

Communities That Care Youth Survey

Dedham High School

Survey Administration: Winter 2013

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Building Protection: Social Development Strategy



Section 1

The Survey

Introduction

This report describes the administration and findings for the *Communities That Care Youth Survey* administered in Dedham High School in December of 2013. Rothenbach Research and Consulting, LLC, prepared this report.

Based on the work of Dr. J. David Hawkins and Dr. Richard F. Catalano, the *Communities That Care Youth Survey* is designed to identify the levels of **risk factors** related to problem behaviors such as alcohol, tobacco and other drug use—and to identify the levels of **protective factors** that help guard against those behaviors. (For a more detailed discussion, see Section 2 of this report.) In addition to measuring risk and protective factors, the *Communities That Care Youth Survey* also measures the actual prevalence of drug use, violence and other antisocial behaviors among surveyed students. Three articles (Pollard, Hawkins & Arthur, 1999; Arthur, Hawkins, Pollard, Catalano & Baglioni, 2002; Glaser, Van Horn, Arthur, Hawkins & Catalano, 2005) describe the survey, its uses and its ongoing development.

The administration of the *Communities That Care Youth Survey* has helped Dedham High School to assess the risk and protective factors in the lives of young people. This report identifies the risk and protective factors most in need of attention in the community. This information can be used to guide prevention efforts, to help address existing problems, and to promote healthy and positive youth development.

All together, 673 students in grades 9 through 12 participated in the survey.

Survey Methodology

The *Communities That Care Youth Survey* was developed to provide scientifically sound information to communities. It measures a variety of risk and protective factors by using groups of survey items, which are called scales. Please note that some of the risk factors are measured with more than one scale.

The *Communities That Care Youth Survey* was developed from research funded by the Center for Substance Abuse Prevention of the U.S. Department of Health and Human Services. This research supported the development of a student survey to measure the following items:

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- risk and protective factors that predict alcohol, tobacco and other drug (ATOD) use, delinquency and other problem behaviors in adolescents.
 - the prevalence and frequency of drug use.
 - the prevalence and frequency of antisocial behaviors.

This survey instrument became the *Communities That Care Youth Survey*. The original research involved data collection in five states: Kansas, Maine, Oregon, South Carolina and Washington. Over 72,000 students participated in these statewide surveys, and analysis of the collected data contributed to the development of the *Communities That Care Youth Survey*.

Administration

The survey was administered in the classroom and required approximately one class period to complete. Each teacher received an appropriate number of surveys and survey collection envelopes. The teachers reviewed the instructions with their students and asked the students to complete the survey. The instructions informed the students that there were no right or wrong answers. The instructions also explained the proper way to mark the answers.

Students were asked to complete the survey but were also told that participation is voluntary. Furthermore, students were told that they could skip any question that they were not comfortable answering. Both the teacher and the written instructions on the front of the survey form assured students that the survey was anonymous and confidential.

Permission for students to participate in the survey was obtained through an active consent procedure. This means that the parents of each student received a letter explaining the survey. The letter also required that a parent of each student sign a form granting permission for his or her child to participate. Surveys were only administered to students with signed permission forms. In contrast, it is common for surveys to use a passive consent procedure. This means that a parent of each student signs and returns a form only if refusing to allow the child to participate. Otherwise, permission is considered to be granted.

Compared to passive consent, active consent can reduce survey participation in three ways:

- The formal request for permission may heighten concerns parents have with the content of the survey. As a result, parents may be less likely to grant permission for participation in an active consent survey compared to an identical passive consent survey.
- Parents with no opposition to their children participating in the survey may simply forget to sign and return the approval form.
- Even if parents are ready to grant permission for survey participation, the approval form might not make it to and from the home. If students are responsible for carrying the forms, the permission slip may get “lost,” either intentionally or unintentionally, in the jumble of notifications and information sheets students are routinely asked to deliver to their parents. If consent forms are delivered through the mail, families with new addresses may not receive the permission form in time.

Any of these effects can reduce the survey participation rate, which, in turn, would reduce the precision of the statistical estimates. Of more concern, however, is the possibility that active consent could result in participation bias. In other words, certain kinds of students may be less likely to participate in the study when active consent is used. For example, parents who suspect that their children are involved in delinquent behavior may be more likely to deny permission, knowing that they need not take any action to

do so. Alternatively, some parents may deny permission because they believe that exposure to materials discussing alcohol, tobacco and other drug use may be harmful to their children. In either case, the sample would yield population estimates that differ from those that would be obtained through passive consent. For this reason, caution should be exercised when analyzing findings from active consent surveys.

Survey Validation

Four strategies were used to assess the validity of the surveys. The first two strategies eliminated the surveys of students who appeared to exaggerate their drug use and other antisocial behavior. The third strategy eliminated students who reported use of a fictitious drug. The fourth strategy eliminated the surveys of students who repeatedly reported logically inconsistent patterns of drug use.

- In the first strategy, surveys from students who reported an average of four or more daily uses of the following drugs—inhalants, cocaine, LSD/Psychedelics, Ecstasy, methamphetamine and heroin—were eliminated from the survey data set. This strategy removes the survey of any student who did not take it seriously.
- The second strategy supplements the drug use exaggeration test by examining the frequency of five other antisocial behaviors: *Attacking Someone with Intent to Harm*, *Attempting to Steal a Vehicle*, *Being Arrested*, *Getting Suspended* and *Taking a Handgun to School*. Respondents who reported an unrealistically high frequency of these behaviors—more than 120 instances within the past year—were removed from the analysis.
- In the third strategy, students were asked if they had used a fictitious drug in the past 30 days or in their lifetimes. If students reported any use of the fictitious drug, their surveys were not included in the analysis of the findings.
- The fourth strategy was used to detect logical inconsistencies among responses to the drug-related questions. Students were identified as inconsistent responders in the following circumstances only: (1) if they were inconsistent on two or more of the following drugs: alcohol, cigarettes, smokeless tobacco and marijuana/hashish; or (2) if they were inconsistent on two or more of the remaining drugs. An example of an inconsistent response would be if a student reported that he or she had used alcohol three to five times in the past 30 days but had never used alcohol in his or her lifetime.

Dedham High School students were cooperative—all but 10 students (1.5%) completed valid surveys. Of the 10 surveys identified and eliminated by one or more of the four strategies described above, two exaggerated drug use (strategy 1), zero exaggerated other antisocial behavior (strategy 2), five reported the use of the fictitious drug (strategy 3) and three responded in a logically inconsistent way (strategy 4).

Sample Analysis

A number of variables—such as the readability of the survey questionnaire, the effectiveness of the administration process and the amount of time students have to complete the survey—can affect the quality of survey data. In addition to factors like these, which influence the ability of students to provide good information, the way students are selected to participate in the survey can affect the results.

In order for the survey report to truly reflect the attitudes and behaviors of the surveyed population, the sample of students drawn to participate in the study should accurately represent the surveyed population. Three of the most important factors in this selection process are: (1) the grades chosen to participate in the survey effort, (2) the grade distribution of the sample relative to the grade distribution of school enrollment, and (3) the size of the sample within each grade.

Surveyed Grades

The results of the *Communities That Care Youth Survey* are presented in two ways: (1) for each surveyed grade and (2) for the overall sample. The overall results must be interpreted in light of the sampling composition, especially which grades were included in the sample.

In Dedham High School, students in grades 9 through 12 participated in the survey. Since this includes the full range of grade levels in the school(s) surveyed, the overall survey results can be interpreted as representing the attitudes and behaviors of the student population as a whole.

Sample Size

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

For school-based survey research, confidence intervals are determined by the size of the sample relative to the school’s enrollment. The higher the percentage of a school’s total enrollment that is included in the sample, the smaller the confidence interval and the more precise the results. Table 1 presents confidence intervals for both grade-level and overall estimates. Note that these confidence intervals are for prevalence rates of 50%. For less prevalent behaviors, such as heroin use and taking a handgun to school, the confidence interval narrows substantially.

