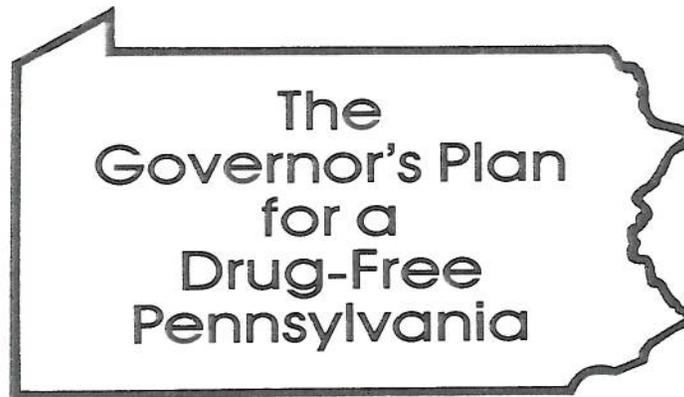


Alcohol, Drugs and Pennsylvania's Youth:

A Generation At Risk

The 1989 Survey of Pennsylvania School Students

PENNFREE



The Governor's Drug Policy Council

Robert P. Casey
Governor

ACKNOWLEDGEMENTS

The report that follows is the product of the only comprehensive and statistically valid alcohol and drug abuse survey ever accomplished in Pennsylvania. Its data comprise a baseline from which changes in attitude and behavior can be measured over time.

Credit for this accomplishment is appropriately shared among many who offered their time and expertise to improve this project:

- ◇ The young people across this state who willingly and candidly responded to this survey.
- ◇ The school administrators, teachers, counselors and drug abuse prevention professionals who administered the questionnaires.
- ◇ Dr. John Swisher, Ms. Joyce White, Ms. Joan Ruse and other staff of Data Base, Inc., who helped design the questionnaire, process the data and prepare this publication under contract with the Governor's Drug Policy Council. The contribution of this project to our mutual understanding of alcohol and other drug abuse is a direct result of their professionalism and grace under pressure.

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Ms. Connie Matthews, Prevention/Intervention Coordinator,
Adams County Drug & Alcohol Treatment and Prevention Services

Dr. Carl I. Fertman, MAPS Program, University of Pittsburgh

Dr. Patricia M. DiRienzo, Pennsylvania Department of Education

Ms. Carol A. Williams & Ms. Darby L. Musa, Governor's Drug Policy Council

Staff of Turtle Creek Valley Mental Health, Mental Retardation, Inc.

Ms. Peggy Dator, Bucks County Council on Alcoholism, Inc.

Mr. Robert H. Wilson, Neshaminy Educational Support Team

Mr. John F. Becker, Pocono Mountain Student Assistance Program

Staff of the Irene Stacy Community Mental Health Center

Mr. John Stoffa & Ms. Diane E. Fosco, Northampton County Treatment Division

The Reverend J. David Else, Allegheny County

Staff of the Pennsylvania Commission on Crime and Delinquency

Staff of the St. Francis Medical Center

Mr. Eric Meyer, Ms. Kristin Wickard, Ms. Lou Ann Guilles, Mr. Brad Hoy, Ms. Janice Teal & Ms. Lynn McQuown,
Pennsylvania Department of General Services

Mr. Ronald E. DeAngelis, Mr. Leander R. Schwan & Ms. Rhonda L. Sechrist,
Central Management Information Center

*Bruce A. Feldman
Executive Director
Governor's Drug Policy Council*



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Middletown, Pennsylvania



COMMONWEALTH OF PENNSYLVANIA
OFFICE OF THE GOVERNOR
HARRISBURG

THE GOVERNOR

Dear Reader:

Drug and alcohol abuse threaten the quality of life for Pennsylvania families in every corner of the Commonwealth. The danger is especially grave among school-age children, who may lose the opportunity to realize their fullest potential if they succumb to alcohol and other drugs.

PENNFREE, my plan for a drug-free Pennsylvania, is pumping millions of dollars in additional state funds into our war on drugs, with substantial new resources on every front: enforcement, treatment and education.

The need to succeed in the schools is especially important, because it is in the schools that we stand the best chance of ensuring that the next generation grows up free from substance abuse.

To make sure that we understand student attitudes and behavior involving alcohol and other drugs, the Governor's Drug Policy Council commissioned Pennsylvania's first comprehensive statewide survey of student alcohol and drug use and abuse.

This survey provides an unprecedented portrait of our youth -- what they do and what they don't do with alcohol and drugs, and why. With this information, state policy makers, educators, drug prevention professionals, parents and police can better craft the kinds of programs we need to keep our children from getting hooked on drugs in the first place.

The better we understand the threat of drugs, the better we can meet the challenge of creating a drug-free Pennsylvania. This report is a valuable tool in helping us achieve that goal.

Sincerely,

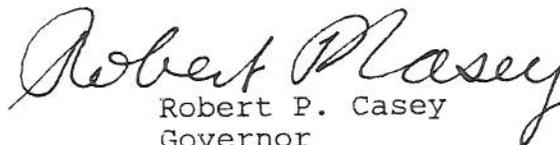

Robert P. Casey
Governor

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**ALCOHOL, DRUGS, AND PENNSYLVANIA'S YOUTH:
A GENERATION AT RISK
THE 1989 SURVEY OF PENNSYLVANIA SCHOOL STUDENTS**

EXECUTIVE SUMMARY

INTRODUCTION

It is important to monitor the extent of use and abuse among students in order to formulate policy and to instigate appropriate prevention and interventions.

The Federal government began monitoring high school seniors nationwide in 1975 and has conducted annual surveys since. The national data are limited to seniors only and require a year to process; consequently they are at least one year old when they are released. In previous years, the Commonwealth of Pennsylvania circulated an aggregate report that was compiled from surveys conducted in only concerned schools, and these reports contained an apparent bias. The data in this report were collected in February and are only eight months old, and the report is based on a stratified random sample of school buildings, making it much more reliable as a profile of patterns of use.

The Commonwealth of Pennsylvania will gain important insights from these data because they are timely, and they reveal upper elementary through high school student patterns of use. For example, it is evident that the majority of students at any grade level who drink monthly or more often also report being drunk with this frequency. Similarly, the rank order in any grade for use of drugs is alcohol first, tobacco second, marijuana third, stimulants fourth and cocaine fifth. Finally, these data indicate that the intention to use a given drug forms approximately two years prior to actual use; this has important implications for programming.

In the future, trends by grade level will provide an indication of the relative success of programs and policies being instituted. Schools will also be able to monitor the shaping of attitudes and the emergence of new patterns of drug use.

HIGHLIGHTS

Alcohol Almost one-half of the seniors drink alcohol at least once a month; 24 percent drink weekly or more often. Thirty percent of the ninth graders, 13 percent of the seventh graders, and 8 percent of the sixth graders have at least one drink a month. Beer is the favorite alcoholic beverage of Pennsylvania students. Almost three-fourths of the seniors who drink monthly or more often get drunk at least once a month.

Cigarettes Twenty-one percent of the seniors and 13 percent of the ninth graders smoke cigarettes daily.

Marijuana Fourteen percent of the seniors and seven percent of the ninth graders smoke marijuana at least once a month. Eight percent of the seniors smoke marijuana weekly or more often.

Other Drugs of Abuse 4.6 percent of the seniors and 4.0 percent of the ninth graders report regular (monthly or more often use) of stimulants. 2.4 percent of the seniors and 0.6 percent of the ninth graders use cocaine once a month or more often. 2.1 percent of the seniors and 2.9 percent of the ninth graders use inhalants at least once a month. 1.4 percent of the seniors and 1.1 percent of the juniors report regular use of hallucinogens. 1.3 percent of the seniors and 1.5 percent of the ninth graders use non-prescription depressants monthly or more often. 0.1 percent of the seniors and 0.3 percent of the ninth graders report using heroin regularly.

Risks in Vehicles Of the seniors who do drink regularly, 27 percent drive under the influence of alcohol at least once a month. Of the seniors who smoke marijuana regularly, almost one-half report driving under the influence of marijuana monthly or more often.

School Climate Almost one-half of the students surveyed enjoy school; almost 60 percent think their teachers are helpful; and almost 40 percent think their subjects are interesting. More than two-thirds of the students feel their grades are above average.

Locations and Sources The three areas most cited as locations of substance use are parties, a friend's house, and home. The three types of sources most often named are friends, out-of-school kids, and adults.

Negative/Disruptive Behaviors Almost 40 percent of the seniors get drunk at least once a month, and 14 percent get high at least once a month. An average of one-fourth of the ninth and twelfth graders cheat on tests monthly or more often. Fourteen percent of the seniors and seven percent of the ninth graders skip school regularly.

Resource Persons High on the list of resources to whom students would turn with a potential drug problem are friends, an adult friend, and a counselor in a drug center. Low on this list are a school administrator, a police officer, a teacher, and a coach.

Decision Making The four reasons most often given by students for NOT using substances are: 1) having close friends who accept them as they are; 2) being self confident; 3) not disappointing family members; and 4) knowing the effects of substances.

**ALCOHOL, DRUGS AND PENNSYLVANIA'S YOUTH:
A GENERATION AT RISK
THE 1989 SURVEY OF PENNSYLVANIA STUDENTS**

INTRODUCTION

This report is a profile of Pennsylvania students, based on information gathered in March and April, 1989, in a student survey using the Primary Prevention Awareness, Attitude and Usage Scales (PPAAUS). This needs assessment of Pennsylvania students is conducted under the sponsorship of the Pennsylvania Governor's Drug Policy Council. PPAAUS has been in use since 1979, and is being continually refined, according to suggestions by teachers, administrators, prevention specialists, counselors, parents and students. The basic design has not changed drastically, and the survey maintains excellent reliability and validity; for further information, please see the Reference list at the end of this report and the discussion below.

A committee of administrators, counselors, researchers, and drug and alcohol professionals chose four grades to be included in the stratified random sample of Pennsylvania students. Grades 6 and 7 are included because students in those grades represent the transition from elementary to middle or junior high school. Grade 9 was selected to show students in that transitional period from junior to high school; and grade 12 is used to monitor students at the end of their high-school education.

Selecting the Random Sample

Using a Department of Education list of all Commonwealth school districts stratified by enrollment (largest to smallest), the districts were assigned numbers chronologically and divided into ten groups of 50. Using a random-numbers table, eight districts were chosen from each group. Schools in Pittsburgh and Philadelphia were assigned to one group and were treated separately.

Again, using a random-numbers table, two buildings were selected from each of the chosen districts. The principals of these buildings were notified by Data Base and by the Governor's Drug Policy Council of their selection to participate in the statewide survey and asked for enrollment figures for each of the survey grades. For each school that declined to participate, a similar school from that particular stratification group was chosen in the manner described above. In addition to the randomly selected schools, several schools in the Commonwealth volunteered to participate in the statewide survey. The goal of the sampling procedure was to reflect--in the sample--the enrollment of all Commonwealth school districts; for example, an effort was made to assure that ten percent of the sample was from Philadelphia and two percent from Pittsburgh. The final stratified random sample of schools participating in the 1988-89 PPAAUS baseline research shall be referred to in the text of this report as "the Pennsylvania Schools."

In the Pennsylvania Schools, almost 38,000 students completed the questionnaire: 7,068 sixth graders, 10,445 seventh graders, 9,930 ninth graders, and 10,392 seniors. An additional 922 students did not fill in their grade; 3,684 students were in grades 5, 8, 10 and 11 and will be included in reports to individual districts. In the Pennsylvania Schools, 50.2 percent of the students are males, and 49.8 percent are females. Data in this report are presented as percentages; each Pennsylvania student represents approximately .01 percentage points.

One item in the PPAAUS Self-Reported Use subscale is a bogus substance, "serotonin," and the entire survey of any student claiming to have used this non-available drug within the past year was eliminated from statistical analyses. Including this item identifies individuals who may be exaggerating their use or who are careless in their answer patterns. No fail-safe method, however, exists to detect under-reporting of use; strict confidentiality appears to be the best strategy for encouraging accurate and honest responses. In the Pennsylvania Schools, 1.2 percent (810) of the students claimed to have used "serotonin" within the past year. Thus, a total of 37,025 students

are used in the aggregate sample of Pennsylvania sixth, seventh, ninth and twelfth graders.

Reliability

A scale (a group of similar questions) is said to be reliable when the results obtained from it are repeatable. Reliability is an indication of measurement error. A statistic known as Chronbach's Alpha, or merely alpha, provides a good estimate of reliability, because it measures the possibility of error occurring in the items included in the questionnaire and in the administration of these items. Alpha levels range from -1.0 to 1.0; the closer to +1.0, the more reliable the scale. Scales with alphas above +0.7 are considered to be very reliable.

Analyses of reliability, using the 1988-89 random sample of Pennsylvania students, were conducted on several subscales within PPAAUS Form 9. Results of those analyses are shown below.

<u>SUBSCALE</u>	<u>(Alpha Coefficient)</u> <u>RELIABILITY</u>	<u># OF ITEMS</u>
Negative/Disruptive Behaviors	.7969	9
Intent to Use Substances		
Cigarettes and Alcohol	.8932	5
Other Drugs of Abuse	.8616	7
All Substances Listed	.8787	13
Self-Reported Use of Substances		
Cigarettes and Alcohol	.8804	5
Other Drugs of Abuse	.7683	7
All Substances Listed	.8531	13
Driver/Passenger Risks		
Intent to Take Risks	.8443	4
Risk Behavior in Vehicles	.8654	6
Decision-Making Factors	.8688	10
Adult Resource Persons	.8271	9

Report Format

This report presents information about the Pennsylvania students in this progression:

- Who they are (Demographics Subscale) and how they feel about school (School Climate Items);
- What they use (Behavioral Intent Subscale and Self-Reported Use Subscales);
- Where they use it (Drinking and Driving Subscale, Location of Use);
- From whom they are most likely to get it (Primary Sources)
- What they do (Activities Subscale and Negative Behavior Subscale);
- Who they trust (Resource Persons Subscale); and
- Their personal attitudes about their decisions regarding the use of tobacco, alcohol, and other drugs (Decision Making Subscale).

Many tables in this report allow a comparison of the Pennsylvania Schools to a sample of Pennsylvania students participating in PPAAUS last year. Under the sponsorship of the Governor's Drug Policy Council, a stratified random sample was scientifically chosen. Before the 1988-89 academic year, however, aggregate data from PPAAUS cannot be considered to be from a random sample, because it includes only schools with contractual agreements with Data Base. These schools selected themselves, thus suggesting a need or a bias; this must be considered when comparing information. Included in Table 3 (Intent and Self-Reported Use of Substances) are data from a national survey¹ of high-school seniors showing substance use for the class of '88.

Appendix A contains crosstabulations of each survey item by grade. This will be helpful for those administrators, counselors and teachers who desire to further investigate response patterns.

¹ Johnston, Bachman and O'Malley for the National Institute on Drug Abuse

Multiple regression analyses were conducted to determine predictors of tobacco, alcohol, and drug use in the Pennsylvania Schools. Appendix B shows statistically significant predictors for the subscales of Demographics, Activities, Negative Behavior and Decision Making.

Appendix C shows the population of the Pennsylvania Schools sample crosstabulated by participating schools (generic names are used). Schools in this list are further delineated according to Drug and Alcohol regions employed by the Commonwealth Department of Health, Office of Drug and Alcohol Programs.

SCHOOL CLIMATE

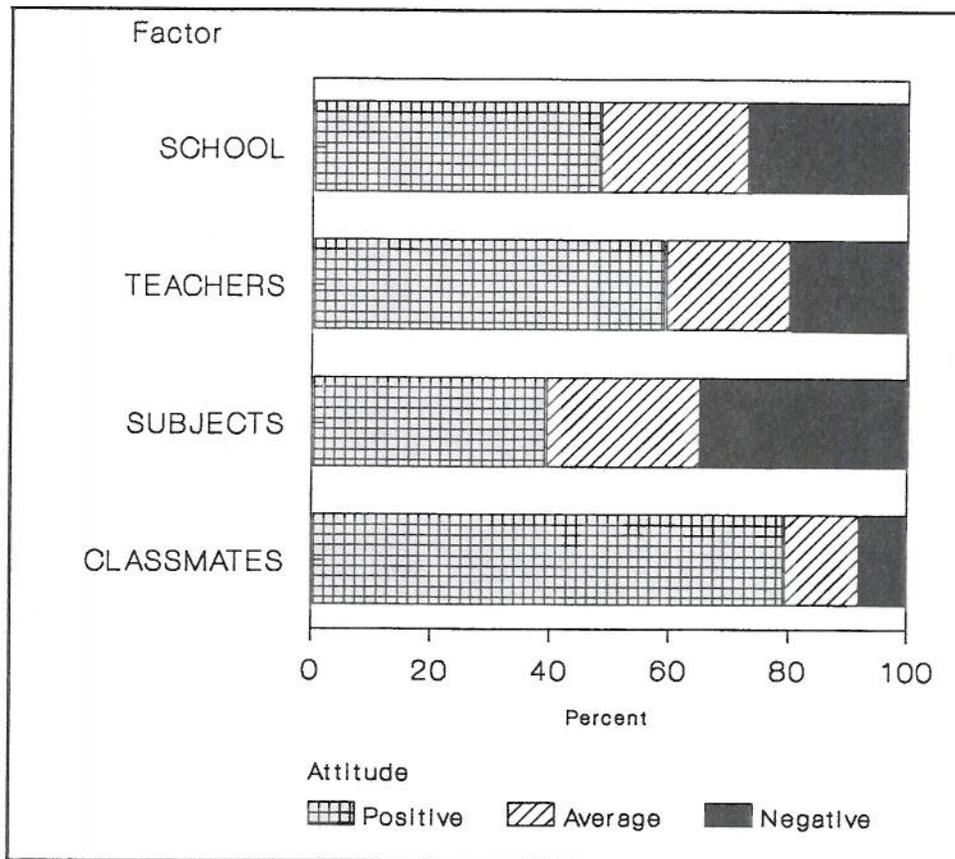


Figure 1 School Climate Items

An average of 47 percent of the Pennsylvania students in grades 9 and 12 and an average of 50 percent of the students in grades 6 and 7 have favorable attitudes toward school in general.

