.7                       | Increased, 2007-2017 | 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 10-year Trend Analysis Report

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

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)   |      |      |      |      |      |                            |                               |                                       |
| 14.9   | 14.2 |      | 14.2 | 16.9 | 20.4 | Increased, 2007-2017       | Not available <sup>¶</sup>    | No change                             |
| QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)   |      |      |      |      |      |                            |                               |                                       |
| 10.0   | 10.3 |      | 12.2 | 13.0 | 16.1 | Increased, 2007-2017       | Not available                 | No change                             |
| QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)  |      |      |      |      |      |                            |                               |                                       |
| 7.4  | 5.3  |      | 6.0  | 8.9  | 7.8  | No linear change           | Not available                 | 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) |      |      |      |      |      |                            |                               |                                       |
| 1.9  | 1.9  |      | 1.8  | 2.9  | 2.2  | 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  
10-year 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> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                    |
| QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)  |      |      |      |      |      |                            |                               |                                    |
| 49.3   | 45.5 |      | 38.1 | 33.9 | 30.6 | Decreased, 2007-2017       | Not available <sup>¶</sup>    | No change                          |
| QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)                |      |      |      |      |      |                            |                               |                                    |
| 25.2   | 19.4 |      | 14.4 | 12.0 | 9.9  | Decreased, 2007-2017       | Not available                 | No change                          |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) |      |      |      |      |      |                            |                               |                                    |
| 12.1   | 6.7  |      | 5.4  | 4.6  | 2.9  | Decreased, 2007-2017       | Not available                 | No change                          |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)         |      |      |      |      |      |                            |                               |                                    |
| 9.9  | 5.6  |      | 3.9  | 3.5  | 2.1  | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| White*<br>Tobacco Use   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                    |
| 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)   |      |      |      |      |      |                            |                               |                                    |
| 14.2  | 12.1 |      | 11.7 | 12.2 | 9.4  | Decreased, 2007-2017       | 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)  |      |      |      |      |      |                            |                               |                                    |
| 28.5  | 23.6 |      | 19.9 | 18.1 | 13.6 | Decreased, 2007-2017       | 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 10-year Trend Analysis Report

| White*<br>Alcohol and Other Drug Use  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                       |
| 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)   |      |      |      |      |      |                            |                               |                                       |
| 20.0  | 17.9 |      | 18.9 | 15.3 | 18.4 | No linear change           | 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)                                    |      |      |      |      |      |                            |                               |                                       |
| 47.0  | 40.0 |      | 36.1 | 37.0 | 34.0 | Decreased, 2007-2017       | Not available                 | 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                 | No change                             |
| QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)  |      |      |      |      |      |                            |                               |                                       |
| 17.5  | 18.4 |      | 17.9 | 14.7 | 19.2 | 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 10-year Trend Analysis Report

| White*<br>Sexual Behaviors   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN59: Percentage of students who ever had sexual intercourse   |      |      |      |      |      |                            |                               |                                       |
| 48.8   | 43.9 |      | 39.4 | 37.1 | 41.9 | Decreased, 2007-2017       | Not available <sup>¶</sup>    | No change                             |
| QN60: Percentage of students who had sexual intercourse for the first time before age 13 years   |      |      |      |      |      |                            |                               |                                       |
| 4.0  | 2.9  |      | 2.2  | 2.9  | 1.9  | Decreased, 2007-2017       | 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) |      |      |      |      |      |                            |                               |                                       |
| 38.2   | 32.4 |      | 30.5 | 27.6 | 33.0 | Decreased, 2007-2017       | Not available                 | No change                             |
| QN63: Percentage of students who drank alcohol or used drugs before last sexual intercourse (among students who were currently sexually active)          |      |      |      |      |      |                            |                               |                                       |
| 23.1   | 23.7 |      | 18.3 | 20.7 | 15.6 | 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 10-year Trend Analysis Report

| White*<br>Sexual Behaviors  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                       |
| 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)   |      |      |      |      |      |                            |                               |                                       |
| 57.5  | 57.5 |      | 56.4 | 56.3 | 51.6 | No linear change           | Not available <sup>¶</sup>    | 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)  |      |      |      |      |      |                            |                               |                                       |
| 22.5  | 30.0 |      | 17.9 | 24.4 | 26.4 | No linear change           | Not available                 | 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                 | 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  
10-year Trend Analysis Report

