Pennsylvania Youth Survey (PAYS)

Conducted by

Pennsylvania Commission on Crime and Delinquency

Pennsylvania Department of Drug and Alcohol Programs

Pennsylvania Department of Education

State Report PAYS 2019

DDULL

MADESCR

Empowering Communities to Develop Strategic

Prevention Programming

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Pennsylvania Youth Survey

State Report 2019

Sponsored by: Pennsylvania Commission on Crime and Delinquency Pennsylvania Department of Drug and Alcohol Programs Pennsylvania Department of Education

> Conducted by: Bach Harrison, L.L.C. The Pennsylvania State University

Table of Contents

Section 1: Survey Methods	
Survey Questionnaire	
Administration	
Total PAYS Project Survey Participants	
The Statewide Sample: Sample Design	
Determining the Number of School-Grade Combinations to be Included in the Statewide Sample	
Preparing to Draw the Sample Frame	
The Statewide Sample Participation	5
Weighting the Statewide Sample	
Statewide Sample Confidence Intervals 1-5	5
Validity of PAYS Data: Census Survey 1- ϵ	6
Validity of PAYS Data: Statewide Sample Only 1-7	
Section 2: Risk and Protective Factors for Substance Abuse and Other Youth Problem Behaviors	
Community Risk and Protective Factors	
Community Risk Factor Scales	
Family Risk and Protective Factors	
Family Risk Factor Scales	
School Risk and Protective Factors	
School Risk and Protective Factor Scales	
Individual and Peer Risk and Protective Factors	
Individual and Peer Risk and Protective Factor Scales	
Risk and Protective Factor Scales: 6th Grade	
Risk and Protective Factor Scales: 8th Grade	
Risk and Protective Factor Scales: 10th Grade	
Risk and Protective Factor Scales: 10th Grade	20

Section 3: Substance Use Outcomes and Topics	
3.1 Lifetime and 30-Day High Incidence and Early Initiation Use Substance: Alcohol	
3.2 Lifetime and 30-Day High Incidence and Early Initiation Use Substance: Tobacco	
3.3 Lifetime and 30-Day High Incidence and Early Initiation Use Substance: Marijuana	
3.4 Lifetime and 30-Day High Incidence and Early Initiation Use Substance: Inhalants	
3.5 Lifetime and 30-Day Prescription Drug Use	
3.6 Lifetime and 30-Day Other Illicit Drug Use	
3.7 Lifetime ATOD Use by Gender	
3.8 30-Day ATOD Use by Gender	
3.9 Perceived Harmfulness of ATODs	
3.10 Sources of Obtaining Alcohol	
3.11 Sources of Obtaining Prescription Drugs	
Castian de Antiacaial Relacuiana and Calacel Cafatu Macaumaa	
Section 4: Antisocial Behaviors and School Safety Measures	
4.1 Antisocial Behavior Outcomes by Grade	
4.2 Antisocial Behavior Outcomes by Gender	
4.3 School-Related Violence and Drug Behaviors	
4.4 Bullying and Internet Safety	
4.5 Additional Bullying Data	
4.6 Gang Involvement	
4.7 Gambling	
4.8 Dangerous Driving Behaviors	
Section 5: Mental Health Data	5-1
5.1 Mental Health and Suicide Indicators	
5.2 Depressive Symptoms and Substance Use	
5.3 Mental Health and Bullying	
Section 6: Additional Data Relationships	
6.1 Parents' Rules and Expectations Regarding Substance Use	
6.2 Academic Performance and Substance Use	
6.3 Family Financial Stress and Substance Use	
6.4 Perceived Parental Acceptability and Substance Use	
6.5 Perceived Peer Acceptability and Substance Use	
6.6 Transitions/Mobility and Substance Use	

Appendices

- A. Risk and Protective Factors and Their Associated Survey Scales
- B. Pennsylvania Youth Survey Results Percentage for Each Response Category
- C. PAYS 2019 Summary Report Results by Gender

Table of Figures and Tables

Executive Summary

Table ES-1:	Risk Factor Scales	ES-5
Table ES-2:	Protective Factor Scales	ES-6
Table ES-3:	Alcohol Use: Lifetime, Past-Month, Binge Drinking	ES-7
Table ES-4:	Tobacco Use: Lifetime and Past-Month Cigarette and Smokeless Tobacco Use	ES-7
Table ES-5:	Marijuana Use: Lifetime and Past-Month	ES-7
Table ES-6:	Inhalant Use: Lifetime and Past-Month	ES-7
Table ES-7:	Prescription Drugs: Lifetime Use	ES-8
Table ES-8:	Prescription Drugs: Past-Month Use	ES-8
Table ES-9:	Other Illegal Drugs: Lifetime Use	ES-8
Table ES-10:	Other Illegal Drugs: Past-Month Use	ES-8

Survey Methods

Confidence Intervals for Sample	.1-6
Demographics	.1-8
2019 PAYS Participants, by Gender	.1-9
2019 PAYS Participants, by Race	.1-9
2019 PAYS Participants, by Ethnicity	.1-9
	Demographics

Section 2: Risk and Protective Factors and Scales

Youth At Risk: Community2-4
Community Domain Risk Factor Scores2-6
Youth At Risk: Family2-7
Family Domain Risk Factor Scores2-9
Youth At Risk: School2-10
School Domain Risk and Protective Factor Scores2-11
Youth At Risk: Peer/Individual2-12
Peer/Individual Domain Risk and Protective Factor Scores2-16
Risk factor scales, 6th grade, Statewide Sample 2019 PAYS2-17
Protective factor scales, 6th grade, Statewide Sample 2019 PAYS2-17
Risk factor scales, 8th grade, Statewide Sample 20172-18
Protective factor scales, 8th grade, Statewide Sample 2019 PAYS2-18
Risk factor scales, 10th grade, Statewide Sample 2019 PAYS2-19
Protective factor scales, 10th grade, Statewide Sample 2019 PAYS2-19
Risk factor scales, 12th grade, Statewide Sample 20172-20
Protective factor scales, 12th grade, Statewide Sample 2019 PAYS2-20

Figure 2-9:	Risk factor scales, All Grades Combined, Statewide Sample 2017	2-21
Figure 2-10:	Protective factor scales, All Grades Combined, Statewide Sample 2019 PAYS	2-21

Section 3: Substance Use Outcomes

Table 3.1-1:	Alcohol Use: Lifetime, Past-Month, Binge Drinking	3.1-2
Figure 3.1-1:	Alcohol Use: Lifetime, Past-Month, Binge Drinking	3.1-2
Table 3.2-1:	Tobacco Use: Lifetime, Past-Month	3.2-2
Figure 3.2-1:	Tobacco Use: Lifetime, Past-Month	3.2-2
Table 3.2-2:	E-Cigarettes Modifications	3.2-3
Figure 3.2-2:	E-Cigarette Type and Modifications	3.2-3
Table 3.3-1:	Marijuana Use: Lifetime, Past-Month	3.3-2
Figure 3.3-1:	Marijuana Use: Lifetime, Past-Month	3.3-2
Table 3.4-1:	Inhalant Use: Lifetime, Past-Month	3.4-2
Figure 3.4-1:	Inhalant Use: Lifetime, Past-Month	3.4-2
Table 3.5-1:	Prescription Drugs: Lifetime Use	3.5-2
Figure 3.5-1:	Prescription Drug Use: Lifetime Use	3.5-2
Table 3.5-2:	Prescription Drugs: Past-Month Use	3.5-3
Figure 3.5-2:	Prescription Drug Use: Past-Month Use	3.5-3
Table 3.6-1:	Other Illicit Drug Use: Lifetime Use	3.6-2
Figure 3.6-1:	Other Illicit Drug Use: Lifetime Use	3.6-2
Table 3.6-2:	Other Illicit Drug Use: Past-Month Use	3.6-3
Figure 3.6-2:	Other Illicit Drug Use: Past-Month Use	3.6-3
Table 3.7-1:	Lifetime Substance Use by Gender: Males	3.7-1
Table 3.7-2:	Lifetime Substance Use by Gender: Females	3.7.1
Figure 3.7-1:	Lifetime Substance Use by Gender	3.7-2

Table 3.8-1:	Past-Month Substance Use by Gender: Males	.3.8-1
Table 3.8-2:	Past-Month Substance Use by Gender: Females	.3.8.1
Figure 3.8-1:	Past-Month Substance Use by Gender	.3.8-2
Table 3.9-1:	Perception of Risk	.3.9-1
Figure 3.9-1:	Perceived Risks of Using Substances	.3.9-2
Table 3.10-1:	Sources of Obtaining Alcohol	.3.10-1
Figure 3.10-1:	Past-Month Sources of Obtaining Alcohol	.3.10-2
Table 3.10-2:	Sources of Obtaining Prescription Drugs	.3.11-1
Figure 3.10-2:	Past-Month Sources of Obtaining Prescription Drugs	.3.11-2

Section 4: Antisocial Behaviors and School Safety Measures

Table 4.1-1:	Antisocial Behaviors in the Past-year
Figure 4.1-1:	Antisocial Behaviors
Table 4.2-1:	Antisocial Behavior (Past-Year) by Gender: Males4.2-1
Table 4.2-2:	Antisocial Behavior (Past-Year) by Gender: Females4.2-1
Figure 4.2-1:	Antisocial Behavior by Gender4.2-2
Table 4.3-1:	Violence and Drugs on School Property4.3-1
Figure 4.3-1:	Violence and Drugs on School Property4.3-2
Table 4.4-1:	Bullying and Internet Safety4.4-1
Table 4.4-2:	Bullying Frequency4.4-1
Figure 4.4-1:	Bullying and Internet Safety4.4-2
Figure 4.4-2:	Bullying Frequency4.4-3
Table 4.5-1:	Bullying Locations4.5-1
Table 4.5-2:	Perceived Reasons for Being Bullied4.5-1
Figure 4.5-1:	Bullying Locations
Figure 4.5-2:	Perceived Reasons for Being Bullied4.5-3
Table 4.6-1:	Gang Involvement (Lifetime)4.6-1
Figure 4.6-1:	Gang Involvement

Table 4.7-1:	Gambling in the Past Year
Figure 4.7-1:	Gambling (Past Year)4.7-2
Table 4.8-1:	Dangerous Driving Behavior: Driving After Consuming Alcohol Or Marijuana4.8-1
Figure 4.8-1:	Dangerous Driving Behavior4.8-2

Section 5: Mental Health Data

Table 5.1-1:	Symptoms of Depression	5.1-2
Table 5.1-2:	Trauma, Stress, and Sleep	5.1-2
Table 5.1-3:	Suicide Risk	5.1-2
Figure 5.1-1:	Symptoms of Depression	5.1-3
Figure 5.1-2:	Trauma, Stress, and Sleep	5.1-3
Figure 5.1-3:	Suicide Risk	5.1-4
Table 5.2-1:	Depressive Symptoms and Youth Substance Use	5.2-1
Figure 5.2-1:	Youth Substance Use by Depressive Symptoms	5.2-2
Table 5.3-1:	Bullying and Depression/Suicide	5.3-1
Figure 5.3-1:	Bullying and Depression/Suicide Ideation	5.3-2

Section 6: Additional Data Relationships

Table 6.1-1:	Alcohol Use and Parental Rules
Figure 6.1-1:	Youth Alcohol Use by Perceived Parental Rules6.1-1
Table 6.2-1:	Academic Grades and Youth Substance Use
Figure 6.2-1:	Youth Substance Use by Academic Grades6.2-2
Table 6.3-1:	Family Financial Stress and Youth Substance Use6.3-1
Figure 6.3-1:	Youth Substance Use by Student-Reported Worry About Running Out of Food
Table 6.4-1:	Perception of Parental Disapproval6.4-1
Table 6.4-2:	Parental Acceptability and Youth Substance Use6.4-1
Figure 6.4-1:	Perception of Parental Disapproval6.4-2
Figure 6.4-2:	Youth Marijuana Use by Perceived Parental Disapproval of Marijuana Use
Table 6.5-1:	Peer Acceptability and Youth Substance Use
Figure 6.5-1:	Youth Marijuana Use by Perceived Peer Approval of Marijuana Use
Table 6.6-1:	Transitions and Mobility
Table 6.6-2:	Changing Homes and Youth Substance Use6.6-1
Figure 6.6-1:	Transitions and Mobility
Figure 6.6-2:	Youth Substance Use by Number of Home Changes in the Past 3 Years



The 2019 Pennsylvania Youth Survey (PAYS) was coordinated by the Pennsylvania Commission on Crime and Delinquency, the Pennsylvania Department of Drug and Alcohol Programs, and the Pennsylvania Department of Education working with The Pennsylvania State University and Bach Harrison, L.L.C.

We would like to extend our sincere appreciation to the 1013 schools that participated in administering this survey. A special "thank you" goes out to the students who completed the survey and their parents who supported their endeavors.

The Pennsylvania Commission on Crime and Delinquency (PCCD), the Pennsylvania Department of Drug and Alcohol Programs (DDAP), and the Pennsylvania Department of Education (PDE) would like to thank Bach Harrison, L.L.C. and Dr. Rose Baker of the Prevention Research Center at The Pennsylvania State University for their contributions and guidance during the administration of the 2019 Pennsylvania Youth Survey.

Additionally, a great deal of thanks for the leadership of this survey needs to go to the PCCD Resource Center Steering Committee, who provided guidance and oversight to this effort.

The administration of the survey would not have been a success without the contributions of the PAYS Advisory Group (PAYSAG), whose tireless efforts and ideas helped make this year's PAYS the most widely administered survey since Pennsylvania has been administering the tool.

Finally, the success of the 2019 PAYS could not have been achieved without the support and participation of school superintendents, administrators, principals, prevention coordinators, and teachers throughout the state. We extend our appreciation to the students who responded to the survey. Their thoughtful participation resulted in a wealth of information that can be used to improve the circumstances in which they live and learn.

We hope schools and communities find this year's data useful for their planning purposes. We invite ALL schools in Pennsylvania to participate in the 2021 survey. If interested, please contact Geoff Kolchin at PCCD at (717) 265-8483.



The "Pennsylvania Youth Survey" or "PAYS" has been conducted every other year in the Commonwealth of Pennsylvania since 1989. The biennial, odd-numbered year survey focuses on students in grades 6, 8, 10, and 12 and exists to gather information about youth knowledge, attitudes, and behaviors towards alcohol, tobacco, and other drug use. Beginning with the 2013 administration, PAYS was offered at no charge to any school or district (public, private, charter, and parochial) courtesy of funding provided by the Pennsylvania Department of Education (PDE), the Pennsylvania Department of Drug and Alcohol Programs (DDAP), and the Pennsylvania Commission on Crime and Delinquency (PCCD).

The 2019 PAYS was the fifteenth biennial administration (1989-2019). Comparisons in this report were made between the results of the 2015, 2017, and 2019 surveys, as well as comparisons to youth nationwide. Readers who are interested in the results from earlier surveys can consult past reports. Please note that this report does not contain data from all survey questions. To access and analyze data from the entire survey dataset, please visit www.bach-harrison. com/PAYSWebTool.

Over the last several survey administrations, PAYS has added additional questions about problem behaviors based on areas of interest to State and local leaders. These include questions around: illegal prescription drug use, gambling, depression/suicidal ideation, violence on school property, bullying (physical and online), gang involvement, student sleep habits, and students' sources of obtaining alcohol and/or prescription drugs. After each survey administration, Pennsylvania stakeholders review the survey instrument to determine if there are additional areas of importance that should be included in the next cycle or if some items have outlived their value and should be removed.

Questions are asked across four domains (community, school, family, and peer/individual) to help determine where the strengths of a community are that can be brought to bear to assist students. The questions also help determine where potential problems may exist outside of school that can have an impact on a student's readiness to learn when they arrive at their school each morning. This includes questions on having enough food, student homelessness, or loss of a close family member or friend.

PAYS is administered in the individual school buildings, using either paper/ pencil or online tool at the school's discretion. The survey is voluntary youth are able to skip any questions they do not wish to answer or to opt out of the survey entirely. Additionally, students are made aware PAYS has been that their responses will remain anonymous and confidential. No administered to individual student-level data can be obtained from the data set, vouth 15 times and the results are reported in aggregate at the local, county, and State levels. odd-numbered years,

Fall 1989. PAYS is a primary tool in Pennsylvania's prevention approach of using data to drive decision making. By looking not just at rates of problem behaviors but also at the root causes of those behaviors, PAYS allows schools and communities to address root causes (such as a lack of commitment to school) rather than only looking at the symptoms after the fact (like poor grades). This approach has been repeatedly shown in national research studies to be the most effective in helping youth develop into healthy, productive members of their society.

Participation by Pennsylvania Youth

The

in the Fall of

beginning in

An attempt was made to survey all of the students in grades 6, 8, 10, and 12 in Pennsylvania, and additional focus was devoted toward securing participation from school and grade combinations chosen for the Statewide Sample (the results of which are presented in this State Report). Offering the survey to the entire State in the form of a census is incredibly helpful for supplying community-level data. Program planning often requires knowledge of substance use, antisocial behavior, and risk and protective factors for various subpopulations, such as youth in a specific community, a grade in school, or from single-parent homes. Having a good sample of students throughout the State (in addition to participation secured through the State's sample) allows the State to have a hearty dataset in which to generate profile reports at the school district, county, and community levels.

A total of 294,340 public and private school students throughout the State participated in the Fall 2019 Pennsylvania Youth Survey. After odd-grade and invalid/dishonest surveys were removed, a total of 280,944 surveys were represented in final local-level reports. The results featured in this report stem from the PAYS Statewide Sample, which was designed to gather data most representative of the State. Community-level summary reports were issued to 470 school districts and charter/private schools.

There were 1,144 schools that chose to participate in the 2019 PAYS. 2018-2019 PDE enrollment figures show that there were a total of 377,469 public school students in grades 6, 8, 10, and 12 enrolled in these schools and eligible to participate in the survey. An attempt was made to survey all eligible Pennsylvania students, resulting in 280,944 valid participants in grades 6, 8, 10, and 12 (a participation rate of 74.4%), represented evenly across the State.

For PAYS, there was nearly an equal number of males and females who took the survey in all grades (49.8% female, 50.2% male). In terms of ethnicity, 85.4% of participants were non-Hispanic and 14.6% indicated they were of Hispanic, Latino, or Spanish ethnicity. In terms of race, the majority of respondents were White (70.0%), Black/African American (9.4%), or left their race unmarked (7.4%). The other race groups accounted for 13.2% of the respondents.

See Survey Methods section of this report for further information about analysis of data provided by survey participants.

The Risk and Protective Factor Framework

Pennsylvania has been using the Risk and Protective Framework to guide prevention efforts aimed at reducing youth problem behaviors. Risk factors are characteristics of school, community, and family environments, as well as characteristics of students and their peer groups that are known to predict increased likelihood of drug use, delinquency, school dropout, teen pregnancy, and violent behavior among youth. Dr. J. David Hawkins, Dr. Richard F. Catalano, and their colleagues at the University of Washington, Social Development Research Group have investigated the relationship between risk and protective factors and youth problem behaviors. For example, they have found that children who live in families with high levels of conflict are more likely to become involved in problem behaviors such as delinquency and drug use than children who live in families with low levels of family conflict.

Protective factors exert a positive influence or buffer against the negative influence of risk, thus reducing the likelihood that adolescents will engage in problem behaviors. Protective factors identified through research reviewed by Drs. Hawkins and Catalano include bonding to family, school, community and peers; healthy beliefs and clear standards for behavior; and individual characteristics. For bonding to serve as a protective influence, it must occur through involvement with peers and adults who communicate healthy values and set clear standards for behavior.

Research on risk and protective factors has important implications for prevention efforts. The premise of the Risk and Protective Factor Model is that in order to promote positive youth development and prevent problem behaviors, it is necessary to address those factors that predict the problem behaviors. By measuring risk and protective factors in a population, prevention programs can be implemented that will reduce the elevated risk factors and increase the protective factors. For example, if academic failure is identified as an elevated risk factor in a community, then mentoring, tutoring, and increased opportunities and rewards for classroom participation can be provided to improve academic performance. In order to make the results of the 2019 PAYS more usable, risk and protective summary profiles were developed that show the percentage of youth at risk and the percentage of youth with protection on each scale. Please note that PAYS is only one source of data for prevention and that some of the risk and protective factors can be measured with data from other sources. Being able to gather risk and protective factor data from other sources is important as it allows the PAYS form to be as brief as possible and also allows room on the survey form for additional questions to be asked related to other prevention strategies/projects.

Table ES-1 displays levels of risk in the four domains. The best strategy for analyzing risk factor scale scores is to compare State values to the Bach Harrison Norm values, which are calculated to represent a national average (See Section 2 for more information on the BH Norm). For a majority of risk factor scale values, Pennsylvania youth in all grades had lower levels of risk in comparison to the Bach Harrison Norm. The only risk factor scales in PA that were higher than the BH Norm in 2019 for all grades were the Parental Attitudes Favorable to Antisocial Behavior scale (11.7 – 16.8 percentage points higher than the BH Norm in each grade), Parental Attitudes Favorable to Drug Use (3.9 - 7.9 percentage points higher than the BH Norm in each grade), Peer/Individual Attitudes Favorable to Antisocial Behavior (2.4 - 4.7 percentage points higher than the BH Norm in each grade), and Peer/Individual Attitudes Favorable Toward Drug Use (3.3 - 5.3 percentage points higher than the BH Norm in each grade).

Table ES-2 displays levels of protection for all four domains. Again, the best strategy for analyzing protective factor scale scores is to compare State values to the Bach Harrison Norm. In general, Pennsylvania protection tended to be higher than the BH Norm for most scales. Only two scales (Religiosity and School Opportunities for Prosocial Involvement) in Pennsylvania showed protection scores were lower than the BH Norm for grades 6, 8, 10, and 12; protection scale scores for the School Opportunities for Prosocial Involvement scale were 4.6 to 12.0 percentage points lower than the BH Norm, and protection scale scores for the Religiosity scale were 2.7 to 10.0 percentage points lower than the BH Norm.

Additional risk and protective factor data can be seen in Tables ES-1 and ES-2. Further, Section 2 of the State Report has thorough data on levels of risk and protection.

Substance Use Rates

Throughout the 2019 Report, tables are also used to show data for lifetime and 30-day use. Examples of these tables are displayed in Tables ES-3 through ES-10 in this Executive Summary. Lifetime use is a measure of the percentage of students who tried the particular substance at least once in their life and is used to show the level of experience with a particular substance. Past-month (or 30-day) use is a measurement of any use in the past 30 days, and is used to demonstrate more regular substance use. When comparable, the results of the Pennsylvania survey are compared to a national survey that is conducted each year by the University of Michigan called Monitoring the Future (MTF). MTF also only surveys students in the 8th, 10th, and 12th grades.

When looking at the Pennsylvania and MTF lifetime survey results, lifetime alcohol use was higher in Pennsylvania for the 8th grade (7.8 percentage points higher in Pennsylvania compared to the national MTF rates), 10th grade (8.9 percentage points higher in Pennsylvania compared to the nation), and 12th grade (4.5 percentage points higher in Pennsylvania). In regard to tobacco use, the rate of lifetime smokeless tobacco use in Pennsylvania was higher than the nation in the 12th grade (11.8% for Pennsylvania, 9.8% for MTF). Prescription pain reliever drug use was also slightly higher than the national rate for the 12th grade (6.1% lifetime 12th grade use for PA, 5.3% use for the MTF). For all other substances, State use rates were lower than, or equal to, the national rates.

PAYS data also show that rates of lifetime alcohol use decreased significantly in the 10th and 12th grades (a decrease of 1.0 percentage points in the 10th grade and a decrease of 6.2 percentage points in the 12th grade) since the 2017 survey; the lifetime cigarette use rate decreased 2.5 percentage points in the 8th grade, 4.0 percentage points in the 10th grade, 7.1 percentage points in the 12th grade, and 3.7 percentage points for all grades combined since 2017; lifetime smokeless tobacco use decreased 1.8 percentage points in the 8th grade, 2.5 percentage points in the 10th grade, and 4.1 percentage points in the 12th grade. Marijuana experimentation rates were largely unchanged, though the 8th grade showed an decrease of 1.0 percentage points from 2017 (8.4%) to 2019 (7.4%). Lifetime prescription pain reliever use decreased 1.0 percentage points for the 10th grade since 2017 and decreased 2.7 percentage points for the 12th grade since 2017.

As with lifetime use, there are few instances in which Pennsylvania 30-day use rates are higher than national MTF rates. Past-month alcohol use rates were higher in Pennsylvania for 10th and 12th grade in comparison to MTF rates (3.2 percentage points higher for the 10th grade, and 4.6 percentage points higher for the 12th grade). Past-month cigarette use is also slightly higher for Pennsylvania 12th graders (1.8 percentage points higher). Pennsylvania 12th graders also indicated a past-month smokeless tobacco use rate that was 2.5 percentage points higher than the national rate. 2019 was the third PAYS administration to gather past-month e-cigarette use data; and these data show

higher use for PA students in comparison to the nation for grades 10 and 12 (1.5 percentage points higher 10th grade use in Pennsylvania vs. the MTF, and 2.2 percentage points higher 12th grade use in Pennsylvania vs. the MTF).

In regard to data changes from 2017 to 2019, positive decreases were seen for many substances. Past-month alcohol use decreased 2.0 percentage points for the 12th grade (from 35.9% in 2017 to 33.9% in 2019). Past-month cigarette use decreased 2.0 percentage point in the 10th grade (from 6.0% in 2017 to 4.0% in 2019) and 5.7 percentage points in the 12th grade (from 13.2% in 2017 to 7.5% in 2019). Past-month smokeless tobacco use also significantly decreased for the 10th and 12th grades. While no grade saw a significant decrease in prescription drug use, 12th grade showed some promising changes when we look at how the data have fallen since the 2015 survey. For example, in 2015, 3.0% of 12th graders had tried a prescription pain reliever; in 2019, the rate had dropped to 1.1%. In 2015, 3.2% of 12th graders had tried a prescription stimulant; in 2019, the rate had dropped to 1.0%.

Table ES-1

Risk Factor Scales

		6	th			81	th			10)th			12	th.			All G	rades	
	State 2015	State 2017	State 2019	BH Norm																
Community																				
Low Neighborhood Attachment	39.2	41.0	44.5	42.1	35.2	35.1	35.2	35.7	42.0	42.8	42.5	42.8	49.7	50.5	51.9	49.4	41.7	42.5	43.5	42.5
Perceived Availability of Drugs	32.9	32.8	33.5	35.8	26.0	25.9	25.5	34.9	30.1	28.5	25.4	34.5	34.4	30.8	26.8	32.7	30.8	29.4	276	34.4
Perceived Availability of Handguns	15.9	15.7	13.9	22.4	24.9	23.4	21.8	33.2	31.1	31.0	28.0	38.3	39.9	37.9	34.6	45.5	28.6	27.7	24.9	35.6
Laws & Norms Favorable Toward Drug Use	39.8	43.6	45.8	43.6	30.7	31.8	32.4	33.5	39.2	38.8	40.3	42.1	39.1	38.9	37.7	44.2	37.2	38.1	38.8	40.6
Family																				
Family History of Antisocial Behavior	37.8	37.3	37.5	44.0	33.3	34.0	30.7	40.4	30.3	30.3	28.8	39.1	30.9	30.3	27.0	37.4	32.9	32.8	30.9	39.9
Poor Family Management	39.7	39.0	43.8	44.8	36.7	35.7	34.0	41.4	39.2	37.6	35.1	41.6	33.7	32.2	29.3	35.0	37.3	36.0	35.4	40.2
Parental Attitudes Favorable Toward Drug Use	14.5	15.6	17.4	11.4	25.7	27.3	26.6	22.7	40.9	42.1	43.5	35.6	42.8	42.9	42.2	36.8	31.6	32.8	32.8	28.0
Parental Attitudes Favorable Toward Antisocial Behavior	48.3	50.1	53.3	36.9	40.1	40.9	41.7	30.0	47.3	47.2	50.4	33.6	47.0	47.1	47.7	34.1	45.7	46.2	48.2	33.3
Family Conflict	34.9	34.0	35.1	36.9	31.8	30.9	30.1	32.7	36.3	35.8	34.2	37.5	38.1	38.0	36.6	37.5	35.3	34.8	34.0	36.1
School		·	·																	
Academic Failure	29.9	30.7	34.4	32.6	35.3	36.3	38.3	32.5	34.7	37.4	38.5	35.1	34.6	35.9	36.6	33.4	33.8	35.3	37.0	33.5
Low Commitment Toward School	33.3	37.2	45.4	47.0	41.7	46.8	52.7	50.1	45.5	49.8	55.3	53.8	44.6	43.8	48.6	49.5	41.5	44.7	50.6	50.3
Peer And Individual		1	1					1		1	1	1						1		
Rebelliousness	25.7	25.8	27.2	33.8	21.7	20.8	18.3	26.0	25.7	26.1	24.4	30.4	31.1	28.4	25.2	31.7	26.1	25.3	23.7	30.1
Gang Involvement	10.4	11.3	10.3	7.7	10.3	11.3	10.7	6.4	11.5	11.2	11.3	6.2	15.6	14.6	13.9	6.8	12.0	12.1	11.6	6.6
Perceived Risk of Drug Use	43.0	47.2	48.8	50.9	39.3	43.8	43.2	47.7	43.9	46.3	46.7	48.8	55.7	58.6	58.2	58.6	45.6	49.1	49.2	51.4
Attitudes Favorable Toward Drug Use	19.1	21.5	22.4	17.3	38.0	40.2	40.7	37.4	43.1	44.2	45.0	39.7	47.4	46.6	45.5	41.4	37.4	38.7	38.7	35.7
Attitudes Favorable Toward Antisocial Behavior	32.4	36.8	41.2	38.8	28.3	29.2	32.0	29.4	35.6	37.7	39.8	35.1	39.4	38.3	39.7	35.3	34.0	35.6	38.1	34.2
Sensation Seeking	39.1	36.7	39.6	36.8	33.0	31.5	30.7	34.8	34.3	33.7	33.6	34.9	32.2	30.3	29.4	31.5	34.5	32.9	33.2	34.4
Rewards for Antisocial Behavior	15.2	16.4	17.2	21.6	31.2	33.0	32.6	41.4	35.2	36.9	34.5	39.5	41.7	40.1	37.2	44.1	31.4	32.3	30.7	38.2

Table ES-2 Protective Factor Scales

		61	th			81	:h			10	th			12	th			All G	rades	
	State 2015	State 2017	State 2019	BH Norm																
Community																				
Rewards for Prosocial Involvement	49.4	45.8	39.7	41.4	49.9	45.9	43.2	45.1	43.5	40.6	38.5	39.7	43.3	40.1	39.6	38.9	46.4	42.9	40.3	41.3
Family																				
Family Attachment	66.1	65.6	62.1	63.5	62.9	61.8	61.8	59.9	63.8	63.7	64.6	61.6	60.3	61.0	60.6	59.1	63.2	62.9	62.3	60.7
Opportunities for Prosocial Involvement	58.6	58.3	54.8	57.2	67.0	68.4	68.0	65.9	63.0	61.4	64.3	60.6	58.9	59.5	60.1	58.3	61.9	61.9	61.9	60.7
Rewards for Prosocial Involvement	61.7	60.7	57.4	56.9	69.1	69.0	67.4	65.7	60.8	60.4	60.9	57.9	56.2	56.0	55.5	54.6	61.9	61.5	60.3	58.9
School																				
Opportunities for Prosocial Involvement	61.6	60.8	54.2	58.8	52.3	51.9	47.0	54.4	47.0	43.7	39.3	51.3	46.5	45.5	43.3	52.1	51.4	49.9	45.7	53.6
Rewards for Prosocial Involvement	64.1	62.9	57.1	54.6	56.9	55.5	51.7	51.6	47.9	43.8	41.5	46.2	48.5	47.6	43.2	49.4	53.9	51.9	48.1	50.2
Peer And Individual																				
Religiosity	47.9	44.4	40.5	50.5	46.2	43.7	40.5	45.9	40.0	38.8	36.0	40.2	35.4	34.5	31.3	34.0	42.2	40.1	37.0	42.1
Belief In The Moral Order	53.3	52.1	45.8	50.5	61.7	58.5	62.0	58.0	63.2	61.9	62.2	60.6	60.1	59.7	61.7	58.8	59.8	58.3	58.2	57.9
Total																				
Total Protection	56.7	52.5	49.4	46.7	58.8	59.3	60.2	51.2	58.9	55.0	55.7	49.8	55.1	54.3	52.4	48.2	57.4	55.3	54.4	49.2

Table ES-3

Alcohol Use: Lifetime, Past-Month, Binge Drinking

		Alcohol (Lit	fetime Use)			Alcohol (3	0-Day Use)			Binge D	Prinking	
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019
6th	15.8	16.8	16.7	n/a	3.3	3.3	3.2	n/a	1.3	1.3	1.2	n/a
8th	33.9	33.0	32.3	24.5	9.5	9.3	8.4	7.9	3.2	3.3	2.9	3.8
10th	54.2	53.0	52.0	43.1	22.3	22.3	21.6	18.4	8.4	8.7	8.4	8.5
12th	71.0	69.2	63.0	58.5	37.6	35.9	33.9	29.3	18.0	16.5	17.2	14.4
All	43.9	43.3	41.0	n/a	18.2	17.9	16.8	n/a	7.8	7.5	7.4	n/a

Table ES-4 Tobacco Use: Lifetime and Past-Month Cigarette and Smokeless Tobacco Use

	Cig	arettes (L	.ifetime l	Jse)	Cig	arettes (30-Day U	lse)	Smokele	ess Tobac	co (Lifeti	me Use)	Smokel	ess Toba	cco (30-D	ay Use)	E-Ci	garettes	(30-Day	Use)
Grade	State	State	State	MTF	State	State	State	MTF	State	State	State	MTF	State	State	State	MTF	State	State	State	MTF
Giude	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019
6th	2.9	2.7	2.3	n/a	0.8	0.6	0.5	n/a	1.2	1.1	1.1	n/a	0.4	0.3	0.3	n/a	2.6	2.3	3.8	n/a
8th	11.0	9.4	6.9	10.0	3.5	2.5	1.9	2.3	4.5	4.4	2.6	7.1	1.8	1.8	0.9	2.5	11.7	10.9	12.5	12.2
10th	18.3	16.2	12.2	14.2	6.8	6.0	4.0	3.4	9.8	8.9	6.4	9.2	4.9	4.2	2.1	3.2	20.4	21.9	26.5	25.0
12th	32.7	29.0	21.9	22.3	14.6	13.2	7.5	5.7	18.1	15.9	11.8	9.8	9.2	7.5	5.0	3.5	27.0	29.3	33.1	30.9
All	16.3	14.5	10.8	n/a	6.4	5.6	3.5	n/a	8.4	7.6	5.5	n/a	4.1	3.5	2.1	n/a	15.5	16.3	19.0	n/a

Table ES-5Marijuana Use: Lifetime and Past-Month

	Ma	arijuana (L	ifetime U	se)	М	arijuana (30-Day Us	e)
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019
6th	1.2	0.9	1.3	n/a	0.6	0.5	0.5	n/a
8th	7.3	8.4	7.4	15.2	3.8	4.6	4.0	6.6
10th	22.0	22.4	22.4	34.0	12.0	12.0	12.9	18.4
12th	38.2	38.1	37.5	43.7	20.8	20.8	20.8	22.3

Table ES-6 Inhalant Use: Lifetime and Past-Month

	In	halants (L	ifetime Us	e)	lı	nhalants (3	30-Day Use	2)
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019
6th	3.27	3.6	4.4	n/a	1.7	1.6	2.0	n/a
8th	4.78	5.2	5.7	9.5	1.5	1.6	1.7	2.1
10th	4.67	4.2	5.0	6.8	1.1	0.9	1.1	1.1
12th	5.24	4.2	4.7	5.3	0.7	0.6	0.8	0.9
All	4.50	4.3	4.9	n/a	1.3	1.1	1.4	n/a

Table ES-7 Prescription Drugs: Lifetime Use

		PEDs & S	Steroids		Presc	ription l	Pain Reli	evers	Pres	cription	tranquil	izers	Pre	scriptior	ı stimula	ints		ver-the-Co ne purpose		
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019												
6th	0.7	0.5	0.6	n/a	1.9	1.8	2.2	n/a	0.3	0.4	0.5	n/a	0.6	0.6	0.9	n/a	2.6	2.3	2.7	n/a
8th	0.6	0.6	0.7	1.5	4.3	3.9	3.3	n/a	0.8	1.1	1.0	4.0	1.0	1.1	1.6	6.8	2.5	2.9	3.0	n/a
10th	1.2	1.0	0.8	1.6	6.7	5.9	4.9	n/a	2.6	2.6	2.5	5.7	3.3	3.3	3.4	8.2	4.2	4.6	4.9	n/a
12th	1.6	1.2	0.9	1.6	12.1	8.8	6.1	5.3	5.3	4.5	3.3	6.1	9.7	6.8	4.2	7.7	6.5	5.1	5.1	n/a
All	1.0	0.8	0.8	n/a	6.3	5.1	4.1	n/a	2.3	2.2	1.9	n/a	3.7	3.0	2.5	n/a	4.0	3.8	3.9	n/a

Table ES-8Prescription Drugs: Past Month Use

		PEDs &	Steroids		Preso	cription I	Pain Relie	evers	Pres	cription	tranquil	izers	Pre	scriptior	ı stimula	nts		er-the-Co purpose		rugs ng high)
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019												
6th	0.3	0.2	0.3	n/a	1.0	0.7	1.1	n/a	0.1	0.1	0.2	n/a	0.2	0.3	0.5	n/a	1.4	1.2	1.5	n/a
8th	0.2	0.2	0.2	0.3	1.6	1.2	1.1	n/a	0.3	0.5	0.3	1.2	0.4	0.4	0.6	2.2	1.2	1.2	1.4	n/a
10th	0.4	0.3	0.2	0.4	2.0	1.7	1.2	n/a	0.8	0.7	0.7	1.3	1.4	0.9	1.1	2.4	1.6	1.5	1.4	n/a
12th	0.4	0.3	0.3	0.7	3.0	1.7	1.1	1.0	1.4	1.3	0.7	1.3	3.2	1.7	1.0	2.0	1.4	1.1	1.1	n/a
All	0.3	0.3	0.2	n/a	1.9	1.3	1.1	n/a	0.7	0.7	0.5	n/a	1.3	0.8	0.8	n/a	1.4	1.3	1.3	n/a

Table ES-9Other Illegal Drugs: Lifetime Use

		Her	oin		ŀ	lallucii	nogen	S		Ecst	asy		S	ynthet	ic drug	s		Coc	aine			Cra	ack		Met	thamp	hetam	ines
Grade															State													
	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019
6th	0.2	0.1	0.1	n/a	0.3	0.2	0.2	n/a	0.2	0.2	0.1	n/a	1.5	1.8	1.7	n/a	0.3	0.1	0.2	n/a	0.2	0.2	0.2	n/a	0.3	0.1	0.2	n/a
8th	0.3	0.2	0.1	0.7	0.7	0.9	0.7	2.4	0.7	0.8	0.5	1.7	1.8	1.5	1.6	n/a	0.5	0.5	0.4	1.2	0.4	0.4	0.3	0.9	0.4	0.3	0.2	0.9
10th	0.6	0.4	0.4	0.4	3.4	2.8	3.8	4.7	2.0	1.6	1.5	3.2	2.6	1.6	1.3	n/a	1.3	1.1	1.1	2.5	0.6	0.6	0.5	0.9	0.6	0.4	0.4	0.7
12th	1.4	0.5	0.3	0.6	6.9	6.3	5.9	6.9	5.4	3.1	2.1	3.3	4.8	2.0	1.4	n/a	3.8	2.7	2.1	3.8	0.9	0.6	0.5	1.7	1.0	0.6	0.4	0.8
All	0.6	0.3	0.2	n/a	2.8	2.6	2.7	n/a	2.1	1.4	1.1	n/a	2.7	1.7	1.5	n/a	1.5	1.1	1.0	n/a	0.5	0.4	0.4	n/a	0.5	0.3	0.3	n/a

Table ES-10 Other Illegal Drugs: Past-Month Use

		Her	oin		ŀ	Hallucii	nogen	s		Ecst	tasy		Sy	ynthet	ic drug	IS		Coca	aine			Cra	ack		Met	hampl	hetam	ines
Grade																		State								State		
- Cruce	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019	2015	2017	2019	2019
6th	0.1	0.0	0.0	n/a	0.0	0.1	0.1	n/a	0.1	0.1	0.1	n/a	0.8	0.8	0.9	n/a	0.1	0.1	0.1	n/a	0.1	0.1	0.1	n/a	0.1	0.0	0.0	n/a
8th	0.1	0.1	0.0	0.1	0.2	0.4	0.2	0.6	0.3	0.4	0.2	0.5	0.5	0.5	0.6	n/a	0.2	0.1	0.2	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1
10th	0.2	0.2	0.1	0.2	0.8	0.9	0.9	1.3	0.4	0.4	0.3	0.7	0.7	0.4	0.3	n/a	0.3	0.2	0.2	0.6	0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.3
12th	0.3	0.1	0.1	0.3	1.5	1.3	1.4	1.8	1.3	0.5	0.3	0.7	0.5	0.4	0.3	n/a	0.8	0.8	0.5	1.0	0.1	0.2	0.1	0.7	0.2	0.2	0.1	0.3
All	0.2	0.1	0.0	n/a	0.6	0.7	0.7	n/a	0.6	0.3	0.2	n/a	0.6	0.5	0.5	n/a	0.3	0.3	0.2	n/a	0.1	0.1	0.1	n/a	0.1	0.1	0.1	n/a

In the 2019 administration of PAYS, 1144 schools participated. The results featured in this report stem from the PAYS Statewide Sample, which was designed to gather data most representative of the Commonwealth. Findings for each of the report sections are summarized below:

Risk Factor Profiles

For a majority of risk factor scale values, Pennsylvania youth in all grades had lower levels of risk in comparison to the Bach Harrison Norm. The only risk factor scales in Pennsylvania that were higher than the BH Norm in 2019 for all grades were the Parental Attitudes Favorable to Antisocial Behavior scale, Parental Attitudes Favorable to Drug Use, Peer/Individual Attitudes Favorable to Antisocial, and Peer/Individual Attitudes Favorable Toward Drug Use.

Protective Factor Profiles

In general, Pennsylvania protection tended to be higher than the BH Norm for most scales. Only two scales (Religiosity and School Opportunities for Prosocial Involvement) in Pennsylvania showed protection scores were lower than the BH Norm for all grades.

Substance Use for Pennsylvania

When looking at the Pennsylvania and MTF lifetime survey results, lifetime alcohol use was higher in Pennsylvania for the 8th grade (7.8 percentage points higher in Pennsylvania compared to the national MTF rates), 10th grade (8.9 percentage points higher in Pennsylvania compared to the nation), and 12th grade (4.5 percentage points higher in Pennsylvania). In regard to tobacco use, the rate of lifetime smokeless tobacco use in Pennsylvania was higher than the nation in the 12th grade (11.8% for Pennsylvania, 9.8% for MTF). Prescription pain reliever drug use was also slightly higher than the national rate for the 12th grade (6.1% lifetime 12th grade use for PA, 5.3% use for the MTF). For all other substances, State use rates were lower than, or equal to, the national rates.

As with lifetime use, there are few instances in which Pennsylvania 30-day use rates are higher than national MTF rates. Past-month alcohol use rates were higher in Pennsylvania for 10th and 12th grade in comparison to MTF rates (3.2 percentage points higher for the 10th grade, and 4.6 percentage points higher for the 12th grade). Past-month cigarette use is also slightly higher for Pennsylvania

12th graders (1.8 percentage points higher). Pennsylvania 12th graders also indicated a past-month smokeless tobacco use rate that was 1.5 percentage points higher than the national rate. 2019 was the third PAYS administration to gather past-month e-cigarette use data; and these data show higher use for PA students in comparison to the nation for grades 10 and 12 (1.5 percentage points higher 10th grade use in Pennsylvania vs. the MTF, and 2.2 percentage points higher 12th grade use in Pennsylvania vs. the MTF).

Substance Use by Gender

Although being female is generally considered a protective factor for most problem behaviors, it can be seen that males and females are very similar in their use of most substances and generally have substance use rates that are less than three percent of each other. One area in which males are significantly higher users is with smokeless tobacco use, in which males in all grades use much more smokeless tobacco - over three times higher for all grades combined (8.1% lifetime use by males, 2.7% lifetime use by females). For past-month use, the only substance that is consistently higher in all grades for males compared to females is smokeless tobacco (3.3% for males, 0.9% for females). When it comes to past-month substance use, it is interesting to note differences in male/female use across the grades. In the 6th grade, substance use is quite similar across all substances for males and females, with males having equal or slightly higher use rates for 16 of the 18 substances. In the 8th, however, females show slightly more use; 8th grade females indicate slightly higher use over males in 10 of the 18 substance categories. In the 10th grade, females indicate slightly higher use for 6 categories; and in the 12th grade, only 4 categories.

Perceived Harmfulness of ATODs:

Of the seven substance use categories, students perceived the greatest risk in using prescription drugs not prescribed to them (82.9% perceived moderate or great risk overall) and smoking one or more packs of cigarettes per day (80.1% perceived moderate or great risk overall). Of the seven categories, students perceived the least amount of risk in trying marijuana once or twice (42.4% of students perceived moderate or great risk) and smoking marijuana once or twice a week (57.8% of students perceived great or moderate risk).