As Table 1 shows, maximum grade-level confidence intervals range from a low of $\pm 2.4\%$ for 9th graders to a high of $\pm 4.0\%$ for 10th graders. Estimates for the overall sample have a maximum confidence interval of $\pm 1.6\%$. For an overall drug use prevalence rate of 50%, there is a 95% chance that the true prevalence rate ranges between 48.4% and 51.6%.

Table 1. Confidence Intervals for Sample

Grade	Enrollment		Sample		Confidence Interval
	Number	Percentage	Number	Percentage	
6 th					
7 th					
8 th					
9 th	179	22.8	162	25.1	2.4
10 th	215	27.4	159	24.6	4.0
11 th	191	24.4	150	23.2	3.7
12 th	191	25.4	175	27.1	2.6
Totals	784	100.0	646	100.0	1.6

Note: Rounding can produce totals that do not equal 100%. Survey respondents who did not report grade level are not included in this table.

Demographic Profile of Surveyed Youth

The survey measures a variety of demographic characteristics. Table 2 shows selected characteristics of surveyed youth: sex, ethnicity and the primary language spoken at home. The primary language spoken at home refers to the primary language the student speaks at home (rather than what the parents speak at home).

A higher percentage of surveyed Dedham High School students were female (49.9% female versus 48.1% male). A majority of students identified themselves as White (68.6%). The largest minority population is Latino (8.3%), followed by African American (8.0%), Asian (3.4%) and American Indian (0.3%). Note that while the “Other/Multiple” category listed on all tables includes students who selected “Other” as their primary ethnicity, this category also includes those students who selected multiple ethnicities. Therefore, for example, students who reported both African American and Latino ethnicity were classified in the “Other/Multiple” category for the purposes of this report.

A majority of the surveyed students (88.0%) reported English as the language they most often speak at home.

Table 2. Selected Demographic Characteristics of Surveyed Youth		
	Number of Students	Percentage of Students
Overall Valid Surveys	673	100.0
Sex		
Male	324	48.1
Female	336	49.9
Did not respond	13	1.9
Ethnicity		
White	462	68.6
African American	54	8.0
Latino	56	8.3
American Indian	2	0.3
Asian	23	3.4
Other/Multiple	59	8.8
Did not respond	17	2.5
Primary Language Spoken at Home		
English	592	88.0
Spanish	22	3.3
Other Language	31	4.6
Did not respond	28	4.2

Note: Rounding can produce totals that do not equal 100%.

Section 2

Risk and Protective Factors

Introduction

Just as eating a high-fat diet is a risk factor for heart disease and getting regular exercise is a protective factor for heart disease and other health problems, there are factors that can help protect youth from, or put them at risk for, drug use and other problem behaviors.

Protective factors, also known as “assets,” are conditions that buffer children and youth from exposure to risk by either reducing the impact of the risks or changing the way that young people respond to risks. Protective factors identified through research include strong bonding to family, school, community and peers. These groups support the development of healthy behaviors for children by setting and communicating healthy beliefs and clear standards for children’s behavior. Young people are more likely to follow the standards for behavior set by these groups if the bonds are strong. Strong bonds are encouraged by providing young people with opportunities to make meaningful contributions, by teaching them the skills they need to be successful in these new opportunities, and by recognizing their contributions.

Risk factors are conditions that increase the likelihood of a young person becoming involved in drug use, delinquency, school dropout and/or violence. For example, children living in families with poor parental monitoring are more likely to become involved in these problems.

Research during the past 30 years supports the view that delinquency; alcohol, tobacco and other drug use; school achievement; and other important outcomes in adolescence are associated with specific characteristics in the student’s community, school and family environments, as well as with characteristics of the individual (Hawkins, Catalano and Miller, 1992). In fact, these characteristics have been shown to be more important in understanding these behaviors than ethnicity, income or family structure (Blum et al., 2000).

There is a substantial amount of research showing that adolescents’ exposure to a greater number of risk factors is associated with more drug use and delinquency. There is also evidence that exposure to a number of protective factors is associated with lower prevalence of these problem behaviors (Bry, McKeon and Pandina, 1982; Newcomb, Maddahian and Skager, 1987; Newcomb and Felix-Ortiz, 1992; Newcomb, 1995; Pollard et al., 1999).

The analysis of risk and protective factors is the most powerful tool available for understanding what promotes both positive and negative adolescent behavior and for helping design successful prevention programs for young people. To promote positive development and prevent problem behavior, it is necessary to address the factors that predict these outcomes. By measuring these risk and protective factors, specific factors that are elevated should be prioritized in the community. This process also helps in selecting targeted tested-effective prevention programming shown to address those elevated factors and consequently provide the greatest likelihood for success.

This system of risk and protective factors is organized into a strategy that families can use to help children develop healthy behaviors—the Social Development Strategy (Hawkins et al., 1992). The Social Development Strategy is a theoretical framework that organizes risk and protective factors for adolescent problem behavior prevention.

Measurement

The *Communities That Care Youth Survey* provides the most comprehensive measurement of risk and protective factors currently available for 6th to 12th graders. Risk and protective factors are measured by sets of survey items called scales. Because they are very broad, some risk factors are measured by multiple scales. For example, “Favorable Parental Attitudes and Involvement in the Problem Behavior” is a single risk factor, but it is measured by two risk factor scales: *Parental Attitudes Favorable toward ATOD Use* and *Parental Attitudes Favorable toward Antisocial Behavior*. In total, 16 risk factors are measured by 23 risk factor scales, while each of the ten protective factors is measured by a single protective factor scale.

Risk and protective factor scales are scored against the *Communities That Care* normative database. This bed of normative data, which contains survey responses from over 280,000 students in grades 6 through 12, was compiled by combining the results of selected *Communities That Care Youth Survey* efforts that were completed in 2000, 2001 and 2002. To enhance representativeness, statistical weights were applied to adjust the sample to exactly match the population of U.S. public school students on four key demographic variables: ethnicity, sex, socioeconomic status and urbanicity. Information on the U.S. public school student population was obtained from the Common Core of Data program at the U.S. Department of Education’s National Center for Educational Statistics (National Center for Education Statistics, 2004).

Like the scoring systems used by many national testing programs—such as the SAT[®] and ACT[™]—this method of norm-referencing generates percentile scores ranging from 0 to 100. A score of 50, which matches the normative median, indicates that 50% of the respondents in the normative sample reported a score that is lower than the average for Dedham High School and 50% reported a score that is higher. Similarly, a score of 75 indicates that 75% of the normative sample reported a lower score and 25% reported a higher score. Because risk is associated with negative behavioral outcomes, it is better to have lower risk factor scale scores, not higher. Conversely, because protective factors are associated with better behavioral outcomes, it is better to have higher protective factor scale scores, not lower.

Percentile scores are calculated on a grade-by-grade basis. This means that risk and protective factor scales for a community’s 8th graders, for example, are scored against the responses of 8th graders in the *Communities That Care* normative database. For survey samples with more than one grade, overall percentile scores for risk and protective factor scales are created by weighting the *Communities That Care* normative database to match the grade-level distribution of the community’s sample. If, for example, a community only surveyed 9th and 10th graders, statistical weights would be applied so that the overall risk and protective factor percentile scores for that community will be calculated against only the 9th and 10th graders in the *Communities That Care* normative database.

Overall Results

Overall risk and protective factor scale scores are presented in Graphs 1 and 2. These results provide a general description of the prevention needs of Dedham High School 9th through 12th graders as a whole.

As Graph 1 shows, overall scores across the 10 protective factor scales range from a low of 41 to a high of 66, with an average score of 53, which is three points higher than the normative average. The three lowest protective factor scales are *Religiosity* (41), *Community Rewards for Prosocial Involvement* (49) and *Community Opportunities for Prosocial Involvement* (51). While policies that target any protective factor could potentially be an important resource for students in Dedham High School, focusing prevention planning in these areas could be especially beneficial. The most elevated protective factor scales are *Belief in the Moral Order* (66), *School Rewards for Prosocial Involvement* (56) and *Social Skills* (56). The high scores reported by students in these areas represent strengths that Dedham High School can build on.