An average of 53 percent of the Pennsylvania ninth and twelfth grade students and an average of 69 percent of the sixth and seventh graders think that their teachers are helpful. Three-fourths of the sixth graders respond favorably to this item; slightly more than one-half (52 percent) of the ninth graders rate their teachers as helpful.

An average of 37 percent of the Pennsylvania ninth and twelfth grade students find their subjects interesting; an average of 43 percent of the sixth and seventh graders enjoy their subjects. Forty-seven percent--more than in any other surveyed grade--of the sixth graders like the content of their subjects.

More than three-fourths of all surveyed Pennsylvania students have positive attitudes about their classmates.

TABLE 1
SELF-ESTIMATED GRADE AVERAGE

No comparison with the 1987-88 PPAAUS is made in this chart because the response format in PPAAUS Form 9 is not the same as in the 1987-88 PPAAUS. In the pre-88 versions of PPAAUS, letter grades were the response options; Form 9 allows for response options Poor through Excellent.

GRADES ESTIMATED ABOVE-AVERAGE (Excellent, Very Good or Good)	GRADE						
	6	7	8	9	10	11	12
Pennsylvania 88-89	72.2	66.1		63.3			69.0

TABLE 2
SCHOOL CLIMATE ITEMS

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample.

POSITIVE ATTITUDES ABOUT:	GRADE						
	6	7	8	9	10	11	12
SCHOOL IN GENERAL							
Pennsylvania 88-89	51.4	48.1		46.5			46.9
PPAAUS 87-88	56.4	55.2	54.2	49.1	51.2	52.1	60.1
TEACHERS							
Pennsylvania 88-89	74.8	63.5		51.9			54.3
PPAAUS 87-88	76.8	69.9	71.2	58.1	53.4	57.4	65.6
SUBJECTS							
Pennsylvania 88-89	46.8	39.2		36.2			38.8
PPAAUS 87-88	49.7	47.9	45.8	43.0	40.3	45.3	57.3
CLASSMATES							
Pennsylvania 88-89	76.7	79.3		80.9			77.4
PPAAUS 87-88	81.8	78.2	83.3	87.0	84.6	83.5	83.9

SUBSTANCE USE

In this text and in Table 3, "Intent to Use" reflects a response of "would like to use it any chance," "would like to try or would like to use it" or "not sure whether or not..would try it." "Regular Use" reflects a response of "about once a day," "once or twice a week," or "once or twice a month."

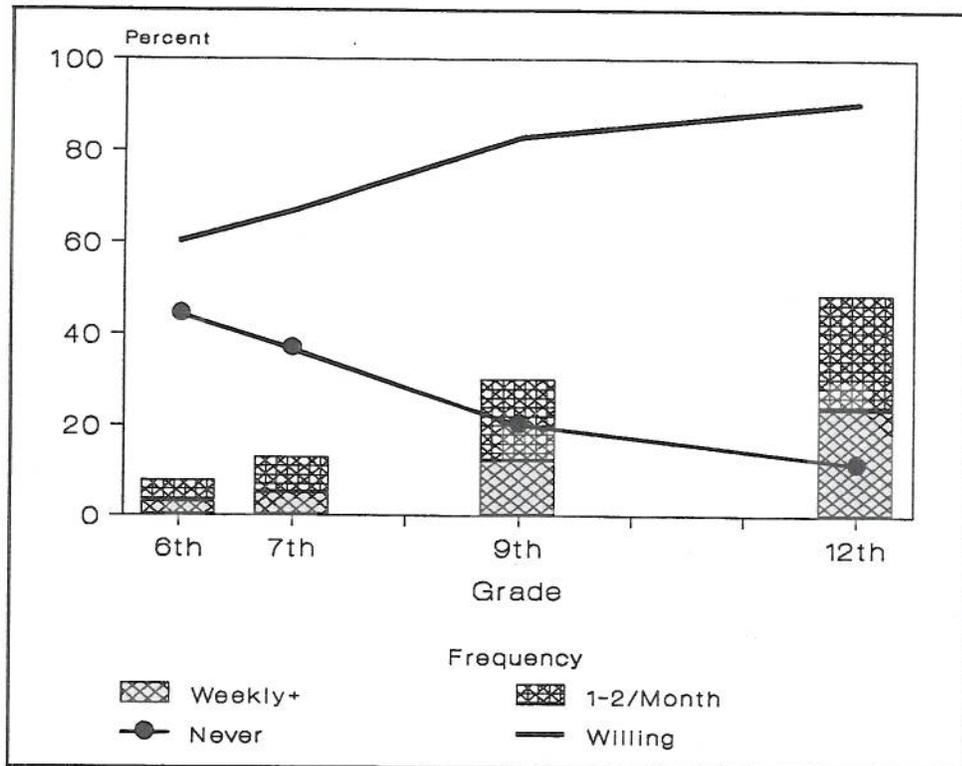


Figure 2 Self-Reported Use of Alcohol

Alcohol

(See Fig. 2) Thirty percent of the ninth graders, and 49 percent of the seniors drink alcohol once a month or more often. Almost one-fourth (24 percent) of the seniors drink some sort of alcohol as often as once a week. An average of almost two-thirds (64 percent) of the Pennsylvania sixth and seventh graders are willing to drink alcohol; eight percent of the sixth graders and 13 percent of the seventh graders report drinking at least once a month.

Forty-five percent of the seniors report drinking beer at least once a month; 21 percent of the seniors drink wine regularly; 31 percent drink wine coolers at least once a month; and 26 percent of the seniors drink liquor monthly or more often.

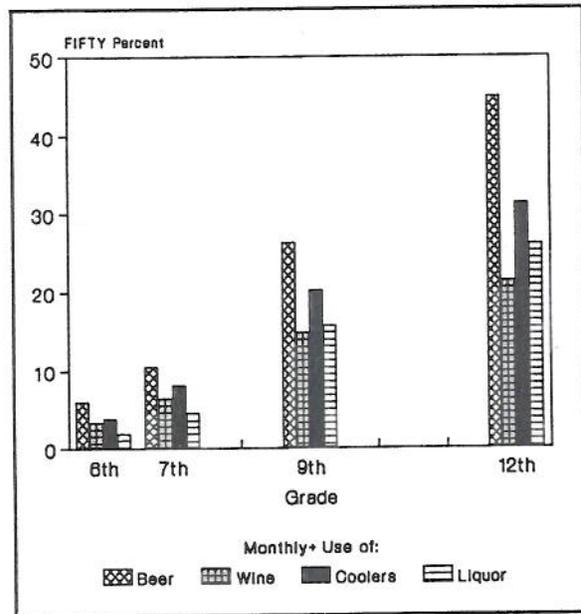


Figure 3 Regular (Monthly or More Often) Use of Various Types of Alcohol

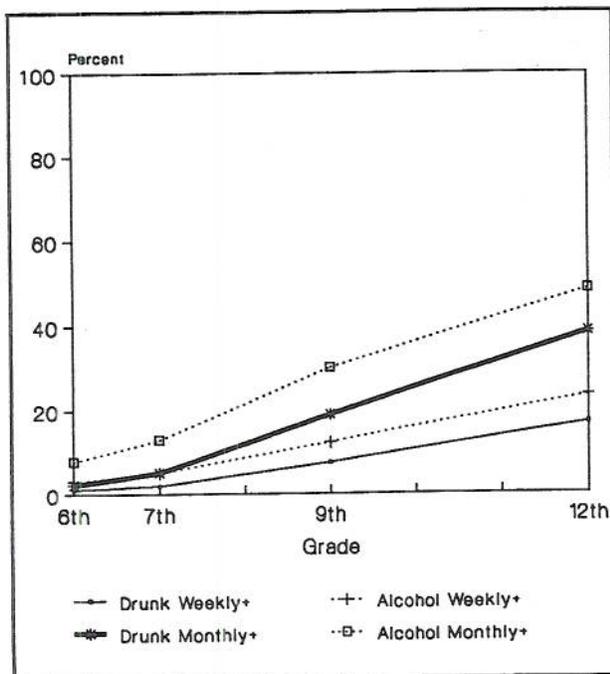


Figure 4 Drinking and Getting Drunk

Drinking and Getting Drunk

Figure 4 allows a comparison of the percentage of students who drink and the percentage of students who get drunk. Isolating only those students who report drinking at least once a month shows that 44 percent of all Pennsylvania Schools students who drink monthly or more often report getting drunk at least once a month. For ninth graders this percentage is 55, and for seniors, the percentage is 72.

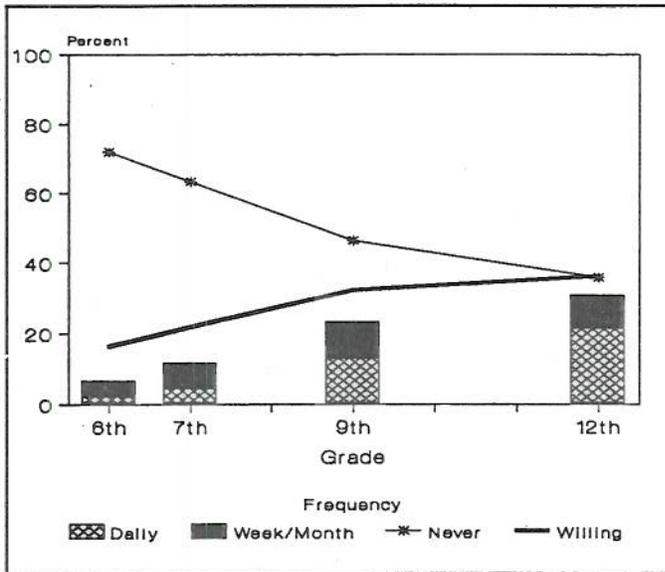


Figure 5 Self-Reported use of Cigarettes

Cigarettes

Twenty-one percent of the seniors and 13 percent of the ninth graders report smoking cigarettes daily. An average of three percent of the sixth and seventh graders smoke cigarettes every day.

Chewing Tobacco / Snuff

Use of smokeless tobacco generally peaks in tenth or eleventh grade, and then decreases through twelfth grade. In the Pennsylvania Schools, six percent of the

ninth graders and almost ten percent of the seniors use chewing tobacco or snuff at least once a week. An average of 17 percent of the sixth and seventh graders have already tried smokeless tobacco at least once.

Marijuana

Seven percent of the Pennsylvania ninth graders and 14 percent of the seniors report smoking marijuana at least once a month. Eight percent of the seniors smoke marijuana weekly or more often. In sixth and seventh grade, self-reported regular use of marijuana is below two percent, and weekly or more often use is very low. Willingness to use marijuana typically

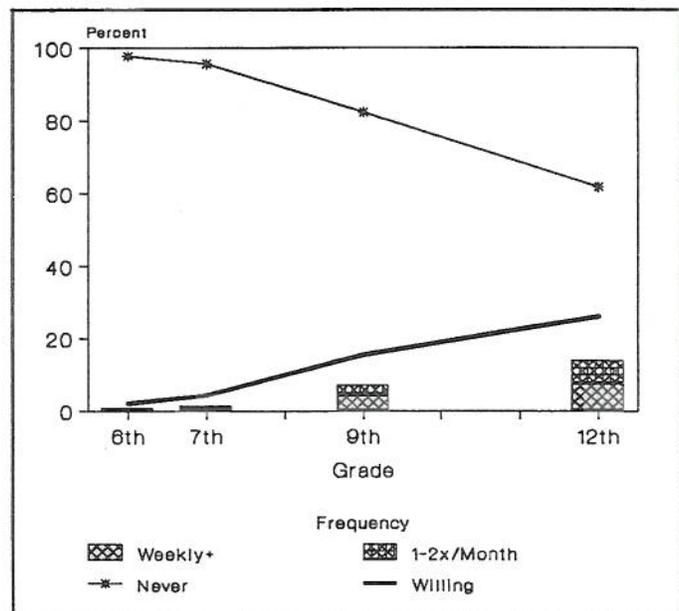


Figure 6 Self-Reported Use of Marijuana

precedes self-reported regular use by approximately one to two years in grades 6 through 10.

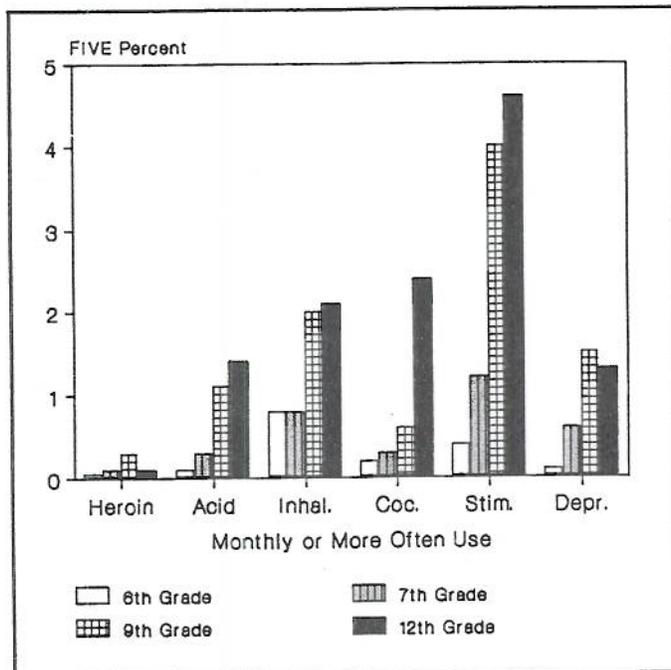


Figure 7 Monthly or More Often Reported Use of "Hard" Drugs

Other Drugs of Abuse

Stimulants - An average of 15 percent of the ninth and twelfth graders and four percent of the sixth and seventh graders are willing to use stimulants. Four and one-half percent of the seniors, four percent of the ninth graders, and an average of one percent of the sixth and seventh graders report using uppers at least once a month.

Cocaine - Among high school seniors, self-reported use of cocaine, as well as intent to use cocaine, has been declining for the last three years. Nevertheless,

seven percent of the Pennsylvania seniors are willing to use or to try cocaine or crack. Two and one-half percent of the seniors report regular use of cocaine. In grade 9, three and one-half percent of the students are willing to use cocaine or crack, and less than one percent report using it at least once a month. In grades 6 and 7, an average of only one percent of the students show interest in cocaine, and reported regular use is one-fourth of one percent.

Depressants - Almost eight percent of the Pennsylvania seniors and seven percent of the ninth graders express intent to use depressants without a physician's prescription. In grades 6 and 7, an average of two percent of the students would be willing to use depressants. An average of one and one-half percent of the ninth graders and seniors and an average of less than one-half of one percent the sixth and seventh graders report regular use of depressants.

Hallucinogens - Almost eight percent of the seniors and five and one-half percent of the ninth graders are interested in trying or using LSD or other hallucinogens. One and one-half percent of the seniors and one percent of the ninth graders report using this type of drug at least once a month. In grades 6 and 7, an average of one percent of the students indicate willingness to use hallucinogens, one-fourth of one percent claim to use them regularly.

Inhalants - An average of ten percent of the Pennsylvania ninth and twelfth graders are willing to use inhalants. An average of two percent of the ninth and twelfth graders report using inhalants monthly or more often. Among sixth and seventh graders, an average of two and one-half percent of the students are willing to use inhalants, and an average of one percent report regular use.

Heroin - Only one and one-half percent of the twelfth graders, two percent of the ninth graders, and less than one percent of the sixth and seventh graders are willing to use heroin. Regular use of heroin among Pennsylvania students is: 0.1 percent in twelfth grade, 0.3 percent in ninth grade, 0.1 percent in seventh grade, and less than 0.1 percent in sixth grade.

Ninety-nine percent of the Pennsylvania ninth graders and seniors have NEVER used heroin; an average of 94 percent of the ninth and twelfth graders have never tried non-prescription depressants, 96 percent of the ninth graders and 92 percent of the seniors have never used hallucinogens, 97 percent of the ninth graders and 90 percent of the seniors have never used cocaine, an average of 88 percent of the ninth and twelfth graders have never experimented with inhalants, and 87 percent of the ninth graders and 80 percent of the twelfth graders have never used stimulants. To put these non-use figures into perspective, see Appendix A to note that 27 percent of the ninth graders and 14 percent of the seniors have NEVER drunk beer.

TABLE 3
SELF REPORTED REGULAR USE OF SUBSTANCES
AND INTENT TO USE SUBSTANCES

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample. No data is given for Intent-to-Use from the 1987-88 Pennsylvania aggregate group because the PPAAUS response format for this series of questions changed between the 87-88 survey and the 88-89 survey.

SUBSTANCE	6	7	8	9	GRADE		
					10	11	12
CIGARETTES, Intent to use Pennsylvania 88-89	16.4	21.9		32.2			36.2
CIGARETTES, Self-reported use Pennsylvania 88-89 PPAAUS 87-88	6.7 2.4	11.7 9.5	15.5	23.2 21.6	26.1 NIDA '88	28.4	30.8 31.1 28.7
SMOKELESS TOBACCO, Intent to use Pennsylvania 88-89	8.3	11.0		15.6			18.5
SMOKELESS TOBACCO, Self-reported use Pennsylvania 88-89 PPAAUS 87-88	3.2 1.8	5.5 2.3	4.3	9.3 7.7	10.5	9.3	12.4 8.2
ALCOHOL, Intent to use (beer, wine and/or liquor) Pennsylvania 88-89	60.2	66.8		82.9			90.5
ALCOHOL, Self-reported use Pennsylvania 88-89 PPAAUS 87-88	7.8 3.6	13.0 15.8	21.3	30.1 32.5	49.7 NIDA '88	53.5	48.9 59.2 63.9
BEER, Intent to use Pennsylvania 88-89	27.5	35.1		59.1			72.5
BEER, Self-reported use Pennsylvania 88-89 PPAAUS 87-88	6.0 3.0	10.5 13.3	18.5	26.3 33.0	44.0	47.2	44.9 54.2
WINE,² Intent to use Pennsylvania 88-89	30.2	38.4		59.3			71.1
WINE, Self-reported use Pennsylvania 88-89	3.3	6.4		14.8			21.4
WINE COOLERS, Intent to use Pennsylvania 88-89	26.7	38.8		63.7			75.9
WINE COOLERS, Self-reported use Pennsylvania 88-89	3.8	8.1		20.2			31.3

(continued)

² Wine and Wine Coolers were combined into one category in Form 8R; in Form 9 they have been separated into two categories. Thus, comparisons to last year's PPAAUS group are not appropriate.