| White*<br>Sexual Behaviors   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 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)  |      |      |      |      |      |                            |                               |                                       |
| 9.0  | 6.5  |      | 13.7 | 9.3  | 10.8 | 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 10-year 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> |
| 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> |      |      |      |      |      |                            |                               |                                    |
| 13.0  | 12.4 |      | 15.0 | 12.2 | 15.5 | No linear change           | Not available**               | 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>                           |      |      |      |      |      |                            |                               |                                    |
| 10.0  | 14.1 |      | 14.5 | 12.2 | 15.6 | No linear change           | Not available                 | 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)  |      |      |      |      |      |                            |                               |                                    |
| 23.3  | 26.8 |      | 29.8 | 33.1 | 35.6 | Increased, 2007-2017       | Not available                 | No change                          |
| QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)  |      |      |      |      |      |                            |                               |                                    |
| 11.3  | 11.5 |      | 14.1 | 12.5 | 12.3 | 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>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 10-year 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> |
| 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)                     |      |      |      |      |      |                            |                               |                                    |
| 5.0   | 6.3  |      | 7.4  | 6.6  | 7.2  | 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)   |      |      |      |      |      |                            |                               |                                    |
| 56.0  | 55.1 |      | 54.2 | 52.4 | 49.2 | Decreased, 2007-2017       | 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)   |      |      |      |      |      |                            |                               |                                    |
| 27.7  | 25.5 |      | 23.1 | 22.8 | 22.1 | Decreased, 2007-2017       | 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) |      |      |      |      |      |                            |                               |                                    |
| 16.0  | 15.2 |      | 12.5 | 12.1 | 10.9 | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| White*<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                       |
| 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)      |      |      |      |      |      |                            |                               |                                       |
| 32.5  | 33.9 |      | 40.0 | 40.7 | 44.2 | Increased, 2007-2017       | 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)         |      |      |      |      |      |                            |                               |                                       |
| 26.1  | 26.6 |      | 26.3 | 33.2 | 30.5 | Increased, 2007-2017       | Not available                 | No change                             |
| QN74: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey)          |      |      |      |      |      |                            |                               |                                       |
| 53.2  | 50.0 |      | 51.9 | 52.0 | 56.6 | 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) |      |      |      |      |      |                            |                               |                                       |
| 13.5  | 13.9 |      | 19.5 | 14.1 | 18.0 | Increased, 2007-2017       | 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 10-year Trend Analysis Report

| White*   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| Weight Management and Dietary Behaviors  |      |      |      |      |      |                            |                               |                                    |
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                    |
| 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)                     |      |      |      |      |      |                            |                               |                                    |
| 4.8  | 5.0  |      | 5.1  | 4.5  | 7.3  | 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)   |      |      |      |      |      |                            |                               |                                    |
| 62.7   | 65.6 |      | 60.7 | 60.7 | 57.4 | Decreased, 2007-2017       | 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)   |      |      |      |      |      |                            |                               |                                    |
| 24.7   | 29.7 |      | 24.2 | 21.3 | 21.9 | Decreased, 2007-2017       | 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) |      |      |      |      |      |                            |                               |                                    |
| 10.3   | 13.4 |      | 10.1 | 9.7  | 8.5  | Decreased, 2007-2017       | 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 10-year Trend Analysis Report

| White*<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN77: Percentage of students who did not drink milk (during the 7 days before the survey)  |      |      |      |      |      |                            |                               |                                       |
| 15.2   | 12.9 |      | 15.6 | 17.9 | 22.3 | Increased, 2007-2017       | 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)   |      |      |      |      |      |                            |                               |                                       |
| 46.6   | 48.1 |      | 41.4 | 39.1 | 30.8 | Decreased, 2007-2017       | Not available                 | 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)   |      |      |      |      |      |                            |                               |                                       |
| 30.3   | 31.5 |      | 25.9 | 24.2 | 17.4 | Decreased, 2007-2017       | Not available                 | 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) |      |      |      |      |      |                            |                               |                                       |
| 14.6   | 16.1 |      | 12.2 | 11.2 | 7.5  | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| White*<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>†</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)           |      |      |      |      |      | 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) |      |      |      |      |      | 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  
10-year Trend Analysis Report