Sources of Obtaining Alcohol

For all grades combined, 34.3% of alcohol-using youth took the alcohol without permission, stole it, or found it; 26.7% gave someone money to buy it for them; 25.7% indicated their parents provided it; 23.8% indicated that friends or siblings over 21 bought it for them; 17.9% indicated their friends' parents provided it; 15.9% indicated friends or siblings under the age of 21 provided it; 14.2% indicated other relatives provided it; 4.3% bought it at a store; 3.1% bought it at a public event such as a concert or sporting event; 2.7% bought it at a restaurant, bar, or club; and 23.6% obtained it from another source not listed.

Sources of Obtaining Prescription Drugs

For all grades combined, 41.4% of prescription-drug-using students indicated taking the drugs from a family member living in their home, 38.7% indicated that a friend or family member gave them to the student, 22.7% indicated that they bought them from someone, 13.7% indicated they took them from someone not related to them, 11.1% indicated they took them from relatives who were not living in their home, and 8.3% indicated they ordered them over the Internet.

Antisocial Behavior by Grade and Gender

In comparison to the BH Norm (used to provide a comparison to a more national average), Pennsylvania youth indicate antisocial behavior rates that are lower than this national average. Rates of attacking someone to seriously harm them are 2.6 percentage points to 4.5 percentage points lower in Pennsylvania vs. the BH Norm in each grade. Fewer students in Pennsylvania report being at school while drunk or high, in comparison to the BH national norm (6.2% for Pennsylvania, all grades combined; 8.8% for the BH Norm).

Although the data gathered from the 2019 PAYS indicate that male and female substance use rates are typically quite similar, male-female differences are more marked when looking at antisocial behaviors such as those highlighted in this section — heavy cigarette use, binge drinking, school suspension, illegal drug sales, reported arrest, attacking someone with the intent of harming them, being drunk or high at school, driving a vehicle after drinking, and driving a vehicle after smoking marijuana.

School-Related Violence and Drug Behaviors

Of all students surveyed, 8.5% of students in all grades have been offered drugs at least one time in the past 12 months. Of all students surveyed, 18.9% indicate having been threatened at school at least once in the past year, and 3.9% indicated having been threatened with a weapon at school in the past year. In regard to actual attacks, 7.6% of all students indicated having been attacked at school, and 1.1% indicated having been attacked with a weapon at school. In the past month, 0.9% of students in the state sample indicated that they brought a weapon (such as a gun, knife, or club) to school at least one time.

Bullying and Internet Safety

Over one in four (25.1% of all students) indicated they had been bullied in the past year, 14.0% reported having been electronically bullied, and 4.6% said they had stayed home from school in the past year due to worries about bullying. Rates of being electronically bullied were highest in the 8th grade (15.0% of 8th graders reported having been electronically bullied). Students were also asked about inappropriate sexual contact through technology. Of all students, 21.0% marked "YES!" or "yes" to this question and 10th graders reported the highest response to this question (28.6% marked "YES!" or "yes").

Gang Involvement

PAYS gathers some basic data regarding youth gang involvement. In 2019, 3.8% of all students indicated that they had belonged to a gang at some point in their life, and 3.4% indicated their gang had a name.

Gambling

About one in three students (33.7%) have gambled in their lifetime and nearly one in ten (9.3%) have gambled in the past month. Past-month gambling decreased nearly one percentage point in the 10th grade from 2017 (11.3%) to 2019 (10.4%). The individual activities most often participated in during the past year were playing the lottery (20.2% of all students, a grade-level peak of 21.4% in the 10th grade), betting on personal games of skill (18.2% of all students, a grade-level peak of 20.3% in the 10th grade), and betting on sports (12.7% of all students, a grade-level peak of 14.0% in the 10th grade).

Dangerous Driving Behaviors

PAYS data show that 1.5% of students statewide reported driving after consuming alcohol (past year), though the rate within the 12th grade population was significantly higher at 3.9% of that grade. Fewer students reported driving after smoking marijuana in the past year in 2019 (3.0% of the total survey sample population, and 9.8% of 12th grade respondents).

Mental Health, Suicide, Stress, Sleep, and Trauma Indicators

The following are some key findings from these mental health, trauma, and stress-related data:

- The survey data show that 38.0% of all students indicated (via responding "YES!" or "yes" to the statement) that they had felt depressed or sad most days in the past 12 months; 25.0% of all students indicated that they sometimes thought life is not worth it; 36.3% of all students indicated that "at times I think I am no good at all"; and 23.4% indicated that they felt that they were a failure. Further 14.4% of students (all grades combined) indicated harming themselves (i.e., "cutting, scraping, burning as a way to relieve difficult feelings, or to communicate emotions that may be difficult to express verbally") at least one time in the past year.
- There was a slight increase in reported rates of students thinking "I am no good at all" in the past year; an increase for all grades combined of 1.2 percentage points (35.1% in 2017 and 36.3% in 2019). The rate of students who reported "all in all, I am inclined to think I am failure" also increased for all grades combined from 20.6% in 2017 to 23.4% in 2019.
- In terms of sleep problems, 37.9% of all students indicated that slept less an 7 hours a night on an average school night, and 64.7% indicated they felt tired or sleeping during the day "every day" or "several times" during the past two weeks.
- 39.1% of students (all surveyed grades combined) indicated that they had experienced the death of a close family member or friend in the past year; 11.7% indicated having the stress of worrying that food at home would run out; and 6.2% indicated the stress of having to skip a meal due to a lack of money.
- 16.2% of students in all grades combined indicated that they had considered suicide in the past year. The grade-level rates for this question were as follows: 10.4% of 6th graders, 15.3% of 8th graders, 18.9% of

10th graders, and 19.9% of 12th graders indicated they had considered suicide in the past year. While suicide consideration decreased for 8th and 10th graders since 2017, the 6th grade rate of considering suicide significantly increased from 8.8% in 2017 to 10.4% in 2019.

- 12.9% of students in all grades combined indicated that they had gone so far as to create a suicide plan at least once in the past year. The grade-level rates for this question were as follows: 8.0% of 6th graders, 12.1% of 8th graders, 15.8% of 10th graders, and 15.4% of 12th graders indicating they had created a suicide plan.
- In regard to those students who indicated they had attempted suicide in the past year, 6.8% of 6th graders, 9.3% of 8th graders, 11.2% of 10th graders, 11.4% of 12th graders, and 9.7% of all students indicated that they had attempted suicide at least one time in the past 12 months.

Depressive Symptoms and Substance Use

PAYS data show a strong link between youth who report depressive symptoms and ATOD use. When compared to the non-depressed group, the youth with high depressive symptoms indicate 30-day alcohol use rates that are three times higher than non-depressed students. Depressed students indicate use rates that are nine times higher for past-month cigarette use and nearly five times higher for past month marijuana use in comparison to non-depressed students.

Bullying and Mental Health

PAYS Survey data for two bullying measures (skipping school due to bullying fears and being cyberbullied in the past year) show a strong relationship between being bullied and suicide ideation. For example, of students who indicated they hadn't been cyberbullied in the past year, 20.6% reported that they felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities. Of students who indicated they had been bullied in the past year, 54.0% indicated feeling so sad or hopeless almost every day for at least two weeks in past year that they stopped doing usual activities. Of students that indicated they had been cyberbullied in the past year, 39.5% had considered suicide in the past year, 30.9% had made a suicide plan in the past year, and 28.2% had attempted suicide in the past year.

Parents' Rules and Expectations Regarding Substance Use

Of the students marking "YES!" or "yes" to the statement "My family has clear rules about alcohol and drug use," 32.5% indicated they had used alcohol in their lifetime and 14.9% indicated they had used alcohol in the past month. In contrast, of students who marked "NO!" or "no" to that statement, 62.8% indicated they had used alcohol in their lifetime and 38.7% indicated they had used alcohol in the past month. These data reinforce the idea that parents must set clear rules and expectations regarding substance use.

Academic Performance and Substance Use

Of the youth who report getting better grades, fewer have tried ATODs and fewer are currently using ATODs than those who report poorer grades. Failing (D or F) youth indicate past month alcohol use rates that are nearly two times higher than "A" students' alcohol use rates, past month marijuana use rates that are four times higher than the "A" students' use rates, and past month cigarette use rates that are eight times higher than the use rate of "A" students. Similar and more dramatic differences can be seen for individual drugs.

Family Financial Stress and Substance Use

PAYS data show a strong relationship between family financial stress and drug use, with more regular worry about food supplies corresponding with higher levels of youth drug use. For example, in Pennsylvania, of youth who said that they "never" worried about food at home, 8.3% had used marijuana in the past month. Of youth who indicated that they had worried about food before, but not in the past year, slightly more of those students indicated past-month marijuana use (13.2%). Of youth who indicated they had worried about food less than once a month, past-month marijuana use increased to 14.0%. Of youth who indicated they worried about food once a month or more, 17.0% of those youth indicated regular marijuana use.

Perceived Parental Acceptability and Substance Use

A large majority of students perceive parental disapprove of substance use. Of all students, 94.5% indicated their parents felt it was "Wrong" or "Very wrong"

to use tobacco, 89.1% perceived parental disapproval of marijuana use, 89.0% perceived parental disapproval of having 1-2 drinks nearly every day use, and 94.0% perceived parental disapproval of prescription drug use. Relatively few students (9.0% lifetime, 4.0% 30-day) use marijuana when their parents think it is "Very Wrong" to use it. In contrast, when a student believes that their parents agree with use somewhat (i.e., the parent only believes that it is "Wrong," not "Very Wrong"), use increases to 34.2% for lifetime use and 18.4% for 30-day use. Rates of use continue to increase as the perceived parental acceptability increases.

Perceived Peer Acceptability and Substance Use

As with perceived parental acceptability, the slightest perceived peer acceptability seriously increases the chance that a student will use ATODs. When youth thought there was "No or very little chance" that they would be seen as cool if they used marijuana, only 7.7% had tried marijuana in their lifetime and only 3.6% had used it in the last month. However, when youth thought that there was even a "Little chance" that they would be seen as cool, marijuana use rates were over three times higher for lifetime use (27.8%) and over four times higher for past-month use (14.9%). Youth who thought that there was a "Very good chance" they would be seen as cool were over nine times more likely to use marijuana in the past month than youth who perceive that marijuana use was not cool.

Transitions/Mobility and Substance Use

The 2019 PAYS found that a majority of youth in the State had not moved in the past year or two years. Of all students, 12.1% indicated having moved one or two times in the past year, and 2.3% have moved three or more times in the past year. Also, 21.3% of students indicated they had changed homes one or two times in the past three years, and 5.0% changed homes three or more times in the past three years. Of students who indicated that they had "never" moved in the past three years, 15.3% of them had used marijuana in their lifetime, and 8.2% had used in the past three years, 27.2% had used marijuana in their lifetime, and 17.0% had used in the past month.

Section 1: Survey Methods

This Survey Methods section discusses the survey questionnaire, how it was administered, the demographics of total survey participants, State sampling strategies and weighting, and validation measures.

Survey Questionnaire

The original risk and protective factor survey questionnaire was developed through the combined efforts of six states and the Social Development Research Group at the University of Washington. The collaborative survey development process was a Center for Substance Abuse Besides Prevention (CSAP) project called the Six-State Consortium. measuring risk and The goal of the Consortium was to develop a survey that protective factors, provided scientifically sound information about the levels the survey also assesses of risk and protection in a community. The survey has the current prevalence of been further refined through the Diffusion Consortium alcohol, tobacco, Project that involved seven states and was funded by and other four Federal Agencies: the National Institute of Drug drug use. Abuse (NIDA), Safe and Drug Free Schools Program, Office of Juvenile Justice and Delinquency Prevention, and CSAP. The PAYS questionnaire was created by The Pennsylvania State University (formatted and printed by Bach Harrison, L.L.C.) to better meet the needs of Pennsylvania. See the PAYS Portal (www.pays.pa.gov) to see a copy of the questionnaire.

Risk and protective factors are characteristics of a community that are reported by the youth who complete the survey. Besides measuring risk and protective factors, the survey also assesses the current prevalence of ATOD use. The substances that were measured by the survey include: 1) alcohol, 2) cigarettes, 3) e-cigarettes, 4) smokeless tobacco, 5) marijuana, 6) inhalants, 7) heroin, 8) hallucinogens, 9) ecstasy, 10) synthetic drugs, 11) cocaine, 12) crack, 13) methamphetamines, 14) Performance Enhancing Drugs (PEDs)/steroids, 15) prescription pain relievers, 16) prescription tranquilizers, and 17) prescription stimulants. The questions that ask about substance use are similar to those used in the national survey, Monitoring the Future, in order that comparisons between the two surveys can be made easily.

There were a total of 21 risk factor scales and 8 protective factor scales that were measured by the 2019 survey. Appendix A provides a complete list of the risk and protective factors and the corresponding risk and protective factor scales within the Risk and Protective Factor Model.

ence of co, The scales of the survey were originally developed between 1994 and 1997 through extensive testing with over 100,000 students. Work through the Diffusion Consortium Project has resulted in changes to several risk factor scales and the development of cut-points for each scale that can be used to classify a youth as being at-risk on risk factor scales or having protection on protective factor scales.

Before the percentage of youth at risk on a given scale could be calculated, a scale value or cut-point needed to be determined that would separate the atrisk group from the not-at-risk group. Because the risk and protective factor survey had been given to over 200,000 youth nationwide, it was possible to select two groups of youth, one group that was more at risk for problem behaviors and another group that was less at risk. A cut-point score was then determined for each risk and protective factor scale that best divided the youth from the two groups into their appropriate group, more at-risk or less at-risk. The criteria for selecting the more at-risk and the less at-risk groups included academic grades (the more at-risk group received "D" and "F" grades, the less at-risk group received "A" and "B" grades), ATOD use (the more at-risk group had more regular use, the less at-risk group had no drug use and use of alcohol or tobacco on only a few occasions), and antisocial behavior (the more at-risk group had two or more serious delinquent acts in the past year, the less at-risk group had no serious delinquent acts). In an effort to keep the cut-points current, in 2018 researchers at Bach Harrison, L.L.C. recalculated the risk and protective factor cutpoints using data from 11 statewide surveys across the nation. The surveys were conducted in 2016-17, contained completed questionnaires from approximately 970,070 students in grades 6, 8, 10, and 12, and included data from the 2017 PAYS. These cut-points were used to calculate the percentages of youth at-risk and youth with-protection presented in this report.

The 2019 PAYS consisted of three forms — a Form A with 109 questions, a Form B with 105 questions, a Form C with 105 questions, and a Spanish form with 114 questions. Each form consisted of various combinations of question groupings, with all three forms containing question group X first, with Form A including question groupings A, D, B, E, and C; with Form B including question groupings B, E, C, F, and A; and with Form C including question groupings C, F, A, D, and B. The Spanish form contained all groupings — X, as well as A through F. Because many of the questions have multiple components, a total of 230 questions were asked of students across all four forms. The questions were printed in three test booklets that were machine scoreable.

Please note that PAYS is only one source of data for prevention and that some of the risk and protective factors can be measured with data from other sources. Being able to gather risk and protective factor data from other sources is important as it allows the PAYS form to be as brief as possible and also allows room on the survey form for additional questions to be asked related to other prevention strategies/projects.

Administration

Prior to recruitment, the 2019 PAYS State Sample was drawn at the school and grade levels (see State Sample subsection for more information). All districts, charter schools, and private schools with students in grades 6, 8, 10, and 12 in Pennsylvania were notified by mail in April 2019 that the survey was scheduled to be administered in the fall of 2019 and they were given information about the survey and the advantages of having their students participate. Districts were given the opportunity to indicate whether they preferred to administer the survey in paper/pencil format or via an online survey platform, and were also asked to name one district/ school-level survey coordinator with which Bach Harrison could work to coordinate the survey. Through this mailing, sampled districts/schools were also notified about their inclusion in the State's sample.

09 Classroom teachers B administered the survey. Teachers were given a script to read and were asked to provide information on participation.

Bach Harrison, survey contractor, followed up on this mailing with emails and phone calls to increase participation particularly with sampled districts/schools.

During September through November, Bach Harrison, L.L.C. ensured that the required surveys, survey materials, and administration instructions were mailed to established survey contacts in school districts or schools. In the case of districts choosing an online administration, district-level contacts were emailed unique school-level URLs to be used for the survey administration as well as survey proctor instructions.

The period of early October to early December was established for survey administration. In most schools, the teachers in the classroom administered the survey via paper/pencil surveying, though over one-third of schools administered the survey online. Teachers/Survey Proctors were given a script to read and also asked to provide information on how many students took the survey, how many were absent from school, and how many refused to take the survey.

Every effort was made to ensure the confidentiality of students' responses. For online surveying, proctors were instructed to ensure that students kept their eyes on their computer and hit an end-of-survey "Submit" button prior to the next student taking the survey. In regard to paper/pencil surveying, when students completed their questionnaires, they placed them in an envelope that was passed around the classroom. The envelope was then sealed and a student and the teacher took the envelope to the school office where it was placed with other class envelopes and mailed to the office of Bach Harrison, L.L.C. The staff at Bach Harrison, L.L.C. logged the completed paper surveys, scanned the questionnaires, prepared the final database of completed paper and online surveys for analysis, and created summary profile reports at the county and AUN (district, charter, or private school) levels.

PAYS Census-Effort Project Completion Rate

The survey goals for the 2019 PAYS were twofold — 1) to gather a valid statewide sample (the results of which are presented in this report), and 2) to offer the survey to districts and PAYS respondents were white, 9.4% were schools across the State (a census of students in grades African American, and 13.2% 6, 8, 10, and 12) in order to administer enough surveys to provide local-level results. Efforts to gather a valid State sample were successful (see subsequent information regarding that sample), and while not all students participated in the PAYS census portion of the survey, the success of that effort exceeded expectations.

A total of 294,340 public and private school students throughout the State participated in the Fall 2019 Pennsylvania Youth Survey. After invalid/ dishonest/odd-grade surveys were removed, a total of 280,944 surveys were represented in final local-level reports.

Enrollment figures from the 2018-2019 PDE Public School Enrollment Reports web site show that for the 2018-2019 school year (the most current enrollment available through project planning reporting) the total enrollment in grades 6, 8, 10, and 12 was 516,562. The enrollment in those grades for the school districts, charter schools, and private schools that signed on to administer the 2019 PAYS was 377,469. Thus, the final participation rate for the full state eligible population was 54.4%, and the participation rate of eligible participating schools was 74.4%. A Statewide Sample was drawn to provide the data for this State Report and to use as a State-level comparison in local-level reports. There were 30,672 students surveyed within that Statewide Sample. Full discussion of that Statewide Sample is provided in this Survey Methods Section.

It should be noted that not all of the surveys gathered through the administration process contained valid information. Although 294,340 completed surveys were returned to Bach Harrison for processing, some were eliminated from the final analysis because students were deemed not truthful in their responses; belonged to a grade outside of grades 6, 8, 10, or 12; or did not complete most of the questions (see Validity of the Data section for the validity criteria). After invalid questionnaires were eliminated, there were a total of 280,944 valid surveys completed by students in grades 6, 8, 10, and 12. 70.0% of

Total PAYS Project Survey Participants

The characteristics of the youth who took the survey (all accounted for other students, not just those in the State Sample) are presented in Table 1-2. The results in this State Report are completed for grades 6, 8, 10, and 12. There was nearly an equal number of males and females who took the survey in all grades (49.8% female, 50.2% male). In terms of ethnicity, 85.4% of participants were non-Hispanic and 14.6% indicated they were of Hispanic, Latino, or Spanish ethnicity. In terms of race, the majority of respondents were White (70.0%), Black/African American (9.4%), or left their race unmarked (7.4%). The other race groups accounted for 13.2% of the respondents.

The Statewide Sample: Sample Design

groups.

The results contained in this State Report are provided from the State's sample; State-level data provided in county-level reports and local-level reports also stem from the State's sample. The following subsections will describe the PAYS Statewide sample design, strategy, and success.

The target population of the 2015, 2017, and 2019 PAYS statewide samples (the results of which are presented in this report) was 6th, 8th, 10th and 12th grade students enrolled in public schools across Pennsylvania. A single-stage design was used, with stratification by grade level, and with the sampling unit defined as grade levels within schools. Schools selected for the statewide sample were instructed to survey all students in the selected grade level. The selection methodology for the 2019 statewide sample continued and improved upon the 2013, 2015, and 2017 statewide samples to ensure continuity. Bach Harrison worked with the 2019 sample to update it based on current school availability and grade ranges.

The schools involved in the 2015, 2017, and 2019 samples were originally selected in the 2011 PAYS administration. In 2011, specialized sampling software, PCSample, was used to select a representative sample of public schools. The software is schools selected designed for stratified systematic sampling with random for the sample frame, starts. To ensure a good distribution of schools by 197 participated in the geographic location and enrollment size, schools 2019 Statewide Sample. were sorted by county and in descending order of grade enrollment before sampling. Within each stratum, schools were selected with probability proportional to size, with size being the grade enrollment of the school. While most selected schools were only asked to survey one grade level, a small set of schools had two grade levels selected for participation in the statewide sample. The sample is designed to yield a self-weighting sample within strata so that every eligible student has an equal chance of selection. A self-weighting sample is desirable because it tends to improve the precision of the estimates. Using this design, 253 school-grade combinations were selected from the sample frame for the 2011 survey. Bach Harrison reviewed the sample frame and adjusted it to account for schools that had either closed or changed the range of grades that were housed at the school. The result for 2019 was that there were 248 schools included in the 2019 sample frame. Of these combinations, 197 participated in the 2019 Statewide Sample.

Determining the Number of School-Grade Combinations to be Included in the Statewide Sample

h Sample size depends on the distribution of the variables to be measured, the desired precision of the estimates, and the statistical confidence desired. The level of precision is conveyed by providing the survey estimate plus or minus its margin of error. The sample size also needs to be adjusted by a design effect to account for the stratified sample design of the Pennsylvania Youth Survey. The design effect is the ratio of the variance of the estimate obtained from a complex sample design to the variance of the estimate obtained from a simple random sample of the same size. For a population size N, the sample size needed to achieve a +/- d% margin of error for an estimated proportion p, given a design effect (deff) for p, is given by:

$$=\frac{1}{\left(\frac{d}{1.96}\right)^2 \left(\frac{N-1}{p(1-p)N(deff)}\right) + \frac{1}{N}}.$$

Sample sizes were computed to yield a margin of error of less than 3.9%, within each grade level, for prevalence estimates of 50.0%. Assuming a design effect of 5.0, a sample size of approximately 3,200 completed questionnaires per stratum (grade level) is needed to produce this level of statistical precision.

Given an average school-grade enrollment of about 160 students, and projected participation rates of 45.0% for schools and 70.0% for students, approximately 248 schools would need to be selected (some including multiple grades) to reach the final desired sample size.

Preparing to Draw the Sample Frame

n

Prior to drawing the 2011 sample frame that lies at the heart of the 2015/2017/2019 administrations, a list of all Pennsylvania public schools with grade level enrollment data were provided by the Pennsylvania Department of Education. These enrollment data were the starting point

for the development of the sampling frame. The frame cleaning process involved the following tasks:

All schools with no enrollment in grades 6, 8, 10, or 12 were removed.
 Special schools that were unable to participate in the survey administration process—such as cyber schools, distance learning schools, juvenile detention centers, adult education centers, special education, and alternative schools—were removed.

■ School-grade combinations with enrollments of fewer than 50 students were removed. This was done to avoid recruitment and administration costs associated with surveying a large number of small schools. In addition, past recruitment efforts have shown that small schools are less likely to join the survey effort due to the special requirements of their academic programs.

The Statewide Sample Participation

Previously in this Survey Methods section, total PAYS Project participation was discussed. In this subsection, Statewide Sample participation will be reviewed.

- School Participation: 248 schools (some with multiple grades) were included in the sample. Out of these, 197, or 79.4%, participated in the survey (an improvement on previous administrations).
- Student Participation: There were a total of 449,129 students in the state's eligible population (less students in Allegheny and Philadelphia counties). Out of the state sample, 30,672, or 68.3%, returned usable survey responses for the appropriate grade levels.
- Overall Participation: 79.4% * 68.3% = 54.2%.

Weighting the Statewide Sample

The same weighting strategies that were used in previous PAYS administrations were applied to 2019 data to maintain consistency. A weight has been associated with each response record to reflect the likelihood of sampling each student and to reduce bias by compensating for differing patterns of nonresponse. The weight used for estimation is given by:

W = W1 * f1 * f2 * f3

- W1 = The inverse of the probability of selecting the school/grade combination.
 - f1 = A school-level nonresponse adjustment factor calculated by school size category (small, medium, large). The factor was calculated in terms of school enrollment instead of number of schools.
 - $\mathbf{f2} = \mathbf{A}$ student-level nonresponse adjustment factor calculated by school.
 - **f3** = A post-stratification adjustment factor calculated by grade. With this factor applied, the distribution of the sample across grade levels matches the grade distribution in the statewide enrollment figures.

Statewide Sample Confidence Intervals

When reviewing survey results people often ask, "What is the margin of error?" This is referred to as the "confidence interval," and it reflects the precision of a statistical estimate. For example, a confidence interval of ± 3.0 points for a drug use prevalence rate of 50.0% means that there is a 95% chance that the true score is between 47.0% and 53.0%.

Table 1-1 to the right presents confidence intervals for both grade-level and overall estimates for this State data. Note that these confidence intervals are for prevalence rates of 50%. For less prevalent behaviors, such as heroin use and bringing a weapon to school, the confidence interval narrows

The same weighting strategies that were used in previous PAYS administrations were applied to 2019 data to maintain consistency. substantially. These calculations include a finite population correction and a design effect of 2.0.

Validity of PAYS Data: Census Survey

The information presented in this report is based entirely on the truthfulness, recall, and comprehension of the youth who participated in the survey. Many studies have shown that most adolescents are truthful in their responses to the questions on similar surveys. For example, ATOD trends for repeated national and state surveys are very similar. Also, the changes reported by youth parallel the changes during the same period in adolescent admissions to treatment for substance abuse. Finally, the relationships between different kinds of behaviors and the problems adolescents report is very consistent over a wide range of studies. This study was carefully designed to ensure honest responses from participants.

The confidentiality of the survey was stressed through the instructions and administration procedures. Participants were assured that the survey was voluntary, anonymous, and confidential. They were told that no one would see their answers and that there was no way that a survey could be traced back to an individual student. Because the survey was anonymous, most of the reasons to exaggerate or deny behaviors were eliminated. However, several checks were built into the analysis to minimize the impact of students who were not truthful in their responses. Students whose surveys were deemed not truthful were eliminated.

Of all PAYS respondents (includes ALL respondents, whether a part of the Statewide sample or not), there were a total of 294,340 survey questionnaires completed and returned to Bach Harrison for scanning analysis. However, not all of the questionnaires contained valid information for reporting in this State Report. Of these surveys, 6,397 (2.2%) were eliminated due to students either meeting a validity check or marking a grade that was impossible for the school attended. Surveys deemed to be dishonest were eliminated because of five predetermined dishonesty indicators -1) the students indicated that they had used the non-existent drug metaclorazoles (3,706 surveys); 2) the students reported an impossibly high level of

Table 1-1 State Sample Confidence Intervals

	of Eligible	rollment e Schools		ample %	Confidence Interval
	#	%	#	7.2	
All grades	449,129	100.0	30,672	100.0	+/- 0.8
6	111,573	24.8	7,757	25.3	+/- 1.6
8	111,192	24.8	8,780	28.6	+/- 1.5
10	114,705	25.5	7,506	24.5	+/- 1.6
12	111,659	24.9	6,629	21.6	+/- 1.7

multiple drug use (2,617 surveys); 3) the students indicated past-month use rates that were higher than lifetime use rates (1,675 surveys); 4) the students reported an age that was inconsistent with their grade or their school (1,927 surveys); or 5) the student marked inconsistent responses regarding lifetime gang involvement and age of first gang involvement (491). These surveys were not included in the final analyses.

Because the results reported in this State report and in the profile reports focus on data from the 6th, 8th, 10th, and 12th grades, 6,085 additional students in the 7th, 9th, and 11th grades were also eliminated from these State level results. These 7th, 9th, and 11th graders took the survey because they were attending a class that was largely made up of students in the even grades or the school chose to survey students in the odd grades for a more complete description of their students. Further, 898 surveys were eliminated due to students not reporting a grade level, and 16 surveys were eliminated due to students marking multiple grades.

A total of 13,396 questionnaires were eliminated from most analyses. This is less than the sum of those eliminated according to the criteria cited above because many of those eliminated met more than one criteria for elimination.

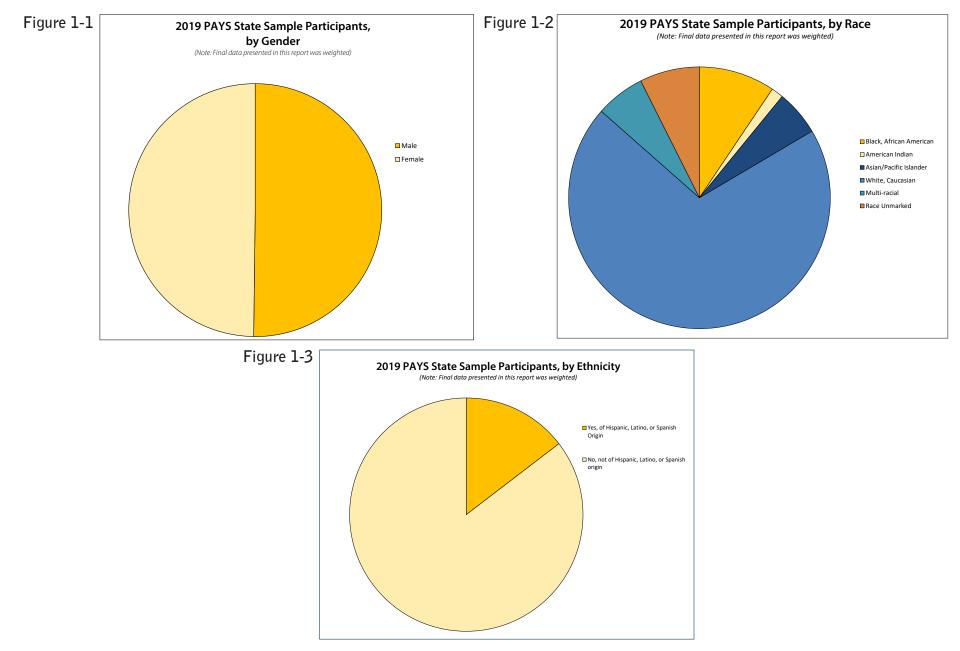
Other measures to reduce response bias included carefully pretesting the questionnaire to ensure that students understood the meaning of each question, using a well developed and tested administration protocol, and reading the same instructions to all students who participated in the survey.

Validity of PAYS Data: Statewide Sample Only

In regard to only the students who belong to the statewide sample, there were a total of 31,096 survey questionnaires completed within schoolgrade combinations in the sample. However, not all of the questionnaires contained valid information for reporting in this State Report. Of these surveys, 424 (1.3%) were eliminated because respondents were determined to be dishonest. Surveys deemed to be dishonest were eliminated because of four predetermined dishonesty indicators -1) the students indicated that they had used the non-existent drug (286 surveys); 2) the students reported an impossibly high level of multiple drug use (198 surveys); 3) the students indicated past-month use rates that were higher than lifetime use rates (139 surveys); 4) the students reported an age that was inconsistent with their grade or their school (88 surveys); or 5) the students reported inconsistent lifetime gang involvement and age of first gang involvement data (52). These surveys were not included in the final analyses. A total of 424 questionnaires were eliminated from state-sample analysis due to dishonesty. This is less than the sum of those eliminated according to the criteria cited above because many of those eliminated met more than one criteria for elimination.

Table 1-2 **Demographics**

	State	2015	State	2017	State	2019
	Number	Percent	Number	Percent	Number	Percent
Total Survey Respondents	216,916	100.0	253,566	100.0	280,944	100.0
Survey Respondents by Grade						
6	53,532	24.7	62,971	24.8	71,073	25.3
8	61,222	28.2	70,214	27.7	78,994	28.1
10	56,128	25.9	65,164	25.7	72,014	25.6
12	46,034	21.2	55,217	21.8	58,863	21
Survey Respondents by Gender						
Male	106,472	50.3	124,823	50.3	138,807	50.2
Female	105,341	49.7	123,271	49.7	137,444	49.8
Survey Respondents by Ethnicity						
Yes, of Hispanic, Latino, or Spanish Origin	25,504	11.8	33,940	13.4	40,941	14.6
No, not of Hispanic, Latino, or Spanish origin	191,412	88.2	219,626	86.6	240,003	85.4
Survey Respondents by Race						
Black, African American	18,070	8.3	22,272	8.8	26,308	9.4
American Indian	3,326	1.5	4,095	1.6	4,321	1.5
Asian/Pacific Islander	9,915	4.6	13,134	5.2	15,858	5.6
White, Caucasian	158,967	72.8	179,972	71.0	196,546	70.0
Multi-racial	11,087	5.1	14,065	5.5	17,063	6.1
Race Unmarked	16,551	7.6	20,028	7.9	20,848	7.4



PAYS 2019

Section 2: Risk and Protective Factors for Substance Use and Other **Problem Behaviors**

Just

The History and Importance of Risk and Protective Factors

PAYS is based upon the Risk and Protective Factor Model of Substance Abuse Prevention. In medical research, risk factors have been found for heart disease and other heath problems. Through media campaigns to inform the general public about the risk factors for heart disease, most people are now aware that behaviors such as eating high fat diets, smoking, high cholesterol, being overweight, and lack of exercise, place them at risk for heart disease. Just as medical research discovered the risk factors for heart disease, social scientists have defined a set of risk factors that place young people at risk for the problem behaviors of substance abuse, delinquency, violence, teen research discovered pregnancy, and school dropout. They have also identified the risk factors for heart a set of protective factors that help to buffer the harmful disease, social scientists have defined risk factors that effects of risk.

problem behaviors. Dr. J. David Hawkins, Dr.. Richard F. Catalano, and their colleagues at the University of Washington have reviewed more than 30 years of existing work on risk factors from various fields and have completed extensive work of their own to identify risk factors for youth problem behaviors. They identified risk factors in important areas of daily life: 1) the **community**, 2) the **family**, 3) the school, and 4) within individuals themselves and their peer interactions. Many of the problem behaviors faced by youth – delinquency, substance

abuse, violence, school dropout, and teen pregnancy - share many common risk factors. Programs designed to reduce those common risk factors will have the benefit of reducing several problem behaviors.

Using the Risk and Protective Factor Model, Drs. Hawkins and Catalano and their colleagues developed an approach that communities can use to reduce youth problem behavior. An overview of the risk factors and protective factors that have been shown to be related to youth problem behavior and their link to PAYS will be provided. as medical

The risk and protective factors have been organized into the four important areas of a young person's life - community, family, school, and peer/individual. The remainder of place youth at risk for this section of the report is organized according to the four domains. For each domain, the definition of each risk factor is presented and then risk and protective results for Pennsylvania are provided by grade. Charts providing a comparison of levels of risk and protection for the past three administrations of PAYS are presented by grade in this section on pages 2-17 through 2-21. On the following page is more information about how to read and interpret the data in this section. This information provides instruction on how risk and protective factor scores were developed, and how to analyze the results.

How to Read the Risk and Protective Factor Data in This Section

It is important that the reader gain an understanding of the cut-points that are used to create the risk and protective factor scale scores presented in this section, and to understand how to interpret and analyze these results.

What are Cut-Points?

A cut-point helps to define the level of responses that are at or above a standard/normal level of risk, or conversely at or below a standard/normal level of protection. Rather than randomly determining whether a youth may be at risk or protected, a statistical analysis is completed that helps to determine at what point on any particular scale that the risk or protective factor is outside the normal range. In this way, when you are provided a percentage for a particular scale, you will know that this percentage represents the population of your youth who are either at greater risk or lower protection than the national cut-point level. Cut points also provide a standard for comparisons of risk and protection over time.

The PAYS questionnaire was designed to assess adolescent substance use, antisocial behavior, and the risk and protective factors that predict these adolescent problem behaviors. However, before the percentage of youth at risk or with protection on a given scale could be calculated, a scale value or cut-point needed to be determined that would separate the at-risk group from the group that was not at-risk. Because surveys measuring the risk and protective factors had been given to thousands of youth across the United States through federally funded research projects, it was possible to select two groups of youth, one that was more at-risk for problem behaviors and another group that was less at-risk. A cut-point score was then determined for each risk and protective factor scale that best divided the youth into their appropriate group, more at-risk or less at-risk. The criteria for selecting the more at-risk and the less at-risk groups included academic grades (the more at-risk group received "D" and "F" grades, the less at-risk group received "A" and "B" grades); alcohol, tobacco, and other drug use (the more at-risk group had more regular use, the less at-risk group had no drug use and use of alcohol or tobacco on only a few occasions); and antisocial behavior (the more at-risk group had two or more serious delinquent acts in the past year, the less at-risk group had no serious delinquent acts).

As was stated earlier in this report, in an effort to keep the cut-points current, researchers at Bach Harrison, L.L.C. recalculated the risk and protective factor cutpoints using data from 11 statewide surveys across the nation. The surveys were conducted in 2010-11, contained completed questionnaires from approximately 657,000 students in grades 6, 8, 10, and 12, and included data from the 2011 PAYS. These cut-points were used to calculate the percentages of youth at risk and youth with protection presented in this report.

How to use Cut-Points

The scale cut-points that were recently updated by Bach Harrison researchers to classify youth into more at-risk and less at-risk groups were used to produce the profiles in this report and will remain constant for future PAYS. Because the cut-points for each scale will remain fixed, the percentage of youth above the cut-point on each of the risk and protective factor scales provides a method for evaluating the progress of prevention programs over time. For example, if the percentage of youth at risk for family conflict in a community prior to implementing a community-wide family/parenting program was 60% and then decreased to 50% one year after the program was implemented, the program could be viewed as helping to reduce family conflict.

How to Read the Risk and Protective Factor Data in This Section, Cont.

What is the Bach Harrison Norm and how do I use it?

The Bach Harrison Norm was developed by Bach Harrison, L.L.C. to provide states and communities with the ability to compare their results on risk, protection, and antisocial measures with more national results. Survey participants from 12 statewide surveys were combined into a database of approximately 970,070 students in grades 6, 8, 10, and 12. The results were weighted by state and grade to make each state's contribution more in line with the state's student population. Bach Harrison analysts then calculated rates for antisocial behavior and for students at risk and with protection. The results appear on the charts as BH Norm. In order to keep the Bach Harrison Norm relevant, it is updated approximately every two years as new data become available.

Information about other students in the state and the nation can be helpful in determining the seriousness of a given level of problem behavior in your community. Scanning across the charts, it is important to observe the factors that differ the most from the Bach Harrison Norm. This is the first step in identifying the levels of risk and protection that are higher or lower than the national sample.

The risk factors that are higher than the Bach Harrison Norm and the protective factors that are lower than the Bach Harrison Norm are probably the factors that your community should consider including in prevention planning programs. The Bach Harrison Norm is especially helpful when reviewing scales with a small percentage of youth at-risk such as the Rebelliousness scale. For example, even though a small percentage of youth are at-risk within this scale, if you notice that the percentage at risk on your Rebelliousness scale is higher than the Bach Harrison Norm, then that is probably an issue that should be considered for an intervention in your community. As you look through your data, we would encourage you to circle or mark risk scales that are higher than the BH Norm and protective factor scales that are lower than the BH Norm and add these items to your list of possible areas to tackle with prevention efforts.

When looking at the community domain, it is important to consider other factors beyond how members of a community interact with the youth of the community. Youth benefit from living in an area where neighbors and community members show concern for them, offer them support, and give encouragement and praise. However, youth also benefit from living in a community that functions in a socially healthy manner. What is the community like? Are drugs and guns readily available? Is there an active presence of law enforcement officers in the community? Is the community lacking in economic resources? Do community members, businesses, or police turn a blind eye toward drug use and antisocial behaviors, or condone such behaviors? Is there a sense of community disorganization or do members of the community work together toward common goals?

All of these community issues, and more, play significant roles in shaping the behaviors of the youth who live within a particular community. By understanding how youth perceive their neighborhood, Pennsylvania communities can get a better sense of how they need to change in order to reduce the risk that youth will participate in problem behaviors.

Definitions of all community domain risk factors, as well as scale scores for the community domain are provided on the next pages. The table below shows the links between the community risk factors and the six problem behaviors. The check marks have been placed in the chart to indicate where at least two well-designed, published research studies have shown a link between the risk factor and the problem behavior.

Table 2-1

	PROBLEM BEHAVIORS										
YOUTH AT RISK	Substance Abuse	Delinquency	Teen Pregnancy	School Dropout	Violence	Depression & Anxiety					
Community Risk Factors											
Availability of Drugs	~				~						
Availability of Firearms		~			~						
Community Laws and Norms Favorable Toward Drug Use, Firearms, and Crime	~	~			~						
Low Neighborhood Attachment and Community Disorganization		~			~						

Perceived Availability of Drugs (Linked to Substance Abuse and Violence)

The more available drugs are in a community, the higher the risk that young people will abuse drugs in that community. Perceived availability of drugs is also associated with risk. For example, in schools where youth just *think* drugs are more available, a higher rate of drug use occurs.

Perceived Availability of Firearms (Linked to Delinquency and Violence)

Firearm availability and firearm homicide have increased together since the late 1950s. If a gun is present in the home, it is much more likely to be used against a relative or friend than an intruder or stranger. Also, when a firearm is used in a crime or assault instead of another weapon or no weapon, the outcome is much more likely to be fatal. Although a few studies report no association between firearm availability and violence, more studies show a positive relationship. Given the lethality of firearms, the increase in the likelihood of conflict escalating into homicide when guns are present, and the strong association between availability of guns and homicide rates, firearm availability is included as a risk factor.

Laws and Norms Favorable Toward Drug Use, Firearms, and Crime

(Linked to Substance Abuse, Delinquency, and Violence)

Community norms, the attitudes and policies a community holds about drug use and crime, are communicated in a variety of ways: through laws and written policies, through informal social practices, and through the expectations parents and other community members have of young people. Research has shown that legal restrictions on alcohol and tobacco use, such as raising the legal drinking age, restricting smoking in public places, and increased taxation have been followed by decreases in consumption. Moreover, national surveys of high school seniors have shown that shifts in normative attitudes toward drug use have preceded changes in prevalence of use.

Low Neighborhood Attachment and Community Disorganization (Linked to Substance Abuse, Delinquency, and Violence)

Higher rates of drug problems, juvenile delinquency, and violence occur in communities or neighborhoods where people have little attachment to the community, where the rates of vandalism are high, and where there is low surveillance of public places. These conditions are not limited to low-income neighborhoods; they can also be found in wealthier neighborhoods. The less homogeneous a community (in terms of race, class, religion, and even the mix of industrial to residential neighborhoods), the less connected its residents may feel to the overall community, and the more difficult it is to establish clear community goals and identity. The challenge of creating neighborhood attachment and organization is greater in these neighborhoods.

Perhaps the most significant issue affecting community attachment is whether residents feel they can make a difference in their own lives. If the key players in the neighborhood – such as merchants, teachers, police, and human services personnel – live outside the neighborhood, residents' sense of commitment will be less. Lower rates of voter participation and parental involvement in schools also indicate lower attachment to the community.

Risk Factor Scale Results

Table 2-2 contains the percentage of students at risk on each of the four 2019 PAYS risk factor scales in the community domain. The highest risk scale score for the 6th grade was Laws and Norms Favorable to Drug Use (45.8% at risk in the 6th grade) while the highest risk scale score for the 8th, 10th, and 12th grades was Low Neighborhood Attachment (35.2% at risk in the 8th grade, 42.5% at risk in the 10th grade, and 51.9% at risk for the 12th grade). In comparison to the BH Norm, Pennsylvania youth in all grades were less at risk than the national norm for all scales except Low Neighborhood Attachment and Laws and Norms Favorable Toward Drug Use. For the Low Neighborhood Attachment scale, a higher percentage of Pennsylvania youth were at risk for Low Neighborhood Attachment in the 6th and 12th grades. Laws and Norms Favorable Toward Drugs Use was highter for Pennsylvania youth in the 6th grade. All other scale scores within the community domain are significantly lower in Pennsylvania in comparison to the BH Norm.

Protective Factor Scale Results

The 2019 PAYS collected data for one community domain protective factor scale — Community Rewards for Prosocial Involvement. Protective factor scale scores ranged from as low as 38.5% for the 10th grade up to 43.2% for the 8th grade.

Comparisons to 2017 PAYS Data

Risk and protective factor data from three administrations are reported here for Pennsylvania. For the Low Neighborhood Attachment scale, the 6th grade scale score increased by 3.5 percentage points from 2017 to 2019. For the Perceived Availability of Drugs scale, both 10th and 12th grade saw significant decreases (a decrease of 3.1 percentage points in the 10th grade and a decrease of 4.0 percentage points in the 12th grade) since 2017. For the Perceived Availability of Handguns scale, all grades saw significant decreases in risk. The Laws and Norms Favorable to Drug Use scale increased 2.2 percentage points for the 6th grade and 1.5 percentage points for the 10th grade. See charts on pages 2-17 through 2-21 for further multi-year risk and protective factor data. Protection decreased from 2017 to 2019 for all grades for the Rewards for Prosocial Involvement scale (a decrease of 6.1 percentage points for the 6th grade, a decrease of 2.7 percentage points for the 8th grade, a decrease of 2.1 percentage points for the 10th grade and a decrease of 2.1 percentage

To see risk and protective factor data at the county level, please visit the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool.