Table 3 (continued)

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample. No data is given for Intent-to-Use from the 1987-88 Pennsylvania aggregate group because the PPAAUS response format for this series of questions changed between the 87-88 survey and the 88-89 survey.

SUBSTANCE	6	7	8	9	GRADE		12
					10	11	
LIQUOR, Intent to use							
Pennsylvania 88-89	11.6	17.9		41.7			58.9
LIQUOR, Self-reported use							
Pennsylvania 88-89	1.9	4.5		15.7			26.1
PPAAUS 87-88	0.6	5.4	9.2	19.1	31.8	34.2	39.1
MARIJUANA, Intent to use							
Pennsylvania 88-89	2.1	4.3		15.5			26.0
MARIJUANA, Self-reported use							
Pennsylvania 88-89	0.6	1.4		7.1			13.9
PPAAUS 87-88	0.0	1.2	3.5	4.3	10.8 NIDA '88	14.1	18.6 18.0
INHALANTS, Intent to use							
Pennsylvania 88-89	2.3	2.9		8.4			10.7
INHALANTS, Self-reported use							
Pennsylvania 88-89	0.8	0.8		2.0			2.1
PPAAUS 87-88	0.0	0.2	1.1	0.4	0.4 NIDA '88	1.5	1.4 3.0
COCAINE, Intent to use							
Pennsylvania 88-89	1.0	1.3		3.4			6.8
COCAINE, Self-reported use							
Pennsylvania 88-89	0.2	0.3		0.6			2.4
PPAAUS 87-88	0.0	0.0	0.2	0.6	0.4 NIDA '88	1.7	2.7 3.4
HEROIN, Intent to use							
Pennsylvania 88-89	0.7	1.0		2.2			1.6
	Heroin was not included in the 1987-88 PPAAUS						
HEROIN, Self-reported use							
Pennsylvania 88-89	0.0*	0.1		0.3			0.1
					NIDA '88		0.2

* This percentage is greater than zero, less than 0.1, and rounds to 0.0.

(continued)

Table 3 (continued)

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample. No data is given for Intent-to-Use from the 1987-88 Pennsylvania aggregate group because the PPAAUS response format for this series of questions changed between the 87-88 survey and the 88-89 survey.

SUBSTANCE	GRADE							
	6	7	8	9	10	11	12	
HALLUCINOGENS, Intent to use Pennsylvania 88-89	0.8	1.4		5.4				7.8
HALLUCINOGENS, Self-reported use Pennsylvania 88-89	0.1	0.3		1.1				1.4
PPAAUS 87-88	0.0	0.0	0.4	0.2	2.2	1.7		1.6
					NIDA '88			2.3
STIMULANTS, Intent to use Pennsylvania 88-89	2.9	5.3		13.3				16.9
STIMULANTS, Self-reported use Pennsylvania 88-89	0.4	1.2		4.0				4.6
PPAAUS 87-88	0.0	1.4	4.7	1.9	3.9	5.7		5.5
					NIDA '88			4.6
DEPRESSANTS, Intent to use Pennsylvania 88-89	1.4	2.7		6.8		7.7		
DEPRESSANTS, Self-reported use Pennsylvania 88-89	0.1	0.6		1.5				1.3
PPAAUS 87-88	1.2	2.6	3.3	1.1	3.2	2.8		2.3
				NIDA '88 (Tranquilizers)				1.5

DRIVER RISKS

At least once a month, 15 percent of the Pennsylvania seniors drive after drinking alcohol. Of the seniors reporting to drink regularly, 27 percent of them report driving under the influence monthly or more often. Recall that: 71 percent of the seniors who report drinking monthly or more often report getting drunk monthly or more often; (Figure 4); and note that a majority of the seniors who report using substances use them at locations from which they probably need transportation

(Table 6). This indicates that many of the Pennsylvania student drivers are at risk. Of the Pennsylvania seniors who report smoking marijuana at least once a month, 47 percent of them report driving under the influence of marijuana monthly or more often; this is another at-risk population.

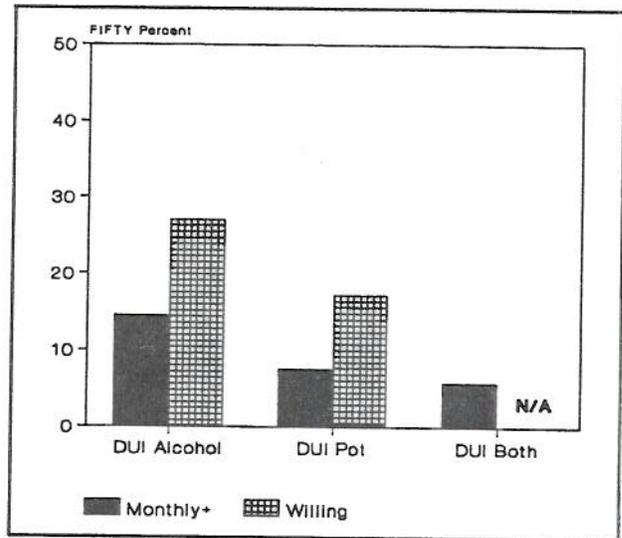


Figure 8 Driving Under the Influence of Alcohol and/or Marijuana

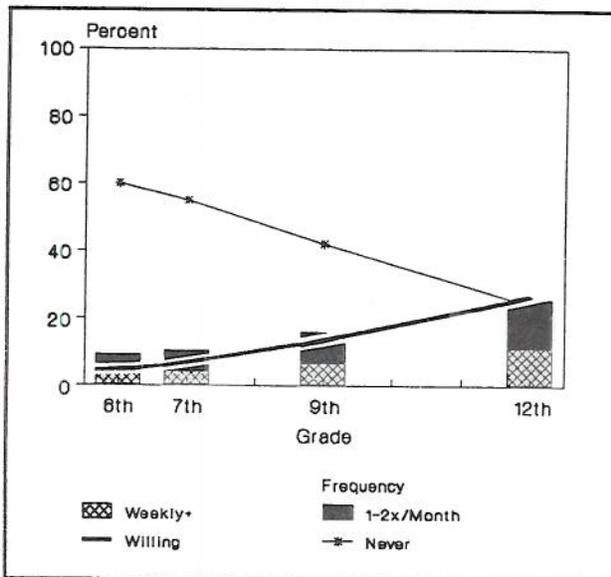


Figure 9 Riding with Alcohol-Impaired Driver

PASSENGER RISKS

An average of ten percent of the sixth and seventh graders, once a month or more often, ride in a vehicle in which the driver was drinking. Sixteen percent of the ninth graders and 26 percent of the seniors are passengers of drinking drivers at least once a month. Note in Table 4 that the percentage of students who regularly ride with alcohol-impaired drivers is higher than the percentage expressing willingness to be passengers of those drivers.

TABLE 4
SELF REPORTED MONTHLY DRIVER/PASSENGER BEHAVIORS
AND INTENT TO TAKE RISKS

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample.

DRIVER/PASSENGER RISK	6	7	8	9	GRADE		
					10	11	12
INTENT TO DRINK AND DRIVE							
Pennsylvania 88-89							
PPAAUS 87-88	1.8	6.1	9.2	11.7	13.8	14.0	22.8
DRINK AND DRIVE							
Pennsylvania 88-89							
PPAAUS 87-88				1.5			14.5
				2.4	3.5	11.5	17.0
INTENT TO SMOKE MARIJUANA AND DRIVE							
Pennsylvania 88-89							
PPAAUS 87-88	0.6	2.8	4.2	5.5	9.4	14.0	19.6
SMOKE MARIJUANA AND DRIVE							
Pennsylvania 88-89							
PPAAUS 87-88				1.0			7.5
				1.0	2.7	4.0	9.8
DRINK AND SMOKE MARIJUANA AND DRIVE							
Pennsylvania 88-89							
				0.9			5.8
This item was not included in the 1987-88 PPAAUS							
INTENT TO RIDE WITH DRINKER							
Pennsylvania 88-89							
PPAAUS 87-88	1.8	6.5	7.4	8.4	13.0	15.3	21.8
RIDE WITH DRINKER							
Pennsylvania 88-89							
PPAAUS 87-88	9.2	10.3		15.9			25.7
	7.8	9.9	13.0	14.0	20.3	21.1	29.9
INTENT TO RIDE WITH MARIJUANA SMOKER							
Pennsylvania 88-89							
PPAAUS 87-88	1.8	2.6	5.8	6.4	13.6	16.7	21.3
RIDE WITH MARIJUANA SMOKER							
Pennsylvania 88-89							
PPAAUS 87-88	2.2	2.6		7.5			15.4
	1.2	1.1	4.9	5.4	9.9	12.8	16.9
RIDE WITH SOMEONE DRINKING AND SMOKING MARIJUANA							
Pennsylvania 88-89							
	1.3	1.5		5.0			11.0
This item was not included in the 1987-88 PPAAUS							
INTENT TO STOP IMPAIRED DRIVER/AT-RISK PASSENGER							
Pennsylvania 88-89							
PPAAUS 87-88	90.6	90.1		86.7			83.3
	97.3	89.2	89.7	90.7	87.3	88.9	85.8

ACTIVITIES AND SUBSTANCE USE

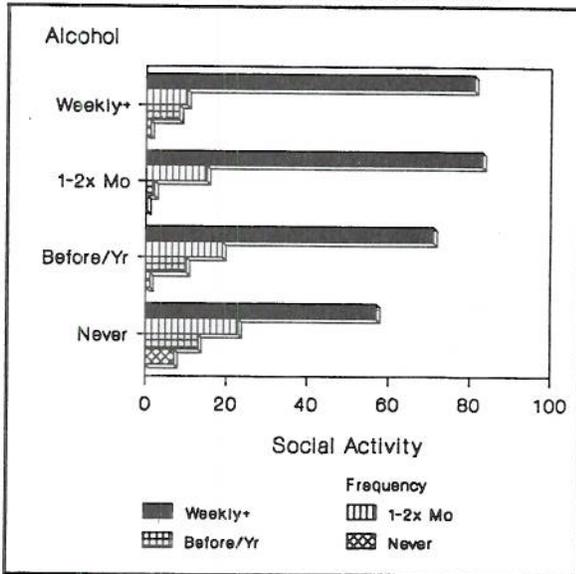


Figure 10 Relationship Between Frequency of Drinking Alcohol and Participation in Entertainment and Social Activities (Class of '89)

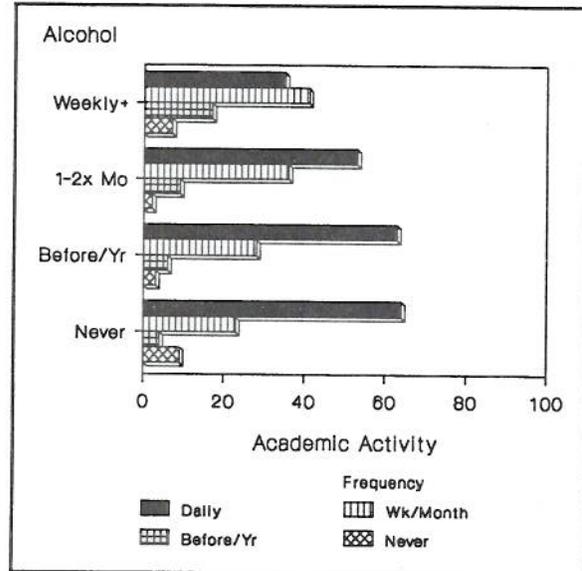


Figure 11 Relationship Between Frequency of Drinking Alcohol and Participation in Academic Activities (Class of '89)

Figures 10 through 13 present examples of relationships between activities and substance use. In these examples, the bars represent sub-populations of twelfth graders within the Commonwealth: those who drink alcohol or smoke marijuana at least once a week; those who drink alcohol or smoke marijuana once or twice a month; those who drink alcohol or smoke marijuana only once or twice a year (or who have done so before but not any more); and those who have never drunk alcohol or smoked marijuana. Note that the relationship between drinking alcohol (or smoking marijuana) and academic activities is a **negative** one - those students who drink (or smoke) more frequently are typically those who do homework and school-related work less often. For example, more than 60 percent of the seniors who never smoke marijuana do some sort of school work daily, and only 30 percent of the students who smoke marijuana regularly do homework every day. The relationship between drinking and entertainment is a **positive** one - those students who drink more frequently engage in social activities more often. In the Pennsylvania Schools, approximately 60 percent of the seniors who do not drink alcohol engage in entertainment activities at least once a week; almost 85 percent of the students who drink alcohol monthly or more often take part in social activities at least once a week. Among

seniors, no strong correlation appears to exist between smoking marijuana and participating in social activities (see Fig. 12).

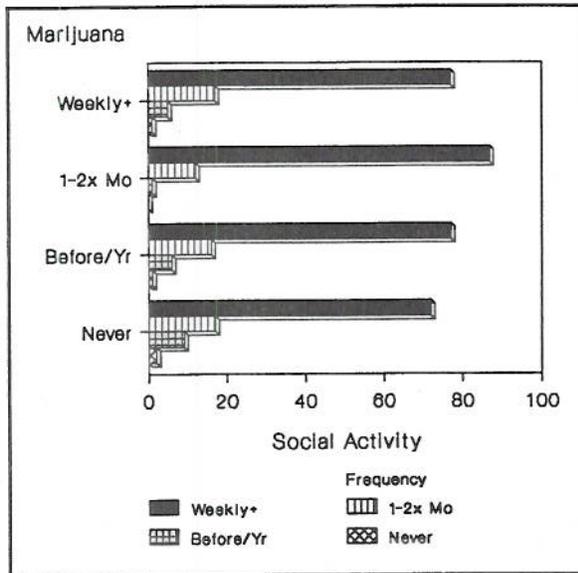


Figure 12 Relationship Between Frequency of Smoking Marijuana and Participation in Entertainment and Social Activities (Class of '89)

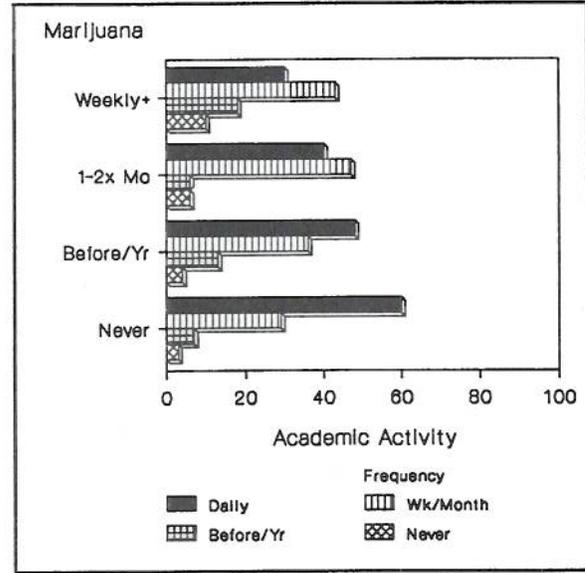


Figure 13 Relationship Between Frequency of Smoking Marijuana and Participation in Academic Activities (Class of '89)

TABLE 5
ACTIVITIES

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample.

ACTIVITY - frequency	GRADE						
	6	7	8	9	10	11	12
ENTERTAINMENT / SOCIAL ACTIVITIES - once a week or more							
Pennsylvania 88-89	31.0	38.3		55.0			75.5
PPAAUS 87-88	35.1	35.1	42.2	56.0	63.0	72.8	80.9
ACADEMIC ACTIVITIES - daily							
Pennsylvania 88-89	75.9	72.8		65.4			53.6
PPAAUS 87-88	79.6	75.5	75.5	72.3	69.8	71.6	68.2
PHYSICAL ACTIVITIES / SPORTS - daily							
Pennsylvania 88-89	48.6	48.6		50.1			40.2
PPAAUS 87-88	49.1	50.7	55.9	49.8	46.2	44.9	40.9
RELIGIOUS ACTIVITIES - once a week or more							
Pennsylvania 88-89	54.4	49.7		41.0			31.9
PPAAUS 87-88	56.3	46.3	47.3	46.1	40.6	39.9	41.5
EXTRACURRICULAR ACTIVITIES AND HOBBIES - once a week or more							
Pennsylvania 88-89	58.4	55.3		49.9			54.5
PPAAUS 87-88	68.2	59.2	62.8	58.6	53.9	57.5	65.7
WORK-FOR-PAY ACTIVITIES - once a week or more							
Pennsylvania 88-89	62.4	60.9		60.2			77.1
PPAAUS 87-88	40.0	45.1	48.8	42.5	50.4	68.9	71.5

PRIMARY LOCATIONS OF USE

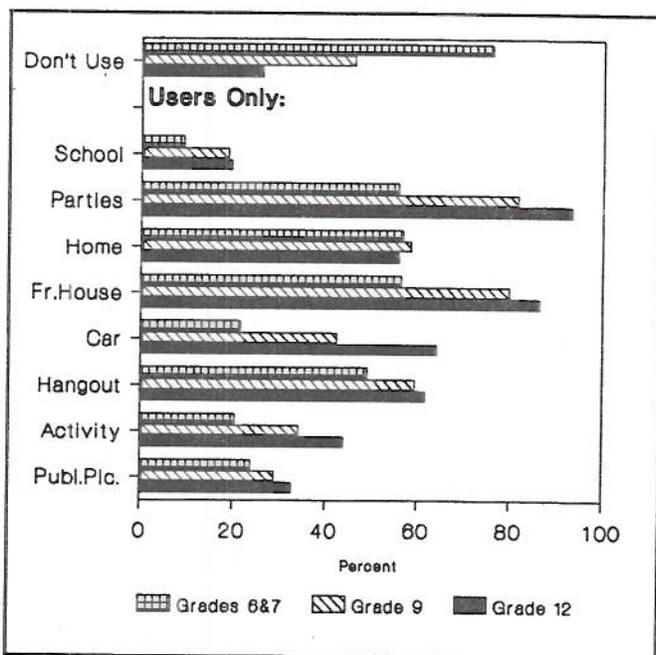


Figure 14 Locations of Use - Grades 6-12

Approximately three-fourths of the sixth and seventh graders, 46 percent of the ninth graders and 26 percent of the seniors respond that they do not use tobacco, alcohol, and/or other drugs. The term "use" is flexible for individual interpretation; for example, a student who drinks only on one holiday may consider him(her)self a drinker, while a student who drinks wine with every Sunday dinner may not.) Of those students who report using at least one substance, a great majority of them report the primary location of use as parties, vehicles, or

hangouts--locations to and from which transportation is needed.