| White*<br>Physical Activity   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                       |
| 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)                  |      |      |      |      |      |                            |                               |                                       |
|   |      |      | 47.5 | 48.7 | 48.1 | 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) |      |      |      |      |      |                            |                               |                                       |
|   |      |      | 17.7 | 13.7 | 15.1 | 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)                  |      |      |      |      |      |                            |                               |                                       |
|   |      |      | 28.4 | 27.9 | 29.7 | 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)  |      |      |      |      |      |                            |                               |                                       |
| 22.7  | 26.1 |      | 21.8 | 18.8 | 19.4 | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| White*<br>Physical Activity   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                    |
| 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)   |      |      |      |      |      |                            |                               |                                    |
| 50.8  | 41.9 |      | 45.1 | 44.6 | 48.2 | 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)  |      |      |      |      |      |                            |                               |                                    |
| 24.9  | 33.3 |      | 33.0 | 24.8 | 29.1 | 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  
10-year Trend Analysis Report

| White*<br>Other | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|-----------------|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
|                 | 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   |      |      |      |      |      |                            |                               |                                       |
|                 | 19.8  | 18.7 |      | 23.3 | 20.3 | 25.1 | Increased, 2007-2017       | Not available                 | 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 10-year Trend Analysis Report

White\*  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| 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)                        |      |      |      |      |      |                            |                               |                                       |
| 83.3  | 79.7 |      | 86.3 | 84.5 | 81.8 | No linear change           | Not available <sup>¶</sup>    | 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                 | 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)   |      |      |      |      |      |                            |                               |                                       |
| 3.4   | 2.4  |      | 8.0  | 5.3  | 4.0  | Increased, 2007-2017       | 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  
10-year 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> |                            |               |           |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

White\*  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |                            |               |           |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

| White*<br>Site-Added   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |                            |               |           |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|----------------------------|---------------|-----------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |                            |               |           |
| 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 10-year Trend Analysis Report

White\*  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |                            |           |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|----------------------------|-----------|
| 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    |      |      |      |      |      | 69.9                       | 65.0                          | 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                       | 79.7                          | No linear change                      | Not available              | No change |
| QN114: Percentage of students who think people should never allow smoking in their vehicles                              |      |      |      |      |      | 75.3                       | 74.5                          | 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 |      |      |      |      |      | 86.6                       | 87.8                          | 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  
10-year 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> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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 10-year Trend Analysis Report

| White*<br>Site-Added   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |                            |           |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|----------------------------|-----------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |                            |           |
| 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  
10-year 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> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)   |      |      |      |      |      |                            |                               |                                    |
| 17.0   | 21.3 |      | 14.6 | 11.6 | 13.7 | No linear change           | 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) |      |      |      |      |      |                            |                               |                                    |
| 25.2   | 26.0 |      | 23.7 | 20.5 | 19.7 | No linear change           | 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)                            |      |      |      |      |      |                            |                               |                                    |
| 19.2   | 19.1 |      | 12.2 | 14.8 | 9.8  | Decreased, 2007-2017       | 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)         |      |      |      |      |      |                            |                               |                                    |
|  |      |      |      | 3.5  | 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 10-year Trend Analysis Report

| Black*<br>Injury and Violence  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 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)  |      |      |      |      |      |                            |                               |                                       |
| 10.4   | 8.6  |      | 16.6 | 10.1 | 8.0  | No linear change           | Not available                 | No change                             |
| QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey)   |      |      |      |      |      |                            |                               |                                       |
|  | 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 10-year Trend Analysis Report

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

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN25: Percentage of students who felt sad or hopeless (almost every day for $\geq 2$ weeks in a row so that they stopped doing some usual activities, ever during the 12 months before the survey) |      |      |      |      |      |                            |                               |                                       |
| 23.3   | 29.5 |      | 30.2 | 26.8 | 26.0 | No linear change           | Not available <sup>¶</sup>    | No change                             |
| QN26: Percentage of students who seriously considered attempting suicide (ever during the 12 months before the survey)   |      |      |      |      |      |                            |                               |                                       |
| 12.0   | 17.1 |      | 11.4 | 11.1 | 18.7 | No linear change           | Not available                 | No change                             |
| QN27: Percentage of students who made a plan about how they would attempt suicide (during the 12 months before the survey)   |      |      |      |      |      |                            |                               |                                       |
| 9.0  | 12.3 |      | 7.4  | 13.8 | 8.5  | No linear change           | Not available                 | No change                             |
| QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)  |      |      |      |      |      |                            |                               |                                       |
| 9.0  | 8.5  |      | 5.4  | 12.6 | 6.9  | 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  
10-year Trend Analysis Report

