

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

| Total Injury and Violence | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|--|------------------------------------|
| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN6: Percentage of students who rarely or never wore a bicycle helmet (among students who had ridden a bicycle) | | | | | | | | | | | | | | | | |
| | | | | | 64.4 | | | 73.7 | 77.8 | 74.4 | 70.9 | 73.2 | 68.1 | No linear change | Increased, 2001-2009 Decreased, 2009-2017 | Decreased |
| QN7: Percentage of students who rarely or never wore a helmet when rollerblading or skateboarding (among students who used rollerblades or rode a skateboard) | | | | | | | | | | | | | | | | |
| | | | | | 73.1 | | | 81.5 | 83.8 | 81.0 | 77.6 | 74.9 | 80.0 | Increased, 2001-2017 | Increased, 2001-2009 Decreased, 2009-2017 | No change |
| QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car) | | | | | | | | | | | | | | | | |
| | | | | | 17.1 | | | 11.9 | 11.4 | 11.5 | 10.0 | 6.9 | 4.7 | Decreased, 2001-2017 | Decreased, 2001-2013 Decreased, 2013-2017 | Decreased |
| QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car) | | | | | | | | | | | | | | | | |
| | | | | | 36.5 | | | 32.6 | 30.8 | 26.2 | 23.1 | 21.4 | 14.7 | Decreased, 2001-2017 | Decreased, 2001-2009 Decreased, 2009-2017 | Decreased |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

**Total
Injury and Violence**

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|----------------------------|--|--|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | | |
| QN10: Percentage of students who ever carried a weapon (such as a gun, knife, or club) | | | | | | | | | | | | | No linear change | No quadratic change | No change | | |
| | | 41.2 | | | | | 43.8 | 41.5 | 39.7 | 40.6 | 46.1 | 40.4 | | | | | |
| QN11: Percentage of students who were ever in a physical fight | | | | | | | | | | | | | Decreased, 2001-2017 | No change, 2001-2011 Decreased, 2011-2017 | No change | | |
| | | 58.3 | | | | | 57.0 | 57.4 | 55.0 | 50.4 | 46.4 | 42.3 | | | | | |
| QN12: Percentage of students who were ever bullied on school property | | | | | | | | | | | | | No linear change | Not available [§] | Decreased | | |
| | | | | | | | | 46.6 | 47.8 | 52.1 | 52.4 | 45.4 | | | | | |
| QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media) | | | | | | | | | | | | | No linear change | Not available | No change | | |
| | | | | | | | | | 24.9 | 27.3 | 28.8 | 27.0 | | | | | |
| QN14: Percentage of students who ever seriously thought about killing themselves | | | | | | | | | | | | | No linear change | No quadratic change | No change | | |
| | | 20.8 | | | | | 17.6 | 19.9 | 20.1 | 19.7 | 21.1 | 20.7 | | | | | |

*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

West Virginia Middle School Survey
Trend Analysis Report

Total
Injury and Violence

Health Risk Behavior and Percentages

Linear Change*

Quadratic Change*

Change from
2015-2017 †

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

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

12.2

12.6

12.9

12.2

14.2

15.5

13.9

No linear change

No quadratic change

No change

QN16: Percentage of students who ever tried to kill themselves

7.9

7.7

6.9

6.7

7.3

7.2

8.8

No linear change

No quadratic change

No change

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

| Total Tobacco Use | Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|--|-----------|
| | 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | | | | 2017 |
| QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) | | | | | | 46.8 | | | 34.8 | 32.1 | 28.9 | 24.5 | 20.4 | 14.6 | Decreased, 2001-2017 | Decreased, 2001-2013 Decreased, 2013-2017 | Decreased |
| QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) | | | | | | 16.1 | | | 11.7 | 11.3 | 9.0 | 6.9 | 5.5 | 3.5 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | Decreased |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) | | | | | | 5.8 | | | 3.9 | 3.2 | 2.5 | 1.8 | 1.7 | 0.8 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | No change |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey) | | | | | | 4.3 | | | 2.6 | 2.3 | 1.7 | 1.4 | 1.3 | 0.6 | Decreased, 2001-2017 | No quadratic change | No change |

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Total
Tobacco Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo]) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 24.9 | 18.5 | Decreased, 2015-2017 | Not available [§] | Decreased |
| QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 11.0 | 5.9 | Decreased, 2015-2017 | Not available | Decreased |
| QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 8.8 | | | 7.3 | 6.4 | 5.4 | 4.1 | 4.4 | 3.0 | Decreased, 2001-2017 | No quadratic change | Decreased |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