Note: Location figures in Table 6 are for those students reporting to use substances in at least one location--non-users are not included. Table 86A in Appendix A provides location information for the entire survey population. No data is included for the 1987-88 PPAAUS group because the response formats are drastically different between the two forms of PPAAUS.

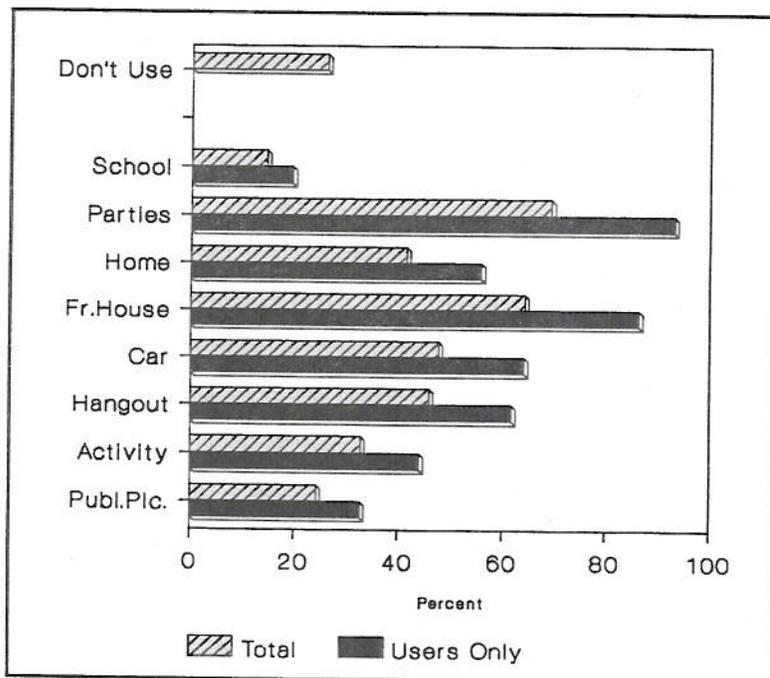


Figure 15 Seniors - Locations of Use

PRIMARY SOURCES FOR SUBSTANCES

Of those students reporting to use at least one substance, many identify at least one of their sources as a peer--friends, students at school, or out-of-school kids.

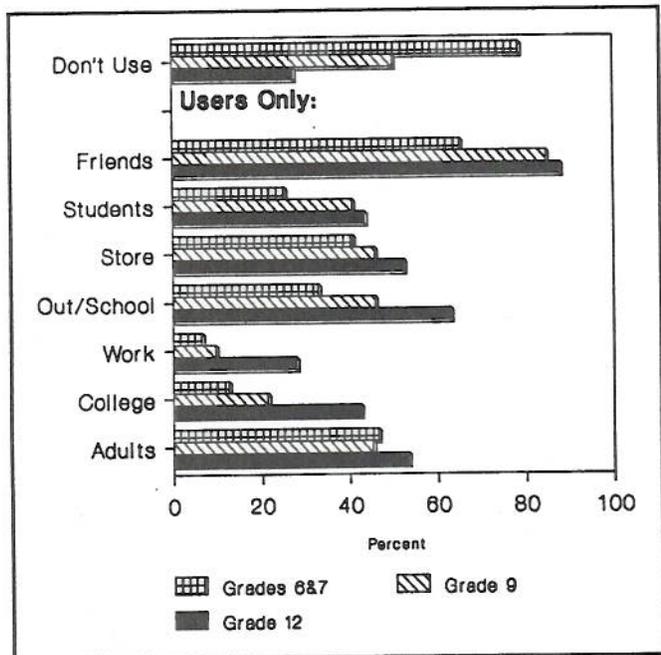


Figure 16 Sources for Substances - Grades 6-12

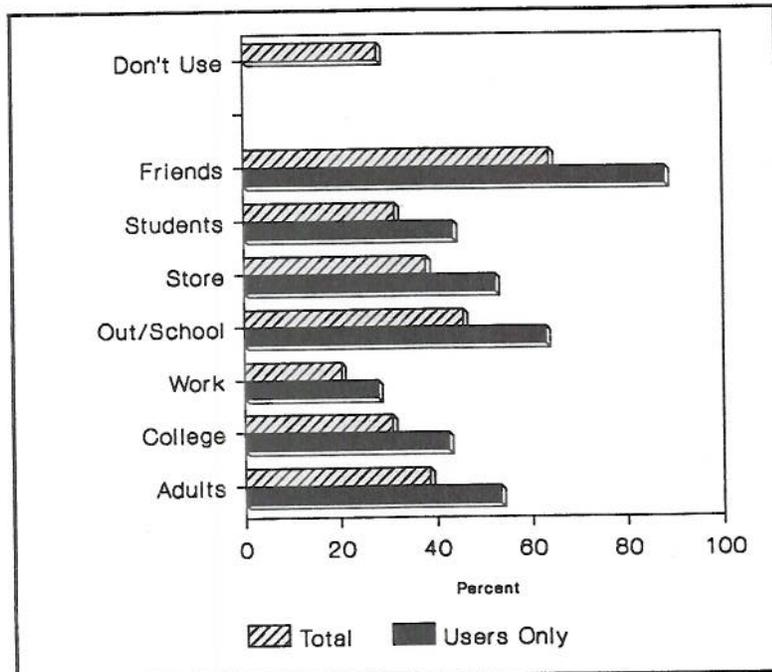


Figure 17 Seniors - Sources for Substances

Note: Source figures in Table 7 are for those students reporting to get substances from at least one source--non-users are not included. Table 87A in Appendix A provides source information for the entire survey population. No data is included for the 1987-88 PPAAUS group because the response formats are drastically different between the two forms of PPAAUS.

TABLE 6
LOCATIONS OF SUBSTANCE USE

	GRADE						
	6	7	8	9	10	11	12
DON'T USE							
Pennsylvania 88-89	79.2	71.8		46.4			25.6
ONLY THOSE WHO REPORT USING AT LEAST ONE SUBSTANCE:							
IN SCHOOL							
Pennsylvania 88-89	7.7	10.5		18.7			19.4
AT A PARTY							
Pennsylvania 88-89	48.4	62.9		81.7			93.3
AT HOME							
Pennsylvania 88-89	57.8	55.6		58.5			55.8
AT A FRIEND'S HOME							
Pennsylvania 88-89	49.0	64.0		79.8			86.4
IN A CAR							
Pennsylvania 88-89	17.1	25.6		42.5			64.1
AT A HANGOUT							
Pennsylvania 88-89	44.4	53.7		59.5			61.7
BEFORE/AFTER A SCHOOL ACTIVITY							
Pennsylvania 88-89	17.2	23.7		34.3			44.0
IN A PUBLIC PLACE							
Pennsylvania 88-89	21.9	25.8		29.0			32.7

TABLE 7
SOURCES FOR SUBSTANCES

SOURCE	GRADE						
	6	7	8	9	10	11	12
DON'T USE							
Pennsylvania 88-89	81.9	75.2		50.1			27.5
ONLY THOSE WHO REPORT USING AT LEAST ONE SUBSTANCE:							
FRIENDS							
Pennsylvania 88-89	58.4	71.9		84.8			88.0
STUDENTS AT SCHOOL							
Pennsylvania 88-89	19.5	30.4		40.7			43.5
A STORE							
Pennsylvania 88-89	36.2	45.3		45.7			52.4
OUT-OF-SCHOOL KIDS							
Pennsylvania 88-89	30.3	35.0		45.9			63.0
PEOPLE AT WORK							
Pennsylvania 88-89	5.5	7.2		9.7			27.9
COLLEGE STUDENTS							
Pennsylvania 88-89	12.8	12.4		21.4			42.5
ADULTS							
Pennsylvania 88-89	49.8	43.3		45.2			53.3

NEGATIVE/DISRUPTIVE BEHAVIORS

Negative behaviors are highly correlated with the use of tobacco, alcohol and other drugs. One of the best predictors of tobacco, alcohol and drug use is frequency of staying out without a parent's permission. Cheating on a class test, on the other hand, is becoming less strong a predictor because of the increasing universality of this negative behavior. In the Pennsylvania Schools, an average of one-fourth of the ninth graders and seniors report cheating on a test at least once a month.

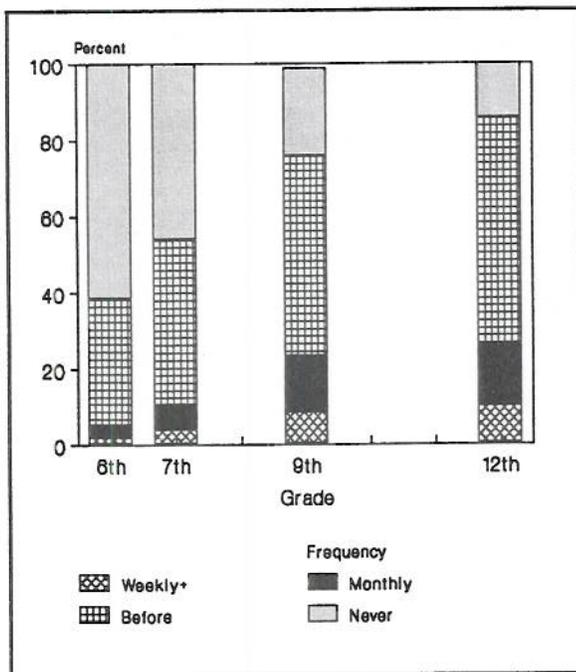


Figure 18 Cheat on Tests

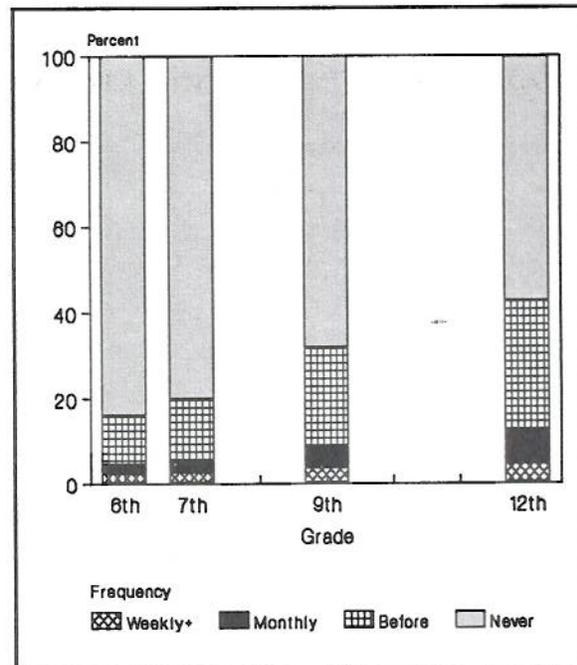


Figure 19 Stay Out Without Parent's Permission

TABLE 8
NEGATIVE/DISRUPTIVE BEHAVIORS

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample.

NEGATIVE BEHAVIOR at least once a month	GRADE						
	6	7	8	9	10	11	12
SENT OUT OF CLASS BY A TEACHER							
Pennsylvania 88-89	10.1	11.3		7.9			3.1
PPAAUS 87-88	15.0	16.0	11.6	11.3	9.0	6.3	4.9
SKIPPED SCHOOL							
Pennsylvania 88-89	2.0	2.7		6.9			13.9
	This item was not included in the 1987-88 PPAAUS						
TOOK MONEY OR SOMETHING FROM SOMEONE							
Pennsylvania 88-89	3.9	5.4		6.5			4.6
PPAAUS 87-88	7.2	10.5	11.2	12.2	9.5	12.0	7.3
TOOK SOMETHING FROM A STORE							
Pennsylvania 88-89	2.8	4.1		6.0			4.4
PPAAUS 87-88	1.8	3.5	4.6	5.0	7.7	7.9	4.1
CHEATED ON A CLASS TEST							
Pennsylvania 88-89	5.2	10.5		24.1			26.2
PPAAUS 87-88	6.0	18.0	24.7	29.3	43.3	44.0	32.4
WAS DRUNK							
Pennsylvania 88-89	2.3	5.1		18.9			38.5
PPAAUS 87-88	6.0	6.5	12.3	22.0	40.7	44.9	50.6
WAS HIGH							
Pennsylvania 88-89	0.6	1.4		7.0			13.9
PPAAUS 87-88	0.0	1.9	2.9	3.7	9.7	12.1	10.9
STAYED OUT WITHOUT PARENT'S PERMISSION							
Pennsylvania 88-89	4.3	5.3		8.6			11.9
PPAAUS 87-88	3.0	7.2	8.9	9.4	14.9	15.9	15.4
VANDALIZED SCHOOL PROPERTY							
Pennsylvania 88-89	1.6	2.0		3.5			1.8
PPAAUS 87-88	1.2	8.6	9.4	9.8	10.2	7.7	7.3

TABLE 9
RESOURCE PERSONS

No comparison will be made in this chart because the response format in PPAAUS Form 9 is not the same as in the 1987-88 PPAAUS. In the pre-88 versions of PPAAUS, Yes or No were the only response options; Form 9 allows for a Maybe response.

RESOURCE Yes response	GRADE						
	6	7	8	9	10	11	12
FRIEND (PEER) Pennsylvania 88-89	47.3	56.7		69.8			78.7
TEACHER Pennsylvania 88-89	28.4	18.6		11.9			13.0
COACH Pennsylvania 88-89	21.4	19.0		15.8			15.2
FRIEND (ADULT) Pennsylvania 88-89	48.1	43.4		42.9			50.1
CHURCH MEMBER Pennsylvania 88-89	31.2	26.2		18.0			14.6
DOCTOR Pennsylvania 88-89	37.9	28.8		21.3			22.3
COUNSELOR IN A DRUG CENTER Pennsylvania 88-89	51.9	44.4		36.0			34.3
POLICE Pennsylvania 88-89	21.2	14.0		7.4			5.2
STUDENT SUPPORT GROUP Pennsylvania 88-89	28.2	24.2		19.7			20.0
SCHOOL COUNSELOR Pennsylvania 88-89	39.2	33.0		22.5			17.5
ADMINISTRATOR Pennsylvania 88-89	20.3	13.8		7.4			6.4

Table 9 above shows the percentage of Pennsylvania students who responded "Yes," they would be willing to talk with a particular resource about a potential alcohol or drug problem. This information is helpful in determining which resources gain or lose credibility as the students mature, and which of the resources should be prepared to make referrals to other persons.

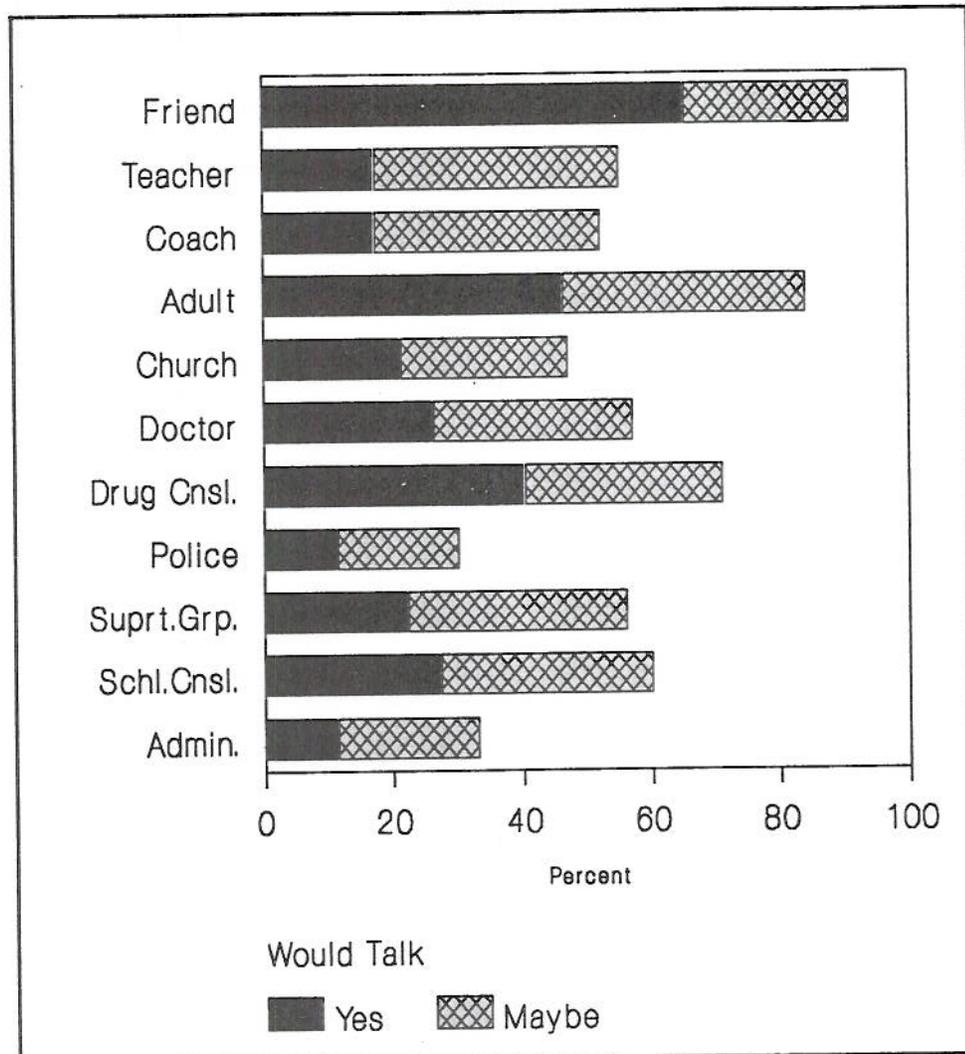


Figure 20 Potential Resource Persons

When Pennsylvania students choose a person to whom they would be willing to talk about problems (their own or those of a friend) concerning tobacco, alcohol or other drugs, an average of 65 percent choose, without a doubt, a peer. The second most preferred resource is an adult friend. Low on this scale are school administrators and police. An average of 17 percent of the students would definitely share their concerns with a teacher, and 27 percent would definitely turn to a school counselor. In the Pennsylvania Schools, the percentage of students willing to turn to any authority figure generally decreases through ninth grade and appears to remain fairly constant through twelfth grade.