As Graph 2 shows, overall scores across the 23 risk factor scales range from a low of 28 to a high of 57, with an average score of 42, eight points lower than the normative average of 50. The three most elevated risk factor scales are *Low Perceived Risks of Drug Use* (57), *Poor Academic Performance* (52) and *Family Conflict* (51). While policies that target any risk factor could potentially be an important resource for students in Dedham High School, the high scores on these scales suggest that directing prevention programming in these areas could be especially beneficial. The four most suppressed risk factor scales are *Laws and Norms Favorable to Handguns* (28), *Perceived Availability of Handguns* (30), *Early Initiation of Drug Use* (31) and *Sensation Seeking* (31). The low scores reported by students in these areas represent strengths that Dedham High School can build on.

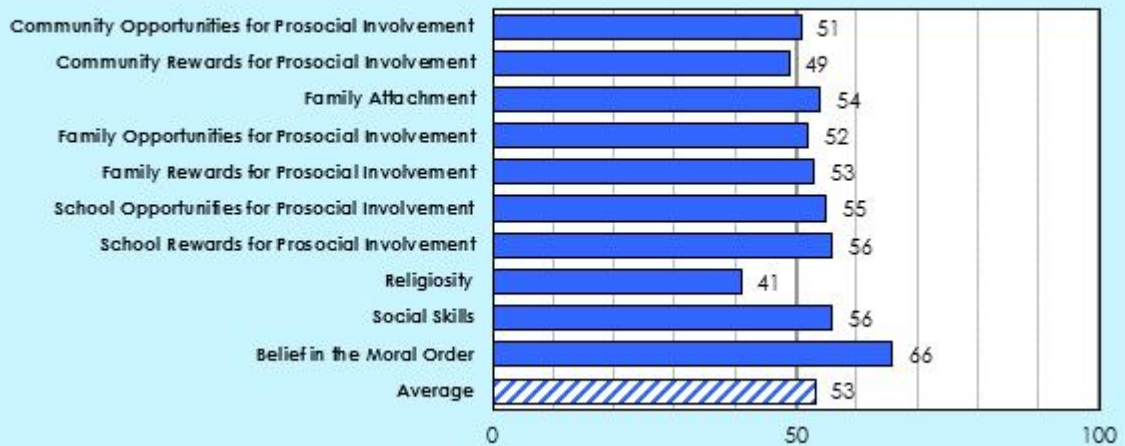
Grade-Level Results

While overall scores provide a general picture of the risk and protective factor profile for Dedham High School, they can mask problems within individual grades. Tables 3 and 4 in this section of the report present individual-grade data for risk and protective factor scale scores. This detailed information provides prevention planners with a snapshot revealing which risk and protective factor scales are of greatest concern by grade. It allows those prevention planners to focus on the most appropriate points in youth development for preventive intervention action—and to target their prevention efforts as precisely as possible.

As Tables 3 and 4 show, risk and protective factor profiles differ substantially across grade levels. For example, Dedham High School 9th graders reported the highest level of risk for *Family Conflict* (57), *Low Perceived Risks of Drug Use* (53) and *Transitions and Mobility* (51). In contrast, Dedham High School 12th graders reported the highest risk levels for *Low Perceived Risks of Drug Use* (56), *Peer Rewards for Antisocial Behavior* (55) and *Poor Academic Performance* (54). Using this information as a guide, programs targeted toward younger students would address a different set of needs than those targeted toward older students.

Comparisons Across Protective Factors

Graph 1. Overall Protective Factor Scale Scores



Comparisons Across Risk Factors

Graph 2. Overall Risk Factor Scale Scores

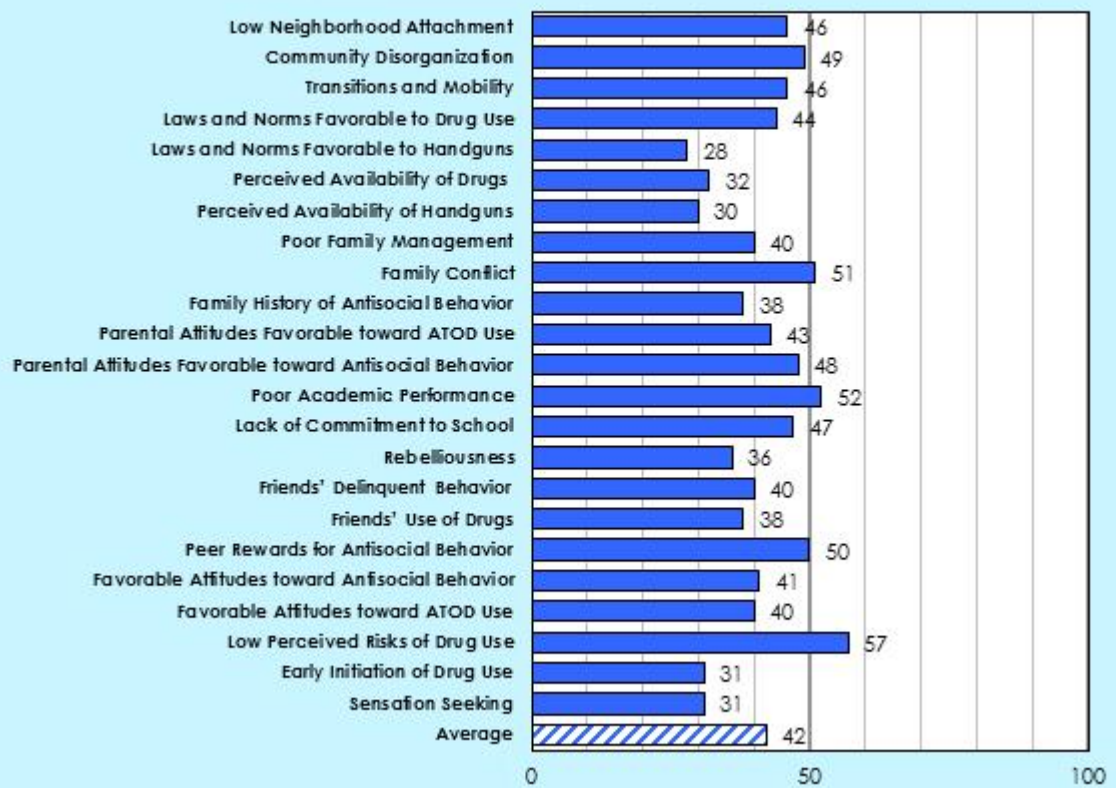


Table 3. Protective Factor Scale Scores Reported by Surveyed Youth, by Grade		6 th	7 th	8 th	9 th	10 th	11 th	12 th
Community Domain	Community Opportunities for Prosocial Involvement				56	53	48	49
	Community Rewards for Prosocial Involvement				45	50	53	47
Family Domain	Family Attachment				53	52	56	58
	Family Opportunities for Prosocial Involvement				47	51	56	56
	Family Rewards for Prosocial Involvement				49	50	57	58
School Domain	School Opportunities for Prosocial Involvement				56	57	56	54
	School Rewards for Prosocial Involvement				55	60	58	52
Peer and Individual Domain	Religiosity				41	44	39	40
	Social Skills				61	56	55	53
	Belief in the Moral Order				70	68	67	58
Average					53	54	55	53

Table 4. Risk Factor Scale Scores Reported by Surveyed Youth, by Grade		6 th	7 th	8 th	9 th	10 th	11 th	12 th
Community Domain	Low Neighborhood Attachment				47	46	48	44
	Community Disorganization				47	47	52	49
	Transitions and Mobility				51	43	45	44
	Laws and Norms Favorable to Drug Use				44	46	41	43
	Laws and Norms Favorable to Handguns				31	29	28	24
	Perceived Availability of Drugs				37	34	25	32
	Perceived Availability of Handguns				33	32	26	29
Family Domain	Poor Family Management				41	42	35	39
	Family Conflict				57	46	49	52
	Family History of Antisocial Behavior				36	36	39	43
	Parental Attitudes Favorable toward ATOD Use				40	44	44	41
	Parental Attitudes Favorable toward Antisocial Behavior				47	46	49	51
School Domain	Poor Academic Performance				49	48	52	54
	Lack of Commitment to School				46	48	46	47
Peer and Individual Domain	Rebelliousness				33	38	32	40
	Friends' Delinquent Behavior				37	40	37	46
	Friends' Use of Drugs				34	40	37	42
	Peer Rewards for Antisocial Behavior				48	50	46	55
	Favorable Attitudes toward Antisocial Behavior				39	41	37	46
	Favorable Attitudes toward ATOD Use				35	44	39	41
	Low Perceived Risks of Drug Use				53	61	57	56
	Early Initiation of Drug Use				26	31	30	35
	Sensation Seeking				30	29	29	36
Average					41	42	40	43

Protective Factors

Protective factors are characteristics that are known to decrease the likelihood that a student will engage in problem behaviors. For example, bonding to parents reduces the risk of an adolescent engaging in problem behaviors.