**West Virginia Middle School Survey
Trend Analysis Report**

| Total Alcohol and Other Drug Use | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--|--------------------------------|
| Health Risk Behavior and Percentages | | | | | | | | | | | | | | | | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN26: Percentage of students who ever drank alcohol (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | 45.9 | | | 39.9 | 36.9 | 36.1 | 29.6 | 25.7 | 23.4 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | No change |
| QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | | | | 16.5 | 16.0 | 16.2 | 12.7 | 10.6 | 9.5 | Decreased, 2007-2017 | No change, 2007-2011 Decreased, 2011-2017 | No change |
| QN28: Percentage of students who ever used marijuana | | | | | | | | | | | | | | | | |
| | | | | | 15.7 | | | 11.5 | 12.0 | 11.7 | 12.2 | 10.2 | 8.3 | Decreased, 2001-2017 | No quadratic change | No change |
| QN29: Percentage of students who tried marijuana for the first time before age 11 years | | | | | | | | | | | | | | | | |
| | | | | | | | | 2.9 | 3.6 | 3.1 | 3.1 | 3.4 | 2.3 | No linear change | No quadratic change | No change |
| QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase) | | | | | | | | | | | | | | | | |
| | | | | | 4.6 | | | 5.1 | 6.2 | 4.0 | 2.8 | 2.7 | 2.2 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | No change |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
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| Total Alcohol and Other Drug Use | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| Health Risk Behavior and Percentages | | | | | | | | | | | | | | | | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN31: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of spray cans, or inhaled any paints or sprays to get high) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 12.8 | 10.1 | 7.0 | 6.6 | Decreased, 2011-2017 | Not available [§] | No change |
| QN32: Percentage of students who ever took steroids without a doctor's prescription (pills or shots) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 2.2 | 2.0 | 1.4 | 1.6 | 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

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| Total | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|----------------------------|--------------------------------|
| Weight Management and Dietary Behaviors | | | | | | | | | | | | | | | | |
| Health Risk Behavior and Percentages | | | | | | | | | | | | | | | | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN38: Percentage of students who described themselves as slightly or very overweight | | | | | | | | | | | | | | | | |
| | | | | 29.6 | | | | 27.6 | 26.4 | 28.9 | 27.4 | 25.5 | 28.1 | No linear change | No quadratic change | No change |
| QN39: Percentage of students who were trying to lose weight | | | | | | | | | | | | | | | | |
| | | | | 47.6 | | | | 51.3 | 47.6 | 48.1 | 50.6 | 45.1 | 47.2 | No linear change | No quadratic change | No change |
| QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 11.3 | 9.4 | 9.0 | Decreased, 2013-2017 | Not available [§] | No change |
| QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 42.9 | 48.6 | 48.8 | Increased, 2013-2017 | Not available | No change |

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

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§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

| Total Physical Activity | Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|----------------------------|
| | 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | | | |
| QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | 65.1 | 57.6 | 56.2 | 64.0 | 67.8 | 64.4 | Increased, 2007-2017 | Decreased, 2007-2011 Increased, 2011-2017 | 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) | | | | | | | | 8.4 | 10.4 | 10.5 | 8.6 | 7.0 | 9.9 | No linear change | No quadratic change | No change |
| QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | 45.0 | 37.0 | 35.5 | 38.6 | 42.7 | 43.8 | No linear change | Decreased, 2007-2011 Increased, 2011-2017 | No change |
| QN42: Percentage of students who watched television 3 or more hours per day (on an average school day) | | | | | | 41.5 | | 34.6 | 35.1 | 33.7 | 34.8 | 28.4 | 26.2 | Decreased, 2001-2017 | No quadratic change | No change |

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Total
Physical Activity

Health Risk Behavior and Percentages

Linear Change*

Quadratic Change*

Change from
2015-2017 †

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

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

25.9 28.0 32.3 43.1 46.6 47.8 Increased, 2007-2017 No quadratic change No change

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

67.1 72.4 74.0 71.3 73.8 73.1 71.3 No linear change No quadratic change No change

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

41.1 52.6 48.6 46.9 56.0 48.5 53.2 Increased, 2001-2017 No quadratic change No change

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

64.2 62.3 61.8 64.3 62.3 60.5 No linear change No quadratic change No change

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

| Total Other | Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|-------------------|----------------------------|-----------|
| | 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | | | | 2017 |
| | QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma | | | | | | | | | | | | | | | | |
| | | | | | | | | 20.8 | 21.2 | 22.9 | 21.1 | 20.7 | 19.9 | | No linear change | No quadratic change | No change |
| | QN48: Percentage of students who got 8 or more hours of sleep (on an average school night) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 47.1 | 51.0 | | No linear change | Not available [§] | No change |
| | QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 71.8 | 79.3 | 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

**West Virginia Middle School Survey
Trend Analysis Report**

**Male
Injury and Violence**

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|-------------------------|--|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN6: Percentage of students who rarely or never wore a bicycle helmet (among students who had ridden a bicycle) | | | | | | | | | | | | | No linear change | Increased, 2001-2009 Decreased, 2009-2017 | No change | |
| | | | | | 70.5 | | | 78.3 | 80.4 | 76.0 | 74.6 | 73.9 | 71.5 | | | |
| QN7: Percentage of students who rarely or never wore a helmet when rollerblading or skateboarding (among students who used rollerblades or rode a skateboard) | | | | | | | | | | | | | No linear change | Increased, 2001-2009 Decreased, 2009-2017 | No change | |
| | | | | | 75.2 | | | 82.6 | 84.8 | 81.4 | 79.1 | 74.8 | 80.2 | | | |
| QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car) | | | | | | | | | | | | | Decreased, 2001-2017 | No quadratic change | No change | |
| | | | | | 22.0 | | | 13.9 | 13.5 | 13.5 | 10.9 | 8.2 | 5.5 | | | |
| QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car) | | | | | | | | | | | | | Decreased, 2001-2017 | Decreased, 2001-2009 Decreased, 2009-2017 | Decreased | |
| | | | | | 38.8 | | | 33.3 | 30.1 | 26.6 | 21.7 | 22.1 | 14.8 | | | |
| QN10: Percentage of students who ever carried a weapon (such as a gun, knife, or club) | | | | | | | | | | | | | No linear change | No quadratic change | No change | |
| | | | | | 60.7 | | | 59.8 | 59.1 | 56.4 | 56.3 | 60.4 | 56.4 | | | |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Male
Injury and Violence