DECISION MAKING FACTORS

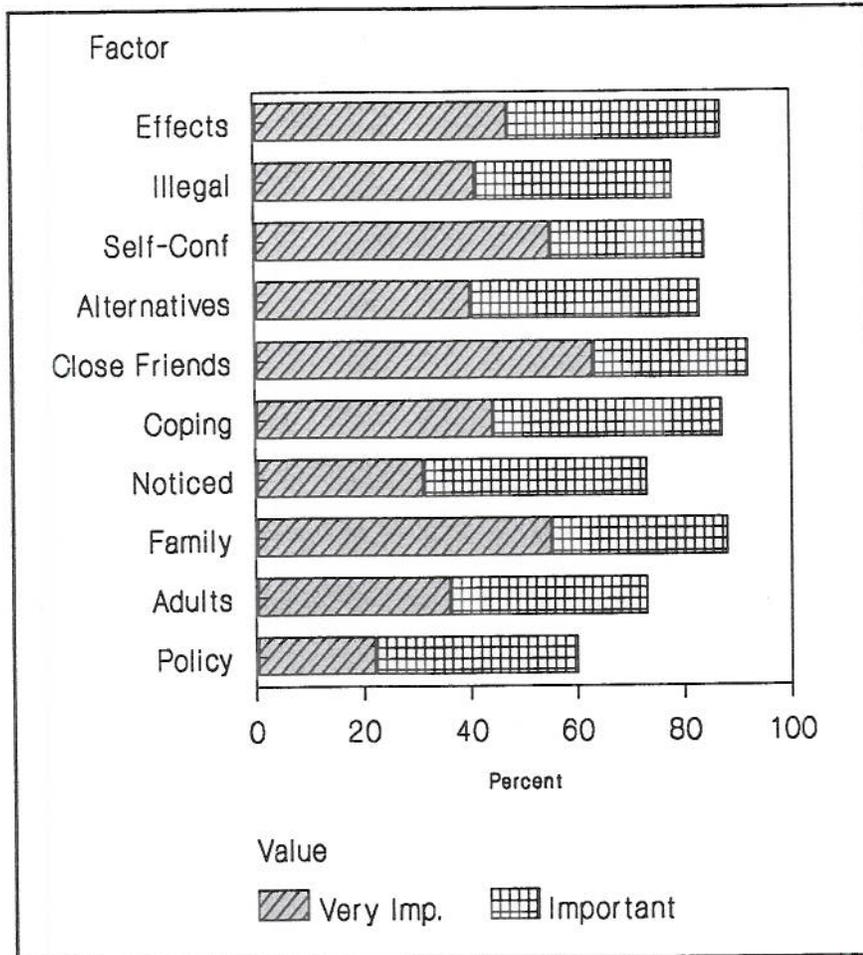


Figure 21 Decision-Making Factors

Among the decision-making items presented to the Pennsylvania students, the most important factors (based on the percentage of students responding that an option is Very Important) are 1) having close friends who accept them as they are, 2) being self confident and not disappointing family members, and 3) knowing the effects of substances. The items that students think are least important in their decision-making processes are 1) a strict school policy, 2) having academic efforts noticed, and 3) adults as role models. This does NOT mean that these factors are unimportant to students, but rather implies that the students are unaware of the importance.

TABLE 10
DECISION-MAKING FACTORS

Please remember that PPAAUS 87-88 data is taken from a population that cannot be considered a random sample.

FACTOR (RATED AS "VERY" IMPORTANT)	GRADE						
	6	7	8	9	10	11	12
KNOWLEDGE ABOUT EFFECTS OF SUBSTANCES							
Pennsylvania 88-89	58.3	51.9		43.6			39.0
PPAAUS 87-88	67.1	56.5	53.1	43.5	40.6	39.9	45.3
KNOWING IT'S AGAINST THE LAW							
Pennsylvania 88-89	61.9	51.5		35.7			26.0
	This item was not included in the 1987-88 PPAAUS						
SELF-CONFIDENCE							
Pennsylvania 88-89	68.0	61.6		49.9			47.6
PPAAUS 87-88	71.3	64.5	59.4	49.4	45.8	49.0	53.1
INVOLVEMENT WITH INTERESTING ALTERNATIVES							
Pennsylvania 88-89	45.3	42.8		38.4			35.3
PPAAUS 87-88	48.8	45.5	45.4	38.1	40.0	40.6	35.3
CLOSE FRIENDS - BEING ACCEPTED "AS IS"							
Pennsylvania 88-89	68.1	66.2		60.6			57.0
PPAAUS 87-88	67.7	66.6	67.3	61.6	59.6	58.3	55.4
ABILITY TO COPE WITH SCHOOL PRESSURES							
Pennsylvania 88-89	51.8	47.4		40.3			38.6
PPAAUS 87-88	53.9	49.3	47.4	41.4	35.4	39.8	37.0
HAVING ACADEMIC EFFORTS NOTICED							
Pennsylvania 88-89	41.8	35.9		28.4			20.9
	This item was not included in the 1987-88 PPAAUS						
NOT DISAPPOINTING FAMILY							
Pennsylvania 88-89	71.9	64.3		50.9			42.1
	This item was not included in the 1987-88 PPAAUS						
ADULTS AS ROLE MODELS							
Pennsylvania 88-89	43.3	38.4		33.4			29.9
PPAAUS 87-88	29.1	32.4	30.6	28.5	36.7	31.1	29.2
FAIR, CONSISTENT, STRICT SCHOOL POLICY							
Pennsylvania 88-89	37.6	28.4		17.2			12.9
PPAAUS 87-88	28.7	27.1	22.3	13.7	11.9	10.8	13.6

REFERENCES

Some suggested readings
to supplement Data Base PPAAUS Needs Assessment

- Degnan, J., Klitzner, M., and Swisher, J. (1981) Using existing tests and measures. In L. Aiken (Ed.), Prevention evaluation monographs: Outcome evaluation. Rockville, MD: National Institute on Drug Abuse.
- Grimes, J. and Swisher, J. (In press, 1988) Decision making and substance abuse. Journal of Drug Education.
- Horan, J., Shute, R., Swisher, J., and Westcott, T. (1973) A training model for drug abuse prevention: Content and evaluation. Journal of Drug Education, 3, 121-126.
- Horan, J., Westcott, T., Vetovich, C., and Swisher, J. (1974) Drug Usage: An experimental comparison of three assessment conditions. Psychological Reports, 35, 211-215.
- Hu, T. and Swisher, J. (1981) Prevention evaluation findings: Programs for pre-school children. In B. Bukoski, Prevention Evaluation. Rockville, MD: National Institute on Drug Abuse.
- Klein, M. and Swisher, J. (1983) A statewide evaluation of a communication and parenting skills program. Journal of Drug Education, 13, 73-82.
- Shute, R. and Swisher, J. (1974) Training models for drug abuse prevention recommendations for the future. Journal of Drug Education, 4, 169-178.
- Swisher, J. (1976) An education policy for school prevention: Rationale and research. Contemporary Policy Issues, 4, 27-35.
- Swisher, J. and Bibeau, D. (1987) Who's driving home? Journal of Alcohol and Drug Education, 32, 25-27.
- Swisher, J., Crawford, J., Goldstein, R., and Yura, M. (1971) Drug Education: Pushing or preventing? Peabody Journal of Education, 49, 68-75.
- Swisher, J. and Hu, T. (1983) Alternatives to drug abuse: Some are and some are not. In T. Glynn, C. Leukefeld, and J. Ludford (eds.), Preventing adolescent drug abuse. NIDA Research Monograph 47, Rockville, MD: National Institute on Drug Abuse.
- Swisher, J. and Hu, T. (1984) A review of the reliability and validity of the drug abuse warning network. The International Journal of Addiction, 19, 57-77.
- Swisher, J., Nesselroade, C., and Tatanish, C. (1985) Here's Looking At You Two is looking good: An experimental analysis. Journal of Humanistic Education and Development, 24, 111-119.
- Swisher, J., Shute, R., and Bibeau, D. (1984) Assessing drug and alcohol abuse; an instrument for planning and evaluation. Measurement and Evaluation in Guidance, 17, 91-97.
- Swisher, J., Shute, R., and Pursell, R. (1975) A self-study guide for evaluating drug and alcohol education programs. Final report to Governor's Council on Drug and Alcohol Abuse. 18pp.
- Swisher, J., Warner, R., and Herr, E. (1972) An experimental comparison of four approaches to drug education, Journal of Counseling Psychology, 18, 328-332.
- Vicary, J., Swisher, J., and Campbell, R. (1977) One school's approach to planning for affective education. The Humanistic Educator, 15, 193-201.
- Wolford, C. and Swisher, J. (1986) Behavioral intention as an indication of drug use. Journal of Drug Education, 16, 305-327.

APPENDIX A
INDIVIDUAL ITEM CROSSTABULATIONS

APPENDIX A
PENNSYLVANIA SCHOOLS
CROSSTABULATIONS

TABLE 1A
PENNSYLVANIA SCHOOLS 1988-89
POPULATION

	6	7	Grade 9	12
Population	7068	10445	9930	10392

Numbers in Table 1A include only those students in the Pennsylvania Schools aggregate sample. In addition to the 37,835 students shown above, 922 completed the survey but did not fill in their grades, and many students in other grades completed the survey and will be included in individual district reports: 140 fifth graders, 1031 eighth graders, 1231 tenth graders, and 1282 eleventh graders.

A non-available substance is included in the list of substances presented to the students in the self-reported use scale. Table 2A presents the response pattern of Pennsylvania Schools students to the survey item concerning use of "serotonin." The survey of any student claiming to have used "serotonin" in the last year was eliminated from the analyses. In the Pennsylvania Schools (grades 6, 7, 9 and 12), 810 students--2.14 percent--reported that they had used the bogus drug in the last year. In Table 2A and in all following tables, information will be presented as percentages.

TABLE 2A
PENNSYLVANIA SCHOOLS 1988-89
SELF-REPORTED USE OF SEROTONIN

Frequency of Use	6	7	Grade 9	12
Never	98.8	98.8	97.0	97.6
Before, Not in Year	0.4	0.5	1.1	1.0
1-2x Per Year	0.2	0.3	0.6	0.5
1-2x Per Month	0.1	0.2	0.4	0.3
1-2x Per Week	0.1	0.1	0.4	0.3
Almost Daily	0.3	0.3	0.4	0.3

After eliminating "serotonin" users, crosstabulations by grade were conducted on each item in the survey. The number of Pennsylvania Schools students used in all statistical analyses (total number participating minus "serotonin" users) is 37,025. The tables that follow are in the order in which items appear on the PPAAUS survey.

TABLE 3A
PENNSYLVANIA SCHOOLS 1988-89
GENDER COMPOSITION

Gender	6	7	Grade 9	12
Male	49.9	50.2	50.7	49.5
Female	50.1	49.8	49.3	50.5

Average across all grades: Male 50.2; Female 49.8

TABLE 4A
PENNSYLVANIA SCHOOLS 1988-89
SELF-ESTIMATED GRADE AVERAGE

Estimated Average	6	7	Grade 9	12
Excellent	12.6	8.6	7.4	8.1
Very Good	28.8	25.6	21.2	24.5
Good	30.8	31.9	34.7	36.4
Average	21.7	27.2	31.1	28.6
Below Average	4.6	5.4	4.6	2.0
Poor	1.5	1.3	1.0	0.3

Average across all grades: Excellent 8.8; Very Good 24.5; Good 34.0; Average 27.7; Below Average 4.1; Poor 1.0

TABLE 5A
PENNSYLVANIA SCHOOLS 1988-89
ATTITUDE ABOUT SCHOOL IN GENERAL

Attitude	6	7	Grade 9	12
Positive (response options 5-7)	51.4	48.1	46.5	46.9
Average (4)	23.5	24.6	25.9	26.4
Negative (1-3)	25.1	27.3	27.5	26.7

Average across all grades: Positive 47.9; Average 25.2; Negative 27.9

TABLE 6A
PENNSYLVANIA SCHOOLS 1988-89
ATTITUDE ABOUT TEACHERS

Attitude	6	7	Grade 9	12
Positive (response options 5-7)	74.8	63.5	51.9	54.3
Average (4)	13.2	18.4	23.8	25.2
Negative (1-3)	12.0	18.1	24.4	20.5

Average across all grades: Positive 59.4; Average 21.1; Negative 19.4

TABLE 7A
PENNSYLVANIA SCHOOLS 1988-89
ATTITUDE ABOUT SUBJECTS

Attitude	6	7	Grade 9	12
Positive (response options 5-7)	46.8	39.2	36.2	38.8
Average (4)	24.0	25.0	26.6	27.9
Negative (1-3)	29.3	35.8	37.2	33.4

Average across all grades: Positive 39.4; Average 26.1; Negative 34.5

TABLE 8A
PENNSYLVANIA SCHOOLS 1988-89
ATTITUDE ABOUT CLASSMATES

Attitude	6	7	Grade 9	12
Positive (response options 5-7)	76.7	79.3	80.9	77.4
Average (4)	14.0	12.1	12.0	13.8
Negative (1-3)	9.3	8.6	7.1	8.7

Average across all grades: Positive 79.0; Average 12.8; Negative 8.2

TABLE 9A
PENNSYLVANIA SCHOOLS 1988-89
HELPED A FRIEND WITH A PROBLEM

Frequency	6	7	Grade 9	12
Never	10.2	8.9	6.5	3.1
Not Within Past Year	7.3	6.7	5.5	3.4
1-2x Per Month	17.6	18.6	18.3	21.4
1-2x Per Week	25.9	26.8	27.6	30.9
Almost Daily	20.2	20.2	24.1	24.9

Average across all grades: Never 6.9; Not in Year 5.5; Month 19.1; Week 28.1; Daily 22.5

TABLE 10A
PENNSYLVANIA SCHOOLS 1988-89
SENT OUT OF CLASS BY A TEACHER

Frequency	6	7	Grade 9	12
Never	55.7	51.9	47.7	55.7
Not Within Past Year	19.8	21.1	29.3	32.1
1-2x Per Month	5.4	6.4	4.8	1.8
1-2x Per Week	3.1	3.5	2.1	0.8
Almost Daily	1.6	1.4	1.0	0.5

Average across all grades: Never 52.3; Not in Year 26.4; Month 4.5; Week 2.3; Daily 1.1

TABLE 11A
PENNSYLVANIA SCHOOLS 1988-89
SKIPPED SCHOOL WITHOUT AN EXCUSE

Frequency	6	7	Grade 9	12
Never	85.4	84.1	65.6	39.0
Not Within Past Year	6.9	7.0	12.2	16.3
1-2x Per Month	1.4	1.8	4.8	10.5
1-2x Per Week	0.4	0.7	1.6	2.9
Almost Daily	0.2	0.2	0.5	0.5

Average across all grades: Never 66.5; Not in Year 11.1; Month 4.9; Week 1.5; Daily 0.4

TABLE 12A
PENNSYLVANIA SCHOOLS 1988-89
TAKEN MONEY OR SOMETHING FROM SOMEONE

Frequency	Grade			
	6	7	9	12
Never	70.4	64.3	57.8	62.9
Not Within Past Year	19.6	22.4	24.3	22.0
1-2x Per Month	2.0	3.0	3.7	2.8
1-2x Per Week	1.3	1.6	1.8	1.2
Almost Daily	0.6	0.8	1.0	0.6

Average across all grades: Never 62.9; Not in Year 22.5; Month 3.0; Week 1.5; Daily 0.7

TABLE 13A
PENNSYLVANIA SCHOOLS 1988-89
DONE VOLUNTEER WORK (SCHOOL OR COMMUNITY)

Frequency	Grade			
	6	7	9	12
Never	23.3	27.8	31.6	25.3
Not Within Past Year	15.6	18.1	21.2	23.1
1-2x Per Month	15.5	13.3	10.4	10.9
1-2x Per Week	10.6	7.6	6.0	6.2
Almost Daily	6.3	3.9	2.4	3.8

Average across all grades: Never 27.5; Not in Year 20.0; Month 12.2; Week 7.2; Daily 3.9

TABLE 14A
PENNSYLVANIA SCHOOLS 1988-89
TAKEN SOMETHING FROM A STORE

Frequency	Grade			
	6	7	9	12
Never	78.0	72.2	61.4	60.5
Not Within Past Year	15.9	19.4	24.7	27.5
1-2x Per Month	1.5	2.1	3.5	2.3
1-2x Per Week	0.8	1.3	1.7	1.3
Almost Daily	0.5	0.7	0.8	0.8