| Black*<br>Injury and Violence  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>†</sup> | Change from 2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                    |
| 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) |      |      |      |      |      |                            |                               |                                    |
| 1.5  | 3.9  |      | 0.8  | 3.1  | 4.1  | 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  
10-year 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> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                    |
| QN30: Percentage of students who ever tried cigarette smoking (even one or two puffs)  |      |      |      |      |      |                            |                               |                                    |
| 54.6   | 48.2 |      | 41.7 | 35.7 | 17.0 | Decreased, 2007-2017       | Not available <sup>¶</sup>    | Decreased                          |
| QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey)                |      |      |      |      |      |                            |                               |                                    |
| 15.0   | 15.7 |      | 11.3 | 5.9  | 5.0  | Decreased, 2007-2017       | Not available                 | No change                          |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) |      |      |      |      |      |                            |                               |                                    |
| 7.3  | 5.0  |      | 4.3  | 2.9  | 1.1  | Decreased, 2007-2017       | Not available                 | No change                          |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey)         |      |      |      |      |      |                            |                               |                                    |
| 3.7  | 3.2  |      | 3.4  | 1.8  | 1.1  | 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  
10-year Trend Analysis Report

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)   |      |      |      |      |      |                            |                               |                                    |
| 16.6  | 17.2 |      | 15.2 | 10.6 | 8.1  | Decreased, 2007-2017       | 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)  |      |      |      |      |      |                            |                               |                                    |
| 24.0  | 24.6 |      | 20.8 | 14.2 | 10.9 | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)                                    |      |      |      |      |      |                            |                               |                                    |
| 22.4   | 26.3 |      | 16.0 | 25.8 | 16.8 | No linear change           | 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) |      |      |      |      |      |                            |                               |                                    |
| 29.8   | 37.6 |      | 29.1 | 24.9 | 22.9 | Decreased, 2007-2017       | Not available                 | No change                          |
| QN48: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey)                               |      |      |      |      |      |                            |                               |                                    |
| 24.3   | 29.3 |      | 28.2 | 21.3 | 21.7 | 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  
10-year 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> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                    |
| QN59: Percentage of students who ever had sexual intercourse   |      |      |      |      |      |                            |                               |                                    |
| 67.4   | 70.2 |      | 60.7 | 41.8 | 41.7 | Decreased, 2007-2017       | Not available <sup>¶</sup>    | No change                          |
| QN60: Percentage of students who had sexual intercourse for the first time before age 13 years   |      |      |      |      |      |                            |                               |                                    |
| 16.3   | 14.5 |      | 10.2 | 8.7  | 4.3  | Decreased, 2007-2017       | 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) |      |      |      |      |      |                            |                               |                                    |
| 52.2   | 48.2 |      | 40.0 | 25.9 | 31.0 | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| Black*<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                       |
| 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> |      |      |      |      |      |                            |                               |                                       |
| 18.0  | 20.6 |      | 18.8 | 17.7 | 17.6 | No linear change           | Not available**               | 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>                           |      |      |      |      |      |                            |                               |                                       |
| 20.2  | 15.5 |      | 16.2 | 17.2 | 17.6 | No linear change           | Not available                 | 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)  |      |      |      |      |      |                            |                               |                                       |
| 17.3  | 23.2 |      | 28.6 | 22.9 | 29.3 | Increased, 2007-2017       | Not available                 | No change                             |
| QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)  |      |      |      |      |      |                            |                               |                                       |
| 22.0  | 20.2 |      | 12.8 | 14.6 | 17.9 | 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>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  
10-year 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> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)                     |      |      |      |      |      |                            |                               |                                    |
| 7.3   | 10.4 |      | 8.8  | 6.6  | 8.3  | 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)   |      |      |      |      |      |                            |                               |                                    |
| 57.8  | 58.6 |      | 59.4 | 56.4 | 55.6 | 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)   |      |      |      |      |      |                            |                               |                                    |
| 32.6  | 34.1 |      | 32.3 | 27.8 | 22.4 | Decreased, 2007-2017       | 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) |      |      |      |      |      |                            |                               |                                    |
| 25.0  | 24.9 |      | 25.3 | 21.1 | 15.7 | 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  
10-year Trend Analysis Report

| Black*<br>Weight Management and Dietary Behaviors   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages  |      |      |      |      |      |                            |                               |                                       |
| 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           | Not available <sup>¶</sup>    | No change                             |
| 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           | Not available                 | No change                             |
| 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           | Not available                 | No change                             |
| 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) |      |      |      |      |      | No linear change           | Not available                 | No change                             |
| 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.