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN11: Percentage of students who were ever in a physical fight | | | | | | | | | | | | | | | | |
| | | | | 76.4 | | | | 69.9 | 70.0 | 69.5 | 63.9 | 57.4 | 55.0 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | No change |
| QN12: Percentage of students who were ever bullied on school property | | | | | | | | | | | | | | | | |
| | | | | | | | | 45.9 | 46.5 | 49.4 | 44.4 | 39.5 | | Decreased, 2009-2017 | Not available [§] | No change |
| QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 16.3 | 16.4 | 17.3 | 18.5 | No linear change | Not available | No change |
| QN14: Percentage of students who ever seriously thought about killing themselves | | | | | | | | | | | | | | | | |
| | | | | 15.9 | | | | 12.3 | 16.0 | 16.8 | 13.1 | 14.9 | 15.0 | No linear change | No quadratic change | No change |
| QN15: Percentage of students who ever made a plan about how they would kill themselves | | | | | | | | | | | | | | | | |
| | | | | 9.6 | | | | 9.1 | 10.8 | 10.5 | 10.1 | 10.0 | 11.2 | No linear change | No quadratic change | No change |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
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Male
Injury and Violence

Health Risk Behavior and Percentages

Linear Change*

Quadratic Change*

Change from
2015-2017 †

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

QN16: Percentage of students who ever tried to kill themselves

5.9

4.9

5.8

6.3

4.7

3.7

6.7

No linear change

No quadratic change

Increased

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Male
Tobacco Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|-------------------------|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) | | | | | | | | | | | | | | | | |
| | | | | | 49.9 | | | 34.1 | 32.1 | 29.4 | 24.3 | 19.8 | 16.5 | Decreased, 2001-2017 | No quadratic change | No change |
| QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 15.5 | | | 11.4 | 10.5 | 8.0 | 6.8 | 5.3 | 4.1 | Decreased, 2001-2017 | No quadratic change | No change |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 5.9 | | | 4.3 | 3.0 | 2.6 | 1.9 | 1.2 | 0.9 | Decreased, 2001-2017 | No quadratic change | No change |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 4.3 | | | 3.4 | 2.3 | 1.4 | 1.8 | 0.8 | 0.6 | Decreased, 2001-2017 | No quadratic change | No change |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Male
Tobacco Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|-------------------------|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | | |
| QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo]) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 25.1 | 21.8 | No linear change | Not available [§] | No change | |
| QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 11.8 | 6.4 | Decreased, 2015-2017 | Not available | Decreased | |
| QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | | |
| | | | | | | | 12.4 | | 8.8 | 7.8 | 6.2 | 4.6 | 5.1 | 3.9 | Decreased, 2001-2017 | No quadratic change | No change |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

| Male | | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|--------------------------|--|-----------|
| Alcohol and Other Drug Use | | | | | | | | | | | | | | | | |
| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN26: Percentage of students who ever drank alcohol (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | 51.8 | | | 43.4 | 39.2 | 36.9 | 30.5 | 28.9 | 24.6 | Decreased, 2001-2017 | No quadratic change | No change |
| QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | | | | 19.8 | 17.6 | 19.7 | 15.0 | 13.2 | 10.9 | Decreased, 2007-2017 | No quadratic change | No change |
| QN28: Percentage of students who ever used marijuana | | | | | | | | | | | | | | | | |
| | | | | | 17.2 | | | 11.1 | 12.5 | 12.7 | 12.1 | 11.4 | 10.0 | Decreased, 2001-2017 | No quadratic change | No change |
| QN29: Percentage of students who tried marijuana for the first time before age 11 years | | | | | | | | | | | | | | | | |
| | | | | | | | | 2.6 | 3.6 | 4.5 | 3.3 | 4.0 | 2.6 | No linear change | Increased, 2007-2011 No change, 2011-2017 | No change |
| QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase) | | | | | | | | | | | | | | | | |
| | | | | | 4.4 | | | 4.3 | 6.6 | 4.5 | 2.6 | 2.9 | 2.2 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | No change |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Male

Alcohol and Other Drug Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN31: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of spray cans, or inhaled any paints or sprays to get high) | | | | | | | | | | | | | | | | |
| | | | | | | | | 12.2 | 9.7 | 6.5 | 6.5 | | | Decreased, 2011-2017 | Not available [§] | No change |
| QN32: Percentage of students who ever took steroids without a doctor's prescription (pills or shots) | | | | | | | | | | | | | | | | |
| | | | | | | | | 2.5 | 2.0 | 1.0 | 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