Table 2-2

Community Domain R	isk and Protective	Factor Scales

	6th			8th				10th				12th				All				
	State	State	State	BH																
	2015	2017	2019	Norm																
Community Risk Factor Scales																				
Low Neighborhood Attachment	39.2	41.0	44.5	42.1	35.2	35.1	35.2	35.7	42.0	42.8	42.5	42.8	49.7	50.5	51.9	49.4	41.7	42.5	43.5	42.5
Perceived Availability of Drugs	32.9	32.8	33.5	35.8	26.0	25.9	25.5	34.9	30.1	28.5	25.4	34.5	34.4	30.8	26.8	32.7	30.8	29.4	276	34.4
Perceived Availability of Handguns	15.9	15.7	13.9	22.4	24.9	23.4	21.8	33.2	31.1	31.0	28.0	38.3	39.9	37.9	34.6	45.5	28.6	27.7	24.9	35.6
Laws & Norms Favorable Toward Drug Use	39.8	43.6	45.8	43.6	30.7	31.8	32.4	33.5	39.2	38.8	40.3	42.1	39.1	38.9	37.7	44.2	37.2	38.1	38.8	40.6
Community Protective Factor Scales																				
Rewards for Prosocial Involvement	49.4	45.8	39.7	41.4	49.9	45.9	43.2	45.1	43.5	40.6	38.5	39.7	43.3	40.1	39.6	38.9	46.4	42.9	40.3	41.3

For the family domain, one must consider more than parents' personal interaction with their children. Youth benefit from being bonded with their family, and from belonging to a family in which their parents offer support, encouragement, and praise. Other important factors that can contribute to youth problem behaviors are whether or not the youth's parents or siblings have used substances, approve of the use of substances, or have participated in antisocial behaviors. If a youth's living situation is full of conflict (fights and arguments) and disorganization (lack of family communication or parents' not knowing the whereabouts or doings of their children), the youth is also at risk for problem behaviors.

Definitions of all family domain risk factors, as well as scores for the family domain are provided on the following pages. The table below shows the links between the family risk factors and the six problem behaviors. The check marks have been placed in the chart to indicate where at least two well designed, published research studies have shown a link between the risk factor and the problem behavior.

Table 2-3

	PROBLEM BEHAVIORS										
YOUTH AT RISK	Substance Abuse	Delinquency	Teen Pregnancy	School Dropout	Violence	Depression & Anxiety					
Family											
Family History of the Problem Behavior	~	~	~	~	~	~					
Family Management Problems	~	~	~	~	~	~					
Family Conflict	~	~	~	~	~	~					
Favorable Parental Attitudes and Involvement In the Problem Behavior	~	~			~						

Family History of the Problem Behavior (Linked to Substance Abuse, Delinquency, Teen Pregnancy, School Dropout, Violence, and Depression/Anxiety)

If children are raised in a family with a history of addiction to alcohol or other drugs, the risk of their having alcohol and other drug problems themselves increases. If children are born or raised in a family with a history of criminal activity, their risk of juvenile delinquency increases. Similarly, children who are raised by a teenage mother are more likely to become teen parents, and children of dropouts are more likely to drop out of school themselves.

Poor Family Management

(Linked to Substance Abuse, Delinquency, Teen Pregnancy, School Dropout, Violence, and Depression/Anxiety)

Poor family management practices include lack of clear expectations for behavior, failure of parents to monitor their children (knowing where they are and who they are with), and excessively severe or inconsistent punishment.

Family Conflict

(Linked to Substance Abuse, Delinquency, Teen Pregnancy, School Dropout, Violence, and Depression/Anxiety)

Persistent, serious conflict between primary care givers or between care givers and children appears to enhance risk for children raised in these families. Conflict between family members appears to be more important than family structure. Whether the family is headed by two biological parents, a single parent, or some other primary care giver, children raised in families high in conflict appear to be at risk for all of the problem behaviors.

Favorable Parental Attitudes and Involvement in the Behavior (Linked to Substance Abuse, Delinquency, and Violence)

Parents influence the attitudes and behavior of their children, including their perceptions on drug and alcohol use. For example, parental approval of moderate drinking, even under parental supervision, substantially increases the likelihood of the young person using alcohol. Further, in families where parents involve children in their own drug or alcohol behavior, there is an increased likelihood that their children will use drugs in adolescence. Similarly, children of parents who excuse their children for breaking the law are more likely to develop problems with juvenile delinquency. In families where parents display violent behavior toward those outside or inside the family, there is an increase in the risk that a child will become violent. Further, in families where parents involve children in their own drug or alcohol behavior, for example, asking the child to light the parent's cigarette or to get the parent a beer, there is an increased likelihood that their children will become drug abusers in adolescence.

Risk Factor Scale Results

Table 2-4 contains the percentage of students at risk on each of the five risk factor scales in the family domain. In all grades, the highest scaled score was Parental Attitudes Favorable to Antisocial Behavior (53.3% at risk in the 6th grade, 41.7% at risk in the 8th grade, 50.4% at risk in the 10th grade, and 47.7% at risk in the 12th grade). In comparison to the BH Norm, Pennsylvania students in all grades indicated lower risk within the following scales: Family History of Antisocial Behavior (6.5 to 10.4 percentage points lower risk in each grade) and Poor Family Management (1.0 to 7.4 percentage points lower risk in each grade). In contrast, Pennsylvania students in all grades indicated higher risk than the BH Norm for Parental Attitudes Favorable to Drug Use and Parental Attitudes Favorable to Antisocial Behavior.

Protective Factor Scale Results

The 2019 PAYS collected data for the following family domain protective factor scales: Family Attachment, Family Opportunities for Prosocial Involvement, and Family Rewards for Prosocial Involvement. For the 6th, 10th, and 12th

grades, protection was highest for the Family Attachment (62.1% with protection in the 6th grade, 64.6% with protection in the 10th grade, 60.6% with protection in the 12th grade), while the 8th grade showed the highest protection for the Family Rewards for Prosocial Involvement scale (68.0% with protection). In comparison to the BH Norm, protection scale scores were higher for the 8th, 10th, and 12th grades for all three scales.

Comparisons to 2017 PAYS Data

Risk and protective factor data from three administrations are reported here for Pennsylvania. Since the 2017 survey, the scale scores for Poor Family Management decreased 1.7 to 2.9 percentage points in grades 8, 10, and 12. Scale scores for Parental Attitudes Favorable toward Drug Use increased slightly for grades 6 and 10. See charts on pages 2-17 through 2-21 for further multi-year risk and protective factor data.

To see risk and protective factor data at the county level, please visit the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool.

Table 2-4

Family Domain Risk and Protective Factor Scales

		6t	:h			8	th			10	th			12	?th			A	.11	
	State	State	State	BH																
	2015	2017	2019	Norm																
Family Risk Factor Scales																				
Family History of Antisocial Behavior	37.8	37.3	37.5	44.0	33.3	34.0	30.7	40.4	30.3	30.3	28.8	39.1	30.9	30.3	27.0	37.4	32.9	32.8	30.9	39.9
Poor Family Management	39.7	39.0	43.8	44.8	36.7	35.7	34.0	41.4	39.2	37.6	35.1	41.6	33.7	32.2	29.3	35.0	37.3	36.0	35.4	40.2
Parental Attitudes Favorable Toward Drug Use	14.5	15.6	17.4	11.4	25.7	27.3	26.6	22.7	40.9	42.1	43.5	35.6	42.8	42.9	42.2	36.8	31.6	32.8	32.8	28.0
Parental Attitudes Favorable Toward Antisocial Behavior	48.3	50.1	53.3	36.9	40.1	40.9	41.7	30.0	47.3	47.2	50.4	33.6	47.0	47.1	47.7	34.1	45.7	46.2	48.2	33.3
Family Conflict	34.9	34.0	35.1	36.9	31.8	30.9	30.1	32.7	36.3	35.8	34.2	37.5	38.1	38.0	36.6	37.5	35.3	34.8	34.0	36.1
Family Protective Factor Scales																				
Family Attachment	66.1	65.6	62.1	63.5	62.9	61.8	61.8	59.9	63.8	63.7	64.6	61.6	60.3	61.0	60.6	59.1	63.2	62.9	62.3	60.7
Opportunities for Prosocial Involvement	58.6	58.3	54.8	57.2	67.0	68.4	68.0	65.9	63.0	61.4	64.3	60.6	58.9	59.5	60.1	58.3	61.9	61.9	61.9	60.7
Rewards for Prosocial Involvement	61.7	60.7	57.4	56.9	69.1	69.0	67.4	65.7	60.8	60.4	60.9	57.9	56.2	56.0	55.5	54.6	61.9	61.5	60.3	58.9

School Risk and Protective Factors

In the school domain, the early years are important as far as creating or decreasing the level of risk for children. Academic failure in elementary school puts children at risk for substance use, delinquency, teen pregnancy, school drop out, and violence later in life. Further, a child with early and persistent antisocial behavior is at risk for substance use and other problems later in life.

These two factors (academic failure and early engagement in antisocial behavior) indicate that prevention programs should begin early in a student's schooling. Programs that can effectively target the needs of the school population will help to decrease the level of risk, thereby decreasing problem behaviors later in school. The Pennsylvania data will be important for schools, in that it will help them target the problem behaviors and student populations which are at the greatest need for services.

As with the community and family domains, bonding at the school level also decreases risk and increases protection. When youth have healthy relationships with their teachers, when they feel as if they are able to play an active role in their classes and in their school, and when they receive encouragement and support, they are more bonded to their school and their commitment to school is less likely to falter.

Definitions of all school domain risk factors, as well as scores for the school domain are provided on the next pages. The table below shows the links between the school risk factors and the six problem behaviors. The check marks have been placed in the chart to indicate where at least two well designed, published research studies have shown a link between the risk factor and the problem behavior.

Table 2-5

		PR0	BLEM B	BEHAV	IORS	
YOUTH AT RISK	Substance Abuse	Delinquency	Teen Pregnancy	School Dropout	Violence	Depression & Anxiety
School						
Academic Failure Beginning in Late Elementary School	~	~	~	~	~	~
Lack of Commitment to School	~	~	~	~	~	

Academic Failure in Elementary School (Linked to Substance Abuse, Delinquency, Teen Pregnancy, School Dropout, Violence, and Depression/Anxiety)

Beginning in the late elementary grades, academic failure increases the risk of drug abuse, delinquency, violence, teen pregnancy, and school dropout. Youth fail for many reasons. It appears that *the experience of failure*, not necessarily the student's ability, increases the risk of problem behaviors.

Lack of Commitment to School (Linked to Substance Abuse, Delinquency, Teen Pregnancy, School Dropout, and Violence)

Lack of commitment to school means the young person has ceased to see the role of student as a viable one. Young people who have lost this commitment to school are at higher risk for all five problem behaviors.

Risk Factor Scale Results

There are two risk factor scales for the school domain – Academic Failure and Low Commitment to School (see Table 2-6). Scale scores for Academic Failure ranged from 34.4% at risk in the 6th grade to 38.5% at risk in the 10th grade, while scale scores for Low Commitment to School ranged from 45.4% at risk in the 6th grade to 55.3% at risk in the 10th grade. In comparison to the BH Norm, fewer Pennsylvania youth in grades 6 and 10 are at risk for the Low Commitment Toward School scale.

Protective Factor Scale Results

There are also two protective factor scales for the school domain – School Opportunities for Prosocial Involvement and School Rewards for Prosocial Involvement (see Table 2-6). School Opportunities for Prosocial Involvement ranged from 39.3% with protection in the 10th grade to 54.2% with protection

in the 6th grade, and School Rewards for Prosocial Involvement ranged from 41.5% with protection in the 10th grade to 57.1% with protection in the 6th grade.

Comparisons to 2017 PAYS Data

Risk and protective factor data from three administrations are reported here for Pennsylvania. Since the 2017 survey, the scale scores for Low Commitment to School increased 4.8 to 8.2 percentage points in grades 6, 8, 10 and 12; while scale scores for Academic Failure increased 0.7 to 3.7 percentage points in the 6th, 8th, and 10th grades. Protection within the school domain continued to decrease for all grades and for both scales. See charts on pages 2-17 through 2-21 for further multi-year risk and protective factor data.

To see risk and protective factor data at the county level, please visit the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool.

Table 2-6

School Domain Risk and Protective Factor Scales

		61	:h			81	:h			10	th			12	th			A	.11	
	State	State	State	BH																
	2015	2017	2019	Norm																
School Risk Factor Scales																				
Academic Failure	29.9	30.7	34.4	32.6	35.3	36.3	38.3	32.5	34.7	37.4	38.5	35.1	34.6	35.9	36.6	33.4	33.8	35.3	37.0	33.5
Low Commitment Toward School	33.3	37.2	45.4	47.0	41.7	46.8	52.7	50.1	45.5	49.8	55.3	53.8	44.6	43.8	48.6	49.5	41.5	44.7	50.6	50.3
School Protective Factor Scales																				
Opportunities for Prosocial Involvement	61.6	60.8	54.2	58.8	52.3	51.9	47.0	54.4	47.0	43.7	39.3	51.3	46.5	45.5	43.3	52.1	51.4	49.9	45.7	53.6
Rewards for Prosocial Involvement	64.1	62.9	57.1	54.6	56.9	55.5	51.7	51.6	47.9	43.8	41.5	46.2	48.5	47.6	43.2	49.4	53.9	51.9	48.1	50.2

The final domain of a student's life — peer/individual — consists of much more than mere peer pressure. Although youth are at risk for problem behaviors when they have friends who are engaging in unfavorable behaviors; or their friends have favorable attitudes toward the behaviors (i.e., it is seen as "cool"); the peer/individual domain also consists of several factors which spring from the individual. For example, youth who are depressed, rebellious, or who feel alienation are more likely to use drugs and show antisocial behavior. Other constitutional factors also play a part in whether or not a student is at risk for ATOD use or antisocial behaviors.

Definitions of all peer/individual domain risk and protective factors, as well as a description of individual characteristics, bonding, and healthy beliefs and clear standards, are presented in this section. Also in this discussion of peer/ individual risk factors, scores for the scales in this domain are provided in the form of tables and charts. The table below shows the links between the peer/ individual risk factors and the six problem behaviors. The check marks have been placed in the chart to indicate where at least two well designed, published research studies have shown a link between the risk factor and the problem behavior.

Table 2	-7
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		PR0	BLEM I	BEHAVI	ORS	
YOUTH AT RISK	Substance Abuse	Delinquency	Teen Pregnancy	School Dropout	Violence	Depression & Anxiety
Individual/Peer Risk Factors						
Rebelliousness	~	~	~	~	~	
Friends Who Engage in a Problem Behavior	~	~	~	~	~	
Favorable Attitudes Toward the Problem Be- havior	~	~	~	~	~	
Constitutional Factors	~	~			~	~

Alienation, Rebelliousness, and Lack of Bonding to Society (Rebelliousness Scale: Linked to Substance Abuse, Delinquency, and School Dropout)

Young people who feel they are not part of society, are not bound by rules, don't believe in trying to be successful or responsible, or who take an active rebellious stance toward society are at higher risk of drug abuse, delinquency, and school dropout.

Friends Who Engage in the Problem Behavior (Interaction with Antisocial Peers Scale, Rewards for Antisocial Behavior Scale, Friends Use of Drugs Scale — Linked to Substance Abuse, Delinquency, Teen Pregnancy, School Dropout, and Violence)

Youth who associate with peers who engage in problem behaviors are much more likely to engage in the same problem behaviors. This is one of the most consistent predictors of youth problem behaviors that the research has identified. Even when young people come from well-managed families and do not experience other risk factors, just hanging out with those who engage in problem behaviors greatly increases their risks. However, young people who experience a low number of risk factors are less likely to associate with those who are involved in problem behaviors.

Favorable Attitudes Toward the Problem Behavior (Attitudes Favorable to Drug Use Scale, Attitudes Favorable to Antisocial Behavior Scale, Perceived Risk of Drug Use Scale — Linked to Substance Abuse, Delinquency, Teen Pregnancy, and School Dropout)

During the elementary school years, children usually express anti-drug, anticrime, pro-social attitudes. They have difficulty imagining why people use drugs, commit crimes, and drop out of school. In middle school, as others they know participate in such activities, their attitudes often shift toward greater acceptance of these behaviors. This places them at higher risk.

Depressive Symptoms (Linked to Substance Abuse and Delinquency)

Young people who are depressed are overrepresented in the criminal justice system and are more likely to use drugs. Survey research and other studies have shown a link between depression and other youth problem behaviors. Because they are depressed, these individuals have difficulty in identifying and engaging in pro-social activities. They consequently do not gain recognition for demonstrating positive behaviors or develop attachments to their schools or communities. On this Pennsylvania survey, youth who scored highest on the items measuring depressive symptoms also scored significantly higher on all of the drug use questions.

Constitutional Factors (Sensation Seeking Scale — Linked to Substance Abuse, Delinquency, Violence, and Depression/Anxiety)

Constitutional factors are factors that may have a biological or physiological basis. These factors are often seen in young people with behaviors such as sensation-seeking, low harm-avoidance, and lack of impulse control. These factors appear to increase the risk of young people abusing drugs, engaging in delinquent behavior, and/or committing violent acts.

Some young people who are exposed to multiple risk factors do not become substance abusers, juvenile delinquents, teen parents, or school dropouts. Balancing the risk factors are protective factors, those aspects of people's lives that counter risk factors or provide buffers against them. They protect by either reducing the impact of the risks or by changing the way a person responds to the risks. A key strategy to counter risk factors is to enhance protective factors that promote positive behavior, health, well-being, and personal success. Research indicates that protective factors fall into three basic categories: Individual Characteristics, Bonding, and Healthy Beliefs and Clear Standards.

Protective Factors

Protective factors exert a positive influence and buffer against the negative influence of risk, thus reducing the likelihood that adolescents will engage in problem behaviors.

Individual Characteristics

Research has identified four individual characteristics as protective factors. These attributes are considered to be inherent in the youngster and are difficult, if not impossible, to change. They consist of:

Gender. Given equal exposure to risks, girls are less likely to develop health and behavior problems in adolescence than are boys.

A Resilient Temperament. Young people who have the ability to quickly adjust to or recover from misfortune or changes are at reduced risk.

A Positive Social Orientation. Young people who are good natured, enjoy social interactions, and elicit positive attention from others are at reduced risk.

Intelligence. Bright children are less likely to become delinquent or drop out of school. However, *intelligence does not protect against substance abuse*.

Bonding

Research indicates that one of the most effective ways to reduce children's risk is to strengthen their bond with positive, pro-social family members, teachers, or other significant adults, and/or pro-social friends. Children who are *attached* to positive families, friends, schools, and their community, and

who are *committed* to achieving the goals valued by these groups, are less likely to develop problems in adolescence. Children who are bonded to others who hold healthy beliefs are less likely to do things that threaten that bond, such as use drugs, commit crimes, or drop out of school. For example, if children are attached to their parents and want to please them, they will be less likely to risk breaking this connection by doing things of which their parents strongly disapprove. Studies of successful children who live in high risk neighborhoods or situations indicate that strong bonds with a care giver can keep children from getting into trouble. Positive bonding makes up for many disadvantages caused by risk factors or environmental characteristics.

Healthy Beliefs and Clear Standards

Bonding is only part of the protective equation. Research indicates that another group of protective factors falls into the category of healthy beliefs and clear standards. The people with whom children are bonded need to have *clear, positive standards for behavior*. The content of these standards is what protects young people. For example, being opposed to youth alcohol and drug use is a standard that has been shown to protect young people from the damaging effects of substance abuse risk factors. Children whose parents have high expectations for their school success and achievement are less likely to drop out of school. Clear standards against criminal activity and early, unprotected sexual activity have a similar protective effect.

The negative effects of risk factors can be reduced when schools, families, and/or peer groups teach young people healthy beliefs and set clear standards for their behavior. Examples of healthy beliefs include believing it is best for children to be drug and crime free and to do well in school. Examples of clear standards include establishing clear no drug and alcohol family rules, establishing the expectation that a youngster does well in school, and having consistent family rules against problem behaviors.

Risk Factor Scale Results

The 2019 PAYS gathers data for ten risk factor scales in the Peer/Individual Domain. Risk factor results are presented in Table 2-8.

The highest risk score for youth in all grades was Perceived Risk of Drug Use (48.8% at risk in the 6th grade, 43.2% at risk in the 8th grade, 46.7% at risk in the 10th grade, and 58.2% at risk in the 12th grade). In comparison to the BH Norm, for a majority of scales and grades, Pennsylvania youth indicated lower risk levels in comparison to the BH Norm. However, Pennsylvania high school youth in grades 6, 8, 10, and 12 indicated higher risk for the following two scales: Gang Involvement (2.6 percentage points higher than the BH Norm for the 6th grade, 4.3 percentage points higher than the BH Norm for the 8th grade, 5.1 percentage points higher than the BH Norm for the 10th grade, and 7.1 percentage points higher for the 12th grade) and the Attitudes Favorable Toward Drug Use risk scale (5.1 percentage points higher than the BH Norm for the 6th grade, 3.3 percentage points higher than the BH Norm for the 8th grade, 5.3 percentage points higher than the BH Norm for the 10th grade, and 4.1 percentage points higher for the 12th grade). In contrast, the following are Peer/Individual domain scales in which a lower percentage of Pennsylvania youth in all grades (in comparison to the BH Norm) were at risk: Rebelliousness, Perceived Risk of Drug Use, Rewards Favorable to Antisocial Behavior, Friends' Use of Drugs, and Interaction with Antisocial Peers.

Protective Factor Scale Results

There are two protective factor scales for the peer/individual domain. Protective factor results for this domain are presented in Table 2-8. For the Belief in the Moral Order scale, protection ranged from 45.8% with protection in the 6th grade up to 62.2% with protection in the 10th grade. Protective factor scale scores for Religiosity ranged from 31.3% with protection in the 12th grade up to 40.5% with protection for this scale in the 6th and 8th grades. In comparison to the BH Norm, a greater percentage of Pennsylvania youth in grades 8, 10, and 12 indicated protection within the Belief in the Moral Order scale (1.6 to 4.0 percentage points higher in each grade), while a lower percentage of PA youth in all grades indicated protection.

Comparisons to 2017 PAYS Data

Risk and protective factor data from three administrations are reported here for Pennsylvania. Since the 2017 survey, the scale scores for Attitudes Favorable Toward Antisocial Behavior increased 1.4 to 4.4 percentage points in each grade. See charts on pages 2-17 through 2-21 for further multi-year risk and protective factor data.

To see risk and protective factor data at the county level, please visit the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool.

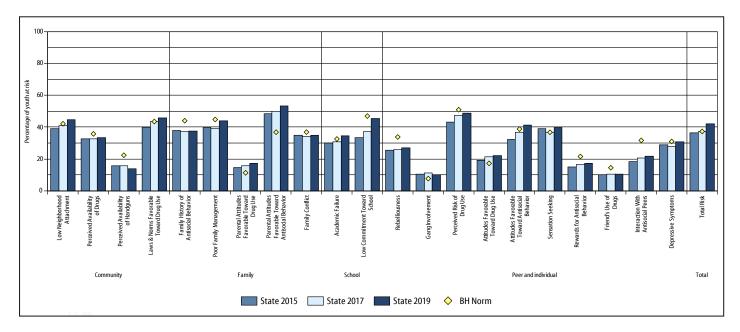
Table 2-8

Peer Domain Risk and Protective Factor Scales

		61	th			81	th			10	th			12	th			All G	rades	
	State 2015	State 2017	State 2019	BH Norm																
Peer And Individual Risk Factor Scales																				
Rebelliousness	25.7	25.8	27.2	33.8	21.7	20.8	18.3	26.0	25.7	26.1	24.4	30.4	31.1	28.4	25.2	31.7	26.1	25.3	23.7	30.1
Gang Involvement	10.4	11.3	10.3	7.7	10.3	11.3	10.7	6.4	11.5	11.2	11.3	6.2	15.6	14.6	13.9	6.8	12.0	12.1	11.6	6.6
Perceived Risk of Drug Use	43.0	47.2	48.8	50.9	39.3	43.8	43.2	47.7	43.9	46.3	46.7	48.8	55.7	58.6	58.2	58.6	45.6	49.1	49.2	51.4
Attitudes Favorable Toward Drug Use	19.1	21.5	22.4	17.3	38.0	40.2	40.7	37.4	43.1	44.2	45.0	39.7	47.4	46.6	45.5	41.4	37.4	38.7	38.7	35.7
Attitudes Favorable Toward Antisocial Behavior	32.4	36.8	41.2	38.8	28.3	29.2	32.0	29.4	35.6	37.7	39.8	35.1	39.4	38.3	39.7	35.3	34.0	35.6	38.1	34.2
Sensation Seeking	39.1	36.7	39.6	36.8	33.0	31.5	30.7	34.8	34.3	33.7	33.6	34.9	32.2	30.3	29.4	31.5	34.5	32.9	33.2	34.4
Rewards for Antisocial Behavior	15.2	16.4	17.2	21.6	31.2	33.0	32.6	41.4	35.2	36.9	34.5	39.5	41.7	40.1	37.2	44.1	31.4	32.3	30.7	38.2
Friend's Use of Drugs	10.2	10.5	10.5	14.6	28.4	30.2	28.3	35.3	31.0	31.7	29.8	35.1	32.8	32.8	28.8	34.4	26.1	27.0	24.7	31.7
Interaction With Antisocial Peers	18.3	20.7	21.9	31.7	25.4	27.0	24.9	38.0	26.3	26.4	26.3	36.6	29.2	28.6	25.9	36.1	25.0	25.9	24.8	36.0
Depressive Symptoms	28.9	27.9	30.8	31.1	35.9	36.8	34.2	37.4	39.9	41.5	43.3	43.2	41.5	43.2	45.0	41.8	36.7	37.7	38.5	38.7
Peer And Individual Protective Factor S	cales	с.							-											
Religiosity	47.9	44.4	40.5	50.5	46.2	43.7	40.5	45.9	40.0	38.8	36.0	40.2	35.4	34.5	31.3	34.0	42.2	40.1	37.0	42.1
Belief In The Moral Order	53.3	52.1	45.8	50.5	61.7	58.5	62.0	58.0	63.2	61.9	62.2	60.6	60.1	59.7	61.7	58.8	59.8	58.3	58.2	57.9

Risk and Protective Factor Scales: 6th Grade

Chart 2-1 Risk factor scales, 6th grade, Statewide Sample 2019 PAYS



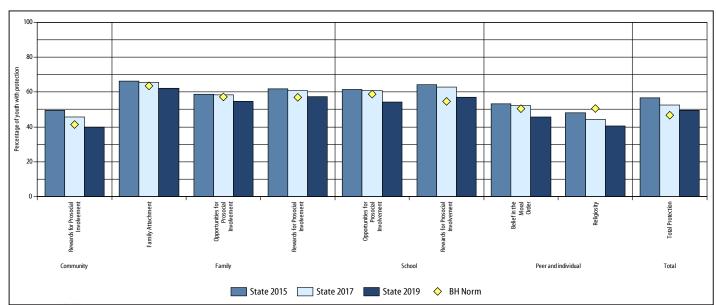


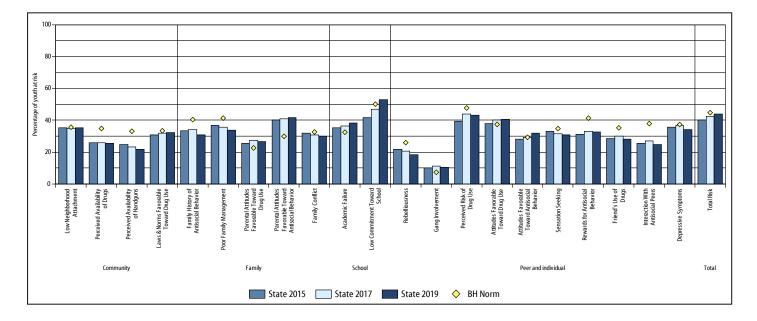
Chart 2-2 Protective factor scales, 6th grade, Statewide Sample 2019 PAYS

"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

NOTE:

Risk and Protective Factor Scales: 8th Grade

Chart 2-3 Risk factor scales, 8th grade, Statewide Sample 2019 PAYS



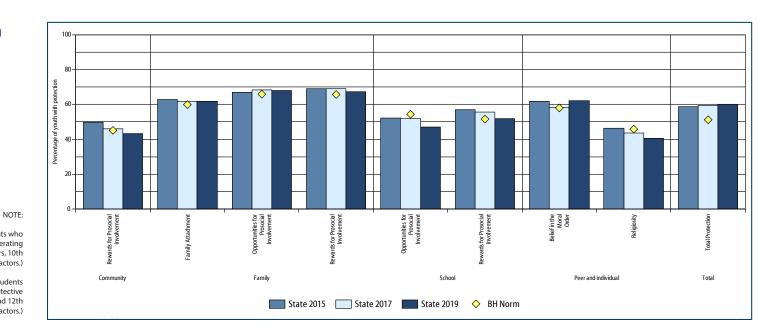
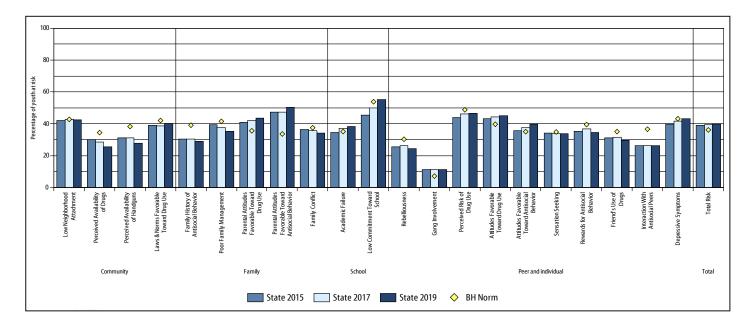


Chart 2-4 Protective factor scales, 8th grade, Statewide Sample 2019 PAYS

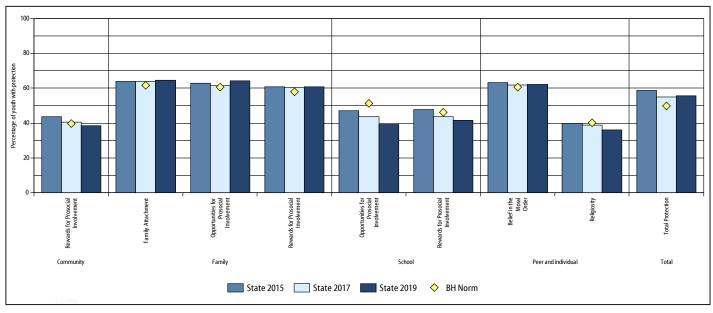
"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

Risk and Protective Factor Scales: 10th Grade

Chart 2-5 Risk factor scales, 10th grade, Statewide Sample 2019 PAYS





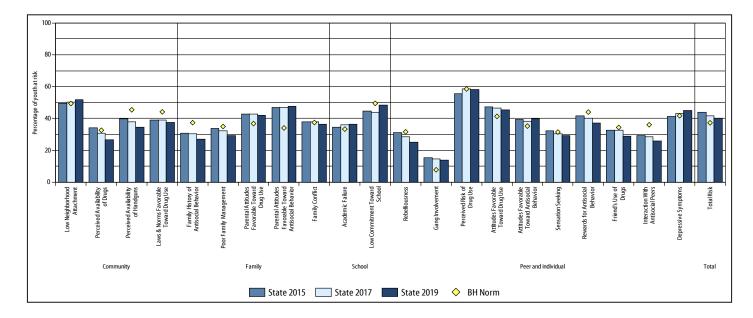


"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

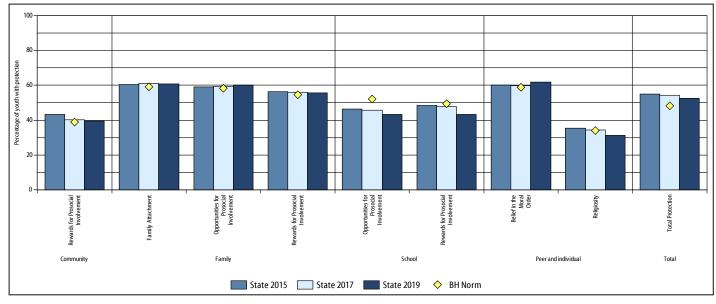
NOTE:

Risk and Protective Factor Scales: 12th Grade

Chart 2-7 Risk factor scales, 12th grade, Statewide Sample 2019 PAYS







"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

NOTE:

Risk and Protective Factor Scales: All Grades Combined

Chart 2-9

Risk factor scales, All Grades Combined, Statewide Sample 2019 PAYS

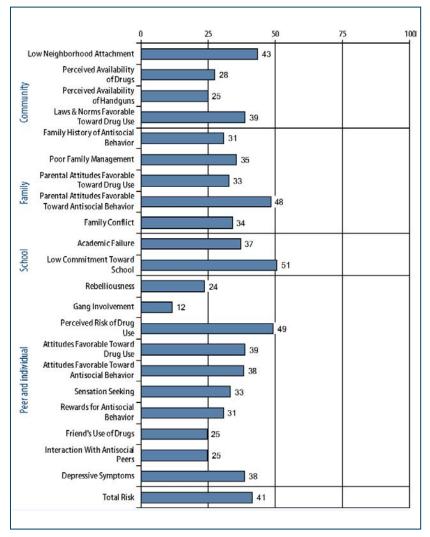
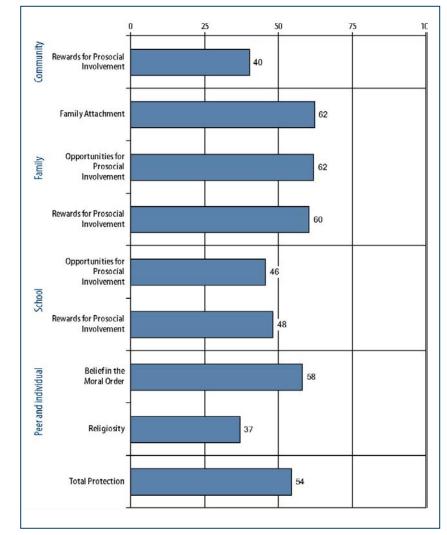


Chart 2-10

Protective factor scales, All Grades Combined, Statewide Sample 2019 PAYS



Section 3: Substance Use Outcomes and Topics

Section 3: Substance Use Outcomes, describes ATOD use and other substance-use related measures (such as perceived risks and sources of obtaining ATODs) among Pennsylvania's youth. This section presents results on the current use (use in the 30 days prior to the survey) and use during the youth's lifetime of 16 different substances. These results are compared to the results of a national survey, Monitoring the Future (MTF), when comparable data are available. Use is presented by grade and gender. Results are presented

first for the high incidence/early initiation drugs – alcohol, tobacco, marijuana, and inhalants – and are then presented for prescription drugs, and other illicit drugs. Additional analyses in this section include substance use by gender, perceived harmfulness, and sources of obtaining alcohol.

When accompanied by a copy of the 2019 PAYS State Report Executive Summary, each subsection found in Section 3, can be considered a self-standing piece that can be distributed to researchers, prevention specialists, and other interested parties. In the 2019 PAYS, Pennsylvania youth were asked to report if they had used alcohol in their lifetime or in the past 30-days. They were also asked to report if they had consumed five or more drinks in a row in the past two weeks. Results of students reporting that they drank alcohol at least once in the previously mentioned time frames (lifetime, past month, and binge drinking in the past two weeks) are reported in this section.

Lifetime Alcohol Use

The 2019 PAYS results presented in Table 3.1-1 show that 41.0% of students in grades 6, 8, 10, and 12 have used alcohol at least once in their lifetime. By grade, 16.7% of 6th graders, 32.3% of 8th graders, 52.0% of 10th graders, and 63.0% of 12th graders have used alcohol in their lifetime.

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.1-1), Pennsylvania youth in the all grades indicated higher lifetime alcohol use rates than youth in same grades in the national sample. Pennsylvania rates were 7.8 percentage points higher than national rates in the 8th grade (32.3% in Pennsylvania, compared to 24.5% in the national sample), 8.9 percentage points higher than national rates in the 10th grade (52.0% in Pennsylvania, compared to 43.1% in the national sample), and 4.5 percentage points higher than national rates in the 12th grade (63.0% in Pennsylvania, compared to 58.5% in the national sample).

Since the 2017 survey, lifetime alcohol use for all grades decreased, with the greatest decrease of 6.2 percentage points for the 12th grade. For all students combined, lifetime alcohol use decreased from 43.3% in 2017 to 41.0% in 2019.

Past Month Alcohol Use

The 2019 PAYS results presented in Table 3.1-1 and Figure 3.1-1 show that 16.8% of students in grades 6, 8, 10, and 12 have used alcohol at least once in the past 30 days. In looking at past month use rates by grade level, 3.2% of 6th

graders, 8.4% of 8th graders, 21.6% of 10th graders, and 33.9% of 12th graders in Pennsylvania have used alcohol in the past 30 days.

In comparison to data gathered through the national MTF Survey (see Figure 3.1-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated past month alcohol use rates that were higher than those of youth in same grades in the national sample (0.5 percentage points higher in the 8th grade, 3.2 percentage points higher in the 10th grade, and 4.6 percentage points higher in the 12th grade).

Since the 2017 survey, past month alcohol use decreased significantly in the 12th grade (from 35.9% in 2017 to 33.9% in 2019).

Binge Drinking

The 2019 PAYS results presented in Table 3.1-1 and Figure 3.1-1 show the percent of students in each grade reporting that they binge drank (consumed five or more drinks in a row) at least once in the past two weeks. The 2019 PAYS found that 7.4% of students in the 6th, 8th, 10th, and 12th grades reported binge drinking at least once in the past two weeks. By grade level, 1.2% of 6th graders, 2.9% of 8th graders, 8.4% of 10th graders, and 17.2% of 12th graders reported binge drinking.

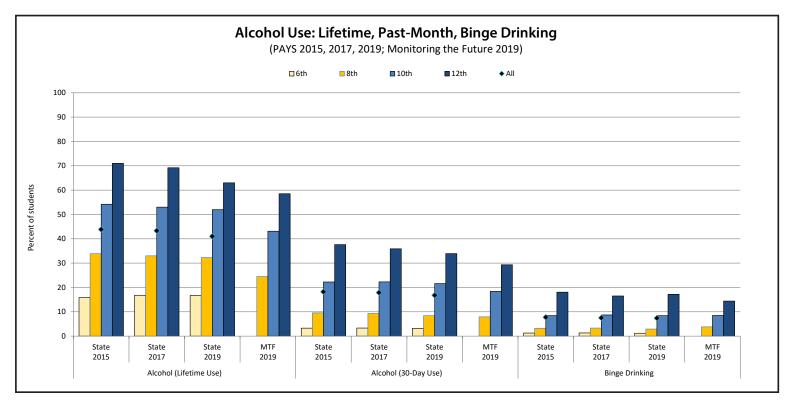
Binge drinking rates have been gradually decreasing since 2011. For all grades combined, binge drinking has decreased just less than one-half percentage points since 2015 (7.8% in 2015, 7.5% in 2017, 7.4% in 2019).

For data regarding lifetime alcohol use, 30-day alcohol use, and binge drinking by county and grade, please visit the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool.

			-		<u> </u>							
		Alcohol (Lif	fetime Use)			Alcohol (3	0-Day Use)			Binge D	rinking	
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019
6th	15.8	16.8	16.7	n/a	3.3	3.3	3.2	n/a	1.3	1.3	1.2	n/a
8th	33.9	33.0	32.3	24.5	9.5	9.3	8.4	7.9	3.2	3.3	2.9	3.8
10th	54.2	53.0	52.0	43.1	22.3	22.3	21.6	18.4	8.4	8.7	8.4	8.5
12th	71.0	69.2	63.0	58.5	37.6	35.9	33.9	29.3	18.0	16.5	17.2	14.4
All	43.9	43.3	41.0	n/a	18.2	17.9	16.8	n/a	7.8	7.5	7.4	n/a

Table 3.1-1 Alcohol Use: Lifetime, Past-Month, Binge Drinking

Figure 3.1-1



In the 2019 PAYS, Pennsylvania youth were asked to report if they had ever used cigarettes or smokeless tobacco and how frequently/heavily (if ever) they used both tobacco products as well as vaping/e-cigarette products. Results of students reporting that they smoked cigarettes or used smokeless tobacco at least once in their lifetime; or that they had used cigarettes, smokeless tobacco, or an e-cigarette at least once in the past month, are reported in this section.

Lifetime Tobacco Use

The 2019 PAYS results presented in Table 3.2-1 show that 10.8% of students in grades 6, 8, 10, and 12 have used cigarettes at least once in their lifetime, and 5.5% of students in the four grades have used smokeless tobacco in their lifetime.

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.2-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated lower lifetime cigarette use rates than youth in same grades in the national sample. For lifetime smokeless tobacco use, Pennsylvania rates were 4.5 percentage points lower in the 8th grade, but 2.0 percentage points higher in the 12th grade in comparison to national rates.

Since the 2017 survey, lifetime cigarette use decreased significantly in the 8th, 10th, and 12th grades, with a decrease of 2.5 percentage points in the 8th grade, 4.0 percentage points in the 10th grade, 7.1 percentage points in the 12th grade, and 3.7 percentage points overall. Since the 2017 survey, smokeless tobacco lifetime use rates decreased 2.1 percentage point for all grades combined.

Past Month Tobacco Use

The 2019 PAYS results presented in Table 3.2-1 and Figure 3.2-1 show that 3.5% of students in grades 6, 8, 10, and 12 have used cigarettes at least once in the past 30 days, and 2.1% of students in the same grades have used smokeless tobacco. In looking at past month cigarette use rates by grade level, 0.5% of 6th graders, 1.9% of 8th graders, 4.0% of 10th graders, and 7.5% of 12th graders

in Pennsylvania have used cigarettes in the past 30 days; while 0.3% of 6th graders, 0.9% of 8th graders, 2.1% of 10th graders, and 5.0% of 12th graders have used smokeless tobacco in the past month. The 2019 PAYS was the third administration to collect data on past-month e-cigarette/vape device use. The 2019 survey showed that 19.0% of students had used an e-cigarette or vape device in the past month. By grade, 3.8% of 6th graders indicated past-month use, 12.5% of 8th graders indicated past-month use, 26.5% of 10th graders indicated past-month use.

In comparison to data gathered through the national MTF Survey (see Figure 3.2-1), Pennsylvania 10th and 12th graders indicated higher past-month cigarette use (4.0% for Pennsylvania 10th graders compared to 3.4% for MTF, and 7.5% for Pennsylvania 12th graders compared to 5.7% for MTF), and Pennsylvania 12th graders indicated higher past-month smokeless tobacco use (5.0% for Pennsylvania 12th graders compared to 3.5% for MTF). As for e-cigarettes/ vape devices, the past-month use rate was 0.3 percentage points higher in Pennsylvania for the 8th grade, 1.5 percentage points higher in Pennsylvania for the 12th grades for the MTF.

Since the 2017 survey, past month cigarette use decreased 2.0 percentage points in the 10th grade and 5.7 percentage points in the 12th grade. Past-month smokeless tobacco use decreased 2.5 percentage points for the 12th grade since the 2017 survey.

E-Cigarette Modifications

The 2019 PAYS results presented in Table 3.2-3 and Figure 3.2-2 show the percent of past-year e-cigarette users who are using vape devices for different substances. Of past-year vape users, most (56.6%) are using nicotine in their devices, while 46.4% have used just flavoring, 26.6% have used marijuana or hash oil, and 2.0% had used another substance in their vape device. Of those who have vaped in the past year, 13.8% were unsure of what they had inhaled.