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

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

| <b>Black*</b><br><b>Weight Management and Dietary Behaviors</b>  |             |             |             |             |             | <b>Linear Change<sup>†</sup></b> | <b>Quadratic Change<sup>‡</sup></b> | <b>Change from<br/>2015-2017<sup>§</sup></b> |
|--|-------------|-------------|-------------|-------------|-------------|----------------------------------|-------------------------------------|--|
| <b>Health Risk Behavior and Percentages</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)                     |             |             |             |             |             |                                  |                                     |  |
| 13.9   | 13.4        |             | 12.1        | 11.5        | 9.7         | 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)   |             |             |             |             |             |                                  |                                     |  |
| 44.9   | 49.0        |             | 45.7        | 48.0        | 46.3        | 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)   |             |             |             |             |             |                                  |                                     |  |
| 22.6   | 21.7        |             | 21.3        | 23.5        | 15.6        | 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) |             |             |             |             |             |                                  |                                     |  |
| 14.5   | 15.4        |             | 13.3        | 15.5        | 8.6         | 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  
10-year Trend Analysis Report

| Black*<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN77: Percentage of students who did not drink milk (during the 7 days before the survey)  |      |      |      |      |      |                            |                               |                                       |
| 32.2   | 33.3 |      | 29.8 | 35.8 | 41.3 | 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)   |      |      |      |      |      |                            |                               |                                       |
| 28.5   | 29.6 |      | 22.6 | 20.7 | 19.7 | Decreased, 2007-2017       | 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)   |      |      |      |      |      |                            |                               |                                       |
| 18.3   | 22.8 |      | 12.2 | 10.9 | 12.0 | Decreased, 2007-2017       | 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) |      |      |      |      |      |                            |                               |                                       |
| 10.6   | 13.8 |      | 6.5  | 6.0  | 5.4  | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| Black*<br>Weight Management and Dietary Behaviors  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>†</sup> | Change from<br>2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
| Health Risk Behavior and Percentages   |      |      |      |      |      |                            |                               |                                       |
| 2007   | 2009 | 2011 | 2013 | 2015 | 2017 |                            |                               |                                       |
| QN78: Percentage of students who did not eat breakfast (during the 7 days before the survey)           |      |      |      |      |      | 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) |      |      |      |      |      | 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  
10-year Trend Analysis Report

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)                  |      |      |      |      |      |                            |                               |                                    |
|   |      |      | 39.3 | 37.9 | 39.5 | 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) |      |      |      |      |      |                            |                               |                                    |
|   |      |      | 13.8 | 23.7 | 23.3 | 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)                  |      |      |      |      |      |                            |                               |                                    |
|   |      |      | 24.0 | 19.5 | 24.5 | 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)  |      |      |      |      |      |                            |                               |                                    |
| 59.1  | 58.0 |      | 43.8 | 32.3 | 29.9 | Decreased, 2007-2017       | 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  
10-year Trend Analysis Report

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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)   |      |      |      |      |      |                            |                               |                                    |
| 50.7  | 52.8 |      | 46.0 | 50.7 | 55.0 | 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)  |      |      |      |      |      |                            |                               |                                    |
| 20.7  | 30.1 |      | 20.6 | 16.0 | 25.4 | 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  
10-year Trend Analysis Report

| Black*<br>Other | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|-----------------|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
|                 | 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) |      |      |      |      |      |                            |                               |                                       |
|                 |   |      |      |      | 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   |      |      |      |      |      |                            |                               |                                       |
|                 | 25.4  | 28.0 |      | 28.4 | 31.0 | 32.0 | Increased, 2007-2017       | Not available                 | 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  
10-year Trend Analysis Report

Black\*  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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) |      |      |      |      |      |                            |                               |                                    |
| 10.3  | 7.9  |      | 9.7  | 9.6  | 5.2  | No linear change           | Not available                 | 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 10-year Trend Analysis Report

| Black*<br>Site-Added | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |                            |               |           |
|----------------------|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|----------------------------|---------------|-----------|
|                      | 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  
10-year Trend Analysis Report

Black\*  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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.