West Virginia Middle School Survey
Trend Analysis Report

| Male | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|-------------------------|
| Weight Management and Dietary Behaviors | | | | | | | | | | | | | | | | |
| Health Risk Behavior and Percentages | | | | | | | | | | | | | | | | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN38: Percentage of students who described themselves as slightly or very overweight | | | | | | | | | | | | | | | | |
| | | | | | 24.4 | | | 25.8 | 25.4 | 26.6 | 24.4 | 23.0 | 25.9 | No linear change | No quadratic change | No change |
| QN39: Percentage of students who were trying to lose weight | | | | | | | | | | | | | | | | |
| | | | | | 33.0 | | | 40.1 | 38.1 | 40.1 | 41.5 | 35.6 | 40.3 | Increased, 2001-2017 | No quadratic change | No change |
| QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 9.4 | 9.0 | 7.4 | No linear change | Not available [§] | No change |
| QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 49.3 | 55.5 | 53.8 | 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

West Virginia Middle School Survey Trend Analysis Report

| Male | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|--------------------------|--------------------------------|------|------|------|------------------|----------------------|--|--|-----------|-----------|--|
| Physical Activity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | | | | | | | | | | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | | | | | | | | | | | |
| QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | 68.7 | 63.0 | 63.3 | 67.7 | 70.8 | 68.5 | No linear change | | No quadratic change | | No change | | |
| QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | 9.9 | 9.3 | 9.7 | 9.2 | 8.0 | 10.3 | No linear change | | No quadratic change | | No change | | |
| QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | 50.7 | 44.4 | 43.4 | 45.9 | 47.5 | 50.1 | No linear change | | Decreased, 2007-2011 Increased, 2011-2017 | | No change | | |
| QN42: Percentage of students who watched television 3 or more hours per day (on an average school day) | | | | | | | | | | | | | | 43.2 | 36.5 | 37.0 | 34.0 | 34.2 | 26.8 | 23.5 | Decreased, 2001-2017 | | Decreased, 2001-2013 Decreased, 2013-2017 | | No change | |

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

| Male | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|-------------------------|-----------|
| Physical Activity | | | | | | | | | | | | | | | | |
| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day) | | | | | | | | | | | | | | | | |
| | | | | | | | 29.5 | 31.2 | 34.9 | 43.0 | 46.5 | 47.1 | | Increased, 2007-2017 | No quadratic change | No change |
| QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school) | | | | | | | | | | | | | | | | |
| | | | | | 67.1 | | | 70.9 | 75.1 | 73.5 | 73.2 | 73.6 | 70.8 | No linear change | No quadratic change | No change |
| QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school) | | | | | | | | | | | | | | | | |
| | | | | | 41.9 | | | 49.7 | 47.8 | 49.2 | 57.9 | 48.8 | 52.6 | Increased, 2001-2017 | No quadratic change | No change |
| QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | 65.7 | 63.9 | 64.7 | 64.4 | 59.9 | 60.7 | | No linear change | No quadratic change | No change |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

| Male Other | Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---------------|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|----------------------------|
| | 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | | | |
| | QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma | | | | | | | | | | | | | | | |
| | | | | | | | | 22.9 | 22.1 | 22.6 | 21.3 | 19.8 | 20.5 | No linear change | No quadratic change | No change |
| | QN48: Percentage of students who got 8 or more hours of sleep (on an average school night) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 52.3 | 55.0 | No linear change | Not available [§] | No change |
| | QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 67.8 | 75.8 | 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

West Virginia Middle School Survey
Trend Analysis Report

Female
Injury and Violence

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN6: Percentage of students who rarely or never wore a bicycle helmet (among students who had ridden a bicycle) | | | | | | | | | | | | | | | | |
| | | | | | 57.3 | | | 68.5 | 74.7 | 72.6 | 66.9 | 72.1 | 64.6 | Increased, 2001-2017 | Increased, 2001-2009 Decreased, 2009-2017 | Decreased |
| QN7: Percentage of students who rarely or never wore a helmet when rollerblading or skateboarding (among students who used rollerblades or rode a skateboard) | | | | | | | | | | | | | | | | |
| | | | | | 70.9 | | | 80.1 | 82.5 | 80.6 | 76.1 | 75.8 | 79.9 | Increased, 2001-2017 | Increased, 2001-2009 Decreased, 2009-2017 | No change |
| QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car) | | | | | | | | | | | | | | | | |
| | | | | | 12.0 | | | 9.7 | 8.9 | 9.4 | 9.0 | 5.2 | 3.8 | Decreased, 2001-2017 | Decreased, 2001-2013 Decreased, 2013-2017 | No change |
| QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car) | | | | | | | | | | | | | | | | |
| | | | | | 34.1 | | | 31.8 | 31.7 | 25.8 | 24.5 | 20.1 | 14.7 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | Decreased |
| QN10: Percentage of students who ever carried a weapon (such as a gun, knife, or club) | | | | | | | | | | | | | | | | |
| | | | | | 20.4 | | | 26.8 | 22.6 | 22.0 | 24.2 | 30.9 | 23.5 | No linear change | No quadratic change | Decreased |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Female
Injury and Violence