The Social Development Strategy organizes the research on protective factors. Protective factors can buffer young people from risks and promote positive youth development. To develop these healthy positive behaviors, young people must be immersed in environments that consistently communicate healthy beliefs and clear standards for behavior; that foster the development of strong bonds to members of their family, school and community; and that recognize the individual characteristics of each young person.

The *Communities That Care Youth Survey* measures a variety of protective factor scales across four domains: Community Domain, Family Domain, School Domain, and Peer and Individual Domain. Unlike some risk factors, each of the protective factors is measured using a single protective factor scale. Below, each protective factor scale is described and the results for Dedham High School are reported.

Community Opportunities for Prosocial Involvement

Providing students with the opportunity to participate in prosocial activities or join organizations that promote positive youth development is a central component of the Social Development Strategy. By becoming more involved with their communities in this way, young people are more likely to develop healthy norms that reduce the risk of involvement in antisocial behavior. This protective factor is measured using the *Community Opportunities for Prosocial Involvement* scale.

The protective factor **Community Opportunities for Prosocial Involvement** is measured by a single scale using items such as “Which of the following activities for people your age are available in your community: Sports Teams?”

- Across grade levels, percentile scores for *Community Opportunities for Prosocial Involvement* range from a low of 48 among 11th graders to a high of 56 among 9th graders.
- Overall, Dedham High School received a percentile score of 51 on the *Community Opportunities for Prosocial Involvement* scale, one point higher than the normative average of 50.



Community Rewards for Prosocial Involvement

Students who feel recognized and rewarded by members of their community are less likely to engage in negative behaviors, because that recognition helps increase a student's self-esteem and the feeling of being bonded to that community. This protective factor is measured using the *Community Rewards for Prosocial Involvement* scale.

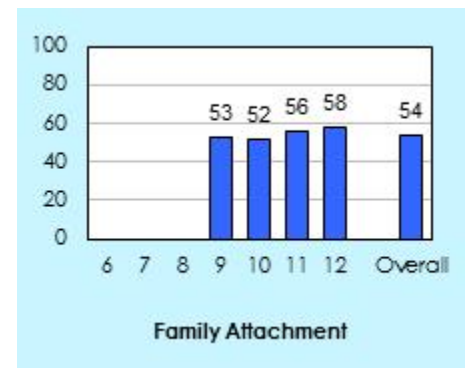
The protective factor **Community Rewards for Prosocial Involvement** is measured by a single scale using survey items such as "There are people in my neighborhood who are proud of me when I do something well."



- Across grade levels, percentile scores for *Community Rewards for Prosocial Involvement* range from a low of 45 among 9th graders to a high of 53 among 11th graders.
- Overall, Dedham High School received a percentile score of 49 on the *Community Rewards for Prosocial Involvement* scale, one point lower than the normative average of 50.

Family Attachment

One of the most effective ways to reduce the risk of problem behaviors among young people is to help strengthen their bonds with family members who embody healthy beliefs and clear standards. Children who are bonded to family members who have healthy beliefs are less likely to do things that threaten that bond, such as use drugs, commit crimes or drop out of school. Positive bonding can act as a buffer against risk factors. If children are attached to their parents and want to please them, they will be less likely to threaten that connection by doing things that their parents strongly disapprove of.



The protective factor **Family Attachment** is measured by a single scale using survey items such as "Do you share your thoughts and feelings with your mother?"

- Across grade levels, percentile scores for *Family Attachment* range from a low of 52 among 10th graders to a high of 58 among 12th graders.
- Overall, Dedham High School received a percentile score of 54 on the *Family Attachment* scale, four points higher than the normative average of 50.

Family Opportunities for Prosocial Involvement

When students have the opportunity to make meaningful contributions to their families, they are less likely to get involved in risky behaviors. By having the opportunity to make a contribution, students feel as if they're an integral part of their families. These strong bonds allow students to adopt the family norms, which can protect students from risk. For instance, children whose parents have high expectations for their school success and achievement are less likely to drop out of school.

The protective factor **Family Opportunities for Prosocial Involvement** is measured by a single scale using survey items such as “My parents ask me what I think before most family decisions affecting me are made.”

- Across grade levels, percentile scores for *Family Opportunities for Prosocial Involvement* range from a low of 47 among 9th graders to a high of 56 among 11th and 12th graders.
- Overall, Dedham High School received a percentile score of 52 on the *Family Opportunities for Prosocial Involvement* scale, two points higher than the normative average of 50.

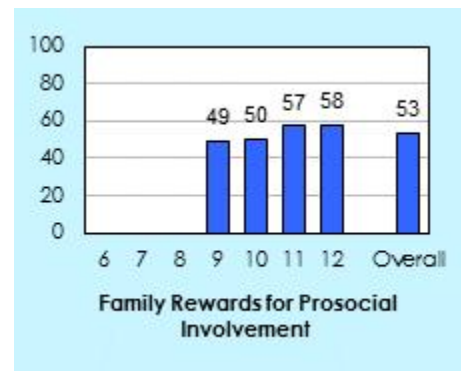


Family Rewards for Prosocial Involvement

When family members reward their children for positive participation in activities, it helps children feel motivated to contribute and stay involved with the family, thus reducing their risk for problem behaviors. When families promote clear standards for behavior, and when young people consequently develop strong bonds of attachment and commitment to their families, young people's behavior becomes consistent with those standards.

The protective factor **Family Rewards for Prosocial Involvement** is measured by a single scale using survey items such as “How often do your parents tell you they're proud of you for something you've done?”

- Across grade levels, percentile scores for *Family Rewards for Prosocial Involvement* range from a low of 49 among 9th graders to a high of 58 among 12th graders.
- Overall, Dedham High School received a percentile score of 53 on the *Family Rewards for Prosocial Involvement* scale, three points higher than the normative average of 50.



School Opportunities for Prosocial Involvement

Giving students opportunities to participate in important activities at school helps to reduce the likelihood that they will become involved in problem behaviors. Students who feel they have opportunities to be involved are more likely to contribute to school activity. This bond can protect a student from engaging in behaviors that violate socially accepted standards.

The protective factor **School Opportunities for Prosocial Involvement** is measured by a single scale using survey items such as “In my school, students have lots of chances to help decide things like class activities and rules.”

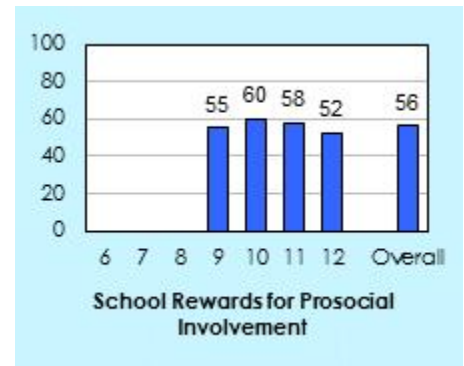


- Across grade levels, percentile scores for *School Opportunities for Prosocial Involvement* range from a low of 54 among 12th graders to a high of 57 among 10th graders.
- Overall, Dedham High School received a percentile score of 55 on the *School Opportunities for Prosocial Involvement* scale, five points higher than the normative average of 50.

School Rewards for Prosocial Involvement

Making students feel appreciated and rewarded for their involvement at school helps reduce the likelihood of their involvement in drug use and other problem behaviors. This is because students who feel appreciated for their activity at school bond to their school.

The protective factor **School Rewards for Prosocial Involvement** is measured by a single scale using survey items such as “The school lets my parents know when I have done something well.”