Table 3.2-1 Tobacco Use: Lifetime and Past-Month Cigarette and Smokeless Tobacco Use

	Cig	arettes (L	ifetime l	Jse)	Cig	arettes (30-Day U	lse)	Smokel	ess Toba	cco (Lifet	ime Use)	Smokel	ess Toba	cco (30-E	Day Use)	E-Ci	garettes	(30-Day	Use)
Grade	State 2015	State 2017	State 2019	MTF 2019																
6th	2.9	2.7	2.3	n/a	0.8	0.6	0.5	n/a	1.2	1.1	1.1	n/a	0.4	0.3	0.3	n/a	2.6	2.3	3.8	n/a
8th	11.0	9.4	6.9	10.0	3.5	2.5	1.9	2.3	4.5	4.4	2.6	7.1	1.8	1.8	0.9	2.5	11.7	10.9	12.5	12.2
10th	18.3	16.2	12.2	14.2	6.8	6.0	4.0	3.4	9.8	8.9	6.4	9.2	4.9	4.2	2.1	3.2	20.4	21.9	26.5	25.0
12th	32.7	29.0	21.9	22.3	14.6	13.2	7.5	5.7	18.1	15.9	11.8	9.8	9.2	7.5	5.0	3.5	27.0	29.3	33.1	30.9
All	16.3	14.5	10.8	n/a	6.4	5.6	3.5	n/a	8.4	7.6	5.5	n/a	4.1	3.5	2.1	n/a	15.5	16.3	19.0	n/a

Figure 3.2-1

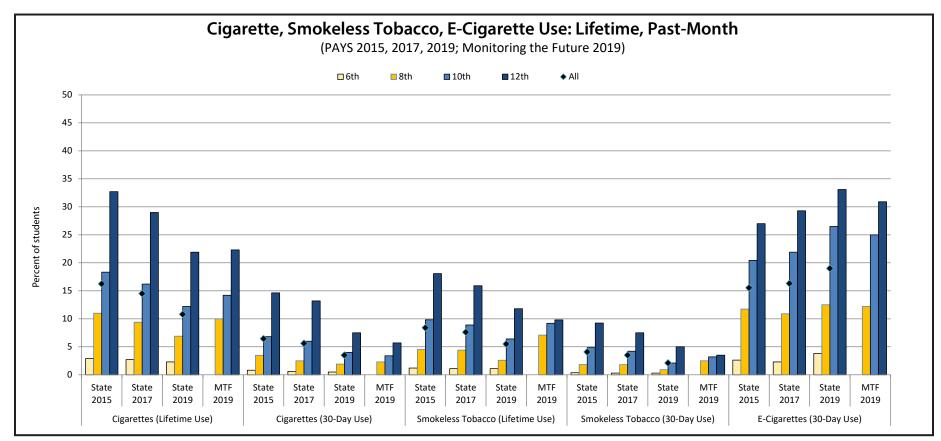
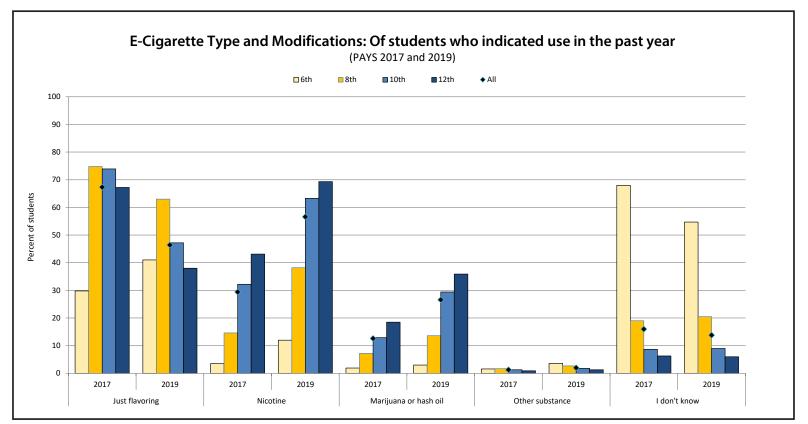


Table 3.2-2E-Cigarette Modifications (of students indicating any use in the past
30 days)

Grade	Just fla	ivoring	Nicc	tine	Marijuana	or hash oil	Other su	Ibstance	l don't	know
	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019
6th	29.8	41.0	3.5	12.0	1.9	3.0	1.6	3.6	68.0	54.7
8th	74.8	63.0	14.6	38.2	7.2	13.6	1.7	2.7	19.0	20.5
10th	73.9	47.2	32.2	63.3	12.9	29.4	1.3	1.8	8.7	9.0
12th	67.2	38.0	43.1	69.3	18.5	35.9	0.9	1.3	6.3	6.0
All	67.3	46.4	29.4	56.6	12.6	26.6	1.3	2.0	16.0	13.8

Figure 3.2-2



In the 2019 PAYS, Pennsylvania youth were asked to report if they had used marijuana in their lifetime or in the past 30-days. Results of students reporting that they used marijuana at least once in their lifetime or in the past month are reported in this section.

Lifetime Marijuana Use

The 2019 PAYS results presented in Table 3.3-1 show that 17.3% of students in grades 6, 8, 10, and 12 have used marijuana at least once in their lifetime. By grade, 1.3% of 6th graders, 7.4% of 8th graders, 22.4% of 10th graders, and 37.5% of 12th graders have used marijuana in their lifetime.

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.3-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated significantly lower lifetime marijuana use rates than youth in the same grades in the national sample. Pennsylvania rates were 7.8 percentage points lower than national rates in the 8th grade (7.4% in Pennsylvania, compared to 15.2% in the national sample), 11.6 percentage points lower than national rates in the 10th grade (22.4% in Pennsylvania, compared to 34.0% in the national sample), and 6.2 percentage points lower than national rates in the 12th grade (37.5% in Pennsylvania compared to 43.7% in the national sample).

Past Month Marijuana Use

The 2019 PAYS results presented in Table 3.3-1 and Figure 3.3-1 show that 9.6% of students in grades 6, 8, 10, and 12 have used marijuana at least once in the past 30 days. In looking at past month use rates by grade level, 0.5% of 6th graders, 4.0% of 8th graders, 12.9% of 10th graders, and 20.8% of 12th graders in Pennsylvania have used marijuana in the past 30 days.

As with lifetime marijuana use, in comparison to data gathered through the national MTF Survey (see Figure 3.3-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated lower past month marijuana use rates than youth in same grades in the national sample. Pennsylvania rates were 2.6 percentage points lower than national rates in the 8th grade (4.0% in Pennsylvania, compared to 6.6% in the national sample), 5.5 percentage points lower than national rates in the 10th grade (12.9% in Pennsylvania, compared to 18.4% in the national sample), and 1.5 percentage points lower than national rates in the 12th grade (20.8% in Pennsylvania compared to 22.3% in the national sample).

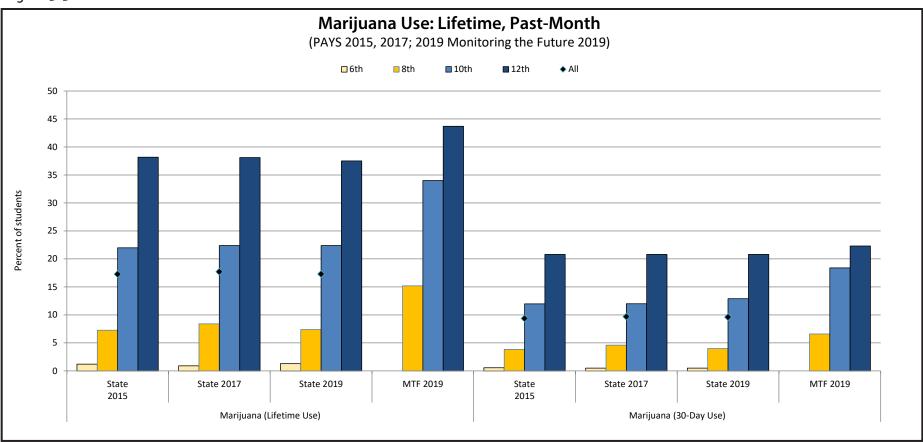
For data regarding lifetime and 30-day marijuana use by county and grade, please refer to the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool.

Table 3.3-1

Marijuana Use: Lifetime and Past-Month

	Ma	arijuana (L	ifetime U	se)	М	arijuana (i	30-Day Us	e)
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019
6th	1.2	0.9	1.3	n/a	0.6	0.5	0.5	n/a
8th	7.3	8.4	7.4	15.2	3.8	4.6	4.0	6.6
10th	22.0	22.4	22.4	34.0	12.0	12.0	12.9	18.4
12th	38.2	38.1	37.5	43.7	20.8	20.8	20.8	22.3
All	17.3	17.7	17.3	n/a	9.4	9.7	9.6	n/a

Figure 3.3-1



3.4 Lifetime and 30-Day High Incidence/Early Initiation Drug Use: Inhalants

In the 2019 PAYS, Pennsylvania youth were asked to report if they had used inhalants in their lifetime or in the past 30-days. Results of students reporting that they used inhalants at least once in their lifetime or in the past month are reported in this section.

Lifetime Inhalant Use

The 2019 PAYS results presented in Table 3.4-1 show that 4.9% of students in grades 6, 8, 10, and 12 have used inhalants at least once in their lifetime. By grade, 4.4% of 6th graders, 5.7% of 8th graders, 5.0% of 10th graders, and 4.7% of 12th graders indicated lifetime inhalant use.

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.4-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated significantly lower lifetime inhalant use rates than youth in same grades in the national sample. Pennsylvania rates were 3.8 percentage points lower than national rates in the 8th grade (5.7% in Pennsylvania, compared to 9.5% in the national sample), 1.8 percentage points lower than national rates in the 10th grade (5.0% in Pennsylvania, compared to 6.8% in the national sample), and 0.6 percentage points lower than national rates in the 12th grade (4.7% in Pennsylvania compared to 5.3% in the national sample).

Past Month Inhalant Use

The 2019 PAYS results presented in Table 3.4-1 and Figure 3.4-1 show that 1.4% of students in grades 6, 8, 10, and 12 have used inhalants at least once in the past 30 days. In looking at past month use rates by grade level, we see that, unlike most substances, inhalant use in the past month peaks in the 6th and 8th grades, rather than in the 12th grade, with 2.0% of 6th graders, 1.7% of 8th graders, 1.1% of 10th graders, and 0.8% of 12th graders in Pennsylvania having used inhalants in the past 30 days.

While lifetime inhalant use in Pennsylvania was significantly less than lifetime inhalant use in the national MTF sample, 30-day inhalant use rates are nearly identical for Pennsylvania and national youth with little to no significant differences in use to report for any grade.

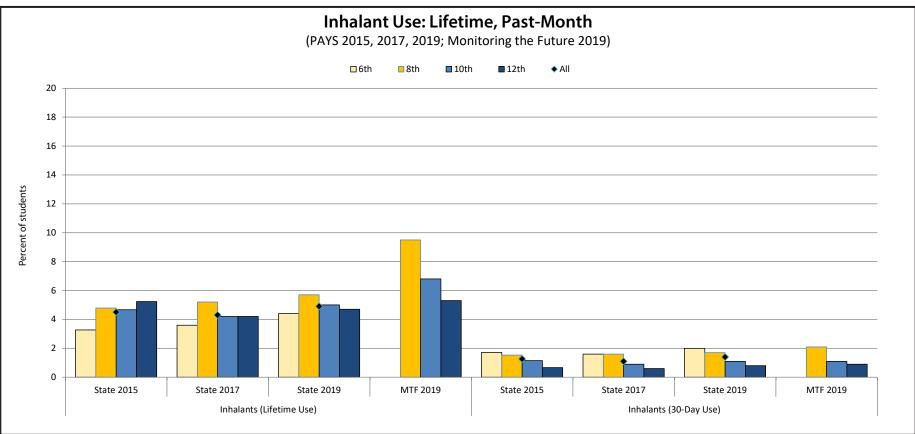
For data regarding lifetime and 30-day inhalant use by county and grade, please refer to the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool.

Table 3.4-1

Inhalant Use: Lifetime and Past-Month

	In	halants (L	ifetime Us	e)	lı	nhalants (3	80-Day Use	<u>)</u>
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019
6th	3.27	3.6	4.4	n/a	1.7	1.6	2.0	n/a
8th	4.78	5.2	5.7	9.5	1.5	1.6	1.7	2.1
10th	4.67	4.2	5.0	6.8	1.1	0.9	1.1	1.1
12th	5.24	4.2	4.7	5.3	0.7	0.6	0.8	0.9
All	4.50	4.3	4.9	n/a	1.3	1.1	1.4	n/a

Figure 3.4-1



In the 2019 PAYS, Pennsylvania youth were asked to report if they had used prescription drugs such as Performance Enhancing Drugs (PEDs)/Steroids, prescription pain relievers, prescription tranquilizers, prescription stimulants, or over-the-counter drugs without a doctor's orders in their lifetime or in the past 30-days. Results of students reporting that they used any of these prescription drugs at least once in their lifetime or in the past month (without a doctor's orders) are reported in this section.

Lifetime (non-prescribed) Prescription and Over-the-Counter Drug Use

The 2019 PAYS results presented in Table 3.5-1 show that 0.8% of students in grades 6, 8, 10, and 12 have used PEDs or steroids at least once in their lifetime, 4.1% have used prescription pain relievers in their lifetime, 1.9% have used prescription tranquilizers in their lifetime, 2.5% have used prescription stimulants, and 3.9% used over-the-counter drugs (for the purpose of getting high) in their lifetime (all use is without a doctor's orders).

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.5-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated lower lifetime prescription stimulant and prescription tranquilizer use rates than youth in same grades in the national sample. Pennsylvania youth in the 12th grade indicated slightly higher lifetime use of prescription pain relievers (0.8 percentage points higher). (Note: Comparable MTF data are not available for over-the-counter drugs.)

Since the 2017 survey, lifetime prescription drug use rates were relatively unchanged, though prescription pain relievers use among 12th graders decreased 2.7 percentage points (from 8.8% in 2017 to 6.1% in 2019) and prescription stimulant use among 12th graders decreased 2.6 percentage points (from 6.8% in 2017 to 4.2% in 2019). Other lifetime use increases or decreases since 2017 were small.

Past Month (non-prescribed) Prescription Drug Use

The 2019 PAYS results presented in Table 3.5-2 and Figure 3.5-2 show that 0.2% of students in grades 6, 8, 10, and 12 have illegally (i.e., without a doctor's permission) used PEDs/steroids at least once in the past 30 days, 1.1% have used prescription pain relievers, 0.5% used prescription tranquilizers, 0.8% used prescription stimulants, and 1.3% have used over-the-counter drugs for non-medical purposes. For all of these substances, use increases with increased grade level. For example, for past-month prescription stimulant use, 0.5% of 6th graders indicated use, 0.6% of 8th graders indicated use, and 1.1% of 10th graders indicated use.

Pennsylvania and MTF rates for PED, prescription pain relievers, and prescription tranquilizer 30-day use were either identical or very similar. However, prescription stimulant use was significantly lower in grades 8 (1.6 percentage points lower in PA), 10 (1.3 percentage points lower in PA), and 12 (1.0 percentage points lower in PA).

For data regarding lifetime and 30-day prescription drug use by county and grade, please refer to the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool.

Table 3.5-1 Prescription Drugs: Lifetime Use

		PEDs &	Steroids		Presc	ription f	Pain Reli	evers	Pres	cription	tranquil	izers	Pre	scriptior	n stimula	ints	1		ounter D e of getti	rugs ing high)
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019												
6th	0.7	0.5	0.6	n/a	1.9	1.8	2.2	n/a	0.3	0.4	0.5	n/a	0.6	0.6	0.9	n/a	2.6	2.3	2.7	n/a
8th	0.6	0.6	0.7	1.5	4.3	3.9	3.3	n/a	0.8	1.1	1.0	4.0	1.0	1.1	1.6	6.8	2.5	2.9	3.0	n/a
10th	1.2	1.0	0.8	1.6	6.7	5.9	4.9	n/a	2.6	2.6	2.5	5.7	3.3	3.3	3.4	8.2	4.2	4.6	4.9	n/a
12th	1.6	1.2	0.9	1.6	12.1	8.8	6.1	5.3	5.3	4.5	3.3	6.1	9.7	6.8	4.2	7.7	6.5	5.1	5.1	n/a
All	1.0	0.8	0.8	n/a	6.3	5.1	4.1	n/a	2.3	2.2	1.9	n/a	3.7	3.0	2.5	n/a	4.0	3.8	3.9	n/a



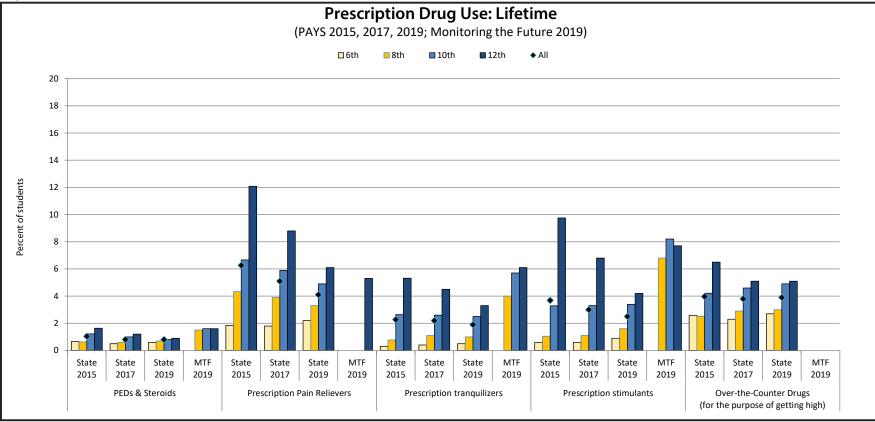
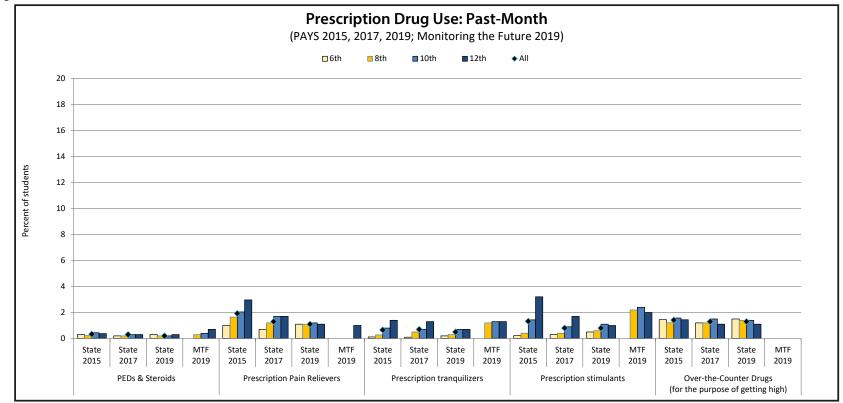


Table 3.5-2 Prescription Drugs: Past-Month Use

		PEDs &	Steroids		Presc	ription I	Pain Reli	evers	Pres	cription	tranquil	izers	Pre	scriptior	n stimula	ants		er-the-Co purpose		Drugs ing high)
Grade	State 2015	State 2017	State 2019	MTF 2019	State 2015	State 2017	State 2019	MTF 2019												
6th	0.3	0.2	0.3	n/a	1.0	0.7	1.1	n/a	0.1	0.1	0.2	n/a	0.2	0.3	0.5	n/a	1.4	1.2	1.5	n/a
8th	0.2	0.2	0.2	0.3	1.6	1.2	1.1	n/a	0.3	0.5	0.3	1.2	0.4	0.4	0.6	2.2	1.2	1.2	1.4	n/a
10th	0.4	0.3	0.2	0.4	2.0	1.7	1.2	n/a	0.8	0.7	0.7	1.3	1.4	0.9	1.1	2.4	1.6	1.5	1.4	n/a
12th	0.4	0.3	0.3	0.7	3.0	1.7	1.1	1.0	1.4	1.3	0.7	1.3	3.2	1.7	1.0	2.0	1.4	1.1	1.1	n/a
All	0.3	0.3	0.2	n/a	1.9	1.3	1.1	n/a	0.7	0.7	0.5	n/a	1.3	0.8	0.8	n/a	1.4	1.3	1.3	n/a

Figure 3.5-2



In the 2019 PAYS, Pennsylvania youth were asked to report if they had used other illicit drugs such as heroin, hallucinogens, ecstasy, synthetic drugs, cocaine, crack, or methamphetamines in their lifetime or in the past 30-days. Results of students reporting that they used any of these illicit drugs at least once in their lifetime or in the past month are reported in this section.

Lifetime Other Illicit Drug Use

The 2019 PAYS results presented in Table 3.6-1 show that 0.2% of students in grades 6, 8, 10, and 12 have used heroin at least once in their lifetime, 2.7% have used hallucinogens in their lifetime, 1.5% have used synthetic drugs, 1.1% have used ecstasy in their lifetime, 1.0% have used cocaine in their lifetime, 0.4% have used crack, and 0.3% have used other methamphetamines in their lifetime.

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.6-1), Pennsylvania youth in the 8th, 10th, and 12th grades indicated lower lifetime use rates in comparison to youth represented by the MTF Survey. In comparison to MTF use rates for grades 8, 10, and 12, Pennsylvania lifetime hallucinogen use rates were 1.0 to 1.7 percentage points lower for the 8th and 12th grades, and lifetime cocaine use rates were 1.4 to 1.7 percentage points lower for the 10th and 12th grades.

Since the 2017 survey, lifetime illicit drug use rates were relatively unchanged, though lifetime hallucinogen use increased 1.0 percentage point for 10th graders (from 2.8% in 2017 to 3.8% in 2019) and lifetime ecstasy use decreased 1.0 percentage point for 12th graders (from 3.1% in 2017 to 2.1% in 2019).

Past Month Other Illicit Drug Use

The 2019 PAYS results presented in Table 3.6-2 and Figure 3.6-2 show that 0.0% of students in grades 6, 8, 10, and 12 have used heroin at least once in the past 30 days. Past month use rates for the other illicit drug substances were as follows: hallucinogens - 0.7%, ecstasy - 0.2%, synthetic drugs, 0.5%, cocaine - 0.2%, crack - 0.1%, and methamphetamines - 0.1%.

In comparison to data gathered through the national Monitoring the Future (MTF) Survey (see Figure 3.6-2), Pennsylvania youth in the 8th, 10th, and 12th grades indicated similar use rates (0.6 percentage points or less difference) in comparison to youth represented by the MTF Survey.

Since the 2017 survey, past-month illicit drug use rates were largely unchanged.

For data regarding lifetime and 30-day other illicit drug use by county and grade, please refer to the PAYS Portal at www.pays.pa.gov or the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool.

Table 3.6-1Other Illegal Drugs: Lifetime Use

		Her	roin		F	lalluci	nogen	S		Ecs	tasy		Sy	ynthet	ic drug	JS		Сос	aine			Cra	ack		Met	hamp	hetam	ines
Grade	1	StateStateStateMTFStateStateS2015201720192019201520172															1	1								1		
6th	0.2	0.1	0.1	n/a	0.3	0.2	0.2	n/a	0.2	0.2	0.1	n/a	1.5	1.8	1.7	n/a	0.3	0.1	0.2	n/a	0.2	0.2	0.2	n/a	0.3	0.1	0.2	n/a
8th	0.3	0.2	0.1	0.7	0.7	0.9	0.7	2.4	0.7	0.8	0.5	1.7	1.8	1.5	1.6	n/a	0.5	0.5	0.4	1.2	0.4	0.4	0.3	0.9	0.4	0.3	0.2	0.9
10th	0.6	0.4	0.4	0.4	3.4	2.8	3.8	4.7	2.0	1.6	1.5	3.2	2.6	1.6	1.3	n/a	1.3	1.1	1.1	2.5	0.6	0.6	0.5	0.9	0.6	0.4	0.4	0.7
12th	1.4	0.5	0.3	0.6	6.9	6.3	5.9	6.9	5.4	3.1	2.1	3.3	4.8	2.0	1.4	n/a	3.8	2.7	2.1	3.8	0.9	0.6	0.5	1.7	1.0	0.6	0.4	0.8
All	0.6	0.3	0.2	n/a	2.8	2.6	2.7	n/a	2.1	1.4	1.1	n/a	2.7	1.7	1.5	n/a	1.5	1.1	1.0	n/a	0.5	0.4	0.4	n/a	0.5	0.3	0.3	n/a

Figure 3.6-1

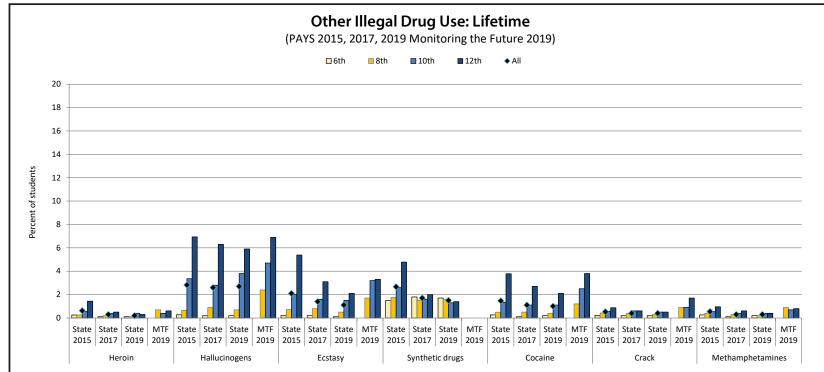
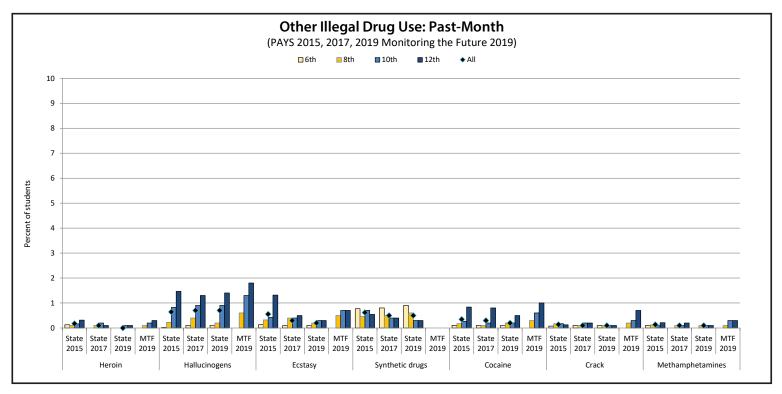


Table 3.6-2Other Illegal Drugs: Past-Month Use

		Her	oin		F	lalluci	nogen	S		Ecs	tasy		Sy	/nthet	ic dru	gs		Coc	aine			Cra	ack		Met	hamp	hetam	ines
Grade																		State 2017										MTF 2019
6th	0.1	0.0	0.0	n/a	0.0	0.1	0.1	n/a	0.1	0.1	0.1	n/a	0.8	0.8	0.9	n/a	0.1	0.1	0.1	n/a	0.1	0.1	0.1	n/a	0.1	0.0	0.0	n/a
8th	0.1	0.1	0.0	0.1	0.2	0.4	0.2	0.6	0.3	0.4	0.2	0.5	0.5	0.5	0.6	n/a	0.2	0.1	0.2	0.3	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1
10th	0.2	0.2	0.1	0.2	0.8	0.9	0.9	1.3	0.4	0.4	0.3	0.7	0.7	0.4	0.3	n/a	0.3	0.2	0.2	0.6	0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.3
12th	0.3	0.1	0.1	0.3	1.5	1.3	1.4	1.8	1.3	0.5	0.3	0.7	0.5	0.4	0.3	n/a	0.8	0.8	0.5	1.0	0.1	0.2	0.1	0.7	0.2	0.2	0.1	0.3
All	0.2	0.1	0.0	n/a	0.6	0.7	0.7	n/a	0.6	0.3	0.2	n/a	0.6	0.5	0.5	n/a	0.3	0.3	0.2	n/a	0.1	0.1	0.1	n/a	0.1	0.1	0.1	n/a

Figure 3.6-2



3.7 Lifetime ATOD Use by Gender

Tables 3.7-1 and 3.7-2 below show the percentage of lifetime ATOD use for males and for females. Lifetime use is a measure of the experience that young people have had with the various substances. Although being female is generally considered a protective factor for most problem behaviors, it can be seen that males and females are very similar in their use of most substances and generally have substance use rates that are less than three percent of each other. One area

in which males are significantly higher users is with smokeless tobacco use, in which males in all grades use much more smokeless tobacco — over three times higher for all grades combined (8.1% lifetime use by males, 2.7% lifetime use by females). Please see Appendix C for additional data comparing male and female rates in chart format, and please visit the PAYS Web Tool to run data for any PAYS item by gender.

Table 3.7-1

Lifetime Substance Use by Gender: Males

		Alcoho	I	Ci	igarette	es	Smoke	eless To	bacco	Μ	larijuar	na	Ir	nhalant	s	(Cocaine	2		Crack			Heroin	
Grade				State 2015	State 2017		State 2015			State 2015		State 2019				State 2015	State 2017	State 2019				State 2015		
6th	19.0	19.8	18.7	3.5	3.2	2.3	1.9	1.7	1.5	1.7	1.5	1.4	3.6	3.9	4.5	0.4	0.2	0.2	0.4	0.2	0.1	0.4	0.1	0.1
8th	33.7	34.2	31.2	9.7	8.3	6.5	6.1	5.6	3.5	7.0	7.5	7.3	3.9	4.8	5.2	0.5	0.5	0.3	0.5	0.4	0.4	0.2	0.3	0.1
10th	52.2	50.5	49.5	17.9	15.8	12.0	15.6	13.1	9.5	23.4	22.1	21.6	4.9	4.6	4.7	1.6	1.4	1.3	0.7	0.6	0.6	0.6	0.5	0.5
12th	68.6	65.9	60.1	33.2	27.7	23.1	29.8	23.0	18.0	37.8	38.9	36.6	5.5	4.7	5.7	4.9	3.6	2.8	1.0	0.9	0.5	1.9	0.7	0.4
All	43.3	41.7	40.0	16.0	13.2	11.0	13.2	10.3	8.1	17.5	16.7	16.8	4.5	4.5	5.0	1.8	1.3	1.2	0.7	0.5	0.4	0.8	0.4	0.3

Lifetime Substance Use by Gender: Males

	Hall	lucinog	jens	Metha	amphe	tmine		Ecstasy	,		formar ncing [ciption eleiver	· /		escripti inquiliz			escripti imulan		Synt	hetic D	rugs		the-Co to Get	I
Grade		State 2017	State 2019						State 2019				State 2015				State 2017					State 2015		State 2019			State 2019
6th	0.3	0.3	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.9	0.7	0.5	1.9	2.1	1.6	0.3	0.4	0.5	0.8	0.7	0.7	1.3	1.5	1.2	2.9	2.7	2.9
8th	0.7	0.9	1.0	0.3	0.4	0.2	0.7	0.8	0.6	0.6	0.7	0.5	3.4	3.4	2.7	0.6	1.2	0.9	0.9	1.3	1.6	1.6	1.2	1.3	2.2	3.2	3.1
10th	4.5	3.6	4.4	0.6	0.5	0.6	2.1	1.8	1.8	1.8	1.2	1.1	5.9	5.3	5.0	2.1	2.8	2.2	3.4	3.3	3.6	2.6	1.3	1.5	4.4	4.7	4.7
12th	8.9	8.0	7.7	1.2	0.8	0.5	6.5	3.6	2.4	2.6	1.8	1.4	12.7	8.8	6.2	5.8	5.1	3.2	10.3	7.8	4.9	5.8	2.2	1.6	7.1	6.3	6.3
All	3.6	3.0	3.3	0.6	0.5	0.4	2.4	1.5	1.2	1.5	1.1	0.9	6.0	4.7	3.9	2.2	2.3	1.7	3.8	3.1	2.7	2.8	1.5	1.4	4.2	4.1	4.3

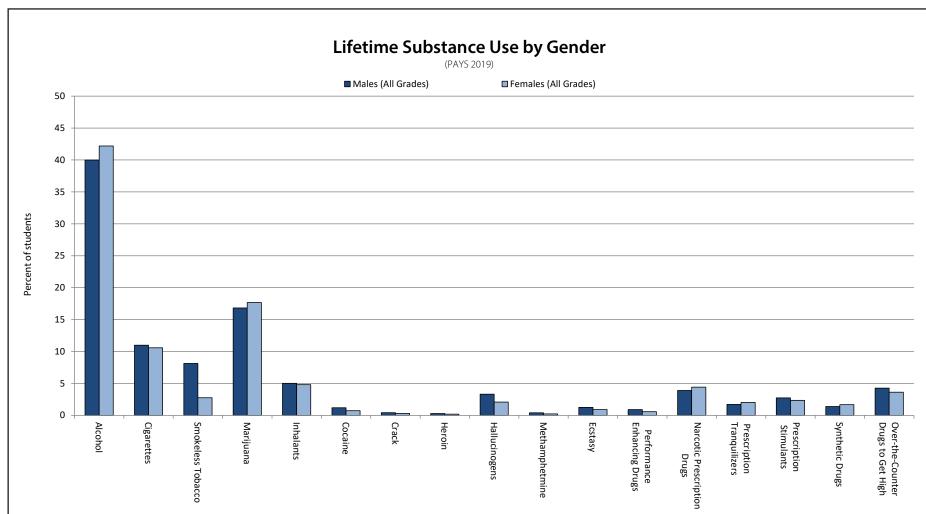
Table 3.7-2

Lifetime Substance Use by Gender: Females

		Alcoho	I	C	garette	es	Smoke	eless To	bacco	Μ	larijuar	na	Ir	nhalant	ts	(Cocaine	2		Crack			Heroin	1
Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015		State 2019			State 2019	State 2015		State 2019				State 2015		State 2019		State 2017	
6th	12.7	13.3	14.8	2.3	2.1	2.2	0.6	0.5	0.7	0.7	0.9	1.2	2.9	3.6	4.4	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
8th	34.2	33.3	33.4	12.3	8.8	7.2	2.9	2.1	1.6	7.5	7.5	7.6	5.5	5.2	6.1	0.4	0.3	0.4	0.3	0.3	0.1	0.3	0.2	0.1
10th	56.2	55.1	54.7	18.5	16.6	12.6	4.2	4.1	3.1	20.3	22.9	23.2	4.4	4.4	5.2	1.0	0.8	0.8	0.4	0.3	0.4	0.5	0.3	0.2
12th	73.1	69.8	65.8	32.3	25.4	20.4	6.6	5.7	5.5	38.2	38.9	38.4	4.9	3.6	3.6	2.6	2.2	1.5	0.7	0.4	0.5	0.9	0.3	0.3
All	44.5	42.1	42.2	16.5	12.8	10.6	3.6	3.0	2.7	16.9	16.9	17.7	4.5	4.2	4.8	1.0	0.8	0.7	0.4	0.3	0.3	0.4	0.2	0.2

Lifetime Substance Use by Gender: Females

	Hall	ucinog	jens	Metha	amphe	tmine		Ecstasy			rformai ncing [iption eleiver	· /		escripti Inquiliz			escripti imulan	I	Synt	hetic D	rugs		the-Co to Get	
Grade	State 2015	State 2017		State 2015	State 2017	State 2019						State 2019								State 2017	I		State 2017	State 2019			State 2019
6th	0.3	0.1	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.3	0.5	0.7	1.8	2.4	2.9	0.3	0.3	0.6	0.3	0.5	1.2	1.7	2.3	2.3	2.3	2.4	2.5
8th	0.6	0.7	0.5	0.4	0.3	0.1	0.8	0.5	0.3	0.7	0.7	0.8	5.3	4.3	3.9	1.0	1.2	1.2	1.2	1.2	1.6	1.8	2.0	2.0	2.7	2.8	2.8
10th	2.3	2.6	3.3	0.5	0.4	0.2	1.8	1.4	1.3	0.6	0.6	0.5	7.3	6.0	4.8	3.2	3.1	2.9	3.1	3.1	3.2	2.5	1.5	1.3	3.9	4.1	5.1
12th	4.9	4.8	4.2	0.7	0.5	0.3	4.2	2.5	1.8	0.7	0.5	0.3	11.7	7.8	6.0	4.9	4.7	3.3	9.1	5.9	3.3	3.8	1.8	1.2	5.9	4.5	3.9
All	2.0	2.0	2.1	0.5	0.3	0.2	1.8	1.1	0.9	0.6	0.6	0.6	6.6	5.0	4.4	2.4	2.2	2.0	3.5	2.6	2.3	2.5	1.9	1.7	3.7	3.4	3.6





Tables 3.8-1 and 3.8-2 below show the percentage of 30-day ATOD use for males and for females. Again, although being female is generally considered a protective factor for most problem behaviors, it can be seen that males and females are very similar in their use of most substances and generally have substance use rates that are less than three percent different from each other. The only substance that is consistently higher in all grades for males compared to females is smokeless tobacco (3.3% for males, 0.9% for females). When it comes to past-month substance use, it is interesting to note differences in male/ female use across the grades. In the 6th grade, substance use is quite similar across all substances for males and females, with males having equal or slightly higher use rates for 16 of the 18 substances. In the 8th, however, females show

Table 3.8-1

E-Cigarttes/Vaping Alcohol Cigarettes Smokeless Tobacco Marijuana Inhalants Cocaine Crack Heroin Devices State | State | State | State | State State | State | State | State | State | State State | State | State | State | State | State Grade 2015 2017 2019 2015 2017 2019 2015 2017 2019 2015 2017 2019 2015 2017 2019 2015 2017 2019 2015 2017 2019 2015 2017 2019 2015 2017 2019 3.8 0.7 0.5 0.5 0.4 4.1 3.7 0.9 0.4 3.2 2.8 3.7 0.8 0.8 0.6 2.2 1.8 2.0 0.2 0.1 0.1 0.1 0.1 0.1 0.2 0.0 6th 0.0 2.2 8th 8.6 9.0 7.6 2.9 2.2 1.5 2.3 1.1 11.2 11.3 11.1 3.8 4.1 3.9 1.2 1.5 1.5 0.2 0.2 0.1 0.2 0.1 0.1 0.1 0.1 0.0 20.1 5.9 3.8 8.1 6.4 3.3 24.0 12.3 12.8 12.9 1.2 0.3 0.4 0.3 0.3 10th 20.1 19.5 6.2 22.1 22.1 1.3 0.9 0.2 0.2 0.2 0.1 0.2 22.5 37.7 16.9 11.2 21.5 21.5 0.7 35.1 32.9 8.1 8.2 29.0 31.1 31.7 0.7 1.1 0.9 0.2 0.2 0.5 0.2 12th 15.8 12.4 0.7 1.0 0.2 0.1 17.5 16.3 3.5 6.9 4.8 3.3 9.6 9.5 9.8 1.3 0.4 0.4 0.3 0.2 0.1 0.1 All 16.0 6.4 5.0 16.4 16.2 17.7 1.4 1.4 0.2 0.2 0.1

Past Month Substance Use by Gender: Males

Past Month Substance Use by Gender: Males

	Hall	ucinog	jens	Metha	amphe	tmine		Ecstasy	,		formai ncing [ciption eleiver	•		escripti nquiliz			escripti imulan		Synt	hetic D	rugs		the-Co to Get	ounter t High
Grade	2015 2017 201		State 2019		State 2017		State 2015		State 2019		State 2017	State 2019	State 2015			State 2015				State 2017	State 2019	State 2015	State 2017	State 2019			State 2019
6th	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.4	0.3	0.1	1.0	0.9	0.7	0.2	0.2	0.2	0.3	0.3	0.4	0.8	0.6	0.4	1.7	1.4	1.5
8th	0.2	0.3	0.3	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.3	0.2	1.3	1.1	0.8	0.2	0.5	0.3	0.4	0.5	0.5	0.3	0.4	0.5	1.1	1.4	1.5
10th	1.0	0.9	1.3	0.1	0.2	0.2	0.5	0.5	0.4	0.7	0.3	0.3	1.6	1.5	1.3	0.7	0.9	0.6	1.5	1.0	1.1	0.9	0.3	0.3	1.6	1.5	1.3
12th	2.1	1.8	2.0	0.3	0.2	0.1	1.5	0.6	0.3	0.6	0.4	0.4	2.8	1.8	1.0	1.6	1.3	0.7	3.5	1.9	1.1	0.6	0.2	0.3	1.4	1.3	1.3
All	0.8	0.7	0.9	0.2	0.1	0.1	0.6	0.4	0.2	0.5	0.3	0.3	1.7	1.3	0.9	0.7	0.7	0.5	1.4	0.9	0.8	0.7	0.4	0.4	1.4	1.4	1.4

PAYS 2019

slightly more use; 8th grade females indicate slightly higher use over males in 10 of the 18 substance categories. In the 10th grade, females indicate slightly higher use for 6 categories; and in the 12th grade, only 4 categories.

Such findings indicate that prevention planning focused on the demographic of gender should not automatically assume higher use by males. The PAYS Web Tool (www.bach-harrison.com/PAYSWebTool) will allow individuals to search State and county-level data by grade and gender. We would encourage all to keep this in mind while diving into the data at that level. Please see Appendix C for more gender-related data.

Table 3.8-2

Past Month Substance Use by Gender: Females

	,	Alcoho	I	Ci	garette	25	Smoke	eless To	bacco		arttes/V Devices	/aping	Μ	larijuar	ia	Ir	nhalant	S	(Cocaine	2		Crack			Heroin	
Grade	State 2015			State 2015			State 2015	State 2017	State 2019										State 2015	State 2017	State 2019			State 2019			State 2019
6th	2.7	2.6	2.8	0.6	0.4	0.7	0.3	0.2	0.3	2.0	1.8	3.9	0.3	0.5	0.5	1.2	1.8	2.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0
8th	10.5	10.0	9.3	4.1	2.9	2.1	1.3	0.8	0.6	12.3	10.3	13.7	3.9	4.1	4.0	1.8	1.9	1.9	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0
10th	24.0	23.7	23.8	7.2	6.3	4.2	1.7	1.4	0.7	18.5	21.7	28.8	11.4	12.6	12.8	0.9	1.0	1.1	0.1	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.0
12th	37.6	37.3	35.0	13.5	10.8	6.9	1.8	1.9	1.8	25.1	27.8	34.6	19.9	20.7	20.1	0.6	0.5	0.7	0.6	0.5	0.4	0.0	0.1	0.0	0.2	0.1	0.0
All Grades	19.0	17.7	17.7	6.4	4.9	3.5	1.3	1.1	0.9	14.7	15.0	20.3	9.1	1.8	9.4	1.3	0.2	1.4	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.3	0.0

Past Month Substance Use by Gender: Females

	Hall	ucinog	lens	Metha	amphe	tmine		Ecstasy	,		formai ncing [ciption Releiver			escripti nquiliz			escripti imulan		Synt	hetic D	rugs		the-Co s to Get	
Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019									State 2019			State 2019			State 2019		State 2017			State 2017	
6th	0.0	0.0	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.2	0.3	0.9	1.2	1.5	0.1	0.1	0.3	0.0	0.3	0.6	0.8	1.1	1.3	1.2	1.3	1.4
8th	0.3	0.2	0.2	0.1	0.1	0.1	0.4	0.2	0.1	0.3	0.2	0.3	2.0	1.6	1.5	0.3	0.4	0.2	0.5	0.4	0.7	0.5	0.7	0.7	1.3	1.2	1.4
10th	0.6	0.6	0.5	0.0	0.1	0.1	0.3	0.3	0.2	0.2	0.1	0.1	2.3	1.8	1.2	0.9	0.9	0.8	1.3	0.9	1.1	0.5	0.3	0.4	1.4	1.2	1.6
12th	0.8	1.0	0.7	0.1	0.1	0.1	1.1	0.4	0.3	0.1	0.1	0.2	3.2	1.7	1.3	1.2	1.1	0.8	3.0	1.4	1.0	0.5	0.3	0.3	1.4	1.0	0.8
All Grades	0.4	0.1	0.4	0.1	0.5	0.1	0.3	0.1	0.2	0.2	2.3	0.2	1.6	0.8	1.4	0.6	0.9	0.5	0.7	0.6	0.9	0.6	1.3	0.6	1.2	9.1	1.3

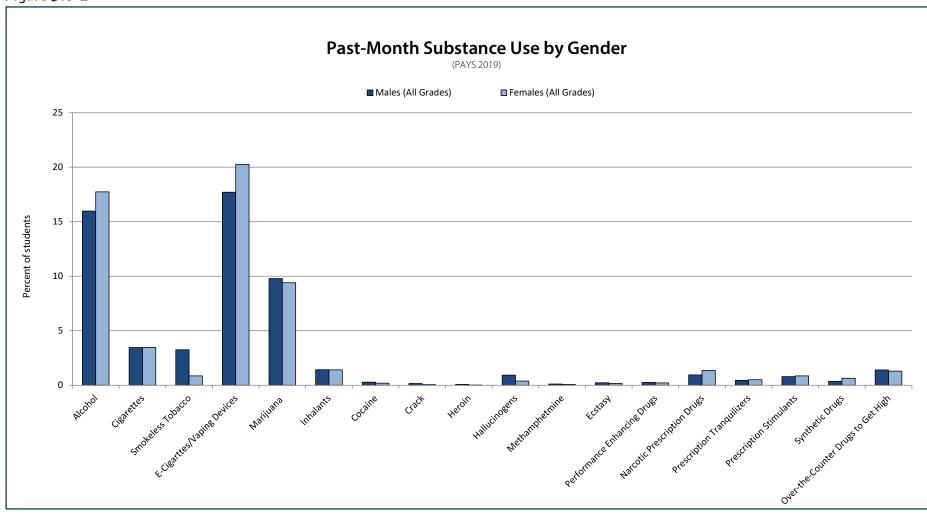


Figure 3.8-1

When youth perceive that a substance is harmful, they are less likely to use it. PAYS asked youth, "How much do you think people risk harming themselves (physically or in other ways) if they: smoked cigarettes heavily, binge drank regularly, used alcohol regularly, tried marijuana once or twice, smoked marijuana regularly, smoked marijuana once or twice a week, or used prescription drugs not prescribed to them." Response categories were that the previously named substance categories placed them at "Moderate Risk" or "Great Risk." Results are reported in Table 3.9-1 and Figure 3.9-1.

Of the seven substance use categories, students perceived the greatest risk in using prescription drugs not prescribed to them (82.9% perceived moderate or great risk overall) and smoking one or more packs of cigarettes per day (80.1% perceived moderate or great risk overall). Of the seven categories, students perceived the least amount of risk in trying marijuana once or twice (42.4% of students perceived moderate or great risk) and smoking marijuana once or twice a week (57.8% of students perceived great or moderate risk).

Perceptions of risk for most categories tended to peak in the 6th, 8th, or 10th grades. Sixth graders indicated the highest perceived risk of trying marijuana once or twice and smoking marijuana once or twice a week. Eighth graders indicated the highest perceived risk of binge drinking; while 10th graders indicated the highest perceived risk of regular/heavy tobacco use, regular alcohol use, and using prescription drugs. In general, all questions regarding perceived risks associated with marijuana use decreased as students advanced in grade level. For example, 72.6% of 6th graders perceived moderate or great risk in smoking marijuana once or twice a week. By the 12th grade, only 38.9% of students perceived a risk in this regular weekly use.