Average across all grades: Never 66.8; Not in Year 22.8; Month 2.4; Week 1.3; Daily 0.7

TABLE 15A
PENNSYLVANIA SCHOOLS 1988-89
CHEATED ON A CLASS TEST

Frequency	Grade			
	6	7	9	12
Never	61.6	46.2	23.1	14.4
Not Within Past Year	22.6	25.1	22.5	23.8
1-2x Per Month	3.1	6.4	14.4	15.9
1-2x Per Week	1.5	3.0	7.1	7.8
Almost Daily	0.6	1.1	2.6	2.5

Average across all grades: Never 33.3; Not in Year 23.8; Month 10.6; Week 5.1; Daily 1.8

TABLE 16A
PENNSYLVANIA SCHOOLS 1988-89
WAS DRUNK

Frequency	6	7	Grade 9	12
Never	86.3	78.8	51.3	24.5
Not Within Past Year	7.5	9.1	12.7	12.0
1-2x Per Month	1.2	3.1	11.4	21.6
1-2x Per Week	0.7	1.5	6.5	15.4
Almost Daily	0.4	0.5	1.0	1.5

Average across all grades: Never 56.7; Not in Year 10.8; Month 10.4; Week 6.7; Daily 0.9

TABLE 17A
PENNSYLVANIA SCHOOLS 1988-89
WAS HIGH ON DRUGS

Frequency	6	7	Grade 9	12
Never	98.1	95.7	83.0	62.6
Not Within Past Year	0.9	1.9	5.2	14.0
1-2x Per Month	0.3	0.6	3.2	6.5
1-2x Per Week	0.1	0.5	2.8	4.5
Almost Daily	0.2	0.3	1.0	2.9

Average across all grades: Never 82.9; Not in Year 6.1; Month 3.0; Week 2.2; Daily 1.3

TABLE 18A
PENNSYLVANIA SCHOOLS 1988-89
STAYED OUT ALL NIGHT WITHOUT A PARENT'S PERMISSION

Frequency	6	7	Grade 9	12
Never	84.0	80.2	68.3	57.4
Not Within Past Year	7.0	8.1	11.7	14.1
1-2x Per Month	2.0	2.7	4.9	7.3
1-2x Per Week	1.4	1.7	2.7	3.6
Almost Daily	0.9	0.9	1.0	1.0

Average across all grades: Never 71.0; Not in Year 10.6; Month 4.5; Week 2.4; Daily 1.0

TABLE 19A
PENNSYLVANIA SCHOOLS 1988-89
BROKEN OR VANDALIZED SCHOOL PROPERTY

Frequency	6	7	Grade 9	12
Never	89.3	85.5	78.7	82.9
Not Within Past Year	7.0	9.3	12.0	10.7
1-2x Per Month	0.9	1.0	1.7	0.9
1-2x Per Week	0.3	0.5	0.8	0.4
Almost Daily	0.4	0.5	1.0	0.5

Average across all grades: Never 83.6; Not in Year 10.1; Month 1.1; Week 0.5; Daily 0.6

TABLE 20A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE CIGARETTES

Willingness	6	7	Grade 9	12
No	65.5	58.3	48.0	45.4
Probably Not	18.1	19.8	19.7	18.4
Unsure	8.2	9.7	9.6	7.0
Probably Yes	4.3	5.0	6.7	6.6
Any Chance	3.9	7.2	15.9	22.6

Average across all grades: No 52.8; Probably Not 19.1; Unsure 8.6; Probably Yes 5.9; Yes 13.6

TABLE 21A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE CHEWING TOBACCO OR SNUFF

Willingness	6	7	Grade 9	12
No	79.8	75.6	70.7	69.8
Probably Not	11.8	13.4	13.1	11.7
Unsure	4.0	4.6	5.6	4.5
Probably Yes	2.2	2.6	4.2	4.5
Any Chance	2.1	3.8	6.4	9.5

Average across all grades: No 73.3; Probably Not 12.6; Unsure 4.8; Probably Yes 3.5; Yes 5.8

TABLE 22A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE BEER

Willingness	6	7	Grade 9	12
No	48.7	40.9	22.7	14.2
Probably Not	25.1	25.3	20.3	15.6
Unsure	17.5	19.7	21.6	19.2
Probably Yes	8.0	10.4	19.5	25.5
Any Chance	4.2	7.6	19.9	32.0

Average across all grades: No 29.3; Probably Not 21.1; Unsure 16.9; Probably Yes 17.1; Yes 17.4

TABLE 23A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE WINE

Willingness	6	7	Grade 9	12
No	44.7	36.3	20.4	13.2
Probably Not	25.1	25.3	20.3	15.6
Unsure	17.5	19.7	21.6	19.2
Probably Yes	9.1	12.1	21.4	29.3
Any Chance	3.6	6.6	16.3	22.6

Average across all grades: No 26.5; Probably Not 21.1; Unsure 19.8; Probably Yes 19.3; Yes 13.3

TABLE 24A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE WINE COOLERS

Willingness	6	7	Grade 9	12
No	51.1	39.8	19.8	11.9
Probably Not	22.1	21.4	16.4	12.1
Unsure	13.9	17.9	18.5	15.8
Probably Yes	8.3	12.1	22.4	29.0
Any Chance	4.5	8.8	22.8	31.1

Average across all grades: No 28.0; Probably Not 17.4; Unsure 16.8; Probably Yes 19.3; Yes 18.5

TABLE 25A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE LIQUOR

Willingness	6	7	Grade 9	12
No	72.6	63.6	40.2	25.0
Probably Not	15.8	18.5	18.1	16.1
Unsure	6.8	8.8	14.3	16.1
Probably Yes	2.9	4.8	13.1	21.3
Any Chance	1.9	4.3	14.3	21.5

Average across all grades: No 47.2; Probably Not 17.3; Unsure 12.2; Probably Yes 11.6; Yes 11.7

TABLE 26A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE MARIJUANA

Willingness	6	7	Grade 9	12
No	91.4	88.3	74.4	61.4
Probably Not	6.5	7.4	10.2	12.6
Unsure	1.0	1.9	5.0	8.4
Probably Yes	0.5	1.2	4.6	7.4
Any Chance	0.6	1.2	5.9	10.2

Average across all grades: No 77.0; Probably Not 9.6; Unsure 4.4; Probably Yes 3.9; Yes 5.1

TABLE 27A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE INHALANTS

Willingness	6	7	Grade 9	12
No	91.7	89.9	82.9	80.1
Probably Not	6.0	7.3	8.7	9.2
Unsure	1.2	1.5	3.5	4.9
Probably Yes	0.6	0.8	2.6	3.2
Any Chance	0.5	0.6	2.3	2.6

Average across all grades: No 85.4; Probably Not 8.1; Unsure 2.9; Probably Yes 2.0; Yes 1.7

TABLE 28A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE SEROTONIN (The Bogus Drug)

Willingness	Grade			
	6	7	9	12
No	95.5	94.5	91.2	92.9
Probably Not	3.7	4.4	5.6	4.5
Unsure	0.5	0.7	2.0	1.8
Probably Yes	0.1	0.3	0.8	0.6
Any Chance	0.1	0.1	0.4	0.2

Average across all grades: No 93.2; Probably Not 4.6; Unsure 1.4; Probably Yes 0.6; Yes 0.2

TABLE 29A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE COCAINE

Willingness	Grade			
	6	7	9	12
No	93.4	92.6	90.6	87.0
Probably Not	5.6	6.1	6.0	6.2
Unsure	0.6	0.7	1.4	2.4
Probably Yes	0.2	0.4	1.0	2.2
Any Chance	0.2	0.2	1.0	2.2

Average across all grades: No 90.5; Probably Not 6.0; Unsure 1.4; Probably Yes 1.1; Yes 1.0

TABLE 30A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE HEROIN

Willingness	Grade			
	6	7	9	12
No	94.4	93.5	92.2	93.9
Probably Not	4.8	5.5	5.5	4.5
Unsure	0.5	0.6	1.1	1.0
Probably Yes	0.1	0.3	0.6	0.4
Any Chance	0.1	0.1	0.5	0.2

Average across all grades: No 93.4; Probably Not 5.1; Unsure 0.9; Probably Yes 0.4; Yes 0.3

TABLE 31A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE HALLUCINOGENS

Willingness	Grade			
	6	7	9	12
No	94.9	93.3	88.6	86.5
Probably Not	4.2	5.3	6.1	5.8
Unsure	0.5	0.7	2.2	2.6
Probably Yes	0.2	0.4	1.7	2.8
Any Chance	0.1	0.3	1.5	2.4

Average across all grades: No 90.2; Probably Not 5.5; Unsure 1.6; Probably Yes 1.5; Yes 1.2

TABLE 32A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE STIMULANTS

Willingness	Grade			
	6	7	9	12
No	89.5	85.4	75.5	72.1
Probably Not	7.6	9.3	11.2	10.9
Unsure	1.8	2.7	5.6	6.8
Probably Yes	0.7	1.7	4.0	5.4
Any Chance	0.4	0.9	3.7	4.7

Average across all grades: No 79.4; Probably Not 10.1; Unsure 4.5; Probably Yes 3.3; Yes 2.7

TABLE 33A
PENNSYLVANIA SCHOOLS 1988-89
WILLINGNESS TO USE DEPRESSANTS

Willingness	Grade			
	6	7	9	12
No	92.9	90.0	83.6	83.6
Probably Not	5.7	7.4	9.6	8.6
Unsure	1.0	1.5	3.4	4.0
Probably Yes	0.2	0.8	1.9	1.9
Any Chance	0.2	0.4	1.5	1.8

Average across all grades: No 86.7; Probably Not 8.2; Unsure 2.7; Probably Yes 1.3; Yes 1.1

TABLE 34A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF CIGARETTES

Frequency	Grade			
	6	7	9	12
Never	72.0	63.4	46.4	37.5
Before	16.1	17.8	20.3	20.1
1-2x Year	5.3	7.1	10.2	11.6
1-2x Month	2.4	3.9	5.5	4.9
1-2x Week	2.1	3.3	4.8	4.5
Daily	2.2	4.5	12.9	21.4

Average across all grades: Never 52.5; Before 18.8; Year 9.1; Month 4.3; Week 3.9; Daily 11.5

TABLE 35A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF CHEWING TOBACCO OR SNUFF

Frequency	Grade			
	6	7	9	12
Never	84.6	80.9	72.6	67.7
Before	9.1	9.4	12.2	14.2
1-2x Year	3.0	4.1	6.0	5.6
1-2x Month	1.2	1.6	3.3	2.9
1-2x Week	0.9	1.7	2.8	3.0
Daily	1.2	2.2	3.2	6.5

Average across all grades: Never 75.4; Before 11.6; Year 4.9; Month 2.5; Week 2.2; Daily 3.5

TABLE 36A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF BEER

Frequency	6	7	Grade 9	12
Never	55.9	48.3	27.3	14.1
Before	23.2	22.3	20.2	14.1
1-2x Year	14.9	18.9	26.2	26.8
1-2x Month	3.8	6.6	15.9	22.9
1-2x Week	1.7	3.2	9.2	20.1
Daily	0.5	0.7	1.2	1.9

Average across all grades: Never 33.7; Before 19.5; Year 22.9; Month 13.4; Week 9.4; Daily 1.1

TABLE 37A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF WINE

Frequency	6	7	Grade 9	12
Never	60.4	51.0	30.3	17.1
Before	20.9	21.1	21.5	19.4
1-2x Year	15.5	21.6	33.5	42.0
1-2x Month	2.2	4.5	10.6	15.8
1-2x Week	0.8	1.5	3.7	5.1
Daily	0.3	0.4	0.5	0.5

Average across all grades: Never 36.9; Before 20.9; Year 29.8; Month 9.0; Week 3.0; Daily 0.4

TABLE 38A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF WINE

Frequency	6	7	Grade 9	12
Never	60.4	51.0	30.3	17.1
Before	20.9	21.1	21.5	19.4
1-2x Year	15.5	21.6	33.5	42.0
1-2x Month	2.2	4.5	10.6	15.8
1-2x Week	0.8	1.5	3.7	5.1
Daily	0.3	0.4	0.5	0.5

Average across all grades: Never 36.9; Before 20.9; Year 29.8; Month 9.0; Week 3.0; Daily 0.4

TABLE 39A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF WINE COOLERS

Frequency	Grade			
	6	7	9	12
Never	68.4	57.9	33.3	16.9
Before	16.5	17.3	17.8	15.8
1-2x Year	11.3	16.7	28.7	35.9
1-2x Month	2.1	5.2	13.9	22.6
1-2x Week	1.2	2.2	5.5	8.0
Daily	0.5	0.7	0.8	0.7

Average across all grades: Never 41.0; Before 17.0; Year 24.7; Month 12.0; Week 4.6; Daily 0.7

TABLE 40A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF LIQUOR

Frequency	Grade			
	6	7	9	12
Never	84.8	76.9	50.3	27.9
Before	8.7	11.0	16.5	18.4
1-2x Year	4.5	7.6	17.4	27.6
1-2x Month	1.1	2.7	10.0	17.6
1-2x Week	0.6	1.4	4.9	7.6
Daily	0.2	0.4	0.8	0.9

Average across all grades: Never 56.6; Before 14.3; Year 15.7; Month 8.7; Week 4.0; Daily 0.6

TABLE 41A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF MARIJUANA

Frequency	Grade			
	6	7	9	12
Never	97.8	95.6	82.3	61.7
Before	1.3	2.1	6.5	15.2
1-2x Year	0.3	1.0	4.1	9.3
1-2x Month	0.3	0.7	3.0	6.4
1-2x Week	0.2	0.5	2.9	4.4
Daily	0.1	0.2	1.2	3.1

Average across all grades: Never 82.3; Before 6.9; Year 4.2; Month 3.0; Week 2.3; Daily 1.3

TABLE 42A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF INHALANTS

Frequency	6	7	Grade 9	12
Never	96.9	96.4	90.8	86.1
Before	1.8	2.0	4.6	8.1
1-2x Year	0.6	0.8	2.6	3.7
1-2x Month	0.4	0.4	1.1	1.5
1-2x Week	0.2	0.3	0.6	0.5
Daily	0.2	0.1	0.3	0.1

Average across all grades: Never 91.9; Before 4.5; Year 2.1; Month 0.9; Week 0.4; Daily 0.2

TABLE 43A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF COCAINE

Frequency	6	7	Grade 9	12
Never	99.5	99.0	97.0	90.4
Before	0.3	0.6	1.4	4.2
1-2x Year	0.1	0.2	0.9	2.9
1-2x Month	0.0	0.1	0.3	1.5
1-2x Week	0.1	0.1	0.2	0.7
Daily	0.1	0.1	0.1	0.2

Average across all grades: Never 96.0; Before 1.8; Year 1.2; Month 0.6; Week 0.3; Daily 0.1

TABLE 44A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF HEROIN

Frequency	6	7	Grade 9	12
Never	99.7	99.4	98.9	99.1
Before	0.2	0.3	0.6	0.5
1-2x Year	0.1	0.1	0.2	0.2
1-2x Month	0.0	0.1	0.1	0.1
1-2x Week	0.0	0.0	0.1	0.0
Daily	0.0	0.0	0.1	0.0

Average across all grades: Never 99.2; Before 0.5; Year 0.2; Month 0.1; Week 0.0; Daily 0.0

TABLE 45A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF HALLUCINOGENS

Frequency	6	7	Grade 9	12
Never	99.4	98.9	96.2	92.2
Before	0.3	0.6	1.6	3.5
1-2x Year	0.2	0.3	1.1	2.9
1-2x Month	0.0	0.2	0.7	1.0
1-2x Week	0.0	0.1	0.3	0.2
Daily	0.1	0.0	0.1	0.2

Average across all grades: Never 96.3; Before 1.7; Year 1.3; Month 0.5; Week 0.1; Daily 0.1

TABLE 46A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF STIMULANTS

Frequency	6	7	Grade 9	12
Never	97.3	95.1	86.6	79.8
Before	1.7	2.5	5.4	9.9
1-2x Year	0.5	1.2	4.0	5.7
1-2x Month	0.2	0.6	2.1	2.5
1-2x Week	0.1	0.4	1.2	1.3
Daily	0.1	0.2	0.7	0.8

Average across all grades: Never 88.7; Before 5.3; Year 3.2; Month 1.5; Week 0.8; Daily 0.5

TABLE 47A
PENNSYLVANIA SCHOOLS 1988-89
SELF REPORTED USE OF DEPRESSANTS

Frequency	6	7	Grade 9	12
Never	98.7	97.7	94.2	92.9
Before	0.9	1.3	2.6	3.5
1-2x Year	0.2	0.5	0.9	0.9
1-2x Month	0.1	0.3	0.9	0.9
1-2x Week	0.0	0.2	0.4	0.3
Daily	0.0	0.1	0.2	0.1

Average across all grades: Never 95.5; Before 2.2; Year 1.3; Month 0.6; Week 0.3; Daily 0.1

TABLE 48A
PENNSYLVANIA SCHOOLS 1988-89
ENTERTAINMENT ACTIVITIES

Frequency	6	7	Grade 9	12
Never	5.1	3.9	2.3	1.2
1-2x Year	27.6	23.1	15.1	6.2
1-2x Month	30.9	30.4	25.0	16.1
1-2x Week	25.6	32.0	46.5	58.6
Daily	5.4	6.3	8.5	16.9

Average across all grades: Never 2.9; Year 16.8; Month 25.0; Week 42.5; Daily 9.7

TABLE 49A
PENNSYLVANIA SCHOOLS 1988-89
ACADEMIC ACTIVITIES

Frequency	6	7	Grade 9	12
Never	2.4	2.7	3.4	3.5
1-2x Year	4.4	4.8	5.8	7.1
1-2x Month	6.3	6.7	7.7	11.0
1-2x Week	9.4	11.5	15.8	23.1
Daily	75.9	72.8	65.4	53.6