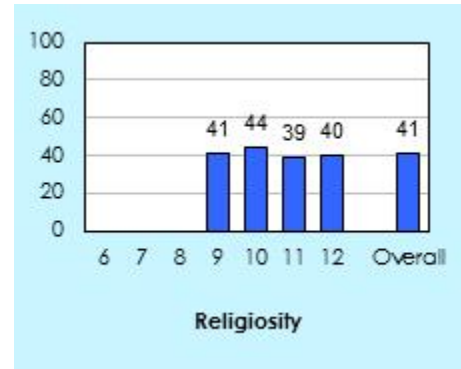
- Across grade levels, percentile scores for *School Rewards for Prosocial Involvement* range from a low of 52 among 12th graders to a high of 60 among 10th graders.
- Overall, Dedham High School received a percentile score of 56 on the *School Rewards for Prosocial Involvement* scale, six points higher than the normative average of 50.

Religiosity

Religious institutions can help students develop firm prosocial beliefs. Students who have high levels of religious connection are less vulnerable to becoming involved in antisocial behaviors, because they have already adopted a social norm against those activities.

The protective factor **Religiosity** is measured by a single scale using the survey item “How often do you attend religious services or activities?”

- Across grade levels, percentile scores for *Religiosity* range from a low of 39 among 11th graders to a high of 44 among 10th graders.
- Overall, Dedham High School received a percentile score of 41 on the *Religiosity* scale, nine points lower than the normative average of 50.

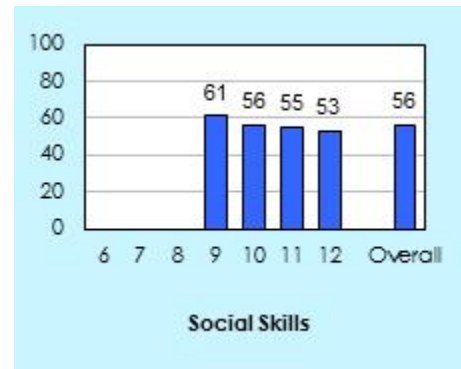


Social Skills

Students who have developed a high level of social skills are more likely to do well interacting with others, and will find these interactions rewarding. If they are skilled at avoiding trouble, they are less likely to engage in problem behaviors, such as drug use.

The protective factor **Social Skills** is measured by presenting students with a series of scenarios and giving them four possible responses to each scenario. The following is one scenario on the survey: “You are visiting another part of town, and you don’t know any of the people your age there. You are walking down the street, and some teenager you don’t know is walking toward you. He is about your size, and as he is about to pass you, he deliberately bumps into you and you almost lose your balance. What would you do or say?”

- Across grade levels, percentile scores for *Social Skills* range from a low of 53 among 12th graders to a high of 61 among 9th graders.
- Overall, Dedham High School received a percentile score of 56 on the *Social Skills* scale, six points higher than the normative average of 50.



Belief in the Moral Order

When people feel bonded to society, they are more motivated to follow society's standards and expectations. It is important for families, schools and communities to have clearly stated policies on drug use. Young people who have developed a positive belief system are less likely to become involved in problem behaviors. For example, young people who believe that drug use is socially unacceptable or harmful are likely to be protected against peer influences to use drugs.

The protective factor **Belief in the Moral Order** is measured by a single scale using survey items such as "It is all right to beat up people if they start the fight."



- Across grade levels, percentile scores for *Belief in the Moral Order* range from a low of 58 among 12th graders to a high of 70 among 9th graders.
- Overall, Dedham High School received a percentile score of 66 on the *Belief in the Moral Order* scale, 16 points higher than the normative average of 50.

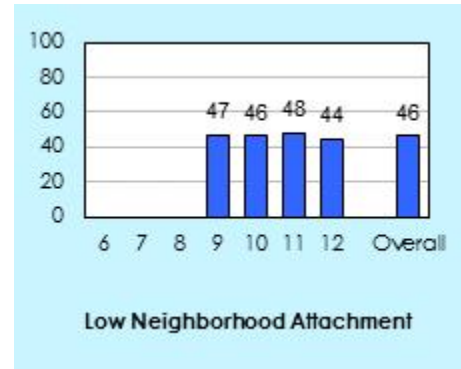
Risk Factors

Risk factors are characteristics in the community, family, school and individual's environments that are known to increase the likelihood that a student will engage in one or more problem behaviors. For example, a risk factor in the community environment is the existence of laws and norms favorable to drug use, which can affect the likelihood that a young person will try alcohol, tobacco or other drugs. In those communities where there is acceptance or tolerance of drug use, students are more likely to engage in alcohol, tobacco and other drug use.

The *Communities That Care Youth Survey* measures a variety of risk factor scales across four major domains. On the following pages, each of the risk factor scales measured in the Community, Family, School, and Peer and Individual Domains is described and the results for Dedham High School are reported.

Low Neighborhood Attachment

Higher rates of drug usage, delinquency and violence occur in communities or neighborhoods where people feel little attachment to the community. This situation is not specific to low-income neighborhoods. It also can be found in affluent neighborhoods. Perhaps the most significant issue affecting community attachment is whether residents feel they can make a difference in each other's lives. If the key players in a neighborhood—such as merchants, teachers, clergy, police and human and social services personnel—live outside the neighborhood, residents' sense of commitment will be lower. This low sense of commitment may be reflected in lower rates of voter participation and parental involvement in schools.



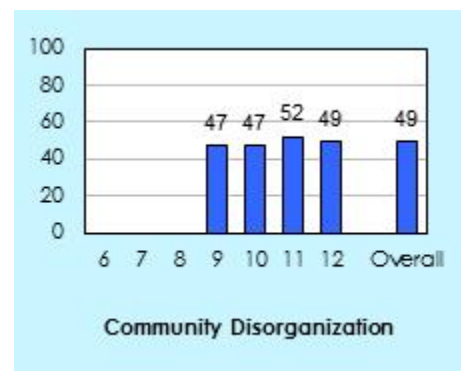
The *Low Neighborhood Attachment* scale was developed to measure a component of the risk factor **Low Neighborhood Attachment and Community Disorganization**. This scale is measured by survey items such as “I’d like to get out of my neighborhood” and “If I had to move, I would miss the neighborhood I now live in.”

- Across grade levels, percentile scores for *Low Neighborhood Attachment* range from a low of 44 among 12th graders to a high of 48 among 11th graders.
- Overall, Dedham High School received a percentile score of 46 on the *Low Neighborhood Attachment* scale, four points lower than the normative average of 50.

Community Disorganization

The *Community Disorganization* scale pertains to students' perceptions of their communities' appearance and other external attributes.

The *Community Disorganization* scale was developed to measure a component of the risk factor **Low Neighborhood Attachment and Community Disorganization**. This scale is measured by several survey items that would indicate a neighborhood in disarray (e.g., the existence of graffiti, abandoned buildings, fighting and drug selling) as well as the item “I feel safe in my neighborhood.”



- Across grade levels, percentile scores for *Community Disorganization* range from a low of 47 among 9th and 10th graders to a high of 52 among 11th graders.
- Overall, Dedham High School received a percentile score of 49 on the *Community Disorganization* scale, one point lower than the normative average of 50.

Transitions and Mobility

Even normal school transitions are associated with an increase in problem behaviors. When children move from elementary school to middle school or from middle school to high school, significant increases in the rates of drug use, school dropout and antisocial behavior may occur. This is thought to occur because by making a transition to new environments, students no longer have the bonds they had in their old environments. Consequently, students may be less likely to become attached to their new environments and develop the bonds that help protect them from involvement in problem behaviors.

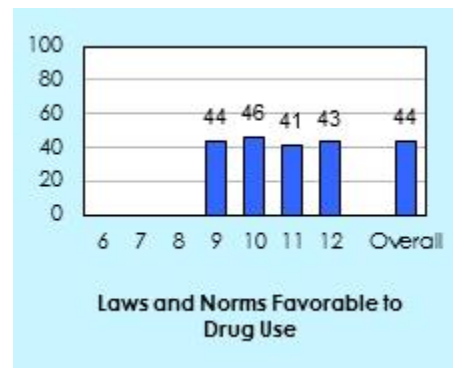


The risk factor **Transitions and Mobility** is measured by a single scale using survey items such as “How many times have you changed schools since kindergarten?” and “How many times have you changed homes since kindergarten?”