## 2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

### Missouri High School Survey 10-year Trend Analysis Report

| Black*<br>Site-Added | Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from<br>2015-2017 <sup>§</sup> |
|----------------------|---|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|
|                      | 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

Missouri High School Survey  
10-year Trend Analysis Report

Black\*  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>‡</sup> | Change from 2015-2017 <sup>§</sup> |
|---|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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   |      |      |      |      |      |                            |                               |                                    |
| 17.4  | 16.3 |      | 18.6 | 18.4 | 19.2 | 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) |      |      |      |      |      |                            |                               |                                    |
|   |      |      |      | 9.2  | 8.4  | 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)  |      |      |      |      |      |                            |                               |                                    |
|   |      |      |      | 50.7 | 54.2 | 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   |      |      |      |      |      |                            |                               |                                    |
|   |      |      |      | 50.1 | 54.4 | 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  
10-year Trend Analysis Report

Black\*  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change <sup>†</sup> | Quadratic Change <sup>†</sup> | Change from 2015-2017 <sup>§</sup> |
|--|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Injury and Violence

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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 10-year Trend Analysis Report

#### Hispanic Injury and Violence

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

#### Hispanic Injury and Violence

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

Hispanic  
Injury and Violence

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Tobacco Use

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

Hispanic  
Tobacco Use

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Alcohol and Other Drug Use

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Sexual Behaviors

|  | Health Risk Behavior and Percentages |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|--|--------------------------------------|------|------|------|------|------|------------------|----------------------------|-------------------------|
|  | 2007                                 | 2009 | 2011 | 2013 | 2015 | 2017 |                  |                            |                         |
| QN59: Percentage of students who ever had sexual intercourse   |                                      |      |      | 52.2 | 40.0 | 39.8 | 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   |                                      |      |      | 10.0 | 8.6  | 6.2  | 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) |                                      |      |      | 41.3 | 28.2 | 29.8 | 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 10-year Trend Analysis Report

#### Hispanic

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|-----------|
| 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> |      |      |      |      |      | 15.2           | 20.5              | 17.0                       | No linear change | Not available <sup>¶</sup> | 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>                           |      |      |      |      |      | 18.3           | 10.5              | 24.1                       | No linear change | Not available              | Increased |
| QN70: Percentage of students who did not drink fruit juice (100% fruit juices one or more times during the 7 days before the survey)  |      |      |      |      |      | 26.3           | 27.0              | 29.0                       | No linear change | Not available              | No change |
| QN71: Percentage of students who did not eat fruit (one or more times during the 7 days before the survey)  |      |      |      |      |      | 19.3           | 9.5               | 17.9                       | 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,  $p < 0.05$ .

§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  
10-year Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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 10-year Trend Analysis Report

#### Hispanic

#### Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                  |                            |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|------------------|----------------------------|-----------|
| 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  
10-year Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|--|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Physical Activity

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Physical Activity

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*   | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Other

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from 2015-2017 † |                            |               |           |
|---|------|------|------|------|------|----------------|-------------------|-------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Hispanic  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from<br>2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| 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 10-year Trend Analysis Report

Hispanic  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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  
10-year Trend Analysis Report

Hispanic  
Site-Added

| Health Risk Behavior and Percentages   |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from 2015-2017 † |                            |               |           |
|--|------|------|------|------|------|----------------|-------------------|-------------------------|----------------------------|---------------|-----------|
| 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 10-year Trend Analysis Report

**Hispanic  
Site-Added**

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change* | Quadratic Change* | Change from<br>2015-2017 † |                            |               |           |
|---|------|------|------|------|------|----------------|-------------------|----------------------------|----------------------------|---------------|-----------|
| 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  
10-year Trend Analysis Report

Hispanic  
Site-Added

| Health Risk Behavior and Percentages  |      |      |      |      |      | Linear Change*       | Quadratic Change*          | Change from 2015-2017 † |
|---|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 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  
10-year Trend Analysis Report

Hispanic  
Site-Added

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