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN11: Percentage of students who were ever in a physical fight | | | | | | | | | | | | | | | | |
| | | | | 39.1 | | | | 43.3 | 44.2 | 39.9 | 36.4 | 34.5 | 28.8 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | No change |
| QN12: Percentage of students who were ever bullied on school property | | | | | | | | | | | | | | | | |
| | | | | | | | | 47.3 | 49.1 | 54.9 | 60.9 | 51.5 | | Increased, 2009-2017 | Not available [§] | Decreased |
| QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 33.9 | 38.7 | 41.0 | 36.2 | No linear change | Not available | No change |
| QN14: Percentage of students who ever seriously thought about killing themselves | | | | | | | | | | | | | | | | |
| | | | | 26.0 | | | | 23.3 | 24.0 | 23.6 | 26.5 | 27.9 | 26.4 | No linear change | No quadratic change | No change |
| QN15: Percentage of students who ever made a plan about how they would kill themselves | | | | | | | | | | | | | | | | |
| | | | | 15.0 | | | | 16.4 | 15.1 | 14.1 | 18.5 | 21.3 | 16.5 | No linear change | No quadratic change | No change |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Female
Injury and Violence

Health Risk Behavior and Percentages

Linear Change*

Quadratic Change*

Change from
2015-2017 †

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

QN16: Percentage of students who ever tried to kill themselves

10.1

10.7

8.1

7.2

10.0

10.9

10.7

No linear change

No quadratic change

No change

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

**Female
Tobacco Use**

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) | | | | | | | | | | | | | | | | |
| | | | | | 43.5 | | | 35.6 | 32.0 | 28.5 | 24.6 | 21.1 | 12.3 | Decreased, 2001-2017 | Decreased, 2001-2013 Decreased, 2013-2017 | Decreased |
| QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 16.8 | | | 12.0 | 12.1 | 9.9 | 7.1 | 5.6 | 2.6 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | Decreased |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 5.7 | | | 3.5 | 3.3 | 2.4 | 1.6 | 2.1 | 0.5 | Decreased, 2001-2017 | No quadratic change | Decreased |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 4.3 | | | 1.8 | 2.1 | 2.1 | 1.0 | 1.8 | 0.4 | Decreased, 2001-2017 | No quadratic change | Decreased |

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Female
Tobacco Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|-------------------------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo]) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 24.8 | 14.8 | Decreased, 2015-2017 | Not available [§] | Decreased |
| QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 10.4 | 5.2 | Decreased, 2015-2017 | Not available | Decreased |
| QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 4.9 | | | 5.7 | 4.6 | 4.5 | 3.5 | 3.5 | 1.9 | Decreased, 2001-2017 | No change, 2001-2011 Decreased, 2011-2017 | No change |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Female
Alcohol and Other Drug Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN26: Percentage of students who ever drank alcohol (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | 39.7 | | | 36.3 | 34.5 | 35.4 | 28.7 | 22.4 | 21.9 | Decreased, 2001-2017 | No change, 2001-2011 Decreased, 2011-2017 | No change |
| QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | | | | 13.0 | 13.9 | 12.3 | 10.4 | 7.8 | 7.5 | Decreased, 2007-2017 | No quadratic change | No change |
| QN28: Percentage of students who ever used marijuana | | | | | | | | | | | | | | | | |
| | | | | | 14.0 | | | 12.0 | 11.3 | 10.7 | 12.4 | 8.7 | 6.2 | Decreased, 2001-2017 | No quadratic change | Decreased |
| QN29: Percentage of students who tried marijuana for the first time before age 11 years | | | | | | | | | | | | | | | | |
| | | | | | | | | 3.2 | 3.5 | 1.6 | 2.8 | 2.7 | 1.9 | No linear change | No quadratic change | No change |
| QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase) | | | | | | | | | | | | | | | | |
| | | | | | 4.9 | | | 5.9 | 5.5 | 3.6 | 3.0 | 2.6 | 2.1 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | No change |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

Female

Alcohol and Other Drug Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------|----------------------|----------------------------|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN31: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of spray cans, or inhaled any paints or sprays to get high) | | | | | | | | | | | | | | | | |
| | | | | | | | | 13.4 | 10.5 | 7.3 | 6.6 | | | Decreased, 2011-2017 | Not available [§] | No change |
| QN32: Percentage of students who ever took steroids without a doctor's prescription (pills or shots) | | | | | | | | | | | | | | | | |
| | | | | | | | | 1.8 | 2.1 | 1.8 | 1.2 | | | 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

West Virginia Middle School Survey
Trend Analysis Report

Female

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|----------------------------|-------------------------|--|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN38: Percentage of students who described themselves as slightly or very overweight | | | | | | | | | | | | | No linear change | No quadratic change | No change | |
| | | | | | 35.0 | | | 29.5 | 27.5 | 31.4 | 30.6 | 27.8 | 30.5 | | | |
| QN39: Percentage of students who were trying to lose weight | | | | | | | | | | | | | Decreased, 2001-2017 | No quadratic change | No change | |
| | | | | | 63.1 | | | 63.1 | 57.6 | 56.5 | 60.2 | 55.5 | 54.6 | | | |
| QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey) | | | | | | | | | | | | | No linear change | Not available [§] | No change | |
| | | | | | | | | | | | 13.3 | 9.7 | 10.5 | | | |
| QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey) | | | | | | | | | | | | | Increased, 2013-2017 | Not available | No change | |
| | | | | | | | | | | | 36.3 | 41.0 | 43.6 | | | |

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

†Based on t-test analysis, p < 0.05.

§Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

**Female
Physical Activity**

| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|-------------------------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | 61.4 | 52.1 | 48.8 | 60.1 | 65.0 | 60.3 | Increased, 2007-2017 | Decreased, 2007-2011 Increased, 2011-2017 | 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) | | | | | | | | | | | | | | | | |
| | | | | | | | | 6.8 | 11.6 | 11.2 | 8.0 | 5.8 | 9.5 | No linear change | No quadratic change | Increased |
| 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) | | | | | | | | | | | | | | | | |
| | | | | | | | | 39.1 | 29.3 | 27.3 | 31.1 | 37.7 | 37.2 | No linear change | Decreased, 2007-2011 Increased, 2011-2017 | No change |
| QN42: Percentage of students who watched television 3 or more hours per day (on an average school day) | | | | | | | | | | | | | | | | |
| | | | | | 39.8 | | | 32.7 | 33.1 | 33.5 | 35.5 | 30.1 | 29.1 | Decreased, 2001-2017 | No quadratic change | No change |

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

†Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

**Female
Physical Activity**

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------|-------------------|-------------------------|------|------|------|----------------------|------------------|---------------------|---------------------|-----------|-----------|--|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | | | | | | | | | | |
| QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day) | | | | | | | | | | | | | 22.2 | 24.7 | 29.6 | 43.1 | 47.0 | 48.6 | Increased, 2007-2017 | | No quadratic change | | No change | | |
| QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school) | | | | | | | | | | | | | 67.0 | 74.1 | 73.0 | 69.0 | 74.3 | 72.3 | 72.2 | No linear change | | No quadratic change | | No change | |
| QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school) | | | | | | | | | | | | | 40.3 | 55.6 | 49.4 | 44.6 | 54.0 | 47.7 | 54.1 | No linear change | | No quadratic change | | No change | |
| QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey) | | | | | | | | | | | | | 62.5 | 60.4 | 58.9 | 64.2 | 64.9 | 60.6 | No linear change | | No quadratic change | | No change | | |

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

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

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

| Female Other | Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change* | Quadratic Change* | Change from 2015-2017 † |
|---|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|-------------------|----------------------------|
| | 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma | | | | | | | | | | | | | | | | | |
| | | | | | | | 18.5 | 20.3 | 23.2 | 20.9 | 21.8 | 19.1 | | No linear change | Increased, 2007-2011 No change, 2011-2017 | No change | |
| QN48: Percentage of students who got 8 or more hours of sleep (on an average school night) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 41.8 | 46.7 | | No linear change | Not available [§] | No change | |
| QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 76.3 | 83.3 | | 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

West Virginia Middle School Survey Trend Analysis Report

White*

Injury and Violence

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN6: Percentage of students who rarely or never wore a bicycle helmet (among students who had ridden a bicycle) | | | | | | | | | | | | | | | | |
| | | | | | 63.8 | | | 72.9 | 76.8 | 74.2 | 70.4 | 73.2 | 68.2 | Increased, 2001-2017 | Increased, 2001-2009 Decreased, 2009-2017 | No change |
| QN7: Percentage of students who rarely or never wore a helmet when rollerblading or skateboarding (among students who used rollerblades or rode a skateboard) | | | | | | | | | | | | | | | | |
| | | | | | 72.4 | | | 81.4 | 83.8 | 81.5 | 77.4 | 74.0 | 80.1 | Increased, 2001-2017 | Increased, 2001-2009 Decreased, 2009-2017 | No change |
| QN8: Percentage of students who rarely or never wore a seat belt (when riding in a car) | | | | | | | | | | | | | | | | |
| | | | | | 16.0 | | | 10.8 | 10.3 | 11.4 | 9.5 | 5.9 | 4.2 | Decreased, 2001-2017 | Decreased, 2001-2013 Decreased, 2013-2017 | No change |
| QN9: Percentage of students who ever rode with a driver who had been drinking alcohol (in a car) | | | | | | | | | | | | | | | | |
| | | | | | 36.7 | | | 31.8 | 30.4 | 26.8 | 23.5 | 21.1 | 15.0 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | Decreased |
| QN10: Percentage of students who ever carried a weapon (such as a gun, knife, or club) | | | | | | | | | | | | | | | | |
| | | | | | 41.4 | | | 43.8 | 41.2 | 40.0 | 41.9 | 47.5 | 40.2 | No linear change | No quadratic change | Decreased |

*Non-Hispanic.