- Across grade levels, percentile scores for *Transitions and Mobility* range from a low of 43 among 10th graders to a high of 51 among 9th graders.
- Overall, Dedham High School received a percentile score of 46 on the *Transitions and Mobility* scale, four points lower than the normative average of 50.

Laws and Norms Favorable to Drug Use

Students’ perceptions of the rules and regulations concerning alcohol, tobacco and other drug use that exist in their neighborhoods are also associated with problem behaviors in adolescence. Community norms—the attitudes and policies a community holds in relation to drug use and other antisocial behaviors—are communicated in a variety of ways: through laws and written policies, through informal social practices and through the expectations parents and other members of the community have of young people. When laws and community standards are favorable toward drug use, violence and/or other crime, or even when they are just unclear, young people are more likely to engage in negative behaviors (Bracht and Kingsbury, 1990).



An example of conflicting messages about drug use can be found in the acceptance of alcohol use as a social activity within the community. The beer gardens popular at street fairs and community festivals are in contrast to the “just say no” messages that schools and parents may be promoting. These conflicting and ambiguous messages are problematic in that they do not have the positive impact on preventing alcohol and other drug use that a clear community-level anti-drug message can have.

The *Laws and Norms Favorable to Drug Use* scale was developed to measure a component of the risk factor **Community Laws and Norms Favorable toward Drug Use, Firearms and Crime**. This scale is measured by survey items such as “How wrong would most adults in your neighborhood think it was for kids your age to drink alcohol?” and “If a kid smoked marijuana in your neighborhood, would he or she be caught by the police?”

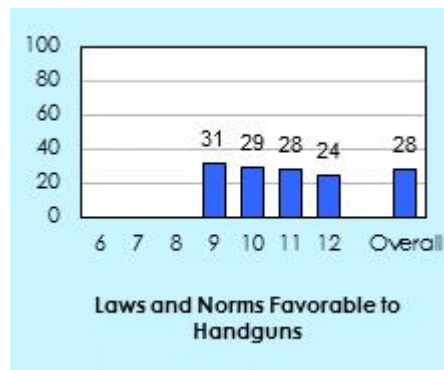
- Across grade levels, percentile scores for *Laws and Norms Favorable to Drug Use* range from a low of 41 among 11th graders to a high of 46 among 10th graders.

- Overall, Dedham High School received a percentile score of 44 on the *Laws and Norms Favorable to Drug Use* scale, six points lower than the normative average of 50.

Laws and Norms Favorable to Handguns

As with drug use, students' perceptions of the laws regarding illegal use of firearms may be related to violence. That is, when students perceive laws to be strict and consistently enforced, they may be less likely to carry guns and to engage in gun violence.

The *Laws and Norms Favorable to Handguns* scale was developed to measure a component of the risk factor **Community Laws and Norms Favorable toward Drug Use, Firearms and Crime**. This scale is measured using the survey item "If a kid carried a handgun in your neighborhood, would he or she be caught by the police?"

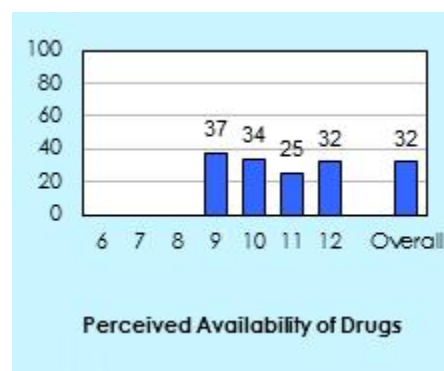


- Across grade levels, percentile scores for *Laws and Norms Favorable to Handguns* range from a low of 24 among 12th graders to a high of 31 among 9th graders.
- Overall, Dedham High School received a percentile score of 28 on the *Laws and Norms Favorable to Handguns* scale, 22 points lower than the normative average of 50.

Perceived Availability of Drugs

The perceived availability of alcohol, tobacco and other drugs in a community is directly related to the incidence of delinquent behavior. For example, in schools where children believe that drugs are more available, a higher rate of drug use occurs.

The risk factor scale *Perceived Availability of Drugs* was developed to measure a component of the risk factor **Availability of Drugs**. This scale is measured by survey items such as "If you wanted to get some marijuana, how easy would it be for you to get some?"



Elevation of this risk factor scale score may indicate the need to make alcohol, tobacco and other drugs more difficult for students to acquire. For instance, a number of policy changes have been shown to reduce the availability of alcohol and cigarettes. Minimum-age requirements, taxation and responsible beverage service have all been shown to affect the perception of availability of alcohol.

- Across grade levels, percentile scores for *Perceived Availability of Drugs* range from a low of 25 among 11th graders to a high of 37 among 9th graders.
- Overall, Dedham High School received a percentile score of 32 on the *Perceived Availability of Drugs* scale, 18 points lower than the normative average of 50.

Perceived Availability of Handguns

While a few studies report no association between firearm availability and violence, more studies do show a relationship. Given the lethality of firearms, the greater likelihood of conflict escalating into homicide when guns are present, and the strong association between the availability of guns and homicide rates, the availability of handguns is included in this survey.

The *Perceived Availability of Handguns* scale was developed to measure a component of the risk factor **Availability of Handguns**. This scale is measured using the survey item “If you wanted to get a handgun, how easy would it be for you to get one?”



- Across grade levels, percentile scores for *Perceived Availability of Handguns* range from a low of 26 among 11th graders to a high of 33 among 9th graders.
- Overall, Dedham High School received a percentile score of 30 on the *Perceived Availability of Handguns* scale, 20 points lower than the normative average of 50.

Poor Family Management

The risk factor scale *Poor Family Management* measures two components of family life: “poor family supervision,” which is defined as parents failing to supervise and monitor their children, and “poor family discipline,” which is defined as parents failing to communicate clear expectations for behavior and giving excessively severe, harsh or inconsistent punishment. Children who experience poor family supervision and poor family discipline are at higher risk of developing problems with drug use, delinquency, violence and school dropout.

The risk factor scale *Poor Family Management* was developed to measure a component of the risk factor **Family Management Problems**. This scale is measured by using items such as “Would your parents know if you did not come home on time?” and “My family has clear rules about alcohol and drug use.”

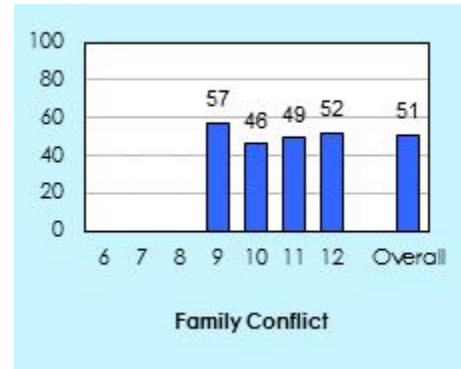


- Across grade levels, percentile scores for *Poor Family Management* range from a low of 35 among 11th graders to a high of 42 among 10th graders.
- Overall, Dedham High School received a percentile score of 40 on the *Poor Family Management* scale, 10 points lower than the normative average of 50.

Family Conflict

Bonding between family members, especially between children and their parents or guardians, is a key component in the development of positive social norms. High levels of family conflict interfere with the development of these bonds, and increase the likelihood that young people will engage in illegal drug use and other forms of delinquent behavior.

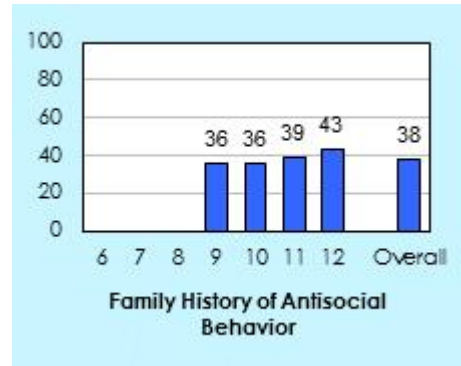
The risk factor **Family Conflict** is measured by a single scale using survey items such as “People in my family have serious arguments” and “People in my family often insult or yell at each other.”