Average across all grades: Never 3.0; Year 5.6; Month 8.1; Week 15.6; Daily 66.1

TABLE 50A
PENNSYLVANIA SCHOOLS 1988-89
SPORTS ACTIVITIES

Frequency	6	7	Grade 9	12
Never	4.0	3.8	5.0	5.2
1-2x Year	7.5	7.9	8.1	7.7
1-2x Month	7.5	8.1	8.8	13.3
1-2x Week	29.6	28.4	24.2	29.5
Daily	48.6	48.6	50.1	40.2

Average across all grades: Never 4.6; Year 7.8; Month 9.7; Week 27.7; Daily 46.6

TABLE 51A
PENNSYLVANIA SCHOOLS 1988-89
RELIGIOUS ACTIVITIES

Frequency	6	7	Grade 9	12
Never	12.5	13.4	16.5	16.0
1-2x Year	12.1	13.2	15.5	22.8
1-2x Month	11.8	13.3	13.9	14.1
1-2x Week	48.1	46.1	38.4	30.2
Daily	6.3	3.6	2.6	1.7

Average across all grades: Never 15.0; Year 12.6; Month 13.5; Week 39.6; Daily 3.2

TABLE 52A
PENNSYLVANIA SCHOOLS 1988-89
EXTRACURRICULAR ACTIVITIES

Frequency	Grade			
	6	7	9	12
Never	13.1	14.3	16.1	10.5
1-2x Year	9.5	10.3	10.7	10.4
1-2x Month	14.0	14.4	16.0	18.8
1-2x Week	29.7	28.8	24.5	26.9
Daily	28.7	26.5	25.4	27.6

Average across all grades: Never 13.4; Year 10.3; Month 16.1; Week 27.3; Daily 26.8

TABLE 53A
PENNSYLVANIA SCHOOLS 1988-89
VOCATIONAL ACTIVITIES

Frequency	Grade			
	6	7	9	12
Never	8.4	6.9	5.7	2.9
1-2x Year	9.7	9.8	10.4	7.3
1-2x Month	15.6	19.1	19.6	9.4
1-2x Week	29.7	31.4	33.4	27.2
Daily	32.7	29.5	26.8	49.9

Average across all grades: Never 5.6; Year 9.2; Month 15.9; Week 30.9; Daily 34.9

TABLE 54A
PENNSYLVANIA SCHOOLS 1988-89
INTENT DUI

Willingness	Grade			
	6	7	9	12
Never	69.1	61.6	50.4	43.4
Probably No	23.9	29.4	34.4	29.6
Probably Yes	6.4	8.0	13.0	20.5
Def Yes	0.6	1.0	2.1	6.6

Average across all grades: Never 54.7; Probably No 30.0; Probably Yes 12.5; Def Yes 2.8

TABLE 55A
PENNSYLVANIA SCHOOLS 1988-89
INTENT POT AND DRIVE

Willingness	Grade			
	6	7	9	12
Never	92.9	89.5	80.5	68.8
Probably No	5.7	8.0	12.3	14.0
Probably Yes	1.1	2.1	5.5	11.4
Def Yes	0.3	0.5	1.7	5.8

Average across all grades: Never 81.5; Probably No 10.6; Probably Yes 5.5; Def Yes 2.3

TABLE 56A
PENNSYLVANIA SCHOOLS 1988-89
INTENT RIDE W/ DRINKER

Willingness	6	7	Grade 9	12
Never	82.0	76.1	61.4	43.8
Probably No	13.6	17.2	25.0	30.0
Probably Yes	3.6	5.6	11.7	22.8
Def Yes	0.8	1.1	1.8	3.5

Average across all grades: Never 64.0; Probably No 22.4; Probably Yes 11.7; Def Yes 1.9

TABLE 57A
PENNSYLVANIA SCHOOLS 1988-89
INTENT RIDE W/ POT SMOKER

Willingness	6	7	Grade 9	12
Never	91.4	87.7	76.3	60.1
Probably No	6.1	8.7	14.0	18.0
Probably Yes	1.7	2.6	7.8	16.9
Def Yes	0.8	1.0	2.0	5.1

Average across all grades: Never 77.2; Probably No 12.4; Probably Yes 8.0; Def Yes 2.4

TABLE 58A
PENNSYLVANIA SCHOOLS 1988-89
INTENT STOP IMPAIRED DRIVER

Willingness	6	7	Grade 9	12
Never	6.5	6.2	6.0	4.9
Probably No	2.9	3.7	7.2	11.8
Probably Yes	16.1	19.1	25.1	29.8
Def Yes	74.5	71.0	61.6	53.5

Average across all grades: Never 5.8; Probably No 6.9; Probably Yes 23.4; Def Yes 63.9

TABLE 59A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - PEER

Response	6	7	Grade 9	12
Yes	47.3	56.7	69.8	78.7
Maybe	35.5	31.4	23.0	16.6
No	17.1	12.0	7.2	4.7

Average across all grades: Yes 64.9; Maybe 25.6; No 9.4

TABLE 60A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - TEACHER

Response	6	7	Grade 9	12
Yes	28.4	18.6	11.9	13.0
Maybe	38.2	37.7	37.1	38.4
No	33.5	43.7	50.9	48.5

Average across all grades: Yes 16.6; Maybe 37.6; No 45.8

TABLE 61A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - COACH

Response	6	7	Grade 9	12
Yes	21.4	19.0	15.8	15.2
Maybe	35.3	35.6	36.0	32.7
No	43.4	45.4	48.3	52.1

Average across all grades: Yes 17.1; Maybe 35.0; No 47.9

TABLE 62A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - ADULT FRIEND

Response	6	7	Grade 9	12
Yes	48.1	43.4	42.9	50.1
Maybe	34.1	37.2	39.4	37.1
No	17.8	19.4	17.7	12.8

Average across all grades: Yes 45.6; Maybe 37.5; No 16.9

TABLE 63A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - A PERSON FROM CHURCH

Response	6	7	Grade 9	12
Yes	31.2	26.2	18.0	14.6
Maybe	29.0	28.1	25.6	23.5
No	39.8	45.6	56.4	61.9

Average across all grades: Yes 21.4; Maybe 26.3; No 52.3

TABLE 64A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - A DOCTOR

Response	6	7	Grade 9	12
Yes	37.9	28.8	21.3	22.3
Maybe	28.6	30.1	31.6	31.6
No	33.5	41.1	47.2	46.2

Average across all grades: Yes 26.2; Maybe 30.8; No 43.0

TABLE 65A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - DRUG COUNSELOR

Response	6	7	Grade 9	12
Yes	51.9	44.4	36.0	34.3
Maybe	25.4	29.4	32.5	34.5
No	22.7	26.2	31.5	31.2

Average across all grades: Yes 40.3; Maybe 31.1; No 28.6

TABLE 66A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - POLICE

Response	6	7	Grade 9	12
Yes	21.2	14.0	7.4	5.2
Maybe	26.1	21.6	17.3	12.9
No	52.7	64.4	75.3	81.9

Average across all grades: Yes 10.8; Maybe 18.6; No 70.6

TABLE 67A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - STUDENT SUPPORT GROUP

Response	6	7	Grade 9	12
Yes	28.2	24.2	19.7	20.0
Maybe	34.1	34.9	34.1	32.3
No	37.7	40.9	46.2	47.7

Average across all grades: Yes 22.3; Maybe 33.9; No 43.7

TABLE 68A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - SCHOOL COUNSELOR

Response	6	7	Grade 9	12
Yes	39.2	33.0	22.5	17.5
Maybe	32.2	34.5	35.4	30.7
No	28.5	32.5	42.1	51.8

Average across all grades: Yes 26.7; Maybe 33.3; No 39.9

TABLE 69A
PENNSYLVANIA SCHOOLS 1988-89
RESOURCE PERSONS - PRINCIPAL OR ASSISTANT PRINCIPAL

Response	6	7	Grade 9	12
Yes	20.3	13.8	7.4	6.4
Maybe	29.0	25.3	19.4	16.9
No	50.6	60.8	73.2	76.7

Average across all grades: Yes 11.0; Maybe 21.9; No 67.1

TABLE 70A
PENNSYLVANIA SCHOOLS 1988-89
KNOWLEDGE OF EFFECTS

Importance	6	7	Grade 9	12
Very Unimp.	7.1	6.2	5.0	4.1
Unimp.	3.8	5.3	8.8	11.6
Imp.	30.9	36.5	42.6	45.4
Very Imp.	58.3	51.9	43.6	39.0

Average across all grades: V Unimp 5.3; Unimp 7.9; Imp 40.0; V Imp 46.8

TABLE 71A
PENNSYLVANIA SCHOOLS 1988-89
KNOWING DRUG USE IS ILLEGAL

Importance	6	7	Grade 9	12
Very Unimp.	4.3	4.8	8.0	10.0
Unimp.	4.9	8.2	16.8	24.5
Imp.	28.9	35.5	39.5	39.4
Very Imp.	61.9	51.5	35.7	26.0

Average across all grades: V Unimp 7.1; Unimp 14.9; Imp 36.6; V Imp 41.4

TABLE 72A
PENNSYLVANIA SCHOOLS 1988-89
FEELING SELF-CONFIDENT

Importance	6	7	Grade 9	12
Very Unimp.	6.2	5.9	6.7	5.8
Unimp.	4.5	6.8	11.1	13.6
Imp.	21.3	25.8	32.2	33.0
Very Imp.	68.0	61.6	49.9	47.6

Average across all grades: V Unimp 6.2; Unimp 9.6; Imp 29.0; V Imp 55.2

TABLE 73A
PENNSYLVANIA SCHOOLS 1988-89
INTERESTING AND FUN ALTERNATIVES

Importance	6	7	Grade 9	12
Very Unimp.	7.0	5.6	5.7	5.2
Unimp.	8.5	9.9	12.5	13.9
Imp.	39.2	41.8	43.5	45.6
Very Imp.	45.3	42.8	38.4	35.3

Average across all grades: V Unimp 5.7; Unimp 11.4; Imp 43.0; V Imp 39.9

TABLE 74A
PENNSYLVANIA SCHOOLS 1988-89
CLOSE FRIENDS - BEING ACCEPTED "AS IS"

Importance	6	7	Grade 9	12
Very Unimp.	3.7	3.2	3.6	3.5
Unimp.	3.0	3.6	5.5	7.1
Imp.	25.1	27.1	30.3	32.4
Very Imp.	68.1	66.2	60.6	57.0

Average across all grades: V Unimp 3.5; Unimp 5.0; Imp 29.0; V Imp 62.5

TABLE 75A
PENNSYLVANIA SCHOOLS 1988-89
BEING ABLE TO COPE W/ SCHOOL PRESSURE

Importance	6	7	Grade 9	12
Very Unimp.	4.9	4.6	5.0	4.2
Unimp.	5.6	7.3	9.4	11.1
Imp.	37.7	40.8	45.3	46.0
Very Imp.	51.8	47.4	40.3	38.6

Average across all grades: V Unimp 4.6; Unimp 8.7; Imp 43.1; V Imp 43.5

TABLE 76A
PENNSYLVANIA SCHOOLS 1988-89
HAVING ACADEMIC EFFORTS NOTICED

Importance	6	7	Grade 9	12
Very Unimp.	7.6	7.5	8.6	9.3
Unimp.	11.0	14.8	19.8	26.4
Imp.	39.7	41.7	43.3	43.4
Very Imp.	41.8	35.9	28.4	20.9

Average across all grades: V Unimp 8.3; Unimp 18.9; Imp 42.3; V Imp 30.5

TABLE 77A
PENNSYLVANIA SCHOOLS 1988-89
KNOWING FAMILY WOULD BE HURT OR ANGRY

Importance	6	7	Grade 9	12
Very Unimp.	3.6	3.6	4.5	4.4
Unimp.	3.7	5.2	8.6	12.1
Imp.	20.8	26.9	36.1	41.5
Very Imp.	71.9	64.3	50.9	42.1

Average across all grades: V Unimp 4.1; Unimp 7.9; Imp 32.7; V Imp 55.4

TABLE 78A
PENNSYLVANIA SCHOOLS 1988-89
SEEING ADULTS PRACTICE WHAT THEY PREACH

Importance	6	7	Grade 9	12
Very Unimp.	9.9	9.3	9.6	9.8
Unimp.	11.3	14.4	20.4	23.5
Imp.	35.5	37.8	36.6	36.9
Very Imp.	43.3	38.4	33.4	29.9

Average across all grades: V Unimp 9.6; Unimp 18.1; Imp 36.8; V Imp 35.5

TABLE 79A
PENNSYLVANIA SCHOOLS 1988-89
FAIR, CONSISTENT, AND STRICT SCHOOL POLICY

Importance	6	7	Grade 9	12
Very Unimp.	10.9	12.2	19.4	22.9
Unimp.	12.4	18.1	26.1	30.9
Imp.	39.0	41.3	37.3	33.7
Very Imp.	37.6	28.4	17.2	12.9

Average across all grades: V Unimp 16.9; Unimp 23.1; Imp 37.8; V Imp 22.2

TABLE 80A
 PENNSYLVANIA SCHOOLS 1988-89
 PASSENGER OF DRIVER DRINKING ALCOHOL

Frequency	Grade			
	6	7	9	12
Never	59.5	54.6	42.3	24.4
Before	19.2	20.1	21.6	24.3
1-2x Year	12.1	14.9	20.1	25.5
1-2x Month	5.0	6.2	9.3	14.4
1-2x Week	3.0	3.1	5.4	10.3
Daily	1.2	1.0	1.2	1.0

Average across all grades: Never 43.5; Before 21.7; Year 18.9; Month 9.1; Week 5.7; Daily 1.1

TABLE 81A
 PENNSYLVANIA SCHOOLS 1988-89
 PASSENGER OF DRIVER SMOKING MARIJUANA

Frequency	Grade			
	6	7	9	12
Never	92.6	92.1	79.5	56.6
Before	4.1	4.6	7.1	15.7
1-2x Year	1.7	2.6	5.9	12.4
1-2x Month	1.0	1.3	4.0	7.5
1-2x Week	0.6	0.8	2.5	5.5
Daily	0.6	0.5	1.0	2.4

Average across all grades: Never 77.8; Before 8.3; Year 6.2; Month 3.8; Week 2.6; Daily 1.2

TABLE 82A
 PENNSYLVANIA SCHOOLS 1988-89
 PASSENGER OF DRIVER DRINKING ALCOHOL AND SMOKING MARIJUANA

Frequency	Grade			
	6	7	9	12
Never	95.7	94.0	85.6	67.8
Before	2.0	2.8	4.9	11.4
1-2x Year	1.0	1.6	4.4	9.8
1-2x Month	0.5	0.8	2.8	6.4
1-2x Week	0.4	0.4	1.7	3.8
Daily	0.4	0.3	0.5	0.8

Average across all grades: Never 84.5; Before 5.6; Year 4.7; Month 2.9; Week 1.8; Daily 0.5

TABLE 83A
PENNSYLVANIA SCHOOLS 1988-89
DRIVEN WHILE OR AFTER DRINKING ALCOHOL

Frequency	Grade	
	9	12
Don't Drive	89.0	15.0
Never	7.2	43.2
Before	1.2	12.5
1-2x Year	1.2	14.8
1-2x Month	0.7	8.3
1-2x Week	0.5	5.7
Daily	0.3	0.5

Averages for grades 9 and 12: Don't Drive 52.0; Never 25.2; Before 6.9; Year 8.0; Month 4.5; Week 3.2; Day 0.4

TABLE 84A
PENNSYLVANIA SCHOOLS 1988-89
DRIVEN WHILE OR AFTER SMOKING MARIJUANA

Frequency	Grade	
	9	12
Don't Drive	89.0	14.9
Never	9.0	67.0
Before	0.4	5.2
1-2x Year	0.5	5.3
1-2x Month	0.4	3.5
1-2x Week	0.4	2.5
Daily	0.2	1.5

Averages for grades 9 and 12: Don't Drive 52.0; Never 38.0; Before 2.8; Year 2.9; Month 1.9; Week 1.5; Daily 8.5

TABLE 85A
PENNSYLVANIA SCHOOLS 1988-89
DRIVEN WHILE OR AFTER DRINKING ALCOHOL AND SMOKING MARIJUANA

Frequency	Grade	
	9	12
Don't Drive	89.0	15.0
Never	8.9	70.5
Before	0.5	4.4
1-2x Year	0.6	4.3
1-2x Month	0.4	3.2
1-2x Week	0.3	2.1
Daily	0.2	0.5

Averages for grades 9 and 12: Don't Drive 52.0; Never 39.7; Before 2.5; Year 2.5; Month 1.6; Week 1.2; Daily 0.4

TABLE 86A
PENNSYLVANIA SCHOOLS 1988-89
LOCATIONS OF SUBSTANCE USE

Location	6	7	Grade 9	12
Don't Use	79.2	71.8	46.4	25.6
In School	1.6	2.9	10.0	14.4
At Parties	10.0	17.7	43.8	69.4
At Home	11.9	15.6	31.3	41.5
At a Friend's House	10.1	18.0	42.7	64.3
In a Car	3.5	7.2	22.7	47.7
At a Hangout	9.2	15.1	31.9	45.9
Before/After School Event	3.6	6.6	18.4	32.8
At a Public Place	4.5	7.2	15.5	24.3

TABLE 87A
PENNSYLVANIA SCHOOLS 1988-89
SOURCES OF SUBSTANCES

Location	6	7	Grade 9	12
Don't Use	81.9	75.2	50.1	27.5
Friends	10.5	17.7	42.3	63.8
Students at School	3.5	7.5	20.3	31.5
A Store	6.5	11.2	22.8	38.0
Out-of-School Kids	5.4	8.6	22.9	45.7
People at Work	1.0	1.8	4.8	20.3
College Students	2.3	3.1	10.7	30.8
Adults	8.9	10.7	22.5	38.6

APPENDIX B
REGRESSION ANALYSES

APPENDIX B
REGRESSION ANALYSES

These tables depict regression analyses conducted on data from the Pennsylvania Schools. To assist in translating the information, think of plus signs as positive relationships and minus signs as negative relationships.