In comparing the 2017 and 2019 survey data, perceived harmfulness of taking one or more drinks of an alcoholic beverage increased 0.3 percentage points to 2.3 percentage points in each grade. Rates in other areas remained largely unchanged from 2017 to 2019.

Table 3.9-1

Perceived Risks of Using Substances

		e one or of cigaret day			five or r of an ac ge once o a week	loholic	of an alc		e drinks everage day	l Irv ma	rijuana c twice	once or		arijuana (vice a we		Use mai	rijuana ro	egularly	that are	escription not pre to them	scribed
Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6th	78.1	77.0	76.1	71.2	70.5	69.2	67.0	65.5	65.8	65.2	62.1	60.0	76.2	73.1	72.6	80.3	78.8	78.6	77.7	76.5	76.7
8th	82.3	81.2	82.2	74.9	73.2	74.2	68.5	66.8	69.1	57.6	53.1	52.5	73.4	68.4	69.6	82.2	78.0	78.9	82.5	81.8	83.5
10th	83.9	83.8	82.3	75.5	72.7	73.9	68.4	68.2	69.1	37.2	33.9	34.2	54.8	53.0	51.6	69.3	67.1	66.5	85.9	86.0	86.2
12th	79.8	79.2	79.6	66.4	68.4	68.6	62.0	63.9	65.4	27.9	25.1	24.6	43.4	38.9	38.9	56.8	53.9	53.5	82.9	84.3	84.7
All	81.1	80.4	80.1	72.0	71.2	71.5	66.5	66.1	67.4	46.3	42.6	42.4	61.4	57.5	57.8	71.8	68.9	69.1	82.4	82.4	82.9



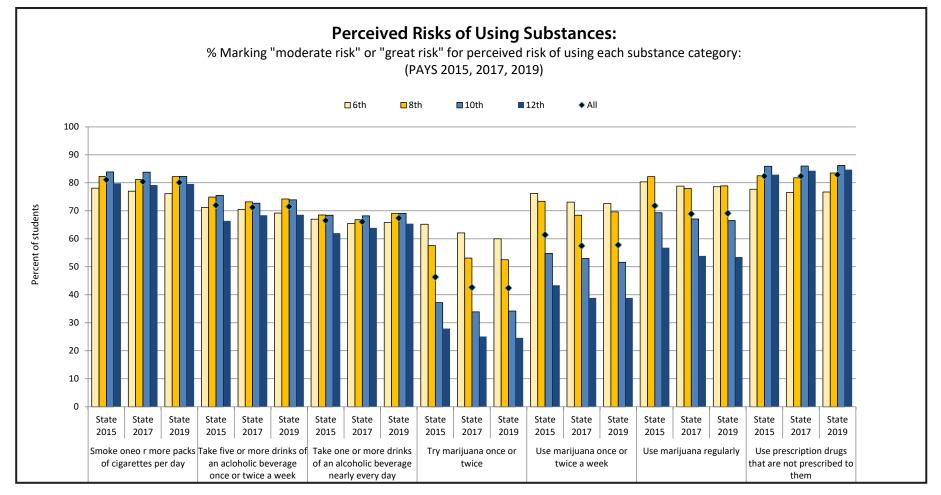


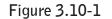
Table 3.10-1 and Figure 3.10-1 contain data on where students obtained alcohol in the past year. When examining sources of ATOD data, it is important to note that the percentages reported in Table 3.10-1 reflect the percent of alcohol-using students (i.e., those who used in the past year) who marked each option. It must also be noted that the categories are not mutually exclusive, and students were instructed to mark all of the sources from which they obtained substances. For example, students could mark that "Parents or friends' parents provided it to me" and that they "Bought it at a store." Accordingly, total percentages will not sum to 100% within grade, as selection of multiple options is evident.

For all grades combined, 34.3% of alcohol-using youth took the alcohol without permission, stole it, or found it; 26.7% gave someone money to buy it for them;

25.7% indicated their parents provided it; 23.8% indicated that friends or siblings over 21 bought it for them; 17.9% indicated their friends' parents provided it; 15.9% indicated friends or siblings under the age of 21 provided it; 14.2% indicated other relatives provided it; 4.3% bought it at a store; 3.1% bought it at a public event such as a concert or sporting event; 2.7% bought it at a restaurant, bar, or club; and 23.6% obtained it from another source not listed.

Table 3.10-1 Sources of Obtaining Alcohol

	Bough sto	t it in a pre	Bougł a resta bar, o	urant, r club	at a p event a con		it fo		provid	ents ed it to ne	par provid	ends' ents ed it to ne	broth sisters bough		Frie broth sisters 21 prov to	ers, or under		ed it to	Other provid m	ed it to	permi	vithout ission, r found t
Grade	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019
6th	5.8	5.5	3.6	4.3	4.5	2.7	9.4	7.4	37.7	36.3	8.5	4.3	6.3	7.4	9.0	5.1	15.2	19.1	19.7	18.4	24.2	27.7
8th	4.3	3.0	2.5	2.3	2.9	2.7	12.3	10.1	30.3	29.0	14.8	13.7	13.2	14.7	13.9	13.3	19.6	16.1	22.1	22.1	42.6	40.4
10th	2.7	3.4	2.0	1.9	2.2	2.3	25.4	23.8	19.9	22.7	16.7	18.4	23.0	21.4	16.9	16.9	13.3	13.6	25.8	23.5	40.4	41.1
12th	6.0	5.5	4.0	3.4	4.3	3.9	41.5	38.1	20.8	25.4	21.6	20.8	33.8	31.5	20.4	17.4	12.2	13.3	25.3	24.8	25.8	26.9
All	4.7	4.3	3.1	2.7	3.4	3.1	29.6	26.7	23.1	25.7	18.2	17.9	25.4	23.8	17.6	15.9	14.1	14.2	24.6	23.6	33.3	34.3



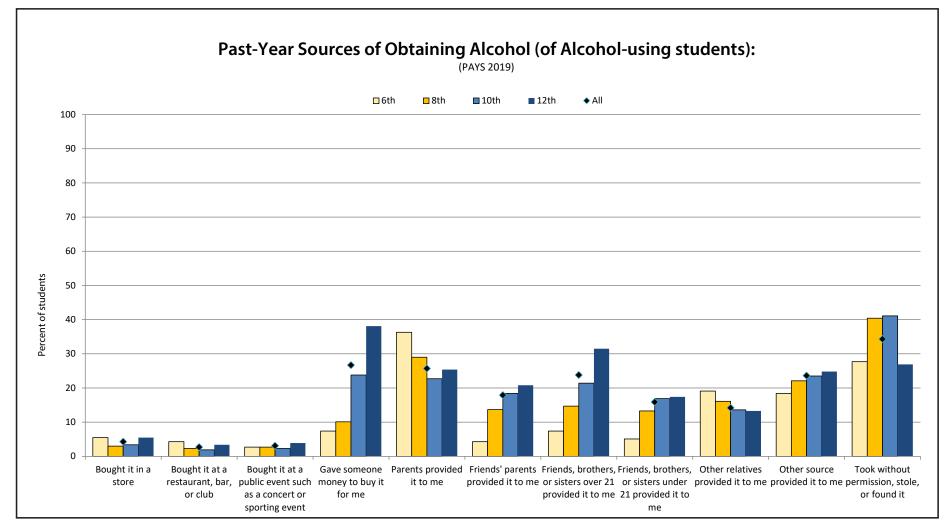


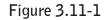
Table 3.11-1 and Figure 3.11-1 contain data on where students obtained prescription drugs in the past year. When examining sources of ATOD data, it is important to note that the percentages reflect the percent of prescriptiondrug-using students (i.e., those that reported use in the past year) who marked each option. Further, it must be noted that the categories are not mutually exclusive, and students were instructed to mark all of the sources from which they obtained prescriptions. For example, students could mark that they both "took them from a family member living in my home," and "bought them from someone." Accordingly, total percentages will not sum to 100% within grade, as selection of multiple options is evident. For all grades combined, 41.4% of prescription-drug-using students indicated taking the drugs from a family member living in their home, 38.7% indicated that a friend or family member gave them to the student, 22.7% indicated that they bought them from someone, 13.7% indicated they took them from someone not related to them, 11.1% indicated they took them from relatives who were not living in their home, and 8.3% indicated they ordered them over the Internet.

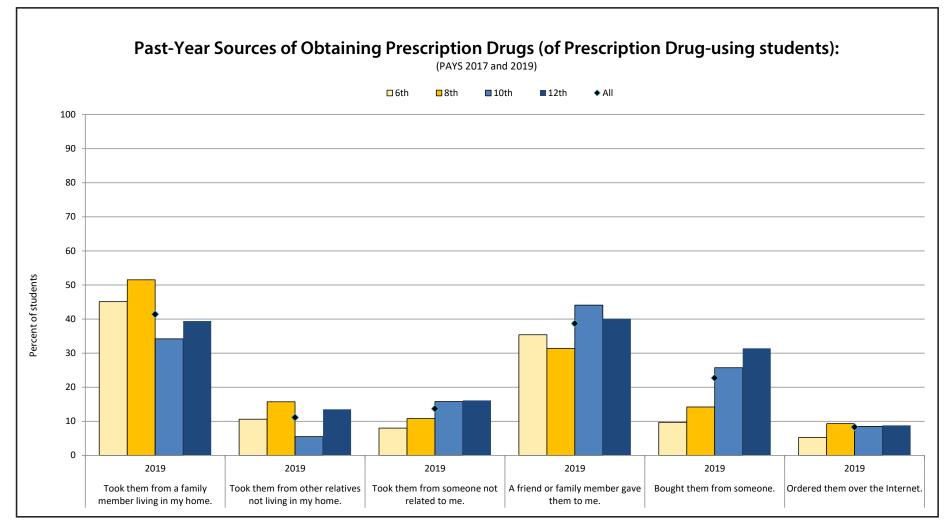
In general, as students got older, they were less likely to take prescriptions from a family member living in the home, but more likely to buy them from someone or have a friend or family member give the drugs to them.

Table 3.11-1

Sources of Prescription Drugs in the past year: Percentage indicates the percent of past-year prescription drug-using students who marked each item

Grade		rom a family g in my home		n other relatives n my home	Took them front related	om someone ed to me		mily member em to me	Bought them f	from someone	Ordered the Inte	
	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019
6th	47.5	45.1	7.5	10.6	6.3	8.0	36.3	35.4	10.0	9.7	15.0	5.3
8th	46.7	51.5	12.9	15.7	12.1	10.8	38.3	31.4	19.6	14.2	10.4	9.3
10th	40.3	34.2	10.1	5.5	12.4	15.8	45.0	44.1	26.7	25.7	7.0	8.5
12th	30.6	39.4	8.3	13.5	9.3	16.1	39.8	40.1	37.7	31.4	6.5	8.8
All	39.1	41.4	10.0	11.1	10.6	13.7	40.6	38.7	27.3	22.7	8.4	8.3





Section 4: Antisocial Behavior and School Safety Measures

The charts and tables that follow present the rates of a variety of antisocial behaviors (ASB) and school safety measures.

Antisocial behavior may be outwardly directed, involving aggression against adults or peers, or might be behavior destructive to property, self, and others. Less overt antisocial behavior includes addictive behavior (such as gambling), and high-risk activities (such as drinking and driving).

Over the last 15 years, many youth surveys, including PAYS, have moved to incorporate risk and protective factor data alongside more traditional health behavior assessments. As this approach has evolved, school climate and safety have emerged as focal points for prevention programming and policy planning.

Creating safe supportive schools is essential to ensuring students' academic and social success. There are multiple elements to establishing environments

in which youth feel safe, connected, valued, and responsible for their behavior and learning. School climate and safety are measured in two ways: violence (actual and threatened) and bullying.

This section, **Antisocial Behaviors and School Safety Measures**, provides information on antisocial behaviors that have been traditionally observed by risk and protective factor survey instruments (such as school suspension, illegal drug sales, attacking someone with the intent of harming them, etc.), student/school-related antisocial behaviors, bullying and Internet safety, gambling, and dangerous driving behaviors. Data will be discussed by grade and (for some measures) by gender.

When accompanied by a copy of the State Report Executive Summary, each subsection found in Section 4 can be considered a self-standing piece that can be distributed to researchers, prevention specialists, and other interested parties.

There are several antisocial behavior measures that have been long-standing components of risk and protective factor youth surveys such as PAYS. These past-year antisocial behaviors include: student reports of attacking someone with the intent of seriously hurting them, selling illegal drugs, being drunk or high at school, being arrested, and being suspended from school. Table 4.1-1 and Figure 4.1-1 in this section display that information (along with a comparison to the BH Norm) by grade.

Table 4.1-1, which contains rates of several antisocial behavior outcomes, shows that unlike substance use, antisocial behavior doesn't always increase by increased grade level. Of 8th graders, 8.2% reported being suspended from school in the past year; while 4.9% of 8th grade students reported attacking someone with the intent of seriously harming them in the past year. More than one in ten (12.0%) of high school seniors reported being drunk or high at school in the past year.

In comparison to the BH Norm (used to provide a comparison to a more national average), Pennsylvania youth indicate antisocial behavior rates that are lower than this national average. Rates of attacking someone to seriously harm them are 2.6 percentage points to 4.5 percentage points lower in Pennsylvania vs. the BH Norm in each grade. Fewer students in Pennsylvania report being at school while drunk or high, in comparison to the BH national norm (6.2% for Pennsylvania, all grades combined; 8.8% for the BH Norm).

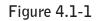
Desirable decreases since 2017 were found in the 12th grade, with antisocial behavior rates declining up to 1.3 percentage points for most of the measures in Table 4.1-1. Significant increases were seen in students reporting being drunk or high at school with a 1.4 percentage point increase in the 12th grade and 1.5 percentage point increase in the 10th grade.

For data regarding antisocial behaviors by county and grade, please refer to the reports provided on the PAYS Portal at www.pays.pa.gov.

Table 4.1-1

							-													
	1	ked som seriousl				Sold illeg	gal drugs	5	Been o	drunk or	high at	school		Been a	rrested		Been s	uspende	ed from	school
Grade	State 2015	State 2017	State 2019	BH Norm	State 2015	State 2017	State 2019	BH Norm	State 2015	State 2017	State 2019	BH Norm	State 2015	State 2017	State 2019	BH Norm	State 2015	State 2017	State 2019	BH Norm
6th	5.0	5.4	4.6	8.7	0.3	0.3	0.2	0.5	0.5	0.6	0.8	1.3	0.8	1.0	0.5	1.3	6.6	6.5	6.7	8.9
8th	6.9	5.9	4.9	9.4	1.2	1.5	1.0	2.2	3.0	3.2	3.1	5.1	2.5	1.8	1.3	3.2	9.1	9.2	8.2	12.1
10th	6.5	5.9	5.0	8.1	4.1	3.2	3.3	4.9	7.1	7.3	8.8	11.4	2.9	2.1	1.9	3.9	8.0	7.6	7.7	9.8
12th	6.3	5.2	3.9	6.5	6.8	5.1	4.6	6.7	12.6	10.6	12.0	15.2	3.8	2.6	2.0	4.1	7.4	6.4	5.8	7.9
All	6.2	5.6	4.6	8.2	3.2	2.6	2.3	3.8	5.9	5.6	6.2	8.8	2.5	1.9	1.5	3.3	7.8	7.5	7.1	9.8

Other Antisocial Behaviors (past year)



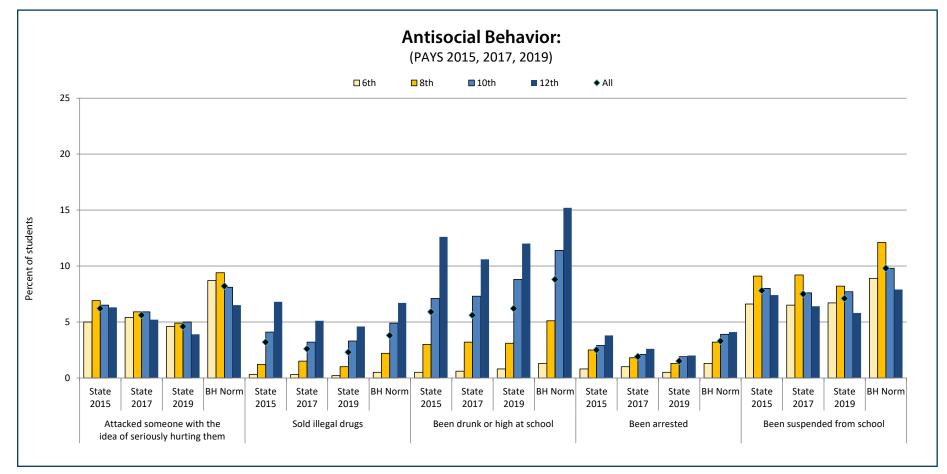


Table 4.2-1, Table 4.2-2, and Figure 4.2-1 in this section display a selection of antisocial behavior measures from the 2019 PAYS questionnaire by both grade and gender.

Although the data gathered from the 2019 PAYS indicate that male and female substance use rates are typically quite similar, male-female differences are more marked when looking at antisocial behaviors such as those highlighted in this section — heavy cigarette use, binge drinking, school suspension, illegal drug sales, reported arrest, attacking someone

with the intent of harming them, being drunk or high at school, driving a vehicle after drinking, and driving a vehicle after smoking marijuana.

Table 4.2-1 and Table 4.2-2 show that males typically engage in these behaviors more than females. Some of the largest differences were in being suspended from school (8.8% for males compared to 5.3% for females), driving a vehicle after smoking marijuana (3.5% for males, 2.5% for females), and attacking someone with the intent of harming them (5.7% for males compared to 3.5% for females).

Table 4.2-1

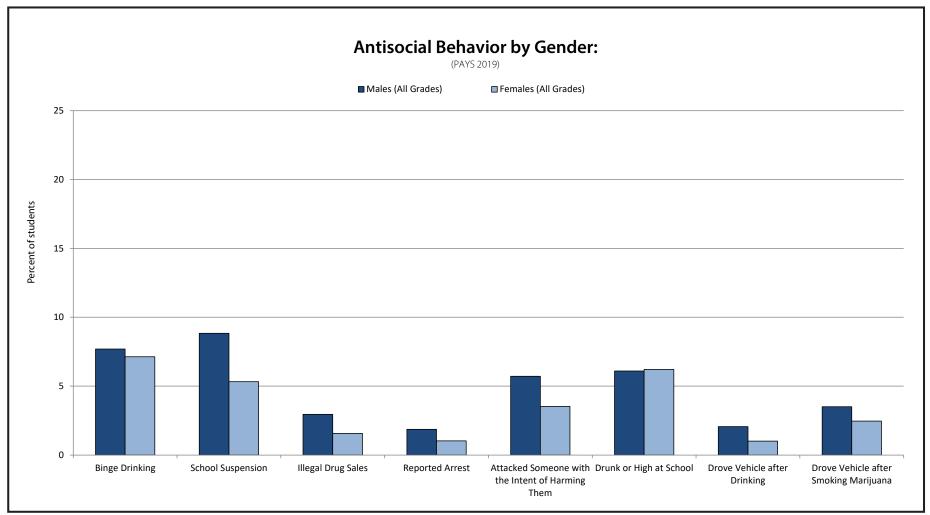
Antisocial Behavior by Gender: Males

	Bing	le Drinl	king	Schoo	l Suspe	ension	Illega	l Drug	Sales	Repo	orted A	rrest	with	ed Son the Inte ming Th		Drun	k or Hi School			Vehicle Drinking			Vehicle ng Mar	e after rijuana
Grade	State 2015		State 2019				State 2015						State 2015		State 2019				State 2015		State 2019		State 2017	I I
6th	1.4	1.4	1.3	9.2	8.7	8.2	0.4	0.3	0.2	1.1	1.0	0.6	7.0	6.5	5.5	0.7	0.6	0.7	0.5	0.5	0.4	0.3	0.3	0.2
8th	2.6	2.7	2.8	11.4	11.8	10.1	1.8	1.5	1.2	2.9	2.3	1.7	7.8	7.6	5.8	2.9	2.8	2.6	1.8	1.2	0.8	0.9	0.9	0.6
10th	8.0	8.4	8.2	10.1	10.4	9.7	5.1	4.5	4.4	3.7	3.6	2.4	7.6	7.4	6.3	7.4	7.8	8.4	1.9	1.9	1.6	2.3	2.4	1.8
12th	19.8	18.8	18.4	9.7	8.7			7.3	6.0	5.1	4.0	2.7	8.2	6.4	5.3	14.1	13.2	12.7	8.4	6.3	5.4	12.9	12.6	11.5
All	7.9			8.8	4.3	3.3	3.0	3.2	2.7	1.9	7.6	7.0	5.7	6.3	5.9	6.1	3.2	2.4	2.1	4.3	3.9	3.5		

Table 4.2-2Antisocial Behavior by Gender: Females

	Bing	je Drin	king	Schoo	l Suspe	ension	Illega	l Drug	Sales	Repo	orted A	rrest	with	ed Son the Inte ning Th	ent of		k or Hi School			Vehicle Drinking			Vehicle ng Mar	
Grade		State 2017		State 2015			State 2015		State 2019							State 2015			State 2015		State 2019			
6th	1.1	0.9	1.1	3.9	3.2	5.1	0.1	0.1	0.3	0.3	0.4	0.4	3.1	3.1	3.9	0.3	0.4	0.8	0.2	0.2	0.2	0.1	0.1	0.2
8th	3.9	3.1	3.1	6.6	6.0	6.0	0.6	0.8	0.7	2.0	1.4	1.0	5.9	5.0	4.1	3.0	3.0	3.6	0.5	0.6	0.4	0.4	0.5	0.4
10th	8.8	8.6	8.4	6.0	5.9	5.6	3.0	2.4	2.3	2.2	1.9	1.4	5.5	4.7	3.7	6.8	7.5	9.2	0.9	0.8	0.8	1.2	1.1	1.0
12th	16.4	15.5	15.8	5.2	4.8	4.5	4.0	3.3	3.1	2.4	1.8	1.2	4.3	3.6	2.5	11.1	9.4	11.2	4.4	3.7	2.6	8.6	8.7	8.2
All Grades	7.6	6.7	7.1	5.5	5.1	5.3	2.0	1.6	1.6	1.8	1.4	1.0	4.7	4.1	3.5	5.4	5.0	6.2	1.6	1.3	1.0	2.7	2.5	2.5





Violence on school property is widely held to have become a serious problem in recent decades, especially where weapons such as guns or knives are involved. The presence of drugs on school property is also an area of concern.

Pennsylvania students were surveyed regarding the frequency with which they have been threatened or attacked on school property within the past year, and whether they were offered, given, or sold illegal drugs on school property within the past year.

Data in Table 4.3-1 and Figure 4.3-1 show that 8.5% of students in all grades have been offered drugs at least one time in the past 12 months. Of all students surveyed, 18.9% indicate having been threatened at school at least once in the past year, and 3.9% indicated having been threatened with a weapon at school in the past year. In regard to actual attacks, 7.6% of all students indicated having been attacked at school, and 1.1% indicated having been attacked with a weapon at school. In the past month, 0.9% of students in the state sample indicated that they brought a weapon (such as a gun, knife, or club) to school at least one time.

The 12th grade saw the highest rates of past-year reports of bringing a weapon to school (1.7%), and 10th graders had the highest rate of being offered drugs at school (13.8%). However, 6th graders indicated the highest rates of being attacked at school in the past year (11.1%), and 8th graders indicated the highest rates of being threatened at school in the past year (21.2%) and being threatened with a weapon at school in the past year (4.3%).

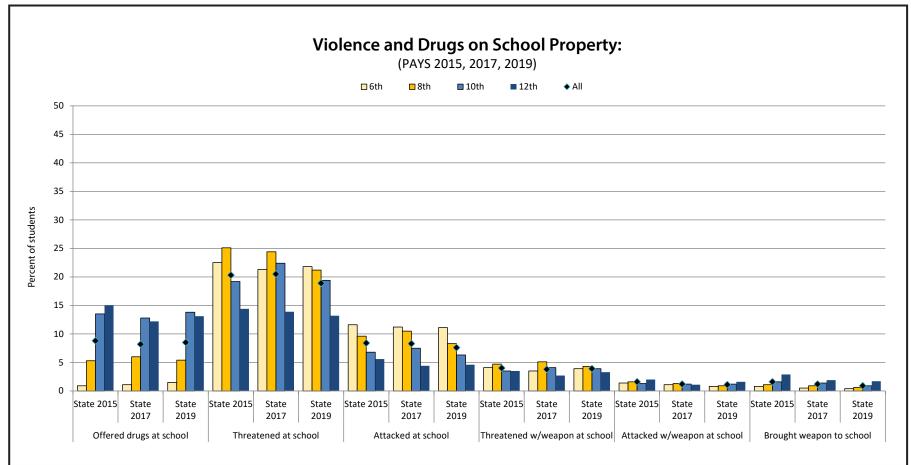
Since the 2017 survey, reports of being threatened at school decreased 3.2 percentage points for the 8th grade (from 24.4% in 2017 to 21.2% in 2019) and 3.0 percentage points in the 10th grade (from 22.4% in 2017 to 19.4% in 2019). The 8th grade saw several desirable decreases in school-related violence and drug behavior; 8th grade rates of being offered drugs at school, being threatened at school, being attacked at school, and being threatened with a weapon at school all noticeably decreased from 2017 to 2019.

Table 4.3-1

Violence and Drugs on School Property

	Offered	d drugs at	school	Threa	tened at s	chool	Atta	cked at sc	hool	Threate	ned w/we school	apon at	Attack	ed w/wea school	pon at	Brought	weapon t	o school
Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6th	0.9	1.1	1.5	22.5	21.3	21.8	11.6	11.2	11.1	4.1	3.5	3.9	1.4	1.1	0.8	0.8	0.5	0.4
8th	5.3	6.0	5.4	25.1	24.4	21.2	9.6	10.5	8.3	4.7	5.1	4.3	1.6	1.3	0.9	1.1	0.9	0.6
10th	13.5	12.8	13.8	19.2	22.4	19.4	6.8	7.5	6.3	3.5	4.1	3.9	1.3	1.2	1.2	1.6	1.4	0.9
12th	15.0	12.2	13.1	14.4	13.9	13.2	5.6	4.4	4.6	3.5	2.7	3.3	2.0	1.1	1.6	2.9	1.9	1.7
All	8.8	8.2	8.5	20.3	20.5	18.9	8.4	8.3	7.6	4.0	3.8	3.9	1.6	1.2	1.1	1.6	1.2	0.9





Even though bullying is not a new phenomenon, the growing awareness that bullying has serious consequences for both schools and students is new. Bullies who operate electronically (that is, via text message, social media, or the Internet) can remain virtually anonymous, freeing them from normative and social constraints on their behavior.

Bullying behavior contributes to lower attendance rates, lower student achievement, low self-esteem, and depression (see Section 5.2), as well as higher rates of both juvenile and adult crime. Although the problem of bullying is receiving increased public attention, actual incidences of bullying often go undetected by teachers and parents. The most effective way to address bullying is through comprehensive, school-wide programs.

Increased public awareness of electronic or "cyber" bullying is due in part to high profile suicides linked to malicious use of social media services Twitter and Facebook. The modern teen's social sphere is deeply intertwined with texting, social media, and the Internet. Invaded by bullying behavior, the harassment can feel inescapable, and traditional places of refuge such as the home no longer apply. The resulting isolation from simply "turning off the phone" has the unfortunate effect of further punishing the victim.

Tables 4.4-1 and 4.4-2 and Figures 4.4-1 and 4.4-2 display the bullying/ Internet safety data gathered via the PAYS 2019 questionnaire. Over one in four (25.1% of all students) indicated they had been bullied in the past year, 14.0% reported having been electronically bullied, and 4.6% said they had stayed home from school in the past year due to worries about bullying. Rates of being electronically bullied were highest in the 8th grade (15.0% of 8th graders reported having been electronically bullied).

Students were also asked about inappropriate sexual contact through technology. Of all students, 21.0% marked "YES!" or "yes" to this question and 10th graders reported the highest response to this question (28.6% marked "YES!" or "yes").

Inappropriate sexual contact Stayed home from school Percentage of students Adults at school stop Table 4.4-1 Electronic bullying (% bullving when they see/hear through technology* (% because worried about being indicating some bullying in answering "YES!" or "yes") answering "YES!" or "yes") bullied the past 12 months it/student tells them about it State Grade 2019 2015 2019 2019 2015 2017 2019 2015 2017 2017 2015 2017 2015 2017 2019 9.4 9.5 4.2 4.8 19.5 28.3 80.2 6th 7.8 5.0 16.0 14.1 13.9 29.3 80.7 72.4 8th 20.2 20.9 18.9 6.1 5.5 5.4 18.9 18.7 15.0 19.8 31.4 27.5 66.8 65.3 57.1 26.9 14.9 29.5 24.9 60.3 10th 31.5 28.6 5.5 4.8 4.4 16.7 17.9 15.6 55.9 47.1 3.7 12.9 54.8 12th 23.4 28.1 26.3 4.5 3.9 13.8 14.9 12.1 22.8 19.6 52.5 43.6 5.3 All 20.3 22.6 21.0 4.6 4.6 16.3 16.5 14.0 16.9 28.2 25.1 65.1 63.0 54.8

Table 4.4-2Bullying Frequency in the past year

Grade	No (not bu past 12	llied in the months)	Yes, ver	y rarely	Yes, now	and then	Yes, severa mo	l times per nth	Yes, severa we	l times per ek	Yes, alm	ost daily
Grade	State	State	State	State	State	State	State	State	State	State	State	State
	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019
6th	67.8	68.7	14.7	14.9	10.3	9.9	2.2	2.2	2.1	1.4	2.9	2.9
8th	65.4	70.1	15.5	13.7	10.5	9.2	3.2	2.9	2.1	1.7	3.3	2.4
10th	68.8	73.6	14.8	12.7	10.3	8.4	2.6	2.2	1.8	1.5	1.7	1.6
12th	75.9	79.2	11.4	10.2	7.4	6.6	2.6	1.6	1.4	1.2	1.4	1.2
All	69.5	72.9	14.1	12.9	9.6	8.5	2.7	2.2	1.9	1.5	2.3	2.0

Bullying and Internet Safety

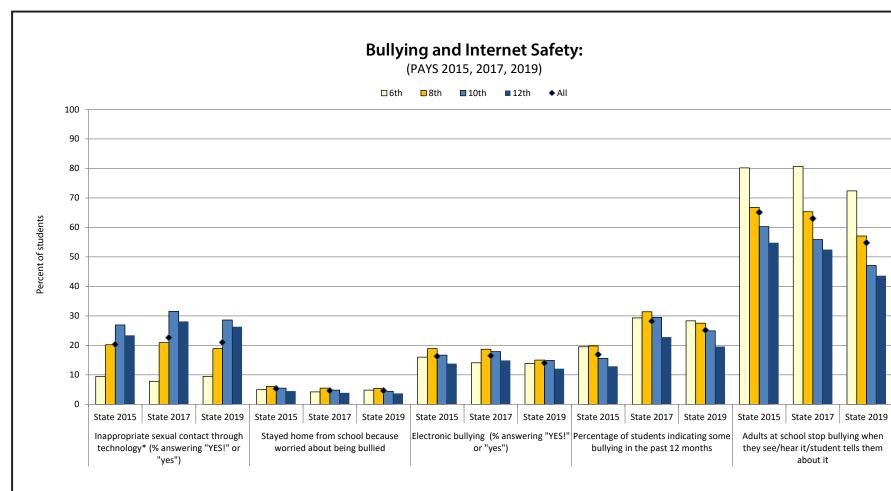
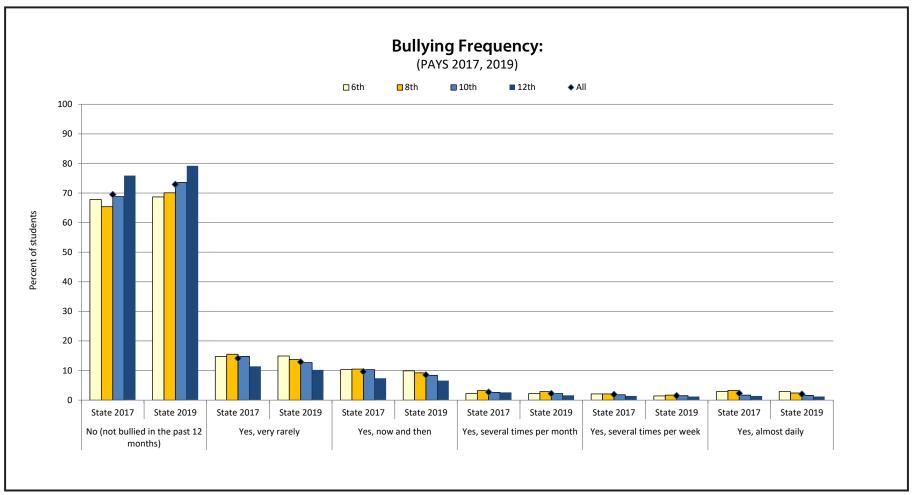


Figure 4.4-1





4.5 Additional Bullying Data

Additional bullying data were gathered through the 2019 PAYS in the form of questions asking students who had been bullied in the past year to report where they were bullied (Table 4.5-1 and Chart 4.5-1), and their perception of why they were bullied (Table 4.5-2 and Chart 4.5-2). The data in Table 4.5-1 (Bullying Locations) includes all students surveyed, while data in Table 4.5-2) are of students who indicated being bullied in the past year.

As for locations, while 73.3% of students report not being bullied in the past year, 21.6% reported being bullied on school property (24.0% of 6th graders, 24.2% of 8th graders, 21.0% of 10th graders, and 16.0% of 12th graders). The next highest locations were at home (7.1% experienced bullying here), in the community (5.1%), while going to or from school (4.7%), and at a school-sponsored event (3.6%).

Of students reporting they were bullied in the past year, the perceived reasons for being bullied were looks (i.e., clothing, hairstyle, etc.) (39.1%), size (height, weight, etc) (33.5%), social standing (15.6%), social conflict

(12.6%), grades or school achievement (11.6%), family socioeconomic standing (10.5%), sex orientation (10.2%), skin color (7.8%), gender (5.7%), religion (5.2%), county that family is from (3.8%), and country of birth (2.8%). A large number of students also reported that they "don't know why" they are bullied (32.5%) and that they were bullied for "some other reason" (37.8%).

Table 4.5-1

Bullying Locations (of all students responding to the question)

Grade	l was	not b	ullied	-	n scho roper	-	sp	a scho onsor event	ed		e goir om sc	0		In the nmur		A	t hom	ie
	State State State 2015 2017 201																	
6th	75.0	68.2	69.2	19.1	22.7	24.0	2.8	2.9	2.9	7.4	6.7	6.2	5.6	5.2	5.3	7.8	7.9	7.7
8th	75.3	66.5	71.3	20.0	27.1	24.2	4.0	4.3	3.7	6.0	7.0	5.5	5.6	6.8	5.0	7.9	8.9	7.0
10th	80.7	70.1	74.3	14.4	23.1	21.0	3.6	4.4	4.3	4.5	4.3	3.9	4.8	6.2	4.7	7.8	9.1	7.3
12th	84.2	76.3	79.6	11.8	17.5	16.0	3.1	4.9	3.7	2.8	3.2	3.0	4.2	7.0	5.4	5.7	7.2	6.4
All	78.4	70.0	73.3	16.7	22.9	21.6	3.4	4.1	3.6	5.3	5.4	4.7	5.1	6.3	5.1	7.4	8.3	7.1

Table 4.5-2

Perceived Reasons for being Bullied (of students indicating they had been bullied in the past year)

Grade		on't v why		color y skin	My re	ligion	(hei	ght,	My a			buntry born n	(pare) grandp	amily ents,	l lo (clot	way ook hing, style,	my fa ha: doe:	nev	My ge	ender	My g or so achiev	jrades chool /ement	My s stan	I	Soc con		1 1	exual tation	disa (learn phy	ing or	Some rea:	other son
				1															1								1					
	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019	2017	2019
6th	38.2	38.3	7.0	6.6	3.4	3.4	32.3	33.9	2.4	2.7	2.1	2.7	3.1	2.8	39.5	37.5	6.7	9.5	5.2	4.9	9.9	10.4	8.8	7.6	6.5	6.8	3.2	5.5	4.2	4.0	37.0	39.3
8th	31.7	33.3	7.4	7.1	6.0	4.8	37.0	35.8	3.8	3.2	2.2	2.5	3.8	3.9	46.5	42.5	13.3	10.4	5.4	5.3	13.7	11.6	17.1	15.7	12.6	10.6	8.8	11.3	5.2	6.1	40.3	39.5
10th	29.3	27.7	7.3	9.4	6.8	6.7	30.0	33.2	3.9	4.1	2.1	2.9	4.1	4.6	41.0	39.9	10.0	11.9	4.9	6.5	13.0	12.4	22.0	20.8	16.0	16.6	9.9	13.0	6.3	6.1	35.4	36.6
12th	29.8	28.3	7.9	8.5	6.6	6.7	27.0	28.6	3.8	4.5	2.3	3.5	3.1	4.2	33.4	34.2	11.2	10.2	7.6	6.9	13.0	12.6	20.9	21.2	21.1	20.3	11.0	12.0	7.0	7.0	36.6	33.7
All	32.4	32.5	7.4	7.8	5.7	5.2	32.4	33.5	3.5	3.5	2.2	2.8	3.6	3.8	41.2	39.1	10.6	10.5	5.6	5.7	12.5	11.6	16.9	15.6	13.4	12.6	8.1	10.2	5.5	5.7	37.7	37.8

Figure 4.4-1

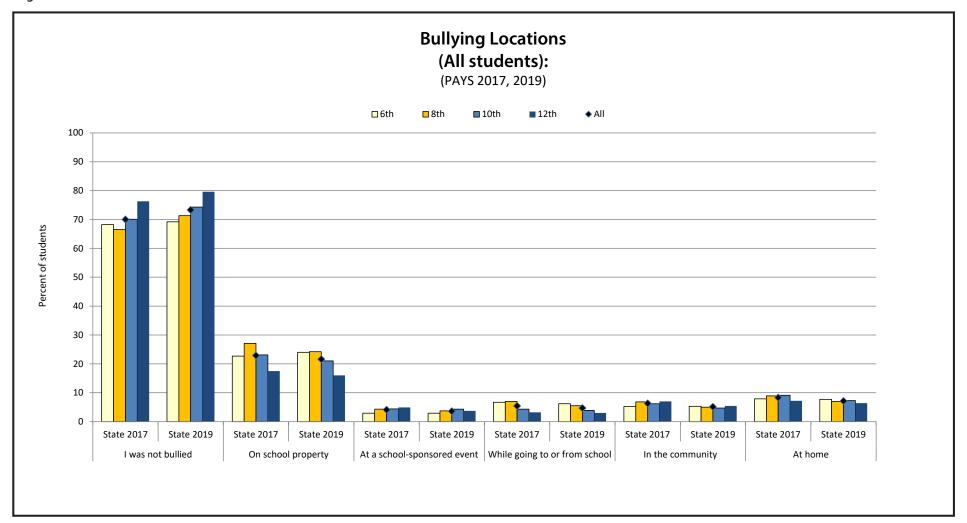
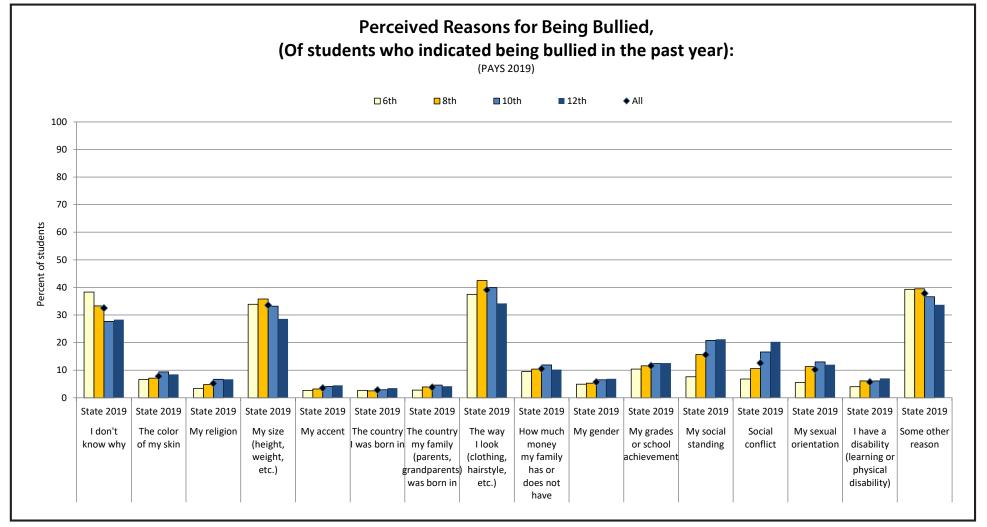


Figure 4.5-2



4.6 Gang Involvement

Gangs often serve as a sanctuary for troubled youth from troubled families. They can provide social structure where family, school, and community fail.

Gangs tend to cluster in high-crime, socially disorganized neighborhoods, where many youth are in trouble, feel unsafe, and are less attached to others in the community and where firearms are readily available.

Some of the gang-related data gathered through the 2019 PAYS are provided in Table 4.6-1 and Figure 4.6-1. In 2019, 3.8% of all students indicated that they had belonged to a gang at some point in their life, and 3.4% indicated their gang had a name.

Table 4.6-1 Gang Involvement (Lifetime)

	Bel	onged to a ga	ang	G	ang had nam	ne
Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6th	5.2	5.2	3.6	4.1	4.8	3.2
8th	5.3	6.1	4.1	4.3	5.4	3.5
10th	5.3	4.9	3.9	4.6	4.1	3.6
12th	5.1	4.2	3.6	4.6	3.7	3.3
All	5.2	5.1	3.8	4.4	4.5	3.4

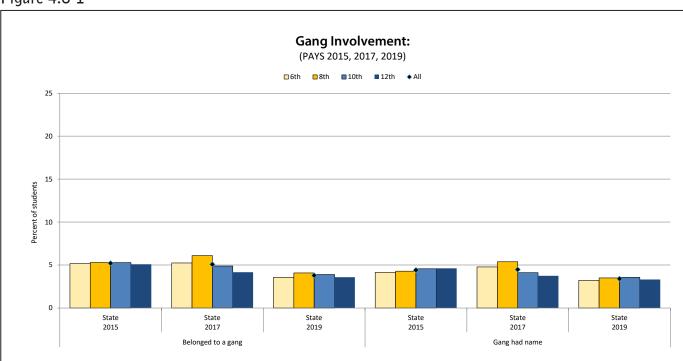


Figure 4.6-1

4.7 Gambling

Even though gambling activities are legally restricted to adults, there is clear evidence that underage youth actively participate in gambling. Despite being promoted as a harmless form of entertainment, gambling operates on the same reward pathways and the same neurotransmitters as ATOD addiction. Youth gambling is associated with alcohol and drug use, truancy, low grades, and risk-taking behavior.

About one in three students (33.7%) have gambled in their lifetime and nearly one in ten (9.3%) have gambled in the past month. Past-month gambling decreased nearly one percentage point in the 10th grade from 2017 (11.3%) to 2019 (10.4%).

The individual activities most often participated in during the past year were playing the lottery (20.2% of all students, a grade-level peak of 21.4% in the 10th grade), betting on personal games of skill (18.2% of all students, a grade-level peak of 20.3% in the 10th grade), and betting on sports (12.7% of all students, a grade-level peak of 14.0% in the 10th grade).

In response to the question "Have you ever felt the need to bet more and more money?" 4.7% of students marked "Yes." In response to the question "Have you ever felt the need to lie to important people (e.g., family/friends) about how much you gamble?" 2.8% of students responded affirmatively.

Figure 4.7-1

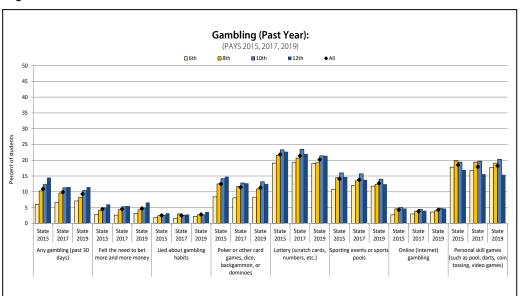


Table 4.7-1

Gambling in the Past Year

Grade	· ·	gamb lifetime	5	· ·	gamb st 30 da	5	bet	he nee more re moi	and		ed abo oling h		card o backo	er or of games, gammo ominoe	, dice, on, or		ery (scr 5, num etc.)			ng eve orts po			ne (Inte amblin		gam pool, toss	sonal s es (suc darts, ing, vi games	h as coin deo		gamble e other	
		1							State																					
	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019
6th	21.9	21.8	20.3	6.0	6.7	7.1	2.8	2.6	3.2	1.8	1.6	2.2	8.4	8.1	8.3	19.1	19.2	19.0	10.8	12.0	11.8	2.7	3.0	3.6	17.8	16.8	17.7	7.2	7.0	7.9
8th	37.2	35.8	32.5	10.3	9.6	8.2	4.1	4.3	4.3	2.4	3.0	2.7	12.5	11.7	10.9	21.6	20.7	19.2	14.5	13.5	12.4	4.6	3.9	4.0	19.8	19.4	19.1	12.2	12.6	11.2
10th	43.4	43.2	41.4	12.3	11.3	10.4	4.9	5.3	4.9	2.6	2.6	2.7	14.2	12.8	13.2	23.3	23.5	21.4	16.0	15.7	14.0	5.0	4.4	4.8	19.4	19.7	20.3	14.6	15.0	12.6
12th	43.5	41.3	39.8	14.5	11.5	11.5	6.0	5.5	6.6	3.2	2.8	3.6	14.8	12.7	12.5	22.7	22.0	21.4	14.7	13.8	12.4	4.7	4.0	4.7	16.9	15.6	15.4	13.8	11.8	12.0
All	36.8	36.0	33.7	10.9	9.9	9.3	4.5	4.5	4.7	2.5	2.5	2.8	12.5	11.4	11.3	21.8	21.4	20.2	14.1	13.8	12.7	4.3	3.8	4.3	18.5	17.9	18.2	12.1	11.8	11.0

Table 4.8-1 and Figure 4.8-1 display PAYS data gathered regarding dangerous driving behaviors involving driving after drinking and driving after the use of marijuana.