- Across grade levels, percentile scores for *Family Conflict* range from a low of 46 among 10th graders to a high of 57 among 9th graders.
- Overall, Dedham High School received a percentile score of 51 on the *Family Conflict* scale, one point higher than the normative average of 50.

Family History of Antisocial Behavior

If children are raised in a family where a history of addiction to alcohol or other drugs exists, the risk of their having alcohol or other drug problems themselves increases. If children are born or raised in a family where criminal activity is present, their risk for delinquency increases. Similarly, children who are born to teenage mothers are more likely to become teen parents, and children of dropouts are more likely to drop out of school themselves. Children whose parents engage in violent behavior inside or outside the home are at greater risk for exhibiting violent behavior themselves. Students' perceptions of their families' behavior and standards regarding drug use and other antisocial behaviors are measured by the survey.



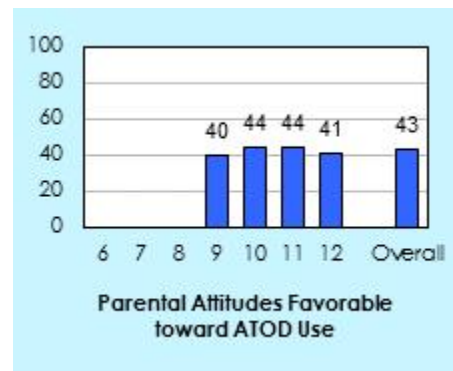
The *Family History of Antisocial Behavior* scale was developed to measure a component of the risk factor **Family History of the Problem Behavior**. This scale is measured by survey items such as “Has anyone in your family ever had a severe alcohol or drug problem?”

- Across grade levels, percentile scores for *Family History of Antisocial Behavior* range from a low of 36 among 9th and 10th graders to a high of 43 among 12th graders.
- Overall, Dedham High School received a percentile score of 38 on the *Family History of Antisocial Behavior* scale, 12 points lower than the normative average of 50.

Parental Attitudes Favorable toward ATOD Use

Students' perceptions of their parents' opinions about alcohol, tobacco and other drug use are an important risk factor. In families where parents use illegal drugs, are heavy users of alcohol or are tolerant of use by their children, children are more likely to become drug users in adolescence.

The *Parental Attitudes Favorable toward ATOD Use* scale was developed to measure a component of the risk factor **Favorable Parental Attitudes and Involvement in the Problem Behavior**. This scale is measured by survey items such as "How wrong do your parents feel it would be for you to smoke marijuana?"

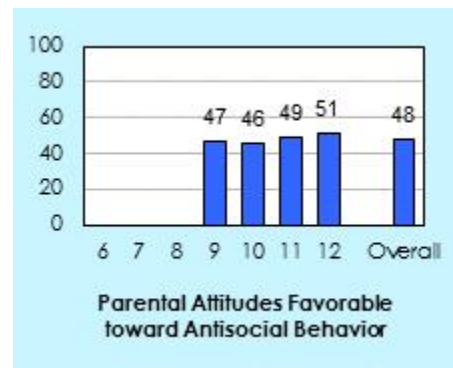


- Across grade levels, percentile scores for *Parental Attitudes Favorable toward ATOD Use* range from a low of 40 among 9th graders to a high of 44 among 10th and 11th graders.
- Overall, Dedham High School received a percentile score of 43 on the *Parental Attitudes Favorable toward ATOD Use* scale, seven points lower than the normative average of 50.

Parental Attitudes Favorable toward Antisocial Behavior

Students' perceptions of their parents' opinions about antisocial behavior are also an important risk factor. Parental attitudes and behavior regarding crime and violence influence the attitudes and behavior of children. If parents approve of or excuse their children for breaking the law, then the children are more likely to develop problems with juvenile delinquency.

The *Parental Attitudes Favorable toward Antisocial Behavior* scale was developed to measure a component of the risk factor **Favorable Parental Attitudes and Involvement in the Problem Behavior**. This scale is measured by survey items such as "How wrong do your parents feel it would be for you to pick a fight with someone?"



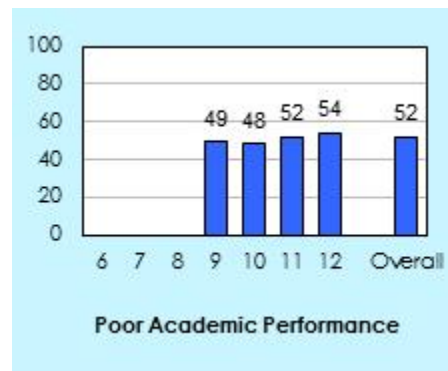
- Across grade levels, percentile scores for *Parental Attitudes Favorable toward Antisocial Behavior* range from a low of 46 among 10th graders to a high of 51 among 12th graders.
- Overall, Dedham High School received a percentile score of 48 on the *Parental Attitudes Favorable toward Antisocial Behavior* scale, two points lower than the normative average of 50.

Poor Academic Performance

Beginning in the late elementary grades, poor academic performance increases the risk of drug use, delinquency, violence and school dropout. Children fail for many reasons, but it appears that the experience of failure increases the risk of these problem behaviors.

The *Poor Academic Performance* scale was developed to measure a component of the risk factor **Academic Failure Beginning in Late Elementary School**. This scale is measured by the survey items “Putting them all together, what were your grades like last year?” and “Are your school grades better than the grades of most students in your class?” Elevated findings for this risk factor scale suggest that not only do students believe that they have lower grades than they might expect to get, but also that they perceive that compared to their peers they have below-average grades.

- Across grade levels, percentile scores for *Poor Academic Performance* range from a low of 48 among 10th graders to a high of 54 among 12th graders.
- Overall, Dedham High School received a percentile score of 52 on the *Poor Academic Performance* scale, two points higher than the normative average of 50.



Lack of Commitment to School

Lack of Commitment to School assesses a student’s general feelings about his or her schooling. Elevated findings for this risk factor scale can suggest that students feel less attached to, or connected with, their classes and school environment. Lack of commitment to school means the child has ceased to see the role of student as a positive one. Young people who have lost this commitment to school are at higher risk for a variety of problem behaviors.

The risk factor **Lack of Commitment to School** is measured by a single scale using survey items such as “How important do you think the things you are learning in school are going to be for your later life?” and “Now, thinking back over the past year in school, how often did you enjoy being in school?”

- Across grade levels, percentile scores for *Lack of Commitment to School* range from a low of 46 among 9th and 11th graders to a high of 48 among 10th graders.
- Overall, Dedham High School received a percentile score of 47 on the *Lack of Commitment to School* scale, three points lower than the normative average of 50.

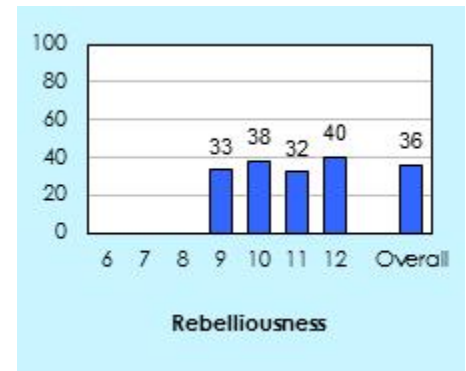


Rebelliousness

The survey also determines the number of young people who feel they are not part of society, who feel they are not bound by rules, and who don't believe in trying to be successful or responsible. These students are at higher risk of drug use, delinquency and school dropout.

The risk factor **Rebelliousness** is measured by a single scale using survey items such as "I ignore the rules that get in my way."

- Across grade levels, percentile scores for *Rebelliousness* range from a low of 32 among 11th graders to a high of 40 among 12th graders.
- Overall, Dedham High School received a percentile score of 36 on the *Rebelliousness* scale, 14 points lower than the normative average of 50.