For Gender, read this: M(ales)/F(emales) report higher lifetime prevalence of use of...

For Grade, read this: The higher the grade, the greater the reported use of...

For Average, read this: the higher the estimated grade average, the lower the reported use of...

For School Climate items, read this: The more students like (dislike) a given factor, the more they report using...

For Negative Behavior and Alternative Activities items, read this: The more (less) students report participating in a given behavior or activity, the more they report using...

For Decision-Making items, read this: The more (less) importance placed on a given factor, the greater the reported use of...

These analyses can also be interpreted with a given substance as the focal point of the translation statement. Read down the column for any substance: Greater use of (substance) is predictive of (more) (less) positive feelings about (School Climate item); greater reported (Negative Behaviors); (greater) (lower) participation in (Activities); and (more) (less) decision-making importance placed on (Decision-Making item).

DEMOGRAPHICS AND SCHOOL CLIMATE
REGRESSION ANALYSIS

	Cigs	Chew	Alcohol	Mar.	Inhal.	Cocaine	Heroin	Acid	Uppers	Downers
Gender	F	M	M		M			M	F	
Grade	+++	+++	+++	+++	+++	+++		+++	+++	+++
Average	-.**	-.**	-.**	-.**	-.**	-			-.**	-.*
SCHOOL CLIMATE										
School	-.**		-	-.**		-			-.**	
Teachers			-.**		-.**	-		-		
Subjects	-.*	-.**	-.**							
Classmates		+++				-		-.*		

p = .011 - .05

* p = .0011 - .01

** p = .000 - .001

NEGATIVE BEHAVIORS
REGRESSION ANALYSIS

	Cigs	Chew	Alcohol	Pot	Inhal.	Cocaine	Heroin	Acid	Uppers	Downers
Sent from Class	+.*	+++		+						
Skipped School	+++	+++	+++	+++	+++	+++		+++	+++	+++
Taken/Person					+		+	+		+.*
Taken/Store	+++	+	+	+	+.*	+			+++	
Cheated	+++	+++	+++	+++	+				+	
Out at Night	+++	+++	+++	+++	+++	+++	+++	+++	+++	+++
Vandalized		+++	+		+.*			+++	+++	+++

p = .011 - .05

* p = .0011 - .01

** p = .000 - .001

ALTERNATIVE ACTIVITIES
REGRESSION ANALYSIS

	Cigs	Chew	Alcohol	Mar	Inhal.	Cocaine	Heroin	Acid	Uppers	Downers
Social	+++	+	+++	+++	+++	+++	+	+++	+++	+++
Academic	-.**	-.**	-.**	-.**	-.**	-.**	-.**	-.**	-.**	-.**
Physical	-.**		-	-.**	-.**	-.**		-.**	-.**	-
Religious	-.**	-.**	-.**	-.**	-.*	-		-.*	-.**	-.*
Extracurricular	-.**		-.*							
Vocational	+++	+	+++	+		+.*				

p = .011 - .05

* p = .0011 - .01

** p = .000 - .001

DECISION MAKING FACTORS
REGRESSION ANALYSIS

	Cigs	Chew	Alcohol	Mar.	Inhal.	Cocaine	Heroin	Acid	Uppers	Downers
Knowing Effects	-.++	-.**	-	-.*					-.**	-.**
Illegality	-.**		-.**	-.**	-.**	-.**		-.**	-.*	
Self Confidence	-.**	-.**	-.**	-.*	-.**	-				-.**
Alternatives										+
Close Friends										
Ability to Cope										
Efforts Noticed										
Disappoint Family	-.**	-.**	-.**	-.**		-		-.*	-.**	-.*
Adult Models										
School Policy	-.**		-.**	-.**						

p = .011 - .05

* p = .0011 - .01

** p = .000 - .001

APPENDIX C

SCHOOLS PARTICIPATING IN THE 1988-89 PENNSYLVANIA PPAAUS SURVEY

APPENDIX C

SCHOOLS PARTICIPATING IN THE 1988-89 PENNSYLVANIA PPAUS SURVEY

REGION 1

School Code	6	7	Grade 9	12	TOTAL*
K	159	200			359
L		87		200	287
1			139	169	308
5			315	274	693
16			220	101	322
17	20	23			95
18				260	261
20	46				46
24		544	523	524	3202
25	240	224			466
34			55	30	87
35	199	190			389
36	43				43
43			148	179	327
47			308	74	396
56		459		507	969
60		187	167	147	524
61	172	128			412
64		685	642	632	1964
74	167	206			378
75	203	163			369
76	67	64			131
77	24				24
81			176	49	253
84	275	228			505
85			173	207	387
87			151	143	298
88		61	64	61	186

* This includes all students in all grades

SCHOOLS PARTICIPATING IN THE 1988-89 PENNSYLVANIA PPAAUS SURVEY

REGION 2

School Code	Grade				TOTAL**
	6	7	9	12	
3	153	166	177	133	631
9				284	285
10		151	209		361
11		171	170		341
12	76				76
19	46				46
27	59				59
30	153	160	176	143	1092
31	138	121			259
33			333	265	599
38				282	282
41		234	216		450
42	137	129	105	146	520
50		69	67	58	197
51			156	171	329
55	214				215
63				196	196
66	47				89
67			305	207	512
69	22	14			36
83	219				221
86	45				45

** This includes all students in all grades

SCHOOLS PARTICIPATING IN THE 1988-89 PENNSYLVANIA PPAAUS SURVEY

REGION 3

School Code	Grade				TOTAL***
	6	7	9	12	
C	46				46
D	122	190	250	158	723
G	137	132			269
6			102	90	196
7			209	190	415
14	60				60
23	179	151			330
28		142	114		256
29		100	80	83	263
37			76	58	135
40	170	134			305
45	131	100			231
46		190	246	196	633
52		85	86	79	250
53	62				62
57	79				79
59	112	81			193
65		135	134		270
80			314	264	898
89			164	164	329
90		85	91	74	252
92		102	127	137	366
93	221	217			440
95	86	78			234

*** This includes all students in all grades

SCHOOLS PARTICIPATING IN THE 1988-89 PENNSYLVANIA PPAAUS SURVEY

REGION 4

School Code	Grade				TOTAL****
	6	7	9	12	
A	115	152	141	133	544
B		102	118	114	336
E			169	148	318
F	207	162			370
H	69				69
I		77	82		159
M	504	462	291	334	1598
N		44	49		93
P		127	134		262
Q		58	63		122
R		77	97		174
S		161			162
T			121	101	223
2	93	87	81	92	658
4	149	140			291
8	23	20			44
13	220	221			441
15	96				96
21				392	392
22		65	45	57	167
26		272			273
32	127	198			327
39	95			539	634
44			190	149	349
48	47				47
49		65	47	58	170
58		201	178		349
62	90				90
68	118	112	113	91	439
70		223			223
71	213			102	333
72			271	141	459
73	82	90			173
78	55				56
79		178	108	137	429
82	34	19			54
94				505	506
96			25	41	108
97	78	90	88	65	321
98	140	137	130	122	530
99				173	346

**** This includes all students in all grades

APPENDIX D
SURVEY

PRIMARY PREVENTION AWARENESS, ATTITUDE AND USAGE SCALES

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Form 9 1989

DO NOT PUT YOUR NAME ANYWHERE ON THIS QUESTIONNAIRE. This survey asks how you think and feel about many things, including cigarettes, alcohol and other drugs. We need your help to make this survey useful, so it is important that you think about each question and answer truthfully, please. Your answers will be used only as part of a group pattern, and the only people who will see these answers are professional researchers. No information about individual students will ever be given to anyone in your school or your community.

GENERAL DIRECTIONS: Before each section of this questionnaire, you will find specific directions. Please read them carefully. To give your answer, use a No. 2 pencil and fill in the circle that shows your response. If you want to change your response, please be sure to carefully erase your first answer.

I am a: Male Female

I am in grade: 5 6 7 8 9 10 11 12

My overall grade average is: EXCELLENT VERY GOOD GOOD AVERAGE BELOW AVERAGE POOR

DIRECTIONS: Below are some things that make up how you feel about school. Please fill in the circle that comes closest to showing how you feel about each of them. The higher the number, the more positive you are about each item.

School in general	DISLIKE ← ①	②	③	④	⑤	⑥	⑦ → ENJOY
Teachers	NOT HELPFUL ← ①	②	③	④	⑤	⑥	⑦ → HELPFUL
Subjects	BORING ← ①	②	③	④	⑤	⑥	⑦ → INTERESTING
Classmates	UNFRIENDLY ← ①	②	③	④	⑤	⑥	⑦ → VERY FRIENDLY

DIRECTIONS: Below are some things that you may have done or that may have happened to you. For each one, fill in the circle that comes closest to showing how often it has happened to you.

	Never Happened	Happened More Than a Year Ago	Happens a Few Times a Year	About Once or Twice a Month	About Once or Twice a Week	Happens Almost Every Day
Helped a friend with a problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Been sent out of the classroom by a teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skipped school without an excuse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taken money or something from someone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Done volunteer work (school or community)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taken something from a store	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cheated on a class test	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Been drunk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Been high on drugs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stayed out all night without a parent's permission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Broken or vandalized school property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HOW OFTEN HAVE YOU:



DO NOT MARK IN THIS AREA

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DIRECTIONS: Several kinds of tobacco, alcohol and drugs are listed below. This set of questions deals with whether or not you would be willing to try these things or willing to use these things. **These are NOT questions about whether or not you have actually used them.** For each one, fill in the circle that comes closest to showing how you feel about using it. The higher the number, the more willing you would be to use that substance. Here are some examples: If you would never use it or don't know what it is, mark the ①; If you probably wouldn't use it, mark the ②; If you're not sure whether or not you would try it, mark the ③; If you would like to try it or would like to use it, mark the ④; If you would use it any chance you got, or if you use it now, mark the ⑤

CIGARETTES	NEVER ← ①	①	②	③	④ → ANYTIME
CHEWING TOBACCO, SNUFF	NEVER ← ①	①	②	③	④ → ANYTIME
BEER (beer, ale, malt liquor)	NEVER ← ①	①	②	③	④ → ANYTIME
WINE (wine, champagne)	NEVER ← ①	①	②	③	④ → ANYTIME
COOLERS (wine- or alcohol-based)	NEVER ← ①	①	②	③	④ → ANYTIME
LIQUOR (whiskey, vodka, rum, bourbon)	NEVER ← ①	①	②	③	④ → ANYTIME
MARIJUANA (grass, pot, hash, weed)	NEVER ← ①	①	②	③	④ → ANYTIME
INHALANTS (whippets, rush, sniffing glue)	NEVER ← ①	①	②	③	④ → ANYTIME
SEROTONIN (spinners, wagon-wheels)	NEVER ← ①	①	②	③	④ → ANYTIME
COCAINE (coke, crack)	NEVER ← ①	①	②	③	④ → ANYTIME
HEROIN (smack, skag)	NEVER ← ①	①	②	③	④ → ANYTIME
HALLUCINOGENS (acid, LSD, trip, shrooms)	NEVER ← ①	①	②	③	④ → ANYTIME
PRESCRIPTION DRUGS WITHOUT DOCTOR'S ORDERS	NEVER ← ①	①	②	③	④ → ANYTIME
UPPERS (speed, meth, crank, diet pills)	NEVER ← ①	①	②	③	④ → ANYTIME
DOWNERS (ludes, tranqs, barbs, sedatives)	NEVER ← ①	①	②	③	④ → ANYTIME

DIRECTIONS: Below is the same list of tobacco, alcohol and other drugs. **Remember that your answers are absolutely confidential and private.** Please fill in the circle that comes closest to showing how often you use (or have used) each one of these things.

	Never Used	Used More Than A Year Ago	A Few Times A Year	About Once or Twice a Month	About Once or Twice a Week	About Once a Day
CIGARETTES	○	○	○	○	○	○
CHEWING TOBACCO, SNUFF	○	○	○	○	○	○
BEER (beer, ale, malt liquor)	○	○	○	○	○	○
WINE (wine, champagne)	○	○	○	○	○	○
COOLERS (wine- or alcohol-based)	○	○	○	○	○	○
LIQUOR (whiskey, vodka, rum, bourbon)	○	○	○	○	○	○
MARIJUANA (grass, pot, hash, weed)	○	○	○	○	○	○
INHALANTS (whippets, rush, sniffing glue)	○	○	○	○	○	○
SEROTONIN (spinners, wagon-wheels)	○	○	○	○	○	○
COCAINE (coke, crack)	○	○	○	○	○	○
HEROIN (smack, skag)	○	○	○	○	○	○
HALLUCINOGENS (acid, LSD, trip, shrooms)	○	○	○	○	○	○
PRESCRIPTION DRUGS WITHOUT DOCTOR'S ORDERS	○	○	○	○	○	○
UPPERS (speed, meth, crank, diet pills)	○	○	○	○	○	○
DOWNERS (ludes, tranqs, barbs, sedatives)	○	○	○	○	○	○

MAKE NO STRAY MARKS

DIRECTIONS: A few different kinds of activities are listed below. Fill in the circle that comes closest to showing how much time you spend in each type of activity. If you do several things from the same category, simply add their times together for your answer.

	Never	More Than a Year Ago	A Few Times A Year	About Once or Twice a Month	About Once or Twice a Week	Almost Every Day
Entertainment and Social Activities (going to movies, on a date, to a concert, to a party, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Academic Activities (doing homework, school projects, research, reading books, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sports and Physical Activities (team sports, jogging, swimming, dance class, exercise, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Religious Activities (going to services, church/synagogue activities, meetings, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hobbies and Extracurricular Activities (school clubs, yearbook, student government, band, collecting, sewing, working on cars, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Work-for-Pay Activities (part-time job, babysitting, mowing lawns, chores at home, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIRECTIONS: Please fill in the circle that comes closest to showing how willing you would be to do the following things.

	Never	Probably No	Probably Yes	Definitely Yes
I would drive a car after having two or more drinks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would drive a car after smoking marijuana.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would ride with someone who has been drinking alcohol.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would ride with someone who has been smoking marijuana.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would try to stop someone from driving if they had been drinking alcohol or smoking marijuana, or from riding with a driver who had been drinking or smoking pot.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIRECTIONS: If you or a close friend had a problem with tobacco, alcohol or other drugs, who would you be willing to talk to about it? Here is a list of people whom you might consider. For each one, fill in the "YES," "NO" or "MAYBE," as your answer.

WOULD YOU TALK TO:	YES	NO	MAYBE
A person my age	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A coach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An adult friend	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A person from church	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A doctor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A counselor in a drug center	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A policeman	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A student support group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A school counselor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The principal or assistant principal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

MAKE NO STRAY MARKS

DIRECTIONS: Here is a list of reasons that some students give for NOT using tobacco, alcohol and other drugs. Please read each one carefully and fill in the circle that comes closest to showing how important that reason is when you make decisions about drinking, smoking or using drugs. Take your time to think about each one before you answer.

	Not At All Important	Unimportant	Important	Very Important
Having a clear understanding of the physical and emotional effects of tobacco, alcohol and other drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowing it is against the law.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feeling self-confident, knowing that I don't need to drink or use drugs in order to like myself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Being able to be involved with interesting and fun things to do.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having close friends who like and accept me as I am.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowing how to cope with social pressures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having my academic efforts noticed by my teachers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowing my family would be hurt or angry if I were caught.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seeing adults practice what they preach about drinking, smoking and drugs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a fair and strict school policy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIRECTIONS: Below is a list of situations in which you may have found as a driver or a passenger. Please fill in the circle that comes closest to showing how often each of these things has happened to you.

HOW OFTEN HAVE YOU:

	Never Happened	Happened More Than a Year Ago	Happens a Few Times a Year	About Once or Twice a Month	About Once or Twice a Week	Happens Almost Every Day
Been a passenger in a car when the driver had been drinking while driving or drinking shortly before driving?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Been a passenger in a car when the driver had been smoking pot while driving or smoking pot shortly before driving?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Been a passenger in a car when the driver had been drinking AND smoking pot?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driven a car while or shortly after drinking? <input type="radio"/> I don't drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driven a car while or shortly after smoking pot? <input type="radio"/> I don't drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driven a car while or shortly after drinking AND smoking? <input type="radio"/> I don't drive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DIRECTIONS: If you have used tobacco, alcohol or other drugs in the last year or so, please fill in the "YES" circle(s) next to the place(s) you usually use (or used) them. If it is a place where you usually don't smoke, drink or use drugs, fill in the "NO." If you do not use tobacco, alcohol or other drugs, please fill in this circle.

I do not use tobacco, alcohol or drugs.

I usually smoke (smoked) or drink (drank) or use (used) other drugs:

YES	NO
<input type="radio"/>	<input type="radio"/> In school
<input type="radio"/>	<input type="radio"/> At parties
<input type="radio"/>	<input type="radio"/> At home
<input type="radio"/>	<input type="radio"/> At a friend's house
<input type="radio"/>	<input type="radio"/> In a car
<input type="radio"/>	<input type="radio"/> At a hangout
<input type="radio"/>	<input type="radio"/> Before/after a school activity (sports event, dance, etc.)
<input type="radio"/>	<input type="radio"/> At a public place (mall, etc.)

Please fill in the "YES" or "NO" circle next to each of the following to show whether or not it is a place or person from which you usually get (or got) tobacco, alcohol or other drugs. If you do not use anything, please fill in this circle.

I do not use tobacco, alcohol or drugs.

I usually get (got) tobacco, alcohol or other drugs from:

YES	NO
<input type="radio"/>	<input type="radio"/> Friends
<input type="radio"/>	<input type="radio"/> Students at school
<input type="radio"/>	<input type="radio"/> A store
<input type="radio"/>	<input type="radio"/> Out-of-school kids
<input type="radio"/>	<input type="radio"/> People at work
<input type="radio"/>	<input type="radio"/> College students
<input type="radio"/>	<input type="radio"/> Adults



DO NOT MARK IN THIS AREA

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