Driving under the influence of drugs and alcohol endangers everyone on the roadway. Alcohol and marijuana impair clear thinking and handeye coordination. According to the Centers for Disease Control, in 2016, 10,497 people died in alcohol-impaired driving crashes, accounting for 28% of all traffic-related deaths in the United States. Every day, 29 people in the United States die in motor vehicle crashes that involve an alcoholimpaired driver.¹ This is one death every 50 minutes.¹

PAYS data show that 1.5% of students statewide reported driving after consuming alcohol (past year), though the rate within the 12th grade population was significantly higher at 3.9% of that grade. Fewer students

reported driving after smoking marijuana in the past year in 2019 (3.0% of the total survey sample population, and 9.8% of 12th grade respondents).

Three years of data are available for driving after drinking and driving after smoking marijuana. 2019 PAYS data show that the percent of Pennsylvania students reporting driving after drinking has decreased 0.9 percentage points since 2015 (rate of 24% in 2015, 2.2% in 2017, and 1.5% in 2019) and the percent of students reporting driving after consuming marijuana has decreased 0.5 percentage points (rate of 3.5% in 2015, and 3.5% in 2017, and 3.0% in 2019). Although 12th grade rates for these two items are quite high, the rates are significantly less than in previous administrations. The 12th grade rate of drinking then driving is down 2.5 percentage points since 2015, and the 12th grade rate of driving after smoking marijuana is down 0.9 percentage points since 2015.

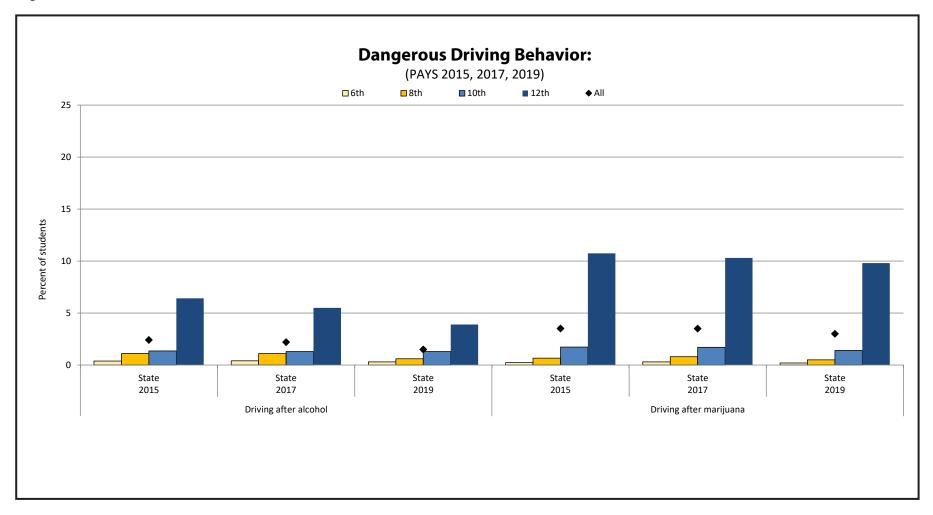
 $^{1}\ https://www.cdc.gov/motorvehiclesafety/impaired_driving/impaired-drv_factsheet.html$

Table 4.8-1

		Driving after alcohol		Driving after marijuana				
Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019		
6th	0.4	0.4	0.3	0.2	0.3	0.2		
8th	1.1	1.1	0.6	0.7	0.8	0.5		
10th	1.4	1.3	1.3	1.7	1.7	1.4		
12th	6.4	5.5	3.9	10.7	10.3	9.8		
All	2.4	2.2	1.5	3.5	3.5	3.0		

Dangerous Driving Behavior: Driving After Consuming Alcohol Or Marijuana

Figure 4.8-1



Section 5: Mental Health Data

This fifth section, **Mental Health Data**, provides information on student mental health data related to depression, trauma, and suicide ideation. Stress, anxiety, loneliness, and frustration are all emotions that can negatively impact student health, and outcomes such as suicide underscore the necessity of tracking student emotional health.

Mental Health

Important mental health habits—including coping, resilience, and good judgment—help adolescents to achieve overall wellbeing and set the stage for positive mental health in adulthood. Although mood swings are common during adolescence, approximately one in five adolescents has a diagnosable mental disorder, such as depression and/or "acting out" conditions that can include extremely defiant behavior. Friends and family can watch for warning signs of social and emotional distress and urge young people to get help. Effective treatments may include a combination of therapy and medication. Unfortunately, less than half of adolescents who need mental health services receive them.

When accompanied by a copy of the State Report Executive Summary, each subsection found in Section 5 can be considered a self-standing piece that can be distributed to researchers, prevention specialists, and other interested parties.

Mental Health Disorders

Nationwide, approximately one out of five adolescents has a diagnosable mental health disorder, and one in four shows at least mild symptoms of depression. Warning signs are not always obvious, but more common symptoms include persistent irritability, anger, or social withdrawal, as well as major changes in appetite or sleep. Mental health disorders can disrupt school performance, harm relationships, and lead to suicide (the third leading cause of death among adolescents). Ongoing stigmas regarding mental health disorders inhibit some adolescents and their families from seeking help.

Positive Mental Health: Resilience

"Resilient" adolescents are those who have managed to cope effectively, even in the face of stress and other difficult circumstances, and are poised to enter adulthood with a good chance of positive mental health. A number of factors promote resilience in adolescents—among the most important are caring relationships with adults and an easy-going disposition. Adolescents themselves can use a number of strategies, including exercising regularly, to reduce stress and promote resilience. Schools and communities are also recognizing the importance of "emotional intelligence" in adolescents' lives—a growing number of courses and community programs focus on adolescents' social-emotional learning and coping skills.

5.1 Mental Health, Stress, Trauma, Sleep, and Suicide Indicators

The PAYS questionnaire has gathered data on depressive symptoms in past survey administrations. Additionally, the 2019 PAYS also provided questions regarding suicide ideation and student traumas. The results in Tables 5.1-1 through 5.1-3, Figures 5.1-1 through 5.1-3 show findings of these questions.

A series of "Depressive Symptoms" questions are included in the survey which not only provide data for the calculation of the Depressive Symptoms risk factor scale, but which also aid in the calculation of depressive symptom ranges (for those with no/low depressive symptoms, moderate depressive symptoms, or high depressive symptoms). Those questions are as follows: "In the past 12 months, have you felt depressed or sad MOST days, even if you feel OK sometimes?" "Sometimes I think life is not worth it," "At times I think I am no good at all," and "All in all, I am inclined to think I'm a failure." These questions could be answered NO! (Definitely Not True), no (Mostly Not True), yes (Mostly True), or YES! (Definitely True). A self-harm question was included in the 2019 PAYS and the results will be reported in this subsection.

In addition to depressive symptoms questions, the percentage of participants who indicated having experienced sleep problems and/or trauma (i.e., having a close family member or friend die) are asked as well as a series of questions about suicide. These questions provide information about suicidal ideation and attempts of suicide (e.g., "Have you ever considered attempting suicide?" and "Have you ever attempted suicide?").

The following are some key findings from these mental health-related data:

• The survey data show that 38.0% of all students indicated (via responding "YES!" or "yes" to the statement) that they had felt depressed or sad most days in the past 12 months; 25.0% of all students indicated that they sometimes thought life is not worth it; 36.3% of all students indicated that "at times I think I am no good at all"; and 23.4% indicated that they felt that they were a failure. Further 14.4% of students (all grades combined) indicated harming themselves (i.e., "cutting, scraping, burning as a way to relieve difficult feelings, or to communicate emotions that may be difficult to express verbally") at least one time in the past year.

- There was a slight increase in reported rates of students thinking "I am no good at all" in the past year; an increase for all grades combined of 1.2 percentage points (35.1% in 2017 and 36.3% in 2019). The rate of students who reported "all in all, I am inclined to think I am failure" also increased for all grades combined from 20.6% in 2017 to 23.4% in 2019.
- In terms of sleep problems, 37.9% of all students indicated that slept less an 7 hours a night on an average school night, and 64.7% indicated they felt tired or sleeping during the day "every day" or "several times" during the past two weeks.
- 39.1% of students (all surveyed grades combined) indicated that they had experienced the death of a close family member or friend in the past year; 11.7% indicated having the stress of worrying that food at home would run out; and 6.2% indicated the stress of having to skip a meal due to a lack of money.
- 16.2% of students in all grades combined indicated that they had considered suicide in the past year. The grade-level rates for this question were as follows: 10.4% of 6th graders, 15.3% of 8th graders, 18.9% of 10th graders, and 19.9% of 12th graders indicated they had considered suicide in the past year. While suicide consideration decreased for 8th and 10th graders since 2017, the 6th grade rate of considering suicide significantly increased from 8.8% in 2017 to 10.4% in 2019.
- 12.9% of students in all grades combined indicated that they had gone so far as to create a suicide plan at least once in the past year. The grade-level rates for this question were as follows: 8.0% of 6th graders, 12.1% of 8th graders, 15.8% of 10th graders, and 15.4% of 12th graders indicating they had created a suicide plan.
- In regard to those students who indicated they had attempted suicide in the past year, 6.8% of 6th graders, 9.3% of 8th graders, 11.2% of 10th graders, 11.4% of 12th graders, and 9.7% of all students indicated that they had attempted suicide at least one time in the past 12 months.

See Tables 5.1-1, 5.1-2, and 5.1-3; and Figures 5.1-1, 5.1-2, and 5.1-3 for full data.

Symptoms of Depression: Percent of students marking 1 or more times

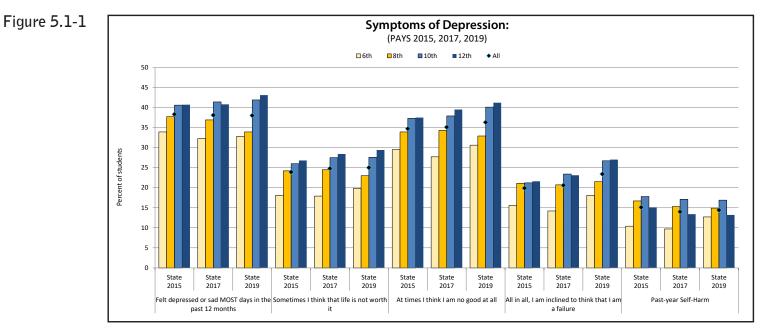
Grade	Felt depressed or sad MOST days in the past 12 months			nes I thinł not wortł		At times I think I am no good at all		All in all, I am inclined to think that I am a failure		Past-year Self-Harm					
	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6th	33.9	32.3	32.8	18.1	17.9	19.8	29.5	27.7	30.6	15.6	14.2	18.1	10.4	9.7	12.7
8th	37.7	36.9	33.9	24.2	24.5	23.0	33.9	34.3	32.9	21.1	20.7	21.5	16.7	15.3	14.9
10th	40.6	41.4	41.9	26.0	27.5	27.6	37.3	37.9	40.1	21.2	23.4	26.7	17.8	17.1	16.9
12th	40.7	40.8	43.1	26.8	28.4	29.4	37.5	39.5	41.2	21.6	23.1	27.0	15.1	13.4	13.2
All	38.3	38.1	38.0	23.9	24.8	25.0	34.7	35.1	36.3	19.9	20.6	23.4	15.1	14.0	14.4

Table 5.1-2 Suicide Risk: Percent of students marking 1 or more times

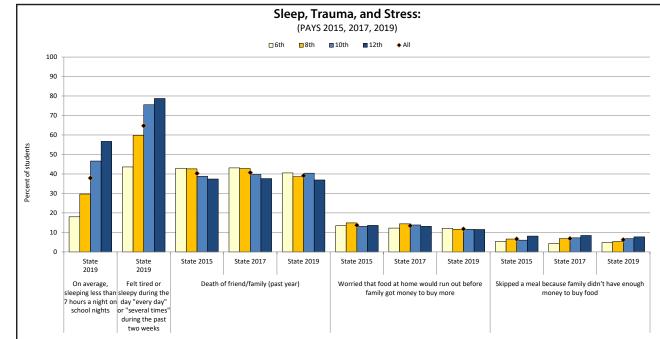
Grade	Felt so sad or hopeless for at least 2 weeks in past year that stopped doing usual activities		Cons	onsidered suicide		Planned suicide		Attempted suicide			Needed medical treatment for attempt				
	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6th	14.9	14.9	18.8	8.7	8.8	10.4	6.2	6.8	8.0	5.8	5.9	6.8	1.2	1.2	1.6
8th	20.9	21.5	21.9	15.4	16.2	15.3	12.7	13.2	12.1	10.1	10.1	9.3	2.5	2.1	2.3
10th	23.9	25.6	29.4	19.2	20.2	18.9	15.1	16.4	15.8	10.5	11.5	11.2	2.6	2.4	2.2
12th	25.4	27.9	30.6	19.5	19.9	19.9	15.8	16.2	15.4	11.2	12.0	11.4	2.6	2.2	1.9
All	21.5	22.8	25.2	16.0	16.5	16.2	12.7	13.4	12.9	9.5	10.0	9.7	2.3	2.0	2.0

Table 5.1-3Sleep Habits, Trauma, and Stress

Grade	On average, sleeping less than 7 hours a night on school nights	"coveral fimes" during the	Death of friend/family (past year)		Worried that food at home would run out before family got money to buy more			Skipped a meal because family didn't have enough money to buy food			
	State	State	State	State	State	State	State	State	State	State	State
	2019	2019	2015	2017	2019	2015	2017	2019	2015	2017	2019
6th	18.0	43.6	42.9	43.1	40.5	13.4	12.2	12.1	5.4	4.3	4.8
8th	29.7	59.8	42.6	42.8	38.6	14.9	14.4	11.6	6.6	6.8	5.3
10th	46.6	75.5	38.8	39.7	40.4	13.1	13.8	11.6	6.0	7.2	6.8
12th	56.7	78.7	37.4	37.6	36.9	13.6	13.1	11.5	8.1	8.4	7.7
All	37.9	64.7	40.3	40.7	39.1	13.7	13.4	11.7	6.6	6.8	6.2

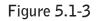


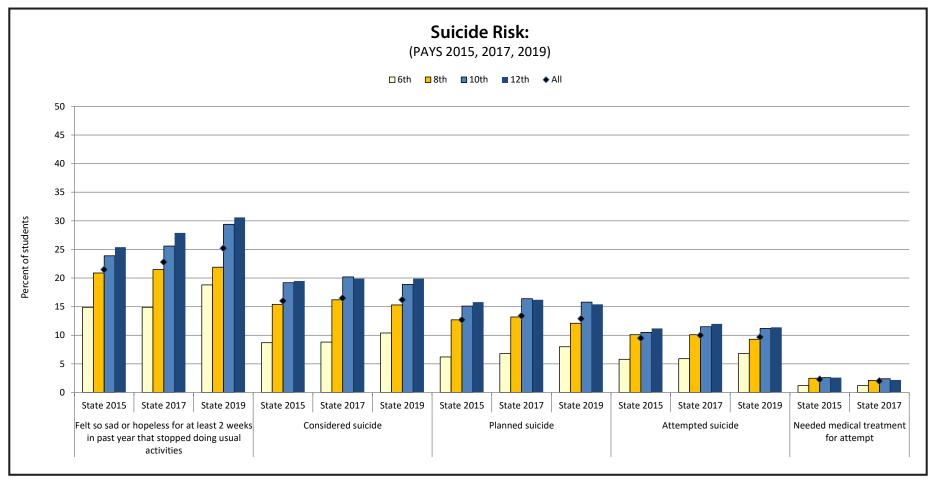




PAYS 2019

Page 5.1-3





The substance use rate of youth who reported depressive symptoms is much greater than those who have a much more positive outlook on life. The four depressive symptoms that were asked on the survey questionnaire were: 1) Sometimes I think that life is not worth it, 2) At times I think I am no good at all, 3) All in all, I am inclined to think that I am a failure, and 4) In the past year, have you felt depressed or sad MOST days, even if you felt OK sometimes? Results for these individual questions were featured in the previous subsection. The following pages take a look at that data from a different perspective — one that uses those questions to calculate the estimated percentage of students who have no/low depressive symptoms, moderate depressive symptoms, or high depressive symptoms. The questions were scored on a scale of 1 to 4 (NO!, no, yes, YES!). The survey respondents were divided into three groups. The first group was the depressed group who scored at least a mean of 3.75 on the depressive symptoms. This meant that those individuals marked "YES!" to all four items or marked "yes" to one item and "YES!" to three. The second group was the non-depressed group who marked "NO!" to all four of the items, and the third group was a middle group who comprised the remaining respondents. Of the statewide sample, 30.8% of students scored no/low on this calculated scale; 62.1% scored moderate on this scale; and 7.1% scored high. The results of the substance use among the three groups is shown in Table 5.2-1.

The results in Table 5.2-1 and Figure 5.2-1 show a strong link between youth who report depressive symptoms and ATOD use. When compared to the non-depressed group, the youth with high depressive symptoms indicate 30-day alcohol use rates that are three times higher than non-depressed students. Depressed students indicate use rates that are nine times higher for past-month cigarette use and nearly five times higher for past month marijuana use in comparison to non-depressed students.

Table 5.2-1

Depressive Symptoms and Youth Substance Use

	No/Low Depressive Symptoms	Moderate Depressive Symptoms	High Depressive Symptoms
% of students within each category	30.8	62.1	7.1
Alcohol Lifetime	26.5	46.8	64.8
Alcohol 30-Day	9.9	19.5	29.7
Marijuana Lifetime	9.1	19.5	36.0
Marijuana 30-Day	4.7	10.8	22.4
Cigarettes Lifetime	4.8	12.0	28.0
Cigarettes 30-Day	1.3	3.6	12.1



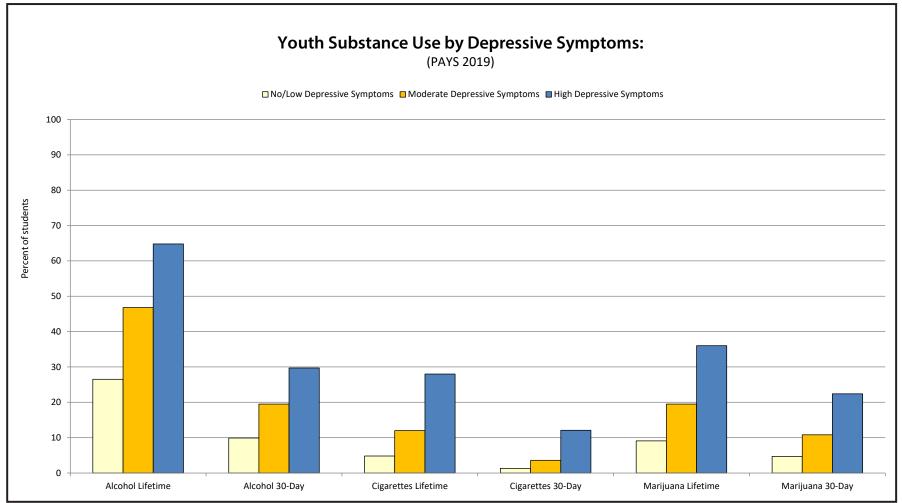


Table 5.3-1 and Figure 5.3-1 delve into the relationship between bullying and suicide/mental health issues. PAYS Survey data for two bullying measures (skipping school due to bullying fears and being cyberbullied in the past year) show a strong relationship between being bullied and suicide ideation. For example, of students who indicated they hadn't been cyberbullied in the past year, 20.6% reported that they felt so sad or hopeless almost every day for two weeks or more in a row that they stopped doing some usual activities. Of students who indicated they had been bullied in the past year, 54.0% indicated feeling so sad or hopeless almost every day for at least two weeks in past year that they stopped

doing usual activities. Of students that indicated they had been cyberbullied in the past year, 39.5% had considered suicide in the past year, 30.9% had made a suicide plan in the past year, and 28.2% had attempted suicide in the past year.

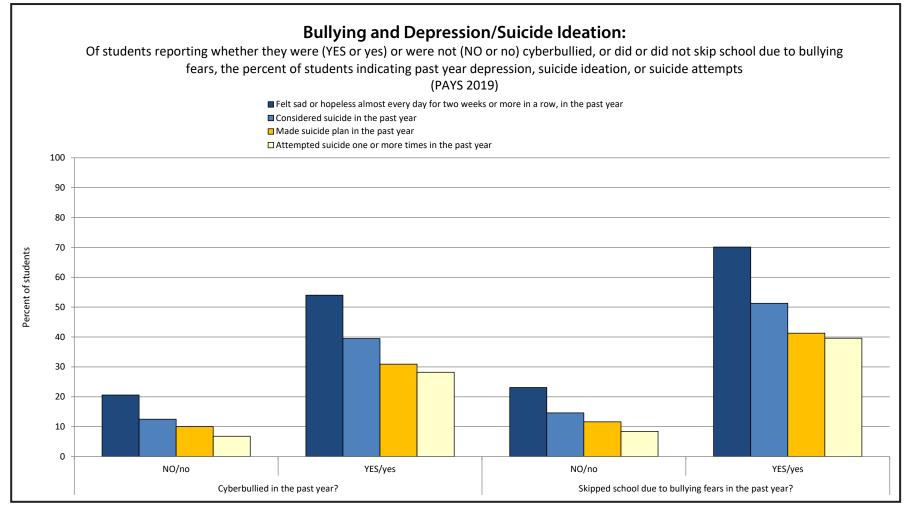
The same relationships exist for students who indicated they had skipped school due to bullying fears in the past year. Of those students, 70.1% had felt so sad or hopeless almost every day for at least two weeks in past year that they stopped doing usual activities, 51.3% had considered suicide, 41.3% had made a suicide plan, and 39.6% had attempted suicide.

Table 5.3-1

Bullying and Depression/Suicide Ideation

	Cyberbullied ir	n the past year?	Skipped school due to bullying fears in the past year?			
	NO/no	YES/yes	NO/no	YES/yes		
Felt sad or hopeless almost every day for two weeks or more in a row, in the past year	20.6	54.0	23.1	70.1		
Considered suicide in the past year	12.5	39.5	14.6	51.3		
Made suicide plan in the past year	10.0	30.9	11.6	41.3		
Attempted suicide one or more times in the past year	6.8	28.2	8.4	39.6		





Section 6: Additional Data Relationships

This final section, **Additional Data Relationships**, provides examples of how risk factors actually relate to drug and alcohol use. By looking at how factors such as level of school achievement, degree of parental acceptability of drug use, transitions and mobility, degree of peer acceptability of drug use, and perceived use by peers affect substance use, we can begin to understand how the Risk and Protective Factor Model of prevention works, and how it can be used to target the needs of schools and communities. When accompanied by a copy of the State Report Executive Summary, each subsection found in Section 6, can be considered a self-standing piece that can be distributed to researchers, prevention specialists, and other interested parties.

6.1 Parents Rules and Expectations Regarding Substance Use

PAYS provided students with the following statement "My family has clear rules about alcohol and drug use," and asked them to respond with either "NO!", "no," "yes," or "YES!". The results of the question presented in Table 6.1-1 and Figure 6.1-1 display the data from that question in relation to lifetime and past-month alcohol use.

Of the students marking "YES!" or "yes" to the statement "My family has clear rules about alcohol and drug use," 32.5% indicated they had used alcohol in their lifetime and 14.9% indicated they had used alcohol in the past month. In contrast, of students who marked "NO!" or "no" to that statement, 62.8% indicated they had used alcohol in their lifetime and 38.7% indicated they had used alcohol in their lifetime data reinforce the idea that parents must set clear rules and expectations regarding substance use.

Table 6.1-1

Alcohol Use and Parental Rules: Percent of students marking either NO!/no or YES!/yes to the statement "My family has clear rules about alcohol and drug use" who ALSO indicated using alcohol

	Used Alcohol in Lifetime	Used Alcohol in Past Month
NO! or no	62.8	38.7
YES or yes	32.5	14.9

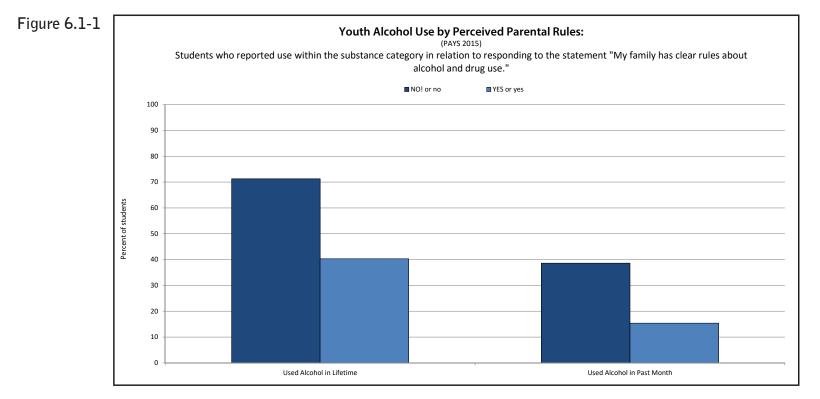


Table 6.2-1 and Figure 6.2-1 show a clear relationship between substance use and academic performance. Of the youth who report getting better grades, fewer have tried ATODs and fewer are currently using ATODs than those who report poorer grades. Failing (D or F) youth indicate past month alcohol use rates that are nearly two times higher than "A" students' alcohol use rates, past month marijuana use rates that are four times higher than the "A" students' use rates, and past month cigarette use rates that are eight times higher than the use rate of "A" students. Similar and more dramatic differences can be seen for individual drugs.

The data suggest that the youth getting A's are more invested in the education process and could be more bonded to school. The challenge of prevention programs is to develop methods of keeping all youth interested in learning and feeling attached to school. A survey of 1,000 youth on probation in Utah found that even though the probationers received poor grades and were often suspended from school, they still believed that education was important. Thus, many youth with lower grades have not given up on school and the education process, but are not able to succeed in a traditional school setting.

Table 6.2-1

Academic Grades and Youth Substance Use: Percent of students within each grade category that reported use

	Mostly A's	Mostly B's	Mostly C's	Mostly D's or F's
Alcohol Lifetime	37.6	44.7	48.2	53.3
Alcohol 30-Day	14.6	18.8	21.3	26.4
Marijuana Lifetime	12.0	20.1	28.2	36.0
Marijuana 30-Day	5.8	11.6	17.3	23.0
Cigarettes Lifetime	6.1	12.7	21.2	30.5
Cigarettes 30-Day	1.8	3.6	7.6	15.1

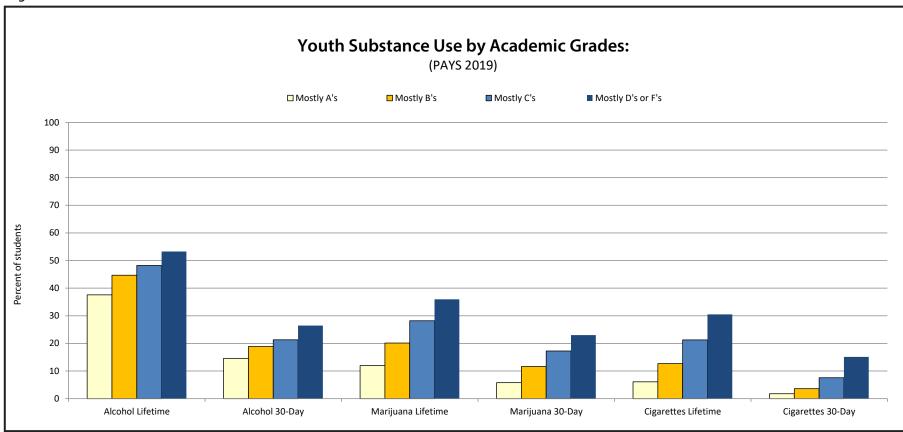


Figure 6.2-1

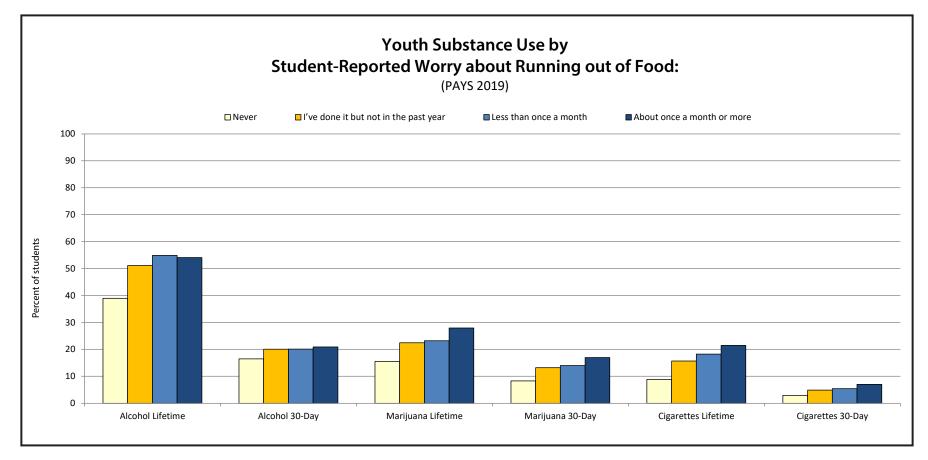
The 2019 PAYS questions asked students "How often do you worry that food at home will run out before your family gets money to buy more?" This question sheds light on the stressors that youth take on in situations of family financial distress. Looking at the responses to this question in relation to youth substance use shows a strong relationship between family financial stress and drug use, with more regular worry about food supplies corresponding with higher levels of youth drug use. For example, in Pennsylvania, of youth who said that they "never" worried about food at home, 8.3% had used marijuana in the past month. Of youth who indicated that they had worried about food before, but not in the past year, slightly more of those students indicated past-month marijuana use (13.2%). Of youth who indicated they had worried about food less than once a month, past-month marijuana use increased to 14.0%. Of youth who indicated they worried about food once a month or more, 17.0% of those youth indicated regular marijuana use. Such a trend can be seen for each substance category in Table/Figure 6.3-1.

Table 6.3-1

Socioeconomics and Youth Substance Use: Use in relation to students
responding to the question "How often do you worry that food at home will run out before your
family gets money to buy more?"

	Never	I've done it but not in the past year	Less than once a month	About once a month or more
Alcohol Lifetime	39.0	51.1	54.9	54.1
Alcohol 30-Day	16.5	20.1	20.1	20.9
Marijuana Lifetime	15.5	22.5	23.2	28.0
Marijuana 30-Day	8.3	13.2	14.0	17.0
Cigarettes Lifetime	8.8	15.7	18.3	21.5
Cigarettes 30-Day	2.9	4.9	5.4	7.0





Parents influence the attitudes and behavior of their children, including their perceptions on drug and alcohol use. For example, parental approval of moderate drinking, even under parental supervision, substantially increases the likelihood of the young person using alcohol. Further, in families where parents involve children in their own drug or alcohol behavior, there is an increased likelihood that their children will use drugs in adolescence.

Table 6.4-1 and Figure 6.4-1 illustrate that a large majority of students perceive parental disapprove of substance use. Of all students, 94.5% indicated their parents felt it was "Wrong" or "Very wrong" to use tobacco, 89.1% perceived parental disapproval of marijuana use, 89.0% perceived parental disapproval of having 1-2 drinks nearly every day use, and 94.0% perceived parental disapproval of prescription drug use.

Table 6.4-2 and Figure 6.4-2 illustrate how even a small amount of perceived parental acceptability can lead to substance use. In PAYS, students were asked how wrong their parents felt it was to use different ATODs. The table to the right displays the percentage of students who have used marijuana in their lifetime and in the past 30 days in relation to their responses about their parents' acceptance of marijuana use.

As can be seen, relatively few students (9.0% lifetime, 4.0% 30-day) use marijuana when their parents think it is "Very Wrong" to use it. In contrast, when a student believes that their parents agree with use somewhat (i.e., the parent only believes that it is "Wrong," not "Very Wrong"), use increases to 34.2% for lifetime use and 18.4% for 30-day use. Rates of use continue to increase as the perceived parental acceptability increases.

These results make a strong argument for the importance of parents having strong and clear standards and rules when it comes to ATOD use.

Table 6.4-1

Perception of Parental Disapproval: Percent Marking parents would feel it was "wrong" or "very wrong"

		Tobacco			Marijuana			Alcohol			Prescription drugs		
0	Grade	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6	öth	96.5	96.2	96.0	97.1	96.6	96.1	93.8	93.3	92.3	93.4	93.1	92.9
8	Bth	95.4	95.1	96.0	94.7	93.1	93.6	92.5	92.6	93.1	94.1	93.8	94.5
1	0th	94.5	94.8	94.9	89.4	88.4	87.3	88.9	89.5	88.5	93.3	94.1	94.2
1	2th	86.2	88.9	91.2	83.3	81.6	80.1	81.8	82.8	82.5	92.0	93.4	94.2
A	AII	93.0	93.6	94.5	90.9	89.5	89.1	89.2	89.4	89.0	93.2	93.6	94.0

Table 6.4-2

Parental Acceptability and Youth Substance Use: Use in relation to students responding to the question "How wrong do your parents feel it would be for you to smoke marijuana?"

	Marijuana Lifetime Use	Marijuana Past 30-Day Use	
	Has used in lifetime	Has used in past 30 days	
Not Wrong at All	48.1	35.8	
A Little Bit Wrong	61.3	40.3	
Wrong	34.2	18.4	
Very wrong	9.0	4.0	

Figure 6.4-1

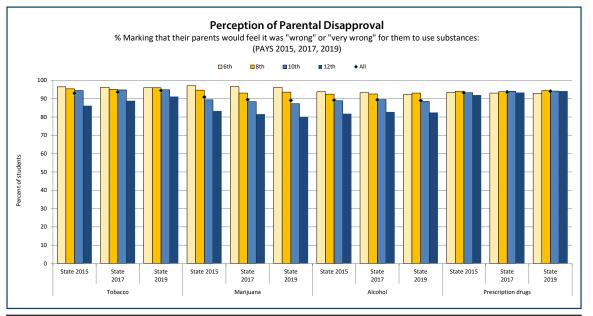
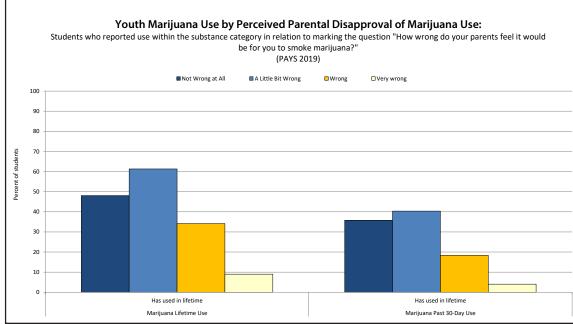


Figure 6.4-2



During the elementary school years, children usually express anti-drug, anti-crime, and pro-social attitudes. They have difficulty imagining why people use drugs, commit crimes, and drop out of school. In middle school, as others they know participate in such activities, their attitudes often shift toward greater acceptance of these behaviors. This places youth at higher risk. The results provided in the following table and figure illustrate the relation between peer acceptability and individual drug use.

As with perceived parental acceptability, the slightest perceived peer acceptability seriously increases the chance that a student will use ATODs. In this section, lifetime and 30-day marijuana use results are looked at in relation to what youth thought were their chances of being seen as cool if they used marijuana. Table 6.5-1 and Figure 6.5-1 display the results.

When youth thought there was "No or very little chance" that they would be seen as cool if they used marijuana, only 7.7% had tried marijuana in their lifetime and only 3.6% had used it in the last month. However, when youth thought that there was even a "Little chance" that they would be seen as cool, marijuana use rates were over three times higher for lifetime use (27.8%) and over four times higher for past-month use (14.9%). Youth who thought that there was a "Very good chance" they would be seen as cool were over nine times more likely to use marijuana in the past month than youth who perceive that marijuana use was not cool.

These results better illustrate how peer acceptability puts youth at risk for ATOD use, and suggests that a good way to decrease use is to get youth to decrease acceptability of drugs.

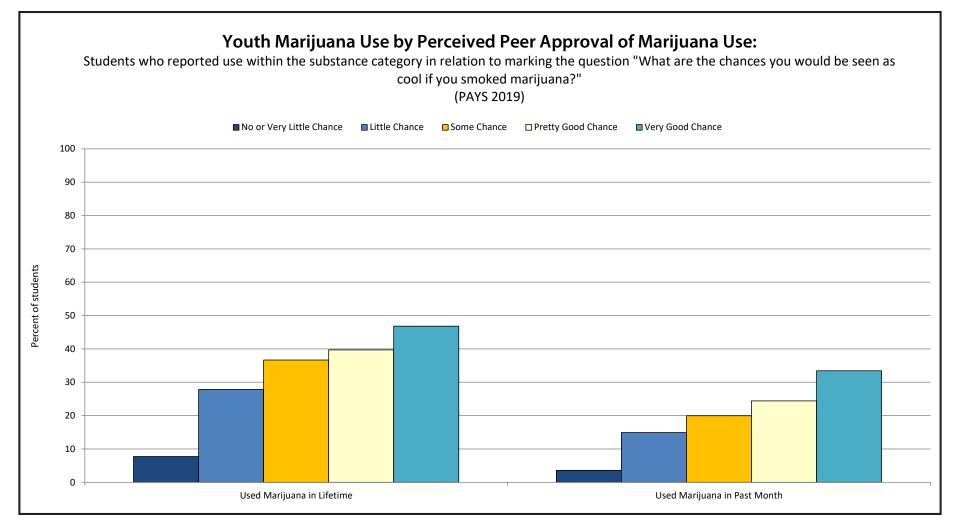
Table 6.5-1

Peer Acceptability and Youth Substance Use:

Use in relation to students responding to the question "What are the chances you would be seen as cool if you smoked marijuana?"

	Used Marijuana in Lifetime	Used Marijuana in Past Month
No or Very Little Chance	7.7	3.6
Little Chance	27.8	14.9
Some Chance	36.7	20.0
Pretty Good Chance	39.7	24.4
Very Good Chance	46.8	33.5





6.6 Transitions/Mobility and Substance Use

The 2019 PAYS asked students to report the number of times they changed homes in the past year and in the past three years. Changing homes often means losing one's friends and learning the way around a new neighborhood or school. Neighborhoods with high rates of transition are also less cohesive and stable.

The 2019 PAYS found that a majority of youth in the State had not moved in the past year or two years. Of all students, 12.1% indicated having moved one or two times in the past year, and 2.3% have moved three or more times in the past year. Also, 21.3% of students indicated they had changed homes one or two times in the past three years, and 5.0% changed homes three or more times in the past three years.

Table 6.6-2 shows students' responses to how many times they've moved in the past three years in relation to lifetime and past month substance use. The results indicate that higher transition is linked to higher substance use rates. For example, of students who indicated that they had "never" moved in the past three years, 15.3% of them had used marijuana in their lifetime, and 8.2% had used in the past month; whereas of the students who indicated they had moved 3 or more times in past three years, 27.2% had used marijuana in their lifetime, and 17.0% had used in the past month. Similar trends are seen for lifetime and past month use of all substances, with use rates gradually increasing upwards as the number of moves increases to 3 or more moves in the past three years.

Table 6.6-1 Transitions and Mobility

Grade	in in in	homes 1 o the past ye			d homes 3 in the pas		Changed homes 1 or 2 times in the past three years		es Changed home 3 or more times in the past three years		motel, ca due to lo of money	n a shelter r, campgro oss of hou y, no othe n the past	ound, etc. sing, lack r place to	guardian: kicked ou		you were y, or were		
	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019	State 2015	State 2017	State 2019
6th	15.9	16.5	15.0	4.1	3.7	4.0	23.9	25.0	24.5	6.3	6.2	6.3	5.6	5.4	5.4	3.6	3.0	3.2
8th	14.0	13.7	12.6	2.4	2.1	2.2	20.7	22.6	23.3	5.7	6.0	5.4	4.2	4.2	3.7	4.6	4.7	3.6
10th	11.6	12.5	11.5	1.8	1.8	1.5	19.2	19.3	20.3	5.0	4.9	4.6	2.5	3.3	3.2	7.1	7.0	5.7
12th	12.3	10.0	9.5	2.2	1.5	1.4	17.8	17.1	17.0	4.8	4.2	3.9	3.3	3.3	3.2	9.8	9.2	7.3
All	13.4	13.0	12.1	2.6	2.2	2.3	20.3	20.8	21.3	5.4	5.3	5.0	3.9	4.0	3.9	6.3	6.1	5.0

Table 6.6-2 Changing Homes and Youth Substance Use: Percent of students reporting changing homes in the past three years in relation to substance use

	Never	1 time	2 times	3 or more times
Alcohol Lifetime	39.3	41.1	47.5	51.7
Alcohol 30-Day	16.2	15.3	18.0	21.5
Marijuana Lifetime	15.3	17.1	23.9	27.2
Marijuana 30-Day	8.2	9.2	14.4	17.0
Cigarettes Lifetime	8.5	12.0	17.6	23.3
Cigarettes 30-Day	2.7	3.6	5.9	8.7

Figure 6.6-1

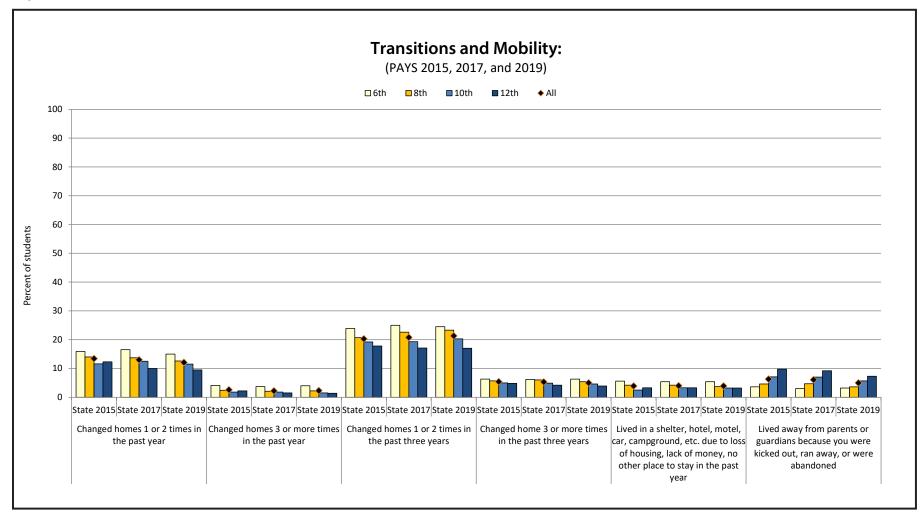
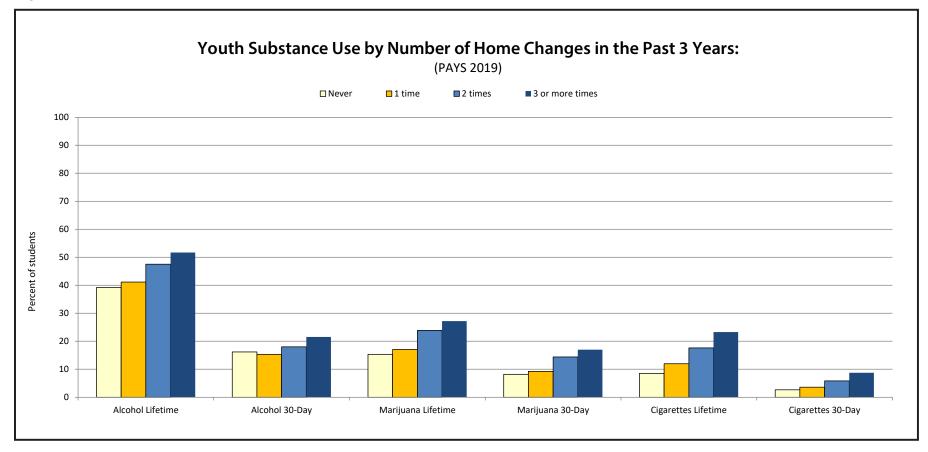


Figure 6.6-2



Appendix A: Risk and Protective Factors and Their Associated Scales*

*Please note that not all of the scales listed here are covered through the PAYS form. This Appendix represents all of the scales that are referenced through Risk and Protective Factor prevention science. PAYS is only one source of data for prevention and that some of the risk and protective factors can be measured with data from other sources. Being able to gather risk and protective factor data from other sources is important as it allows the PAYS form to be as brief as possible and also allows room on the survey form for additional questions to be asked related to other prevention strategies/projects.