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

[§]Based on t-test analysis, $p < 0.05$.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

**West Virginia Middle School Survey
Trend Analysis Report**

White*
Injury and Violence

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN11: Percentage of students who were ever in a physical fight | | | | | | | | | | | | | | | | |
| | | | | 57.6 | | | | 55.3 | 56.6 | 53.6 | 49.8 | 45.1 | 42.1 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | No change |
| QN12: Percentage of students who were ever bullied on school property | | | | | | | | | | | | | | | | |
| | | | | | | | | 47.4 | 48.3 | 53.2 | 53.1 | 45.8 | | No linear change | Not available [¶] | Decreased |
| QN13: Percentage of students who were ever electronically bullied (counting being bullied through texting, Instagram, Facebook, or other social media) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 25.3 | 28.3 | 30.1 | 27.7 | No linear change | Not available | No change |
| QN14: Percentage of students who ever seriously thought about killing themselves | | | | | | | | | | | | | | | | |
| | | | | 20.7 | | | | 16.9 | 19.4 | 20.5 | 20.2 | 21.0 | 20.0 | No linear change | No quadratic change | No change |
| QN15: Percentage of students who ever made a plan about how they would kill themselves | | | | | | | | | | | | | | | | |
| | | | | 12.0 | | | | 12.6 | 12.2 | 12.6 | 15.0 | 15.7 | 13.2 | No linear change | No quadratic change | No change |

*Non-Hispanic.

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

[§]Based on t-test analysis, p < 0.05.

[¶]Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

White*
Injury and Violence

Health Risk Behavior and Percentages

Linear Change[†]

Quadratic Change[†]

Change from
2015-2017[§]

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

QN16: Percentage of students who ever tried to kill themselves

7.5

7.1

6.6

6.8

7.4

7.2

8.3

No linear change

No quadratic change

No change

*Non-Hispanic.

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

[§]Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

White*
Tobacco Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN17: Percentage of students who ever tried cigarette smoking (even one or two puffs) | | | | | | | | | | | | | | | | |
| | | | | | 45.8 | | | 34.4 | 31.4 | 29.4 | 24.5 | 20.4 | 14.7 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | Decreased |
| QN19: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 15.8 | | | 11.9 | 11.0 | 9.2 | 7.1 | 5.4 | 3.6 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | Decreased |
| QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 5.8 | | | 4.0 | 3.1 | 2.6 | 1.6 | 1.7 | 0.7 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | No change |
| QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | 4.2 | | | 2.6 | 2.2 | 1.8 | 1.2 | 1.3 | 0.5 | Decreased, 2001-2017 | No quadratic change | No change |

*Non-Hispanic.

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

[§]Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

White*
Tobacco Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|---|------|------|------|------|------|------|------|------|------|----------------------|------|------|--|-------------------------------|------------------------------------|--|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN21: Percentage of students who ever used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo]) | | | | | | | | | | | | | | | | |
| | | | | | | | | 24.6 | 17.9 | Decreased, 2015-2017 | | | Not available [¶] | Decreased | | |
| QN22: Percentage of students who currently used an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo], on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | 10.4 | 5.3 | Decreased, 2015-2017 | | | Not available | Decreased | | |
| QN25: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | 8.2 | | | 7.0 | 6.1 | 5.5 | 3.7 | 3.9 | 2.7 | Decreased, 2001-2017 No change, 2001-2009 Decreased, 2009-2017 | | No change | |

*Non-Hispanic.

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

[§]Based on t-test analysis, p < 0.05.

[¶]Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

White*

Alcohol and Other Drug Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|--|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN26: Percentage of students who ever drank alcohol (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | 45.5 | | | 39.1 | 36.3 | 36.8 | 30.0 | 26.0 | 23.2 | Decreased, 2001-2017 | Decreased, 2001-2011 Decreased, 2011-2017 | No change |
| QN27: Percentage of students who drank alcohol for the first time before age 11 years (other than a few sips) | | | | | | | | | | | | | | | | |
| | | | | | | | | 15.8 | 15.4 | 16.3 | 12.9 | 10.3 | 9.0 | Decreased, 2007-2017 | No change, 2007-2011 Decreased, 2011-2017 | No change |
| QN28: Percentage of students who ever used marijuana | | | | | | | | | | | | | | | | |
| | | | | | 15.3 | | | 11.0 | 11.1 | 12.0 | 11.9 | 9.4 | 7.7 | Decreased, 2001-2017 | No quadratic change | No change |
| QN29: Percentage of students who tried marijuana for the first time before age 11 years | | | | | | | | | | | | | | | | |
| | | | | | | | | 2.4 | 3.1 | 3.0 | 3.0 | 3.1 | 1.8 | No linear change | No change, 2007-2013 No change, 2013-2017 | No change |
| QN30: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase) | | | | | | | | | | | | | | | | |
| | | | | | 4.7 | | | 4.8 | 5.5 | 4.1 | 2.4 | 2.6 | 2.0 | Decreased, 2001-2017 | No change, 2001-2009 Decreased, 2009-2017 | No change |

*Non-Hispanic.

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

[§]Based on t-test analysis, $p < 0.05$.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

White*

Alcohol and Other Drug Use

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|--|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN31: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of spray cans, or inhaled any paints or sprays to get high) | | | | | | | | | | | | | Decreased, 2011-2017 | Not available [¶] | No change | |
| | | | | | | | | 12.6 | 10.0 | 6.7 | 6.4 | | | | | |
| QN32: Percentage of students who ever took steroids without a doctor's prescription (pills or shots) | | | | | | | | | | | | | No linear change | Not available | No change | |
| | | | | | | | | 2.0 | 2.1 | 1.4 | 1.5 | | | | | |

*Non-Hispanic.