<u>Protective Factor</u> Community Opportunities for Prosocial Involvement	<u>Associated Scales</u> No Scale
Community Rewards for Prosocial Involvement	Community Rewards for Prosocial Involvement
Risk Factor	Associated Scales
Low Neighborhood Attachment and Community Disorganization	Low Neighborhood Attachment Community Disorganization
Transitions & Mobility	No Scale
Laws and Norms Favorable to Drug Use, Firearms, and Crime	Laws and Norms Favorable to Drug Use
Availability of Drugs and Firearms	Perceived Availability of Drugs Perceived Availability of Handguns
Media Portrayals of Violence	No Scale
Extreme Economic Deprivation	No Scale
Protective Factor	Associated Scales
Family Attachment	Family Attachment
Family Opportunities for Positive Involvement	Family Opportunities for Positive Involvement
Femily Dewards for Desitive	Family Rewards for Positive
	Community Opportunities for Prosocial Involvement Community Rewards for Prosocial Involvement Risk Factor Low Neighborhood Attachment and Community Disorganization Transitions & Mobility Laws and Norms Favorable to Drug Use, Firearms, and Crime Availability of Drugs and Firearms Media Portrayals of Violence Extreme Economic Deprivation Protective Factor Family Attachment Family Opportunities for Positive

Family Domain Risk Factors	Risk Factor	Associated Scales
	Family Management Problems	Poor Family Management
	Family Conflict	Family Conflict
	Family Involvement in the Problem Behavior	Family History of Antisocial Behavior
	Favorable Parental Attitudes Towards The Problem Behavior	Parental Attitudes Favorable to Antisocial Behavior Parental Attitudes Favorable to Drug Use
School Domain Protective Factors	Protective Factor	Associated Scales
	School Opportunities for Prosocial Involvement	School Opportunities for Prosocial Involvement
	School Rewards for Prosocial Involvement	School Rewards for Prosocial Involvement
School Domain Risk Factors	Risk Factor	Associated Scales
School Domain Risk Factors		
	Academic Failure Beginning in Late Elementary School	Academic Failure
	Lack of Commitment to School	Low School Commitment

Individual-Peer Protective Factors	Protective Factor	Associated Scales
	Religiosity	Religiosity
	Social Skills	No Scale
	Belief in the Moral Order	Belief in the Moral Order
	Prosocial Involvement	Prosocial Involvement
	Rewards for Prosocial Involvement	Rewards for Prosocial Involvement
	Interaction with Prosocial Peers	Interaction with Prosocial Peers
Individual-Peer Risk Factors	Risk Factor	Associated Scales
	Rebelliousness	Rebelliousness
	Early and Persistent Antisocial Behavior	Early Initiation of Drug Use Early Initiation of Antisocial Behavior
	Friends Who Engage in the Problem Behavior	Interaction with Antisocial Peers Friends' Use of Drugs Rewards for Antisocial Behavior
	Favorable Attitudes Towards the Problem Behavior	Attitudes Favorable Towards Antisocial Behavior Attitudes Favorable Towards Drug Use Perceived Risks of Drug Use Intention to Use
	Early Initiative of the Problem Behavior	Early Initiative of Drug Use Early Initiative of Antisocial Behavior
	Gang Involvement	Gang Involvement
	Constitutional Factors	Sensation Seeking Depressive Symptoms

Appendix B: PAYS Results, Percentage for Each Response Category

Question	Response	%
X1 How old are you?	10	0.2
	11	18.3
	12	6.4
	13	18.6
	14	6.2
	15	18.7
	16	6.7
	17	17.8
	18	6.7
	19 or older	0.4
X2 What grade are you in?	6th	24.8
	8th	24.8
	10th	25.5
	12th	24.9
X3 Are you of Hispanic, Latino, or Spanish origin?	No, not of Hispanic, Latino, or Spanish origin	86.8
	Yes, Mexican, Mexican Am., Chicano	3.0
	Yes, Puerto Rican	5.1
	Yes, Cuban	0.4
	Yes, another Hispanic, Latino, or Spanish origin	4.7
X4a What is your race?	White, Caucasian	81.8
	Black, African American	12.6
	American Indian or Alaska Native	3.8
	Asian Indian, Japanese, Native Hawaiian, Chinese, Korean, Guamanian or Chamorro, Filipino, Vietnamese, Samoan, Other Asian, Other Pacific Islander	8.9

Question	Response	%
X5 Are you?	female	49.3
	male	50.7
X6 Think of where you live most of the time. Which	n Mother	90.9
of the following people live there with you?	Stepmother	5.3
	Foster mother	0.4
	Grandmother	9.8
	Aunt	3.0
	Father	71.0
	Stepfather	12.1
	Foster father	0.3
	Grandfather	5.6
	Uncle	3.1
	Other Adults	2.8
	Older sister(s)	24.1
	Younger sister(s)	29.9
	Older stepsister(s)	2.3
	Younger stepsister(s	2.5
	Older brother(s)	26.3
	Younger brother(s)	30.2
	Older stepbrother(s)	2.1
	Younger stepbrother(s)	2.2
	Other children	3.5
X7 What is the language you use most often at	English	91.9
home?	Spanish	4.2
	Another language	3.9

Question	Response	%
X8a How wrong do your parents feel it would be for you to: Have one or two drinks of alcoholic beverage such as beer, wine, or hard liquor	Not at all wrong	3.9
(vodka, whiskey, gin, or rum) nearly every day?	A little bit wrong	7.0
	Wrong	18.8
	Very wrong	70.2
X8b How wrong do your parents feel it would be for you to: Use prescription drugs not prescribed to	Not at all wrong	3.4
you?	A little bit wrong	2.6
	Wrong	11.3
	Very wrong	82.6
X9a On how many occasions (if any) have you: Had	0 times	59.0
beer, wine, or hard liquor in your lifetime	1-2 times	16.0
	3-5 times	8.3
	6-9 times	4.6
	10-19 times	5.2
	20-39 times	3.0
	40 or more times	3.9
X9b On how many occasions (if any) have you: Used	0 times	82.7
marijuana in your lifetime?	1-2 times	4.7
	3-5 times	2.4
	6-9 times	1.5
	10-19 times	1.9
	20-39 times	1.5
	40 or more times	5.1
X9c On how many occasions (if any) have you: Sniffed glue, breathed the contents of an aerosol spray can, or inhaled other gases or sprays in order to	l 0 times	95.1
get high in your lifetime?	1-2 times	2.8
	3-5 times	1.0
	6-9 times	0.4
	10-19 times	0.3
	20-39 times	0.1
	40 or more times	0.3

Question	Response	%
X9d On how many occasions (if any) have you: Used	0 times	99.0
cocaine in your lifetime?	1-2 times	0.6
	3-5 times	0.1
	6-9 times	0.1
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.1
X9e On how many occasions (if any) have you: Used crack in your lifetime?	0 times	99.6
	1-2 times	0.2
	3-5 times	0.1
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.1
X9f On how many occasions (if any) have you: Used heroin in your lifetime?	0 times	99.8
	1-2 times	0.1
	3-5 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.1
X9g On how many occasions (if any) have you: Used hallucinogens (acid, LSD, shrooms) in your	0 times	97.3
lifetime?	1-2 times	1.6
	3-5 times	0.6
	6-9 times	0.2
	10-19 times	0.2
	20-39 times	0.1
	40 or more times	0.1

Question	Response	%
X9h On how many occasions (if any) have you: Used methamphetamine (meth, crystal meth, crank) in	0 times	99.7
your lifetime?	1-2 times	0.2
	3-5 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
X9i On how many occasions (if any) have you: Used	0 times	98.9
Ecstasy in your lifetime?	1-2 times	0.7
	3-5 times	0.2
	6-9 times	0.1
	10-19 times	0.1
	20-39 times	0.0
	40 or more times	0.0
X9j On how many occasions (if any) have you: Used metaclorazoles (such as Magenta Zip, Czoles) in	0 times	100.0
your lifetime?	1-2 times	0.0
	3-5 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
X9k On how many occasions (if any) have you: Taken performance enhancing drugs (such as steroids, human growth hormone) without a doctor telling		99.2
you to take them in your lifetime?	1-2 times	0.4
	3-5 times	0.1
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.1

Question	Response	%
X9I On how many occasions (if any) have you: Used prescription pain relievers (such as Vicodin, OxyContin, Percocet, or Tylox) without a doctor's	0 times	95.
orders, in your lifetime?	1-2 times	2
	3-5 times	0.
	6-9 times	0.
	10-19 times	0.
	20-39 times	0.
	40 or more times	0.
X9m On how many occasions (if any) have you: Used prescription tranquilizers (such as Ambien, Lunesta, Valium, or Xanax) without a doctor's	0 times	98.
orders, in your lifetime?	1-2 times	1.
	3-5 times	0.
	6-9 times	0.
	10-19 times	0.
	20-39 times	0.
	40 or more times	0.
X9n On how many occasions (if any) have you: Used prescription stimulants (such as Ritalin or Adderall) without a doctor's orders, in your	0 times	97.
lifetime?	1-2 times	1.
	3-5 times	0.
	6-9 times	0.
	10-19 times	0.
	20-39 times	0.
	40 or more times	0.
X9o On how many occasions (if any) have you: Used synthetic drugs (man-made drugs such as Bath	0 times	98.
Salts, K2, Spice, Mr. Smiley, Blaze) in your lifetime	e? 1-2 times	0.
	3-5 times	0.
	6-9 times	0.
	10-19 times	0.
	20-39 times	0.
	40 or more times	0.

mes	
	96.1
times	1.9
times	0.9
times	0.4
19 times	0.3
39 times	0.2
or more times	0.3
imes	83.2
times	10.4
times	3.6
times	1.5
19 times	0.9
39 times	0.2
or more times	0.2
imes	90.4
times	3.6
times	1.8
times	0.9
19 times	1.0
39 times	0.9
or more times	1.4
mes	98.6
times	1.0
times	0.3
times	0.1
19 times	0.0
39 times	0.0
or more times	0.1
	times times itimes 9 times 9 times 9 times r more times times times 9 times 9 times r more times times times times times times times times 9 times r more times 9 times 9 times 9 times 9 times 9 times 19 times 1

Question	Response	%
X10d On how many occasions (if any) have you: Used cocaine during the past 30 days?	0 times	99.8
	1-2 times	0.2
	3-5 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
X10e On how many occasions (if any) have you: Used	0 times	99.9
crack during the past 30 days?	1-2 times	0.1
	3-5 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	40 or more times	0.0
X10f On how many occasions (if any) have you: Used	0 times	100.0
heroin during the past 30 days?	1-2 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
V10c On how money accessions (if any) how your Used	0 times	99.3
X10g On how many occasions (if any) have you: Used hallucinogens (acid, LSD, shrooms) during the pas		55.5
30 days?	1-2 times	0.5
	3-5 times	0.1
	6-9 times	0.0
	10-19 times	0.0
	40 or more times	0.0
X10h On how many occasions (if any) have you: Used methamphetamine (meth, crystal meth, crank)	0 times	99.9
during the past 30 days?	1-2 times	0.0
	3-5 times	0.0
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0

Question	Response	%	
X10i On how many occasions (if any) have you: Used	0 times	99.8	X10
Ecstasy or Molly during the past 30 days?	1-2 times	0.2	
	3-5 times	0.0	
	6-9 times	0.0	
	10-19 times	0.0	
	20-39 times	0.0	
X10j On how many occasions (if any) have you: Used metaclorazoles (such as Magenta Zip, Czoles)	0 times	100.0	
during the past 30 days?	1-2 times	0.0	V10
	3-5 times	0.0	X10
	6-9 times	0.0	
	10-19 times	0.0	
	20-39 times	0.0	
	40 or more times	0.0	
X10k On how many occasions (if any) have you: Taken performance enhancing drugs (such as steroids, human growth hormone) without a doctor's orders during the past 30 days?	0 times	99.8	
	1-2 times	0.1	X10
	3-5 times	0.1	
	6-9 times	0.0	
	10-19 times	0.0	
	20-39 times	0.0	
	40 or more times	0.0	
X10l On how many occasions (if any) have you: Used prescription pain relievers (such as Vicodin, OxyContin, Percocet, or Codeine) without a	0 times	98.9	
doctor's orders, during the past 30 days?	1-2 times	0.8	
	3-5 times	0.2	X10
	6-9 times	0.0	
	10-19 times	0.0	
	20-39 times	0.0	
	40 or more times	0.0	

Question	Response	%
X10m On how many occasions (if any) have you: Used prescription tranquilizers (such as Ambien, Lunesta, Valium, or Xanax) without a doctor's	0 times	99.5
orders, during the past 30 days?	1-2 times	0.4
	3-5 times	0.1
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
X10n On how many occasions (if any) have you: Used prescription stimulants (such as Ritalin or Adderall) without a doctor's orders, during the	0 times	99.2
past 30 days?	1-2 times	0.5
	3-5 times	0.2
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
X10o On how many occasions (if any) have you used synthetic drugs (man-made drugs such as Bath Salts, K2, Spice, Mr. Smiley, Blaze) during the past	0 times	99.5
30 days?	1-2 times	0.3
	3-5 times	0.1
	6-9 times	0.0
	10-19 times	0.0
	20-39 times	0.0
	40 or more times	0.0
X10p On how many occasions (if any) have you: Used over-the- counter medicine (cough syrup, cold medicine, etc.) in order to get high? in your	0 times	98.7
lifetime?	1-2 times	0.9
	3-5 times	0.2
	6-9 times	0.1
	10-19 times	0.1
	20-39 times	0.0
	40 or more times	0.0

Question	Response	%
X11 Have you ever smoked cigarettes?	Never	89.2
	Once or twice	6.4
	Once in a while but not regularly	2.6
	Regularly in the past	1.2
	Regularly now	0.7
How frequently have you smoked cigarettes during the past 30 days?	Never	96.5
K12	Once or twice	2.1
	Once or twice per week	0.5
	About once a day	0.2
	More than once a day	0.6
K13 Have you ever used smokeless tobacco (chew,		94.5
snuff, plug, dipping tobacco, or chewing tobac	co)? Once or twice	3.1
	Once in a while but not regularly	1.3
	Regularly in the past	0.5
	Regularly now	0.5
X14 How frequently have you used smokeless toba	acco Never	97.9
during the past 30 days?	Once or twice	1.1
	Once or twice per week	0.3
	About once a day	0.2
	More than once a day	0.4
X15 How frequently have you used an electronic va product such as: JUUL, Vuse, MarkTen, and blu or other e-cigarettes vapes vape pens e-cigars e-hookahs, hookah pens and mods during the	1	81.0
30 days?	Once or twice	9.2
	Once or twice per week	2.9
	About once a day	1.5
	More than once a day	5.4

Question	Response	%
X16 If you used an electronic vapor product such as e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods during the past 12 months, with which substances did you	l did not vape	76.3
use it?	Just flavoring	11.2
	Nicotine	14.2
	Marijuana or hash oil	6.7
	Other substances	0.5
	l don't know	3.2
X17 If you wanted to get prescription drugs not prescribed to you, how easy would it be for you	Very hard	55.7
to get some?	Sort of hard	20.3
	Sort of easy	15.1
	Very easy	8.8
(18a How do you feel about someone your age having one or two drinks of an alcoholic beverage (beer,	Strongly disapprove	58.8
wine, hard liquor) nearly every day?	Somewhat disapprove	16.1
	Neither approve or disapprove	16.2
	Approve	2.5
	Don't know/ Can't say	6.4
(18b How do you feel about someone your age	Strongly disapprove	81.5
smoking one or more packs of cigarettes a day?	Somewhat disapprove	7.4
	Neither approve or disapprove	6.5
	Approve	0.6
	Don't know/ Can't say	4.0
K18c How do you feel about someone your age using	Strongly disapprove	56.4
marijuana once a month or more?	Somewhat disapprove	10.8
	Neither approve or disapprove	18.1
	Approve	9.8
	Don't know/ Can't say	5.0
(18d How do you feel about someone your age using	Strongly disapprove	75.8
prescription drugs not prescribed to them?	Somewhat disapprove	11.5
	Neither approve or disapprove	7.5
	Approve	0.6

Question	Response	%	
X19 How many times have you had five or more alcoholic drinks in a row?	None	92.6	A3
	Once	3.8	
	Twice	1.9	
	3-5 times	1.2	
	6-9 times	0.3	
	10 or more times	0.4	
			A4
X20a How willing are you to try the drugs listed below before you are 21? These are not questions about current or past use of these drugs. ALCOHOL (beer, wine, coolers, hard liquor such as vodka,		43.3	
whiskey, gin, or rum)	I probably wouldn't try it	15.1	
	I'm not sure whether or not I would try it	17.1	
	l would like to try it	16.8	A5
	, I would use it any chance I got	7.6	
X20b How willing are you to try the drugs listed below before you are 21? These are not questions about current or past use of these drugs. MARIJUANA		65.0	
(pot, hash, cannabis, weed)	I probably wouldn't try it	9.7	
	I'm not sure whether or not I would try it	9.4	A6a
	l would like to try it	8.8	
	I would use it any chance I got	7.0	
A1 During the last four weeks, how many whole days of school have you missed because you skipped	None	82.8	
or cut?	1 day	9.1	A6b
	2 days	3.6	
	3 days	2.1	
	4 to 5 days	1.5	
	6 to 10 days	0.5	
	11 or more days	0.4	
			A6c
A2 How important do you think the things you are learning in school are going to be for your later	Very important	28.5	
life?	Quite important	21.6	
	Fairly important	24.9	
	Slightly important	18.5	
	Not at all important	6.6	

Question	Response	%
A3 How interesting are most of your courses to you?	Very interesting and stimulating	14.4
	Quite interesting	25.9
	Fairly interesting	33.3
	Slightly Dull	16.5
	Very Dull	10.0
A4 Putting them all together, what were your grades	Mostly A's	51.0
like last year?	Mostly B's	34.9
	Mostly C's	10.8
	Mostly D's	2.4
	Mostly F's	0.9
A5 How often do you feel that the school work you	Never	11.7
are assigned is meaningful and important?	Seldom	16.7
	Sometimes	35.7
	Often	21.4
	Almost Always	14.5
A6a Now thinking back over the past year in school,	Never	12.9
how often did you enjoy being in school?	Seldom	12.8
	Sometimes	35.7
	Often	25.7
	Almost Always	12.9
A6b Now thinking back over the past year in school,	Never	12.8
how often did you hate being in school?	Seldom	18.5
	Sometimes	34.0
	Often	20.5
	Almost Always	14.2
A6c Now thinking back over the past year in school, how often did you try to do best work in school?	Never	2.5
	Seldom	3.4
	Sometimes	14.2
	Often	29.6
	Almost Always	50.3

Question	Response	%	Question	Response	%
A7 Are most of your school grades better than the	NO!	7.1	A14 I feel safe at my school	NO!	6.3
grades of most students in your class?	no	27.2		no	13.7
	yes	48.9		yes	51.5
	YES!	16.9		YES!	28.5
A8 Teachers ask me to work on special classroom	NO!	17.8	A15 The school lets my parents know when I have	NO!	20.5
projects	no	48.8	done something well	no	40.8
	yes	25.8		yes	27.4
	YES!	7.6		YES!	11.3
A9 There are lots of chances for students in my	NO!	6.6	A16 My teachers praise me when I work hard in schoo	ol NO!	13.9
school to talk one-on-one with a teacher	no	17.2		no	36.5
	yes	49.6		yes	37.5
	YES!	26.7		YES!	12.1
A10 I have lots of chances to be part of class discussions or activities	NO!	4.3	A17 My neighbors notice when I am doing a good job and let me know	NO!	39.0
discussions of activities	no	10.1		no	40.1
	yes	54.2		yes	15.4
	YES!	31.4		YES!	5.6
A11 In my school, students have lots of chances to help decide things like class activities and rules	NO!	13.6	A18 There are people in my neighborhood who are proud of me when I do something well	NO!	31.9
	no	34.7	produ of the when the something wen	no	32.6
	yes	38.5		yes	26.9
	YES!	13.2		YES!	8.5
A12 There are lots of chances for students in my school to get involved in sports, clubs, and other	NO!	3.5	A19 There are people in my neighborhood who encourage me to do my best	NO!	27.6
school activities outside of class	no	5.1		no	27.9
	yes	39.9		yes	32.2
	YES!	51.5		YES!	12.3
A13 My teacher(s) notices when I am doing a good jo	bbNO!	8.7	A20 I like my neighborhood	NO!	8.4
and lets me know about it	no	26.2		no	13.6
	yes	46.8		yes	48.6
	YES!	18.3		YES!	29.4

Question	Response	%	Question
A21 I'd like to get out of my neighborhood	NO!	35.8	A24b If you wanted to
	no	35.8	would it be for y
	yes	17.9	
	YES!	10.4	
A22 If I had to move, I would miss the neighborhood I now live in	NO!	11.0	A24c If you wanted to
	no	19.4	be for you to ge
	yes	36.3	
	YES!	33.3	
A23a How wrong do your friends feel it would be for YOU to have one or two drinks of an alcoholic	Not Wrong at All	10.7	A24d If you wanted to
beverage nearly every day?	A Little Bit Wrong	14.7	amphetamines, get some?
	Wrong	22.9	
	Very wrong	51.7	
		510	
A23b How wrong do your friends feel it would be for	Not Wrong at All	10.0	A24e If you wanted to
YOU to use tobacco?	A Little Bit Wrong	10.0	would it be for
	Wrong	19.6	
	Very wrong	60.3	
A23c How wrong do your friends feel it would be for YOU to use marijuana?	Not Wrong at All	18.3	A25 If a kid drank so
	A Little Bit Wrong	13.4	example, vodka, neighborhood, v
	Wrong	15.0	police?
	Very wrong	53.4	
A23d How wrong do your friends feel it would be for YOU to use prescription drugs not prescribed to	Not Wrong at All	6.4	
you?	A Little Bit Wrong	6.6	A26 If a kid smoked would he or she
	Wrong	17.7	would lie of site
	Very wrong	69.4	
A24a How easy would it be for you to get any, if you wanted to get any, beer, wine, or hard liquor (fo	Very hard	41.6	A27a How wrong wou
example, vodka, whiskey, gin, or rum)?	Sort of hard	17.7	neighborhood ti drink alcohol?
	Sort of easy	20.5	
	Very easy	20.2	

Question	Response	%
A24b If you wanted to get any cigarettes, how easy would it be for you to get some?	Very hard	57.7
 A24b If you wanted to get any cigarettes, how easy would it be for you to get some? A24c If you wanted to get a handgun, how easy would be for you to get one? A24d If you wanted to get a drug like cocaine, LSD, or amphetamines, how easy would it be for you to get some? A24e If you wanted to get any marijuana, how easy would it be for you to get some? A24e If you wanted to get any marijuana, how easy would it be for you to get some? A24e If you wanted to get any marijuana, how easy would it be for you to get some? A24e If you wanted to get any marijuana, how easy would it be for you to get some? A25 If a kid drank some beer, wine, or hard liquor (for example, vodka, whiskey, gin, or rum) in your neighborhood, would he or she be caught by the police? A26 If a kid smoked marijuana in your neighborhood, would he or she be caught by the police? A26 If a kid smoked marijuana in your neighborhood, would he or she be caught by the police? A26 If a kid smoked marijuana in your neighborhood, would he or she be caught by the police? 	Sort of hard	13.9
	Sort of easy	12.1
	Very easy	16.3
		75.1
	Sort of hard	12.1
	Sort of easy	6.4
	Very easy	6.5
A24d If you wanted to get a drug like cocaine, LSD, or	Very hard	80.5
-	Sort of hard	9.9
	Sort of easy	5.1
	Very easy	4.5
A24e If you wanted to get any marijuana, how easy would it be for you to get some?	Very hard	60.3
, ,	Sort of hard	10.5
	Sort of easy	11.1
	Very easy	18.1
neighborhood, would he or she be caught by the	NO!	18.5
police?	no	45.1
	yes	23.4
	YES!	13.0
A26 If a kid smoked marijuana in your neighborhood,	NO!	18.4
would he or she be caught by the police?	no	39.9
	yes	25.3
	YES!	16.4
A27a How wrong would most adults (over 21) in your neighborhood think it was for kids your age to	Not Wrong at All	5.3
drink alcohol?	A Little Bit Wrong	13.7
	Wrong	29.2
	Very wrong	51.7

Question	Response	%	Question	Response
A27b How wrong would most adults (over 21) in your neighborhood think it was for kids your age to	Not Wrong at All	4.9	B1 My parents ask me what I think before most family decisions affecting me are made	NO!
smoke cigarettes?	A Little Bit Wrong	7.4		no
	Wrong	24.7		yes
	Very wrong	63.0		YES!
127c How wrong would most adults (over 21) in your neighborhood think it was for kids your age to us		5.6	B2 If I had a personal problem, I could ask my mom or dad for help	NO! no
marijuana?	A Little Bit Wrong	8.9		yes
	Wrong	21.9		YES!
	Very wrong	63.6		
			B3 My parents give me lots of chances to do fun	NO!
28a Have you ever belonged to a gang?	Yes	3.8	things with them	no
	No	96.2		yes
				YES!
28b If you have ever belonged to a gang, did that gang	g Yes	3.4		
have a name?	No	7.9	B4 My parents notice when I am doing a good job and let me know about it	Never or Almost Never
	I have never belonged to a gang	88.7		Sometimes
				Often
A29 How old were you when you first belonged to a	Never	96.2		All the time
gang?	10 or younger	1.2		
	11	0.7	B5 How often do your parents tell you they're proud	Never or Almost Never
	12	0.6	of you for something you've done?	Sometimes
	13	0.5		Often
	14	0.3		All the time
	15	0.3		
	16	0.2	B6a Do you feel very close to your mother?	NO!
	17 or Older	0.1		no
				yes
A30 In the past 12 months, how many of your best	None	92.4		YES!
friends have been a member of a gang?	1	3.4		
	2	1.6	B6b Do you feel very close to your father?	NO!
	3	0.7		no
	4	1.0		Noc
	4	1.9		yes

% 12.0 22.6 43.1 22.3

7.7 10.7 37.8 43.7

6.1 13.3 40.1 40.5

9.0 27.1 30.6 33.3

10.2 25.6 31.0 33.2

5.3 8.4 27.2 59.0

11.6 13.5 29.2 45.7

Question	Response	%	Question	Response	%
B7a Do you share your thoughts and feelings with yo	urNO!	9.7	B12 Would your parents know if you did not come	NO!	3.7
mother?	no	19.3	home on time?	no	10.8
	yes	34.0		yes	34.8
	YES!	37.0		YES!	50.7
					500
B7b Do you share your thoughts and feelings with yo	urNO!	17.5	B13 The rules in my family are clear.	NO!	3.3
father?	no	27.1		no	9.7
	yes	31.2		yes	40.3
	YES!	24.2		YES!	46.7
				. 20.	
B8a Do you enjoy spending time with your mother?	NO!	3.9	B14 If you carried a handgun without your parents'	NO!	4.3
	no	5.0	permission, would you be caught by them?	no	7.3
	yes	33.7		yes	20.1
	YES!	57.4		YES!	68.3
				. 20.	0010
B8b Do you enjoy spending time with your father?	NO!	8.7	B15 People in my family often insult or yell at each other.	NO!	28.3
	no	7.0		no	39.0
	yes	32.8		yes	21.2
	YES!	51.5		YES!	11.6
				. 20.	110
B9 When I am not at home, one of my parents know	ws NO!	2.6	B16 We argue about the same things in my family ov and over.	ver NOI	26.3
where I am and who I am with.	no	4.9		no	35.4
	yes	35.0		yes	26.2
	YES!	57.6		YES!	12.1
				. 20.	
B10 If you skipped school, would you be caught by	NO!	4.0	B17 People in my family have serious arguments.	NO!	34.7
your parents?	no	7.4		no	37.2
	yes	28.4		yes	18.1
	YES!	60.2		YES!	10.1
					10.0
B11 My parents ask if I've gotten my homework done	e. NO!	6.1	B18 If you drank some beer, wine, or hard liquor	NO!	8.6
	no	13.3	(such as vodka, whiskey, gin, or rum) without		0.0
	yes	33.0	your parents' permission, would you be caught by them?	20	20.2
	YES!	47.6		no	
				yes	23.2
				YES!	48.1

Question	Response	%
B19 My family has clear rules about alcohol and drug		3.9
use.	no	9.2
	yes	28.1
	YES!	58.8
B20a About how many adults (over 21) have you know personally who in the past year have: Gotten	n None	45.9
drunk or high?	1	12.8
	2	11.2
	3 or 4	11.8
	5 or more	18.4
B20b About how many adults (over 21) have you known personally who in the past year have: Use	None d	74.3
marijuana, crack, cocaine, or other drugs?	1	9.4
	2	5.7
	3 or 4	4.5
	5 or more	6.1
B20c About how many adults (over 21) have you know personally who in the past year have: Sold or dea		88.0
drugs?	1	5.2
	2	2.5
	3 or 4	1.8
	5 or more	2.5
B20d About how many adults (over 21) have you know personally who in the past year have: Done other things that could get them in trouble with the		86.9
police, like stealing, selling stolen goods, mugging or assaulting others, etc.?	1	6.0
	2	2.7
	2 3 or 4	1.8
	5 or more	2.6
		2.0

Question	Response	%
B21a How many of your brothers or sisters ever: Drank beer, wine or hard liquor (for example, vodka,	I don't have any	16.0
whiskey or gin)?	None	61.2
	1	13.6
	2	5.5
	3 or 4	2.3
	5 or more	1.3
B21b How many of your brothers or sisters ever:	I don't have any	17.0
Smoked cigarettes?	None	69.8
	1	8.7
	2	2.7
	3 or 4	1.0
	5 or more	0.8
21c How many of your brothers or sisters ever: Smoked marijuana?	I don't have any	17.0
	None	66.7
	1	10.1
	2	3.7
	3 or 4	1.5
	5 or more	1.0
B21d How many of your brothers or sisters ever: Took a	a I don't have any	17.9
handgun to school?	None	81.6
	1	0.3
	2	0.1
	3 or 4	0.1
	5 or more	0.2
B21e How many of your brothers or sisters ever: Been	I don't have any	16.0
suspended or expelled from school?	None	68.5
	1	11.1
	2	2.7
	3 or 4	1.1
	5 or more	0.6
		0.0

Question	Response	%
R22 Has anyone in your family ever had a severe	Yes	27.7
alcohol or drug problem?	No	72.3
		72.5
B23a How wrong do your parents feel it would be for	Not Wrong at All	4.5
you to: Pick a fight with someone?	A Little Bit Wrong	18.8
	Wrong	34.9
	Very wrong	41.8
	,	
B23b How wrong do your parents feel it would be for	Not Wrong at All	2.9
you to: Steal anything worth more than \$5	A Little Bit Wrong	4.0
	Wrong	24.1
	Very wrong	69.0
B23c How wrong do your parents feel it would be for	Not Wrong at All	3.3
 B22 Has anyone in your family ever had a severe alcohol or drug problem? B23a How wrong do your parents feel it would be for you to: Pick a fight with someone? B23b How wrong do your parents feel it would be for you to: Steal anything worth more than \$5 B23c How wrong do your parents feel it would be for you to: Draw graffiti, or write things or draw pictures on buildings or other property (without the owner's permission)? 		
	A Little Bit Wrong	4.9
	Wrong	22.1
	Very wrong	69.7
B23d How wrong do your parents feel it would be	Not Wrong at All	3.8
	A Little Bit Wrong	6.6
	Wrong	18.4
	Very wrong	71.2
	Not Wrong at All	3.2
	A Little Bit Wrong	2.3
	Wrong	12.4
	Very wrong	82.1
R73f How wrong do your parents feel it would be for	Not Wrong at All	4.9
	A Little Bit Wrong	6.0
	Wrong	13.6
	Very wrong	75.5
	,	, 5.5

Question	Response	%
B24a How many times have you? Worried that food at home would run out before your family got	Never	78.3
money to buy more?	I've done it, but not in the past year	10.0
	Less than once a month	4.3
	About once a month	2.9
	2 or 3 times a month	2.2
	Once a week or more	2.3
B24b How many times have you? Skipped a meal because your family didn't have enough money	Never	88.4
to buy food?	I've done it, but not in the past year	5.4
	Less than once a month	2.3
	About once a month	1.3
	2 or 3 times a month	1.2
	Once a week or more	1.4
C1 I like to see how much I can get away with.	Very false	55.8
	Somewhat false	23.8
	Somewhat true	16.5
	Very true	3.9
C2 I ignore the rules that get in my way.	Very false	60.7
ez righore the fulls that get in my way.	Somewhat false	24.1
	Somewhat true	12.3
	Very true	2.9
C3 I do the opposite of what people tell me, just to get them mad.	Very false	66.7
Set them much	Somewhat false	21.0
	Somewhat true	10.0
	Very true	2.3
C4 In the past 12 months, have you felt depressed or	NO!	37.5
sad MOST days, even if you felt OK sometimes?	no	24.5
	yes	24.1
	YES!	13.9

Question	Response	%
C5 Sometimes I think that life is not worth it.	NO!	53.2
	no	21.8
	yes	17.1
	YES!	7.9
C6 At times, I think I am no good at all.	NO!	42.0
	no	21.7
	yes	25.2
	YES!	11.2
C7 All in all, I am inclined to think that I am a failure.	NO!	50.3
	no	26.3
	yes	15.0
	YES!	8.4
C8a How much do you think people risk harming themselves if they take one or two drinks of an	No risk	13.6
alcoholic beverage (beer, wine, hard liquor) nearly every day?	y	
every day!	Slight risk	19.0
	Moderate risk	30.3
	Great risk	37.1
C8b How much do you think people risk harming themselves if they take five or more drinks of an	No risk	12.8
alcoholic beverage (beer, wine, hard liquor) once or twice a week?		
of twice a week:	Slight risk	15.6
	Moderate risk	31.1
	Great risk	40.5
C8c How much do you think people risk harming themselves if they smoke one or more packs of	No risk	11.8
cigarettes per day?	Slight risk	8.0
	Moderate risk	17.4
	Great risk	62.8
C8d How much do you think people risk harming	No risk	32.9
themselves if they try marijuana once or twice?	Slight risk	24.7
	Moderate risk	17.0
	Great risk	25.4

Question	Response	%
C8e How much do you think people risk harming themselves if they use marijuana once or twice	No risk	23.2
a week?	Slight risk	19.0
	Moderate risk	23.9
	Great risk	34.0
C8f How much do you think people risk harming	No risk	18.5
themselves if they use marijuana regularly?	Slight risk	12.3
	Moderate risk	17.5
	Great risk	51.6
C8g How much do you think people risk harming themselves if they use prescription drugs that are	No risk	10.4
not prescribed to them?	Slight risk	6.7
	Moderate risk	20.4
	Great risk	62.6
C9 How often do you attend religious services or	Never	32.8
activities?	Rarely	30.2
	1-2 times a month	14.2
	Once a week or more	22.8
C10a How wrong do you think it is for someone your age to stay away from school all day when their	Not Wrong at All	4.6
parents think they are at school?	A Little Bit Wrong	15.1
	Wrong	32.7
	Very wrong	47.6
C10b How wrong do you think it is for someone your	Not Wrong at All	2.7
age to take a handgun to school?	A Little Bit Wrong	0.8
	Wrong	4.1
	Very wrong	92.4
C10c How wrong do you think it is for someone your	Not Wrong at All	3.6
age to steal anything worth more than \$5?	A Little Bit Wrong	10.6
	Wrong	31.2
	Very wrong	54.6

Question	Response	%
C10d How wrong do you think it is for someone your	Not Wrong at All	6.0
age to pick a fight with someone?	A Little Bit Wrong	19.3
	Wrong	34.1
	Very wrong	40.7
C10e How wrong do you think it is for someone your age to attack someone with the idea of seriously	Not Wrong at All	3.3
hurting them?	A Little Bit Wrong	4.6
	Wrong	17.7
	Very wrong	74.4
C10f How wrong do you think it is for someone your age to drink beer, wine, or hard liquor (for	Not Wrong at All	5.0
example, vodka, whiskey, gin, or rum) regularly?	A Little Bit Wrong	11.2
	Wrong	22.3
	Very wrong	61.5
C10g How wrong do you think it is for someone your age to smoke cigarettes?	Not Wrong at All	4.2
age to shoke tigarettes:	A Little Bit Wrong	6.9
	Wrong	18.9
	Very wrong	70.0
C10h How wrong do you think it is for someone your age to use LSD, cocaine, amphetamines or anothe	Not Wrong at All er	3.3
illegal drug?	A Little Bit Wrong	3.6
	Wrong	11.2
	Very wrong	81.9
C10i How wrong do you think it is for someone your age to use marijuana?	Not Wrong at All	14.1
	A Little Bit Wrong	14.0
	Wrong	14.9
	Very wrong	57.0

Question	Response	%
C11a How many times have you done what feels good no matter what?	Never	53.4
	I've done it, but not in the past year	13.3
	Less than once a month	10.2
	About once a month	6.8
	2 or 3 times a month	7.0
	Once a week or more	9.4
C11b How many times have you done something	Never	63.3
dangerous because someone dared you to do it?	I've done it, but not in the past year	18.1
	Less than once a month	9.7
	About once a month	4.3
	2 or 3 times a month	2.7
	Once a week or more	1.9
C11c How many times have you done crazy things ever	n Never	50.3
if they are a little dangerous?	I've done it, but not in the past year	21.4
	Less than once a month	12.9
	About once a month	6.7
	2 or 3 times a month	4.9
	Once a week or more	3.9
C12a What are the chances you would be seen as cool	ifNo or verv little chance	86.9
you: carried a handgun?	Little chance	7.1
	Some chance	3.1
	Pretty good chance	1.4
	Very good chance	1.5
C12b What are the chances you would be seen as cool ifNo or very little chance you: began drinking alcoholic beverages regularly,		70.1
that is, at least once or twice a month?	Little chance	12.9
	Some chance	9.0
	Pretty good chance	5.3
	Very good chance	2.7

Question	Response	%
C12c What are the chances you would be seen as cool ifNo or very little chance		
you: smoked cigarettes?	Little chance	9.6
	Some chance	4.4
	Pretty good chance	2.2
	Very good chance	1.8
C12d What are the chances you would be seen as cool	ifNo or very little chance	65.7
you: used marijuana?	Little chance	11.5
	Some chance	9.8
	Pretty good chance	7.2
	Very good chance	5.7
C13 I think it is okay to take something without asking as long as you get away with it.	g NO!	66.5
as folig as you get away with it.	no	29.1
	yes	3.4
	YES!	0.9
C14 It is alright to beat people up if they start the figh	it.NO!	38.8
	no	22.0
	yes	24.5
	YES!	14.7
C15 I think sometimes it's okay to cheat at school.	NO!	48.2
	no	31.7
	yes	17.1
	YES!	3.0
C16 It is important to be honest with your parents,	NO!	12.9
even if they become upset or you get punished.	no	9.3
	yes	37.0
	YES!	40.7
		-0.7

Question	Response	%
C17a Think of up to four of your best friends (the friends you feel closest to). In the past 12 months, how many of your best friends have: Been	None ,	93.8
arrested?	1	3.8
	2	1.3
	3	0.4
	4	0.7
C17b Think of up to four of your best friends (the friends you feel closest to). In the past 12 months, how many of your best friends have: Dropped out		95.8
of school?	1	3.1
	2	0.6
	3	0.2
	4	0.2
C17c Think of up to four of your best friends (the friends you feel closest to). In the past 12 months, how many of your best friends have: Stolen or tried to steal a motor vehicle such as a car or	None ,	97.4
motorcycle?	1	1.7
	2	0.5
	3	0.2
	4	0.3
C17d Think of up to four of your best friends (the friends you feel closest to). In the past 12 months how many of your best friends have: Been	None ,	81.1
suspended from school?	1	11.3
	2	4.0
	3	1.4
	4	2.2
C17e Think of up to four of your best friends (the friends you feel closest to). In the past 12 months, how many of your best friends have: Carried a	None ,	96.9
handgun?	1	1.8
	2	0.6
	3	0.3
	4	0.5

Question	Response	%	Question	Response	%
C17f Think of up to four of your best friends (the friends you feel closest to). In the past 12 months, how many of your best friends have: Tried beer, wine, or hard liquor when their parents didn't	None	66.3	D1a During the past 12 months, how often have you bet/gambled, even casually, for money or valuables in the following ways: Table games like poker or other card games, dice, backgammon, or	Not at all	88.7
know about it?	1	10.7	dominoes	Less than once a month	7.8
	2	8.2		1 to 3 times a month	2.2
	3	4.1		More than 3 times a month	1.3
	4	10.8			
C17g Think of up to four of your best friends (the friends you feel closest to). In the past 12 months,	None	86.6	D1b During the past 12 months, how often have you bet/gambled, even casually, for money or valuables in the following ways: Lottery (scratch cards, numbers, etc.)	Not at all	79.8
how many of your best friends have: Smoked cigarettes?				Less than once a month	14.6
0	1	7.0		1 to 3 times a month	4.0
	2	3.3		More than 3 times a month	1.6
	3	1.1			
	4	2.0	D1c During the past 12 months, how often have you bet/gambled, even casually, for money or valuables in the following ways: Sporting events	Not at all	87.3
C17h Think of up to four of your best friends (the	None	92.6	or sports pools	Less than once a month	6.9
friends you feel closest to). In the past 12 months, how many of your best friends have: Sold illegal				1 to 3 times a month	3.1
drugs?	1	4.0		More than 3 times a month	2.7
	2	1.7			
	3	0.5	D1d During the past 12 months, how often have	Not at all	95.7
	4	1.2	you bet/gambled, even casually, for money or valuables in the following ways: Online (Internet) gambling		
		011		Less than once a month	2.2
C17i Think of up to four of your best friends (the friends you feel closest to). In the past 12 months,	None	94.1		1 to 3 times a month	0.9
how many of your best friends have: Used LSD, cocaine, amphetamines or another illegal drug?				More than 3 times a month	1.1
	1	3.3			
	2	1.3	D1e During the past 12 months, how often have you bet/gambled, even casually, for money or	Not at all	81.8
	3	0.5	valuables in the following ways: Personal skill		
	4	0.8	games (such as pool, darts, coin tossing, video games)		0.7
				Less than once a month	9.7
C17j Think of up to four of your best friends (the friends you feel closest to). In the past 12 months, how many of your best friends have: Used	None	72.6		1 to 3 times a month More than 3 times a month	4.0 4.5
marijuana?	1	8.5			
	2	6.1			
	3	3.6			

I

Question	Response	%
D1f During the past 12 months, how often have you bet/gambled, even casually, for money or valuables in the following ways: Bet/gambled in	Not at all	89.0
some other way	Less than once a month	7.5
	1 to 3 times a month	2.1
	More than 3 times a month	1.4
D2 How many times (if any) have you, in your lifetim	e 0	66.3
bet/gambled for money or anything of value?	1-2	14.4
	3-5	8.2
	6-9	4.0
	10-19	3.2
	20-39	1.6
	40 or more	2.3
D3 In the past 30 days, have you bet/gambled for money or anything of value?	Yes	9.3
	No	90.7
D4a Have you ever felt the need to: Bet more and	Yes	4.7
more money?	No	95.3
D4b Have you ever felt the need to: Lie to important people (such as your family/ friends) about how	Yes	2.8
much you gamble?	No	97.2
D5 If you drank alcohol during the past 12 months,	Did not drink any alcohol	76.7
how did you usually get it?	Bought it in a store	1.1
	Bought it at a restaurant, bar or club	0.7
	Bought it at a public event such as a concert	0.8
	or sporting event Gave someone money to buy it for me	6.8
	Parents provided it to me	6.2
	Friends' parents provided it to me	4.5
	Friends, brothers, or sisters over 21	6.0
	provided it to me Friends, brothers, or sisters under 21 provided it to me	3.9
	provided it to me Other relatives (uncles, aunts, cousins, grandparents, etc.) provided it to me	3.5
	grandparents, etc.) provided it to me Other source provided it to me	5.8
	Took without permission, stole, or found it (my home, friend's home, store, etc.)	8.2

Question	Response	%
D6 If you used any prescription drugs without a prescription during the last 12 months, how did	l did not take any prescription drugs without a doctor's prescription	96.2
you get them?	Took them from a family member living in my home	1.7
	Took them from other relatives not living in my home	0.5
	Took them from someone not related to me	0.6
	A friend or family member gave them to me	1.6
	Bought them from someone	1.0
	Ordered them over the Internet	0.4
D7a How often have you: Driven a motor vehicle while	e I don't drive	66.2
or shortly after drinking?	Never	31.4
	Before, but not in the past year	0.8
	About once or twice a year	1.0
	About once or twice a month	0.3
	About once or twice a week	0.1
	Almost every day	0.1
D7b How often have you: Driven a motor vehicle while or shortly after using marijuana (pot, hash,	I don't drive	65.8
cannabis, weed)?	Never	30.5
	Before, but not in the past year	0.7
	About once or twice a year	1.3
	About once or twice a month	0.6
	About once or twice a week	0.6
	Almost every day	0.5
D8 On an average school night, how many hours of	4 or less hours	8.1
sleep do you get?	5 hours	10.4
	6 hours	19.4
	7 hours	24.9
	8 hours	23.1
	9 hours	9.9
	10 or more hours	4.1