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

[§]Based on t-test analysis, p < 0.05.

[¶]Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

White*

Weight Management and Dietary Behaviors

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN38: Percentage of students who described themselves as slightly or very overweight | | | | | | | | | | | | | | | | |
| | | | | | 30.1 | | | 27.8 | 26.7 | 29.7 | 28.0 | 25.9 | 28.2 | No linear change | No quadratic change | No change |
| QN39: Percentage of students who were trying to lose weight | | | | | | | | | | | | | | | | |
| | | | | | 48.1 | | | 51.6 | 47.8 | 48.1 | 51.3 | 45.4 | 48.0 | No linear change | No quadratic change | No change |
| QN40: Percentage of students who did not eat breakfast (during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 11.3 | 8.7 | 9.0 | Decreased, 2013-2017 | Not available [¶] | No change |
| QNBK7DAY: Percentage of students who ate breakfast on all 7 days (during the 7 days before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 43.0 | 48.1 | 48.3 | Increased, 2013-2017 | Not available | No change |

*Non-Hispanic.

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

[§]Based on t-test analysis, $p < 0.05$.

[¶]Not enough years of data to calculate.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey Trend Analysis Report

White*

Physical Activity

| Health Risk Behavior and Percentages | | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|--|------------------------------------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN41: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | Increased, 2007-2017 | Decreased, 2007-2011 Increased, 2011-2017 | No change |
| | | | | | | | | 65.1 | 57.2 | 55.6 | 63.9 | 68.5 | 64.0 | | | |
| QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | No linear change | No quadratic change | No change |
| | | | | | | | | 8.0 | 10.2 | 9.9 | 8.6 | 6.8 | 9.7 | | | |
| QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) | | | | | | | | | | | | | | No linear change | Decreased, 2007-2011 Increased, 2011-2017 | No change |
| | | | | | | | | 44.9 | 36.6 | 34.9 | 38.5 | 42.9 | 43.2 | | | |
| QN42: Percentage of students who watched television 3 or more hours per day (on an average school day) | | | | | | | | | | | | | | Decreased, 2001-2017 | No quadratic change | No change |
| | | | | 40.6 | | | | 33.6 | 34.5 | 34.0 | 34.4 | 27.7 | 25.9 | | | |

*Non-Hispanic.

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

[§]Based on t-test analysis, $p < 0.05$.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

White*

Physical Activity

| Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|------------------------------------|-----------|
| 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | | | |
| QN43: Percentage of students who played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day) | | | | | | | | | | | | | | | | |
| | | | | | | | | 25.9 | 28.1 | 32.6 | 43.9 | 47.0 | 48.9 | Increased, 2007-2017 | No quadratic change | No change |
| QN44: Percentage of students who attended physical education (PE) classes on 1 or more days (in an average week when they were in school) | | | | | | | | | | | | | | | | |
| | | | | | 67.0 | | | 72.1 | 74.1 | 70.7 | 73.4 | 72.6 | 70.5 | No linear change | No quadratic change | No change |
| QNDLYPE: Percentage of students who attended physical education (PE) classes on all 5 days (in an average week when they were in school) | | | | | | | | | | | | | | | | |
| | | | | | 41.0 | | | 52.7 | 47.9 | 47.0 | 55.9 | 48.8 | 53.0 | Increased, 2001-2017 | No quadratic change | No change |
| QN45: Percentage of students who played on at least one sports team (counting any teams run by their school or community groups, during the past 12 months before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | 63.6 | 62.3 | 61.1 | 64.2 | 62.2 | 60.4 | No linear change | No quadratic change | No change |

*Non-Hispanic.

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

[§]Based on t-test analysis, p < 0.05.

2017 YOUTH RISK BEHAVIOR SURVEY RESULTS

West Virginia Middle School Survey
Trend Analysis Report

| White* Other | Health Risk Behavior and Percentages | | | | | | | | | | | | | Linear Change [†] | Quadratic Change [†] | Change from 2015-2017 [§] | |
|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|-------------------------------|---------------------------------------|-----------|
| | 1991 | 1993 | 1995 | 1997 | 1999 | 2001 | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | | | | 2017 |
| | QN47: Percentage of students who had ever been told by a doctor or nurse that they had asthma | | | | | | | | | | | | | | | | |
| | | | | | | | | 20.7 | 20.2 | 23.4 | 20.7 | 20.2 | 19.5 | | No linear change | No quadratic change | No change |
| | QN48: Percentage of students who got 8 or more hours of sleep (on an average school night) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 46.8 | 50.4 | | No linear change | Not available [¶] | No change |
| | QN49: Percentage of students who described their grades in school as mostly A's or B's (during the 12 months before the survey) | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 73.3 | 81.0 | Increased, 2015-2017 | Not available | Increased | |

*Non-Hispanic.

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

[§]Based on t-test analysis, $p < 0.05$.

[¶]Not enough years of data to calculate.