Question	Response	%
D9 In the last two weeks, how often have you felt	Everyday	32.2
tired or sleepy during the day?	Several times	32.4
	Twice	15.4
	Once	12.1
	Never	7.8
E1a In the past 12 months, how often have you: Been threatened to be hit or beaten up on school	Never	81.1
property?	Once	9.6
	2 or 3 times	5.5
	4 or 5 times	1.6
	6 to 9 times	0.5
	10 or more times	1.7
E1b In the past 12 months, how often have you: Been attacked and hit by someone or beaten up on	Never	92.4
school property?	Once	4.6
	2 or 3 times	1.8
	4 or 5 times	0.4
	6 to 9 times	0.2
	10 or more times	0.6
E1c In the past 12 months, how often have you: Been threatened by someone with a weapon on school		96.1
property?	Once	2.6
	2 or 3 times	0.7
	4 or 5 times	0.2
	6 to 9 times	0.1
	10 or more times	0.3
E1d In the past 12 months, how often have you: Been attacked by someone with a weapon on school	Never	98.9
property?	Once	0.6
	2 or 3 times	0.2
	4 or 5 times	0.1
	6 to 9 times	0.0
	10 or more times	0.2

	Question	Response	%
	E2 How many times in the past 12 months have you been offered, given, or sold an illegal drug on	Never	91.5
	school property?	1 or 2 times	5.5
		3 to 5 times	1.7
		6 to 9 times	0.5
		10 or more times	0.9
	E3 In the past 12 months, in which of the following activities did you participate?	Organized community activities (such as scouting, 4H, service clubs, YMCA, etc)	21.8
		Family supported activities or hobbies (such as dance, gymnastics, hiking, biking, skating, etc.)	43.6
		School sponsored activities (such as sports, music, clubs, after school programs, etc.)	60.0
		Faith-based activities (such as choir, youth group, mission, church leagues, etc)	21.9
		Job, employed	25.2
		Volunteer	27.0
		Other activities	29.3
		I do not participate	14.7
	E4 How many times in your lifetime have you: Brought a weapon (such as a handgun, knife, etc.)	0 times	96.4
	to school?	1 or 2 times	2.8
		3 to 5 times	0.3
		6 to 9 times	0.2
		10 to 19 times	0.1
		20 to 39 times	0.1
		40 or more times	0.2

Question	Response	%
E5 How many times in the last 30 days have you: Brought a weapon (such as a handgun, knife, etc	Never .)	99.1
to school?	1 or 2 times	0.5
	3 to 5 times	0.1
	6 to 9 times	0.1
	10 or more times	0.2
E6a How many times in the past 12 months have	0 times	95.4
you: Attacked someone with the idea of seriously hurting them?	1 or 2 times	3.5
C C	3 to 5 times	0.6
	6 to 9 times	0.2
	10 to 19 times	0.1
	20 to 39 times	0.0
	40 or more times	0.1
E6b How many times in the past 12 months have you	: 0 times	98.5
Been arrested?	1 or 2 times	1.1
	3 to 5 times	0.2
	6 to 9 times	0.1
	10 to 19 times	0.0
	20 to 39 times	0.0
	40 or more times	0.1
E6c How many times in the past 12 months have you	: 0 times	93.8
Been drunk or high at school?	1 or 2 times	3.0
	3 to 5 times	1.1
	6 to 9 times	0.5
	10 to 19 times	0.5
	20 to 39 times	0.4
	40 or more times	0.7
E6d How many times in the past 12 months have you	: 0 times	92.9
Been suspended from school?	1 or 2 times	5.3
	3 to 5 times	0.9
	6 to 9 times	0.4
	10 to 19 times	0.3
	20 to 39 times	0.1
	40 or more times	0.1
		5.1

Question	Response	%
E6e How many times in the past 12 months have you:	0 times	97.7
Sold illegal drugs?	1 or 2 times	1.0
	3 to 5 times	0.4
	6 to 9 times	0.3
	10 to 19 times	0.1
	20 to 39 times	0.1
	40 or more times	0.3
E6f How many times in the past 12 months have you:	0 times	85.6
Done anything to harm yourself (such as cutting, scraping, burning) as a way to relieve difficult	1 or 2 times	6.8
feelings, or to communicate emotions that may be difficult to express verbally?	3 to 5 times	3.0
	6 to 9 times	1.5
	10 to 19 times	1.2
	20 to 39 times	0.8
		1.1
E7 In the past 12 months, have you or your family	No	96.1
lived in a shelter, hotel, motel, car, campground, or someone else's home, etc. due to loss of	Yes, but for less than a month	1.9
housing, lack of money, or did not have another place to stay?	Yes, but for more than a month	1.0
	Yes, for most of the year	0.9
E8 In the past 12 months, did you ever live away	Yes	5.0
from your parents or guardians because you were kicked out, ran away, or were abandoned?		05.0
	No	95.0
50- U	Neuro	0F C
E9a How many times have you changed homes in the past 12 months?		85.6 9.7
	1 2	
		2.4
	3 or more	2.3
E9b How many times have you changed homes	Never	73.7
including the last 12 months, in the last three	1	15.7
years?	2	5.5
	3 or more	5.0
	5 of more	5.0

Question	Response	%
F1a During the past 12 months, have you been bullied	I NO!	62.8
through texting and/or social media?	no	23.3
	yes	10.1
	YES!	3.9
F1b Have you stayed home from school this year	NO!	75.4
because you were worried about being bullied?	no	20.0
	yes	2.9
	YES!	1.7
F1c Do adults at your school stop bullying when they see/hear it or when a student tells them about it?		23.9
	no	21.3
	yes	33.9
	YES!	20.9
F1d Please state whether you have been bullied durin the past 12 months.	-	72.9
	Yes, very rarely	12.9
	Yes, now and then	8.5
	Yes, several times per month	2.2
	Yes, several times per week	1.5
	Yes, almost daily	2.0
F1e If you have been bullied in any way in the past 12 months, where were you bullied?	l was not bullied	73.5
	On school property	21.4
	At a school-sponsored event	3.7
	While going to or from school	4.7
	In the community	5.2
	At home	7.1

Question	Response	%
F1f If you have been bullied in the past 12 months by other students, why were you bullied?	by I have not been made fun of by other students	69.9
	I don't know why	10.5
	The color of my skin	2.5
	My religion	1.7
	My size (height, weight, etc.)	10.8
	My accent	1.1
	The country I was born in	0.9
	The country my family (parents, grandparents) was born in	1.2
	The way I look (clothing, hairstyle, etc.)	12.6
	How much money my family has or does not have	3.4
	My gender	1.9
	My grades or school achievement	3.8
	My social standing	5.1
	Social conflict	4.2
	My sexual-orientation	3.3
	I have a disability (learning or physical disability)	1.8
	Some other reason	12.2
F2 If you were hurt or abused by another person in the past 12 months, how were you hurt or	Physical injury	23.3
abused?	Threats	21.1
	Emotional abuse, insults, name-calling	61.6
	Isolation from friends and family	13.2
	Control of what you were wearing	7.5
	Control with whom you socialized	11.8
	Other injury or abuse	12.7
F3 In the past 12 months, did anyone on the Intern		21.0
ever try to get you to talk online about sex, look a sexual pictures, or do something else sexual?	No	79.0

Question	Response	%
F4a Did you ever feel so sad or hopeless almost every day for two weeks or more in a row that you stopped doing some usual activites?	Yes	25.2
	No	74.8
F4b Did you ever seriously consider attempting suicide?	Yes	16.2
	No	83.8
F4c Did you make a plan about how you would attempt suicide?	Yes	12.9
	No	87.1
F4d How many times did you actually attempt suicide	?0 times	90.3
	1 time	4.9
	2 or 3 times	3.2
	4 or 5 times	0.9
	6 or more times	0.7
F4e If you attempted suicide during the past 12 months, did any attempt result in an injury, poisoning or overdose that had to be treated by a doctor or nurse?	I did not attempt suicide during the past 12 months	79.3
	Yes	2.0
	No	18.7
F5 In the past 12 months, have any of your friends or family members close to you died?	r Yes	39.1
	No	60.9

Juestion	Response

%

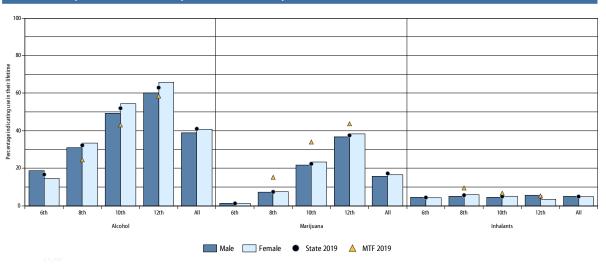
Appendix C: PAYS Summary Data by Gender

This Appendix presents data comparing male and female students. Please note that these data come from the weighted State Sample. To further review data by gender, please see the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool which allows users to run gender-level data by category, variable, or individual item

ATOD Use and Access by Gender

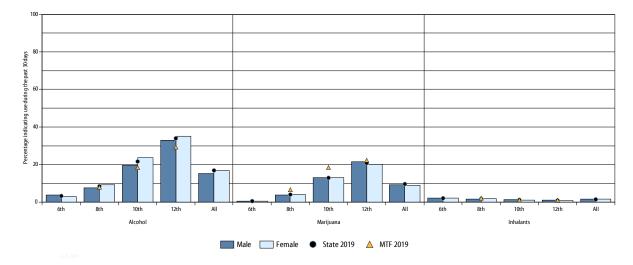
Early initiation and higher prevalence drugs - Lifetime use, Statewide Sample 2019 PAYS

Early initiation and higher prevalence drugs - Lifetime use Students by Gender 2019 Pennsylvania Youth Survey

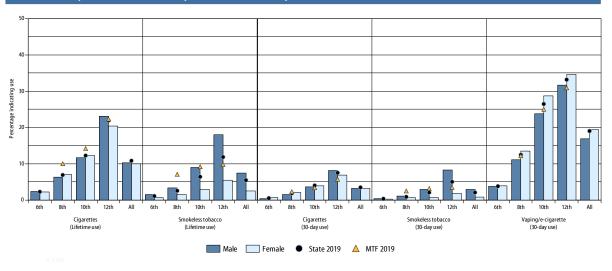


Early initiation and higher prevalence drugs - 30-day use, Statewide Sample 2019 PAYS

Early initiation and higher prevalence drugs - 30-day use Students by Gender 2019 Pennsylvania Youth Survey

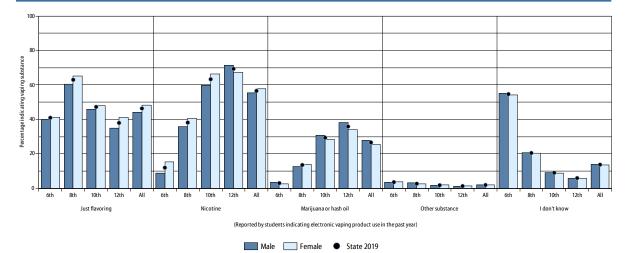


NOTE: Please see the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool for exact numbers and for additional genderlevel data by category, variable, or individual item. Consider using the PAYS Web Tool to run similar data by county, grade, gender, or by item. Tobacco and Vaping - Lifetime and 30-day use, Statewide Sample 2019 PAYS Tobacco and Vaping - Lifetime and 30-day use Students by Gender 2019 Pennsylvania Youth Survey



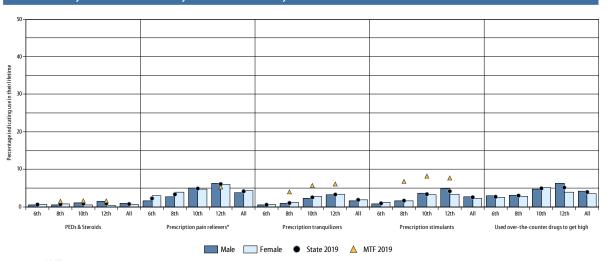
Vaping Substances Used During the Past 12 Months (of past-year users), Statewide Sample 2019 PAYS

Vaping substances used by students indicating electronic vaping product use in the past year Students by Gender 2019 Pennsylvania Youth Survey



Prescription and over-the-counter drugs and medications - Lifetime, Statewide Sample 2019 PAYS

Prescription and over-the-counter drugs and medications - Lifetime use Students by Gender 2019 Pennsylvania Youth Survey



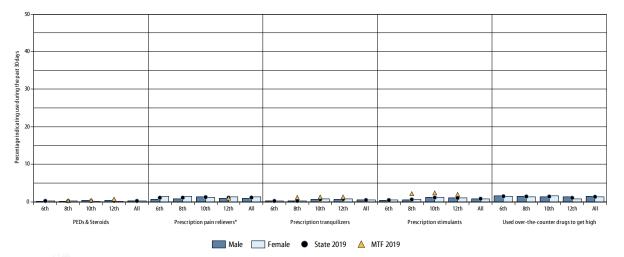
Prescription and over-the-counter drugs and medications - 30-day use, Statewide Sample 2019 PAYS



NOTE: *The most recent national data available for lifetime narcotic prescription drug use in 8th and 10th graders are from the 2014 Monitoring the Future administration. (However, 12th grade data are from the 2017 administration.)

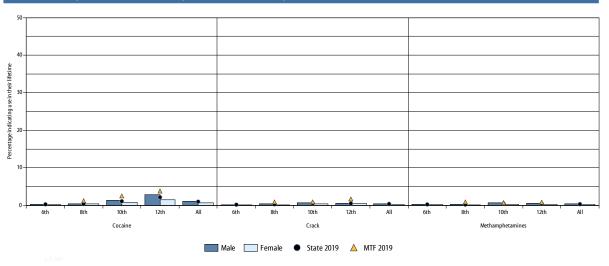
Please see the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool for exact numbers and for additional genderlevel data by category, variable, or individual item. Consider using the PAYS Web Tool to run similar data by county, grade, gender, or by item.

Prescription and over-the-counter drugs and medications - 30-day use Students by Gender 2019 Pennsylvania Youth Survey

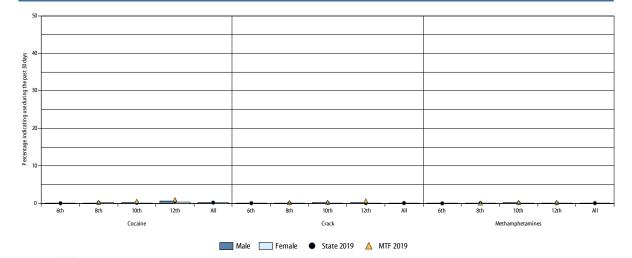


Other drugs (cocaine, crack, methamphetamines) - Lifetime, Statewide Sample 2019 PAYS

Other drugs (cocaine, crack, methamphetamines) - Lifetime use Students by Gender 2019 Pennsylvania Youth Survey



Other drugs (cocaine, crack, methamphetamines) - 30-day use Students by Gender 2019 Pennsylvania Youth Survey

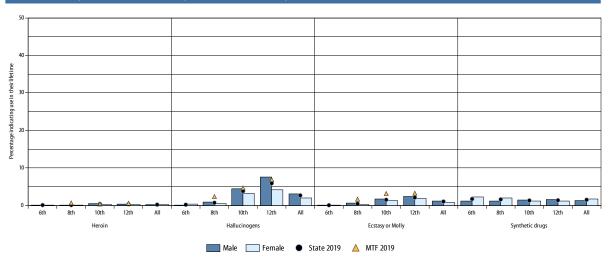


Other drugs (cocaine, crack, methamphetamines) - 30-day use, Statewide Sample 2019 PAYS

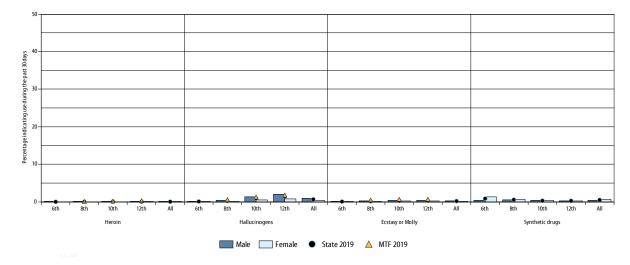
NOTE:

Other drugs (heroin, hallucinogens, ecstasy, and synthetic drugs) - Lifetime use, Statewide Sample 2019 PAYS

Other drugs (heroin, hallucinogens, ecstasy, and synthetic drugs) - Lifetime use Students by Gender 2019 Pennsylvania Youth Survey



Other drugs (heroin, hallucinogens, ecstasy, and synthetic drugs) - 30-day use Students by Gender 2019 Pennsylvania Youth Survey

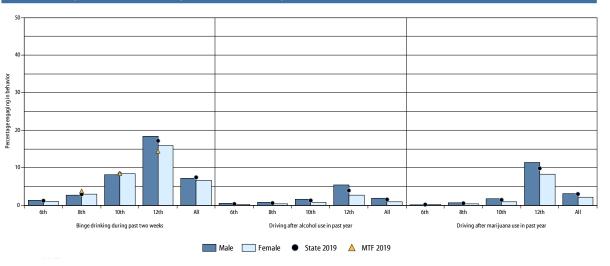


Other drugs (heroin, hallucinogens, ecstasy, and synthetic drugs) - 30-day use, Statewide Sample 2019 PAYS

> NOTE: *The most recent national data available for 30-day synthetic drug use are from the 2014 Monitoring the Future administration.

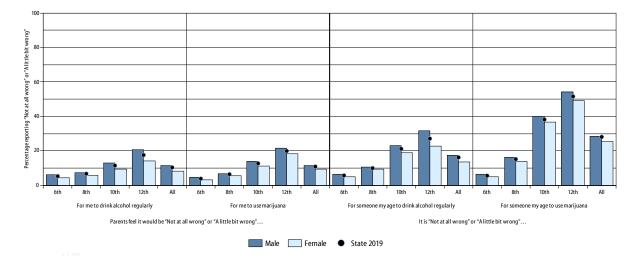
Risky substance use-related behavior, Statewide Sample 2019 PAYS

Risky substance use-related behavior Students by Gender 2019 Pennsylvania Youth Survey



Access and willingness to use, Statewide Sample 2019 PAYS

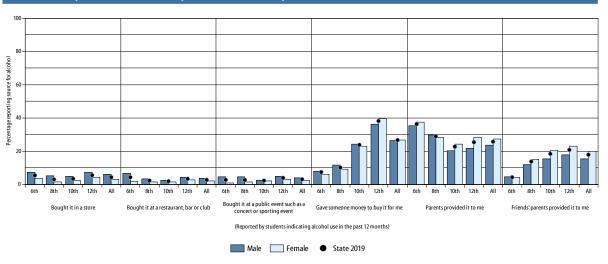
Attitudes favorable toward drug use Students by Gender 2019 Pennsylvania Youth Survey



NOTE: *Questions were revised in 2017 to add the qualifier "before you are 21." Rates reported in 2017 may be lower than previous years' data.

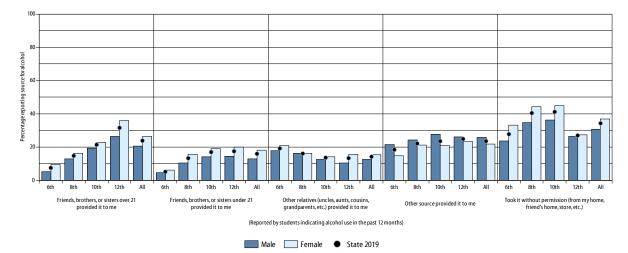
Sources of alcohol, Statewide Sample 2019 PAYS

Sources of alcohol by students who reported alcohol use Students by Gender 2019 Pennsylvania Youth Survey



Sources of alcohol, continued, Statewide Sample 2019 PAYS

Sources of alcohol by students who reported alcohol use (cont'd) Students by Gender 2019 Pennsylvania Youth Survey

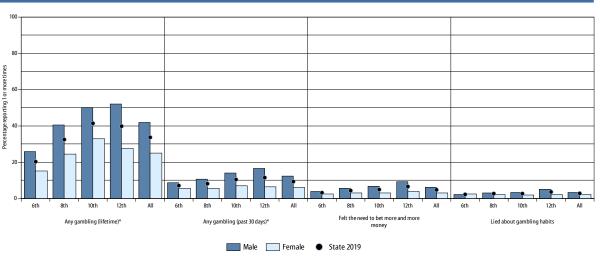


NOTE:

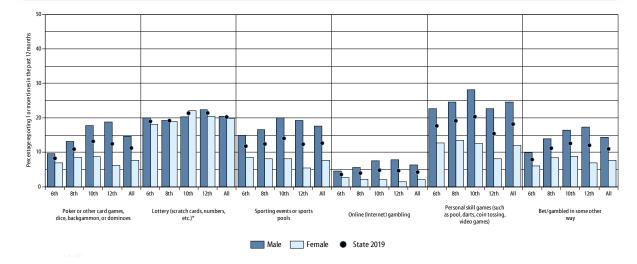
Antisocial Behavior by Gender

Gambling, Statewide Sample 2019 PAYS

Gambling Students by Gender 2019 Pennsylvania Youth Survey



Types of gambling Students by Gender 2019 Pennsylvania Youth Survey



Types of gambling, Statewide Sample 2019 PAYS

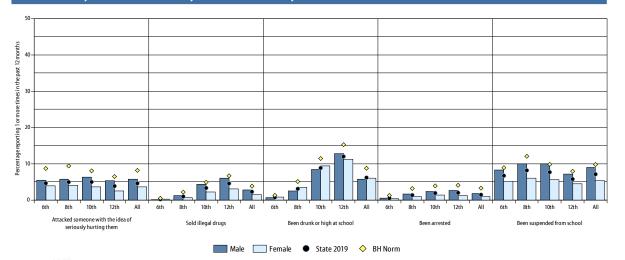
NOTE:

*Lifetime and 30 day gambling were not measured prior to 2017. (Previous PAYS administrations measured gambling over the past 12 months.)

*The lottery response category was revised in 2017 with additional examples (scratch cards, numbers, etc.) Rates reported in 2017 may be higher than previous years' data.

Other Antisocial behavior, Statewide Sample 2019 PAYS

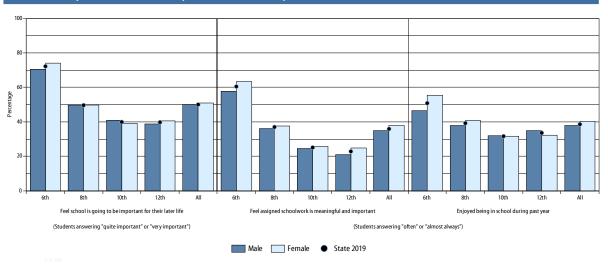
Other antisocial behavior Students by Gender 2019 Pennsylvania Youth Survey



NOTE:

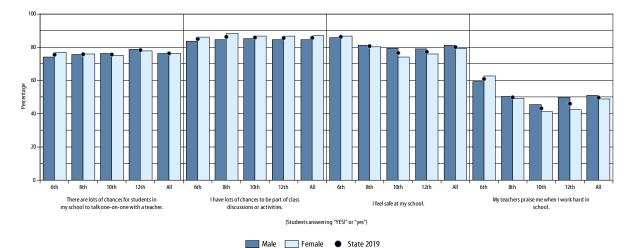
Perceived importance of school, Statewide Sample 2019 PAYS

Commitment and involvement in school - Perceived importance of school Students by Gender 2019 Pennsylvania Youth Survey



Positive school environment, Statewide Sample 2019 PAYS

Commitment and involvement in school - Positive school environment Students by Gender 2019 Pennsylvania Youth Survey

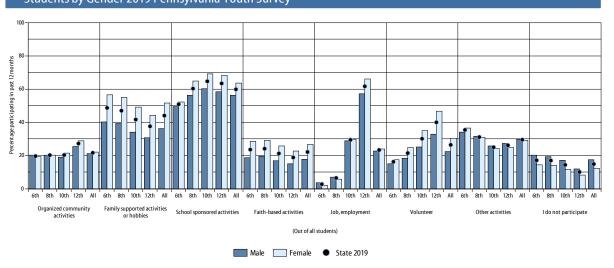


NOTE:

Community and School Climate and Safety by Gender

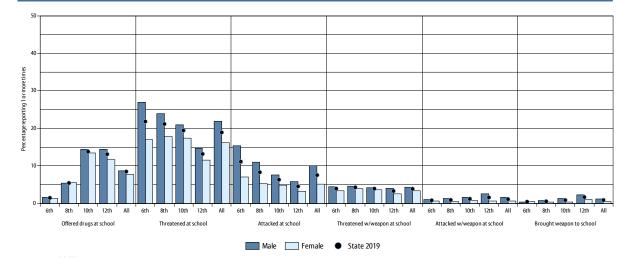
Involvement in after-school and community activities, Statewide Sample 2019 PAYS

Involvement in pro-social activities Students by Gender 2019 Pennsylvania Youth Survey



Violence and drugs on school property, Statewide Sample 2019 PAYS

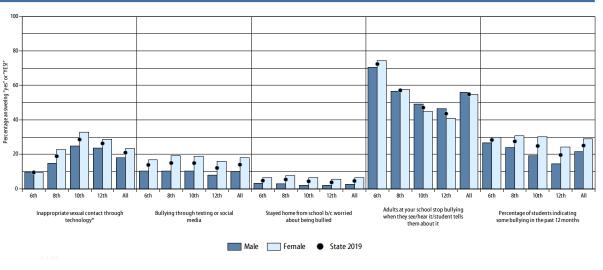
Violence and drugs on school property Students by Gender 2019 Pennsylvania Youth Survey



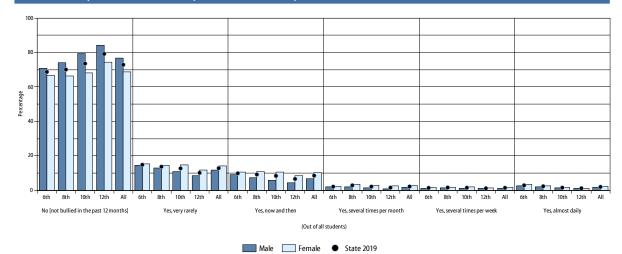
Bullying and Internet safety, Statewide Sample 2019 PAYS

Bullying and Internet safety

Students by Gender 2019 Pennsylvania Youth Survey



Frequency of bullying by students indicating some bullying in the past year* Students by Gender 2019 Pennsylvania Youth Survey



Frequency of bullying, Statewide Sample 2019 PAYS

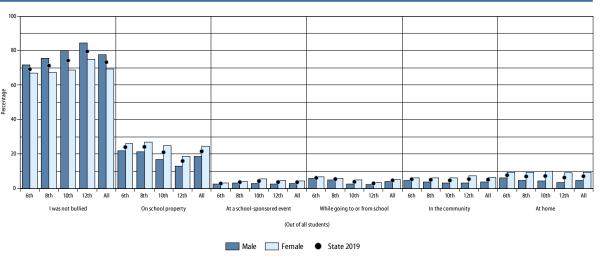
NOTE:

Community and School Climate and Safety by Gender

Location of bullying, Statewide Sample 2019 PAYS

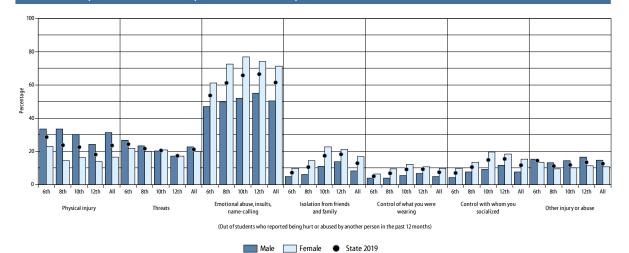
Location of bullying

Students by Gender 2019 Pennsylvania Youth Survey



How students were hurt or abused, Statewide Sample 2019 PAYS

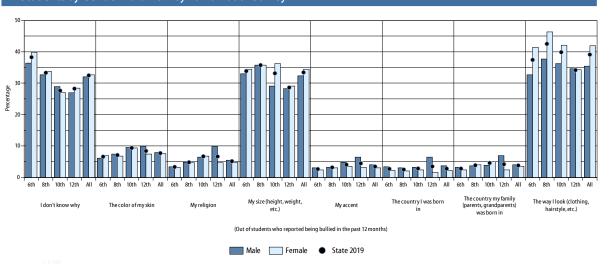
How students were hurt or abused Students by Gender 2019 Pennsylvania Youth Survey



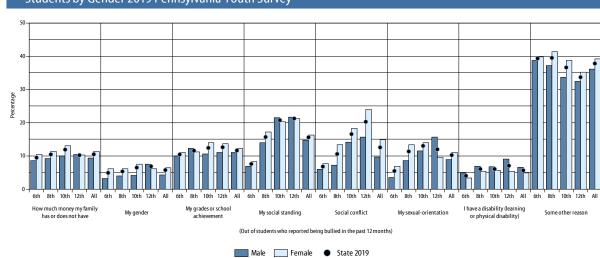
NOTE:

Perceived reasons for bullying, Statewide Sample 2019 PAYS

Perceived reasons for bullying Students by Gender 2019 Pennsylvania Youth Survey



Perceived reasons for bullying, continued, Statewide Sample 2019 PAYS



Perceived reasons for bullying (cont'd) Students by Gender 2019 Pennsylvania Youth Survey

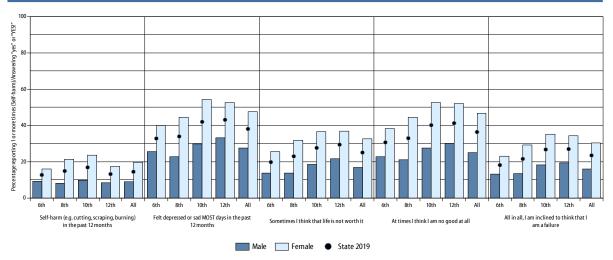
NOTE: Please see the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool for exact numbers and for additional genderlevel data by category, variable, or individual item. Consider using the PAYS Web Tool to run similar data by county,

grade, gender, or by item.

Mental Health Concerns, Statewide Sample 2019 PAYS

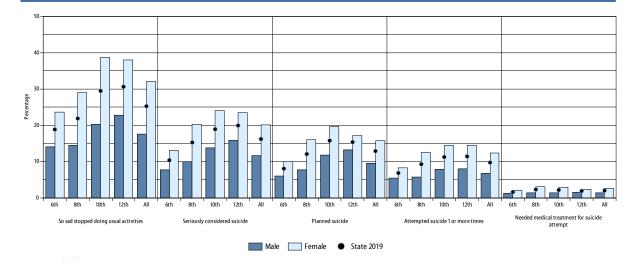
Mental Health Concerns

Students by Gender 2019 Pennsylvania Youth Survey



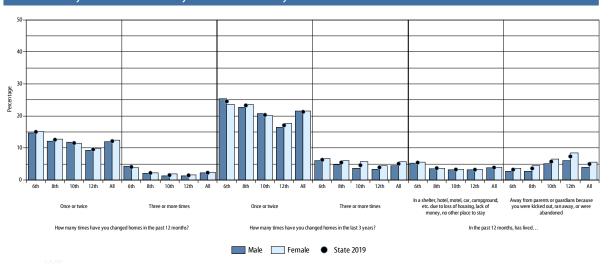
Suicide risk, Statewide Sample 2019 PAYS

Suicide risk Students by Gender 2019 Pennsylvania Youth Survey



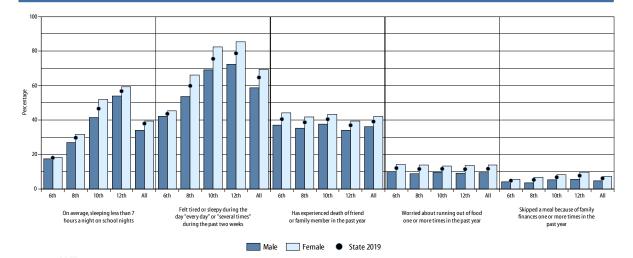
Transitions and mobility, Statewide Sample 2019 PAYS

Transitions and mobility Students by Gender 2019 Pennsylvania Youth Survey



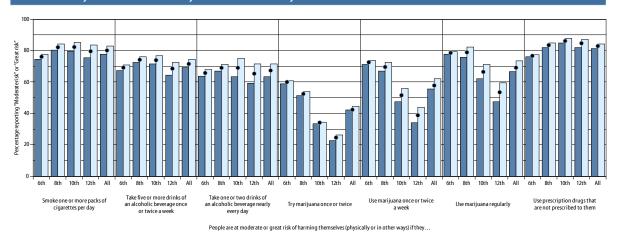
Grief and other stressful events, Statewide Sample 2019 PAYS

Sleep, grief, and stressful events Students by Gender 2019 Pennsylvania Youth Survey

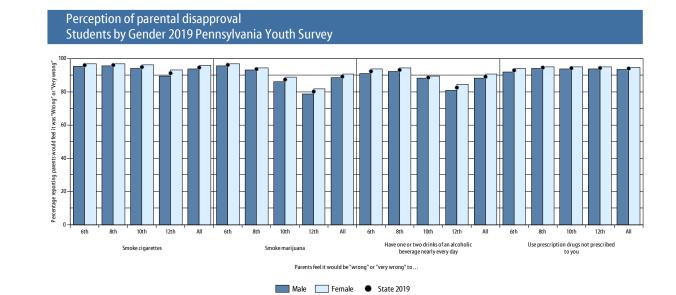


Perception of risk, Statewide Sample 2019 PAYS

Perception of risk Students by Gender 2019 Pennsylvania Youth Survey



Male Female 🗨 State 2019



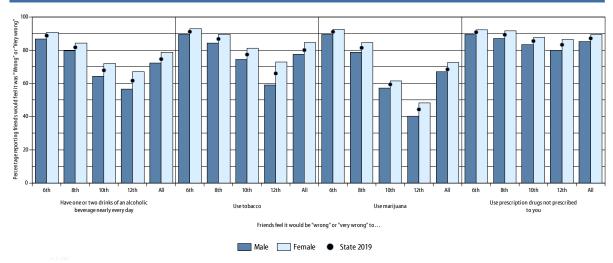
Perception of parental disapproval, Statewide Sample 2019 PAYS

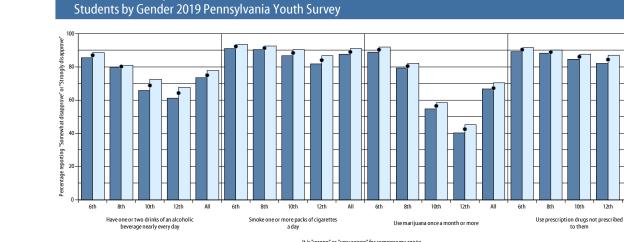
NOTE:

Perception of peer disapproval, **Statewide Sample 2019 PAYS**

Perception of peer disapproval Students by Gender 2019 Pennsylvania Youth Survey

Attitudes toward peer use





Attitudes toward peer use, **Statewide Sample 2019 PAYS**

NOTE: Please see the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool for exact numbers and for additional genderlevel data by category, variable, or individual item. Consider using the PAYS Web Tool to run similar data by county, grade, gender, or by item.

It is "wrong" or "very wrong" for someone my age to..

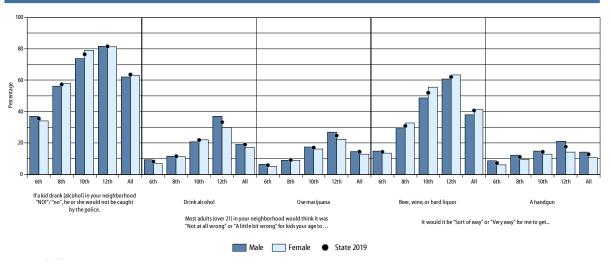
12th

All

Male Female State 2019

Community risk associated with availability, Statewide Sample 2019 PAYS

Community risk associated with availability Students by Gender 2019 Pennsylvania Youth Survey

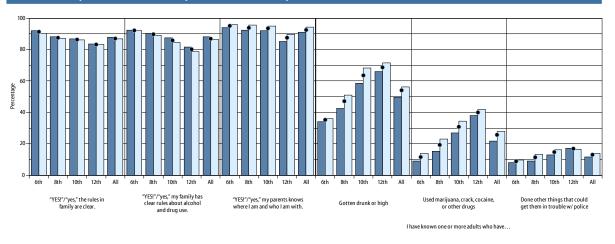


Rules and antisocial behavior, Statewide Sample 2019 PAYS

NOTE:

Please see the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool for exact numbers and for additional genderlevel data by category, variable, or individual item. Consider using the PAYS Web Tool to run similar data by county, grade, gender, or by item.

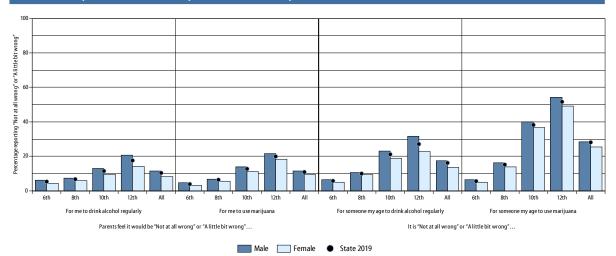
Rules and antisocial behavior Students by Gender 2019 Pennsylvania Youth Survey



Male Female State 2019

Attitudes favorable toward drug use, Statewide Sample 2019 PAYS

Attitudes favorable toward drug use Students by Gender 2019 Pennsylvania Youth Survey



NOTE: Please see the PAYS Web Tool at www.bach-harrison.com/ PAYSWebTool for exact numbers and for additional genderlevel data by category, variable, or individual item. Consider

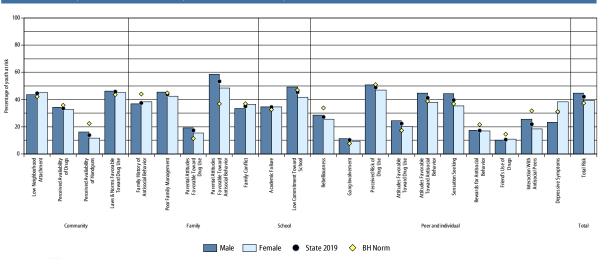
grade, gender, or by item.

using the PAYS Web Tool to run similar data by county,

Risk and Protective Factor Scales by Gender: 6th Grade

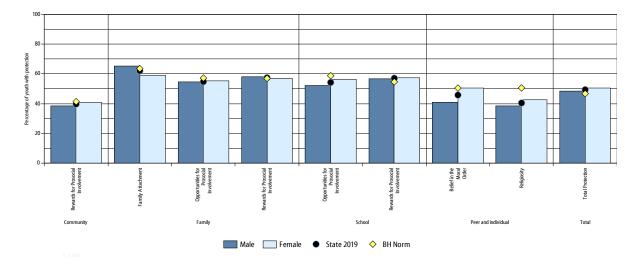
Risk factor scales by Gender, 6th grade, Statewide Sample 2019 PAYS

Risk factors, 6th grade Students by Gender 2019 Pennsylvania Youth Survey



Protective factor scales by Gender, 6th grade, Statewide Sample 2019 PAYS

Protective factors, 6th grade Students by Gender 2019 Pennsylvania Youth Survey



NOTE:

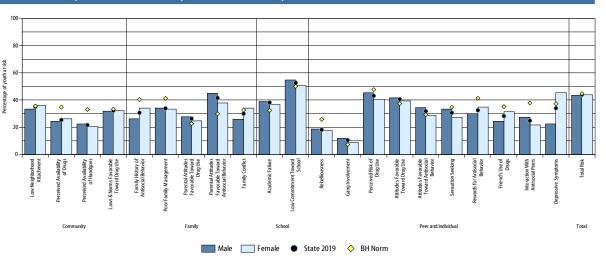
"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

"Total protection" is defined as the percentage of students who have more than a specified number of protective factors operating in their lives. (6th, 8th, 10th, and 12th grades: 3 or more protective factors.)

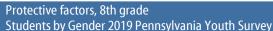
Risk and Protective Factor Scales by Gender: 8th Grade

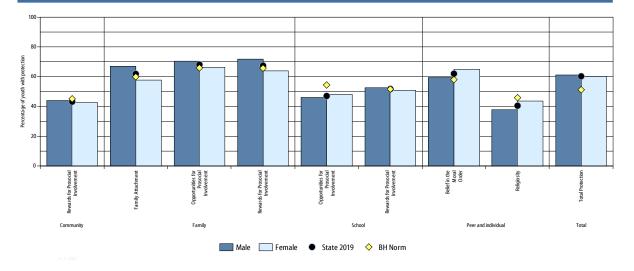
Risk factor scales by Gender, 8th grade, Statewide Sample 2019 PAYS

Risk factors, 8th grade Students by Gender 2019 Pennsylvania Youth Survey



Protective factor scales by Gender, 8th grade, Statewide Sample 2019 PAYS





NOTE:

"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors).

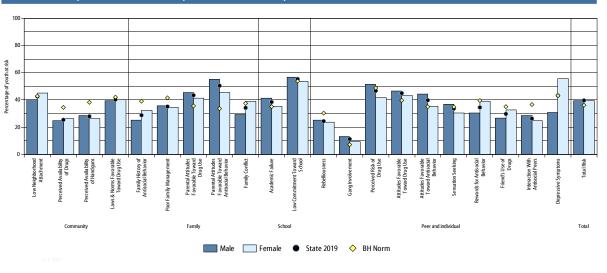
"Total protection" is defined as the percentage of students who have more than a specified number of protective factors operating in their lives. (6th, 8th, 10th, and 12th grades: 3 or more protective factors.)

Risk and Protective Factor Scales by Gender: 10th Grade

Risk factor scales by Gender, 10th grade, Statewide Sample 2019 PAYS

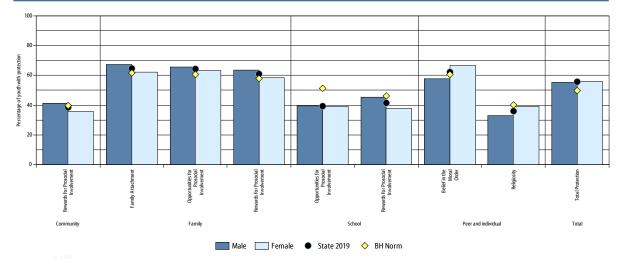
Risk factors, 10th grade

Students by Gender 2019 Pennsylvania Youth Survey



Protective factor scales by Gender, 10th grade, Statewide Sample 2019 PAYS





NOTE:

"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

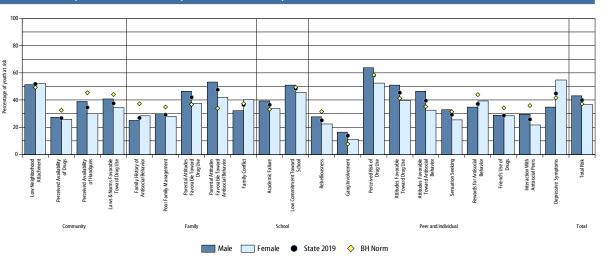
"Total protection" is defined as the percentage of students who have more than a specified number of protective factors operating in their lives. (6th, 8th, 10th, and 12th grades: 3 or more protective factors.)

Risk and Protective Factor Scales by Gender: 12th Grade

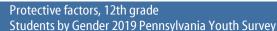
Risk factor scales by Gender, 12th grade, Statewide Sample 2019 PAYS

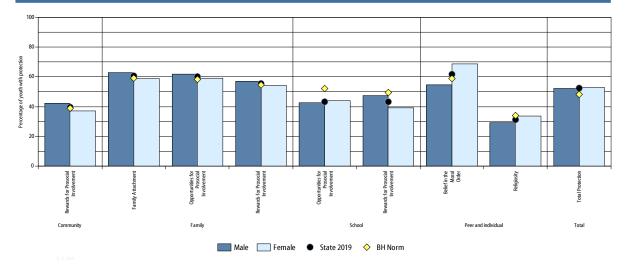
Risk factors, 12th grade

Students by Gender 2019 Pennsylvania Youth Survey



Protective factor scales by Gender, 12th grade, Statewide Sample 2019 PAYS





NOTE:

"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

"Total protection" is defined as the percentage of students who have more than a specified number of protective factors operating in their lives. (6th, 8th, 10th, and 12th grades: 3 or more protective factors.)

Risk factor scales by Gender All Grades, Statewide Sample 2019 PAYS

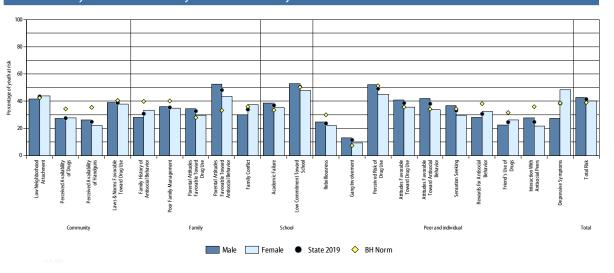
Risk factors, All grade Students by Gender 2019 Pennsylvania Youth Survey

Protective factors, All grade

for Pro

Community

Students by Gender 2019 Pennsylvania Youth Survey



Protective factor scales by Gender All Grades, Statewide Sample 2019 PAYS

s for Prosocial Involvement

Unities for Prosocial

Family

NOTE:

"Total Risk" is defined as the percentage of students who have more than a specified number of risk factors operating in their lives. (6th and 8th grades: 5 or more risk factors, 10th and 12th grades: 7 or more risk factors.)

"Total protection" is defined as the percentage of students who have more than a specified number of protective factors operating in their lives. (6th, 8th, 10th, and 12th grades: 3 or more protective factors.)

Please see the PAYS Web Tool at www.bach-harrison.com/PAYSWebTool for exact numbers and for additional gender-level data by category, variable, or individual item. Consider using the PAYS Web Tool to run similar data by county, grade, gender, or by item. School
Male Female
State 2019
BH Norm

portunities for Prosocial Involvement in the Moral Order

Peer and individual