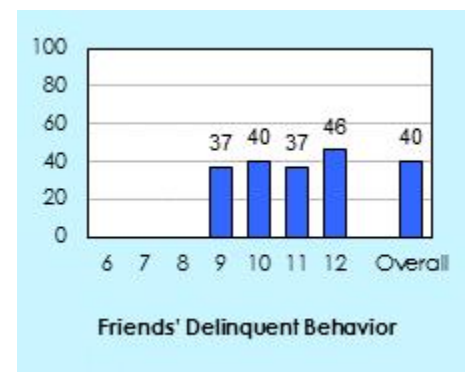


Friends' Delinquent Behavior

Young people who associate with peers who engage in delinquent behavior are much more likely to engage in delinquent behavior themselves. This is one of the most consistent predictors identified by research. Even when young people come from well-managed families and do not experience other risk factors, spending time with peers who engage in delinquent behavior greatly increases the risk of their becoming involved in delinquent behavior.

The *Friends' Delinquent Behavior* scale was developed to measure a component of the risk factor **Friends Who Engage in the Problem Behavior**. This scale is measured by survey items such as "In the past year, how many of your four best friends have been suspended from school?" Elevated scores can indicate that students are interacting with more antisocial peers than average. Low scores can suggest that students' delinquent behavior is not strongly influenced by their peers.

- Across grade levels, percentile scores for *Friends' Delinquent Behavior* range from a low of 37 among 9th and 11th graders to a high of 46 among 12th graders.
- Overall, Dedham High School received a percentile score of 40 on the *Friends' Delinquent Behavior* scale, 10 points lower than the normative average of 50.

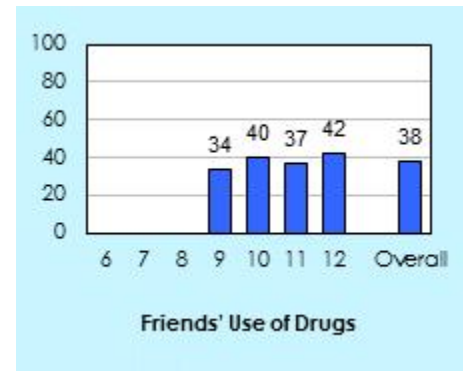


Friends' Use of Drugs

Young people who associate with peers who engage in substance use are much more likely to engage in it themselves. This is one of the most consistent predictors identified by research. Even when young people come from well-managed families and do not experience other risk factors, spending time with peers who use drugs greatly increases a youth's risk of becoming involved in such behavior.

The *Friends' Use of Drugs* scale was developed to measure a component of the risk factor **Friends Who Engage in the Problem Behavior**. This scale is measured by survey items such as "In the past year, how many of your best friends have used marijuana?"

- Across grade levels, percentile scores for *Friends' Use of Drugs* range from a low of 34 among 9th graders to a high of 42 among 12th graders.
- Overall, Dedham High School received a percentile score of 38 on the *Friends' Use of Drugs* scale, 12 points lower than the normative average of 50.



Peer Rewards for Antisocial Behavior

Students' perceptions of their peer groups' social norms are also an important predictor of involvement in problem behavior. When students feel that they get positive feedback from their peers for using alcohol, tobacco or other drugs, or getting involved in delinquent behaviors, they are more likely to engage in these behaviors. When young people believe that their peer groups are involved in antisocial behaviors, they are more likely to become involved in antisocial behaviors themselves.

The *Peer Rewards for Antisocial Behavior* scale was developed to measure a component of the risk factor **Friends Who Engage in the Problem Behavior**. This scale is measured by survey items such as "What are the chances you would be seen as cool if you smoked marijuana?"

- Across grade levels, percentile scores for *Peer Rewards for Antisocial Behavior* range from a low of 46 among 11th graders to a high of 55 among 12th graders.
- Overall, Dedham High School received a percentile score of 50 on the *Peer Rewards for Antisocial Behavior* scale, equaling the normative average of 50.

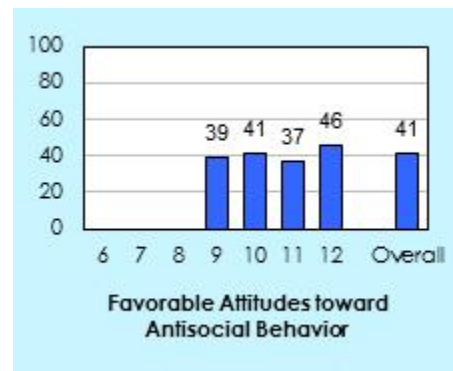


Favorable Attitudes toward Antisocial Behavior

During the elementary school years, children usually express anticrime and prosocial attitudes and have difficulty imagining why people commit crimes or drop out of school. However, in middle school, as others they know begin to participate in such activities, their attitudes often shift toward greater acceptance of these behaviors. This acceptance places them at higher risk for antisocial behaviors.

The *Favorable Attitudes toward Antisocial Behavior* scale was developed to measure a component of the risk factor **Favorable Attitudes toward the Problem Behavior**. This scale is measured by survey items such as “How wrong do you think it is for someone your age to pick a fight with someone?”

- Across grade levels, percentile scores for *Favorable Attitudes toward Antisocial Behavior* range from a low of 37 among 11th graders to a high of 46 among 12th graders.
- Overall, Dedham High School received a percentile score of 41 on the *Favorable Attitudes toward Antisocial Behavior* scale, nine points lower than the normative average of 50.

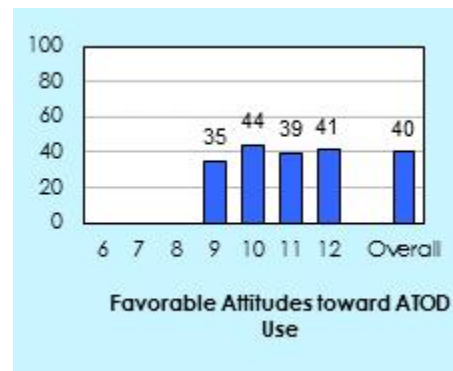


Favorable Attitudes toward ATOD Use

During the elementary school years, children usually express anti-drug attitudes and have difficulty imagining why people use drugs. However, in middle school, as others they know begin to participate in such activities, their attitudes often shift toward greater acceptance of these behaviors. This acceptance places them at higher risk. The risk factor scale *Favorable Attitudes toward ATOD Use* assesses risk by asking young people how wrong they think it is for someone their age to use drugs.

The *Favorable Attitudes toward ATOD Use* scale was developed to measure a component of the risk factor **Favorable Attitudes toward the Problem Behavior**. This scale is measured by survey items such as “How wrong do you think it is for someone your age to drink beer, wine or hard liquor (for example, vodka, whiskey or gin) regularly?” An elevated score for this risk factor can indicate that students see little wrong with using drugs.

- Across grade levels, percentile scores for *Favorable Attitudes toward ATOD Use* range from a low of 35 among 9th graders to a high of 44 among 10th graders.
- Overall, Dedham High School received a percentile score of 40 on the *Favorable Attitudes toward ATOD Use* scale, 10 points lower than the normative average of 50.

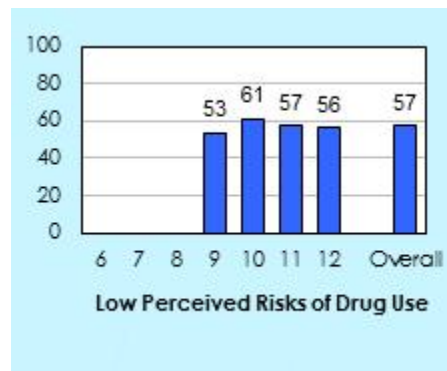


Low Perceived Risks of Drug Use

The perception of harm from drug use is related to both experimentation and regular use. The less harm that an adolescent perceives as the result of drug use, the more likely it is that he or she will use drugs.

The *Low Perceived Risks of Drug Use* scale was developed to measure a component of the risk factor **Favorable Attitudes toward the Problem Behavior**. This scale is measured by survey items such as “How much do you think people risk harming themselves if they try marijuana once or twice?” An elevated score can indicate that students are not aware of, or do not comprehend, the possible harm resulting from drug use.

- Across grade levels, percentile scores for *Low Perceived Risks of Drug Use* range from a low of 53 among 9th graders to a high of 61 among 10th graders.
- Overall, Dedham High School received a percentile score of 57 on the *Low Perceived Risks of Drug Use* scale, seven points higher than the normative average of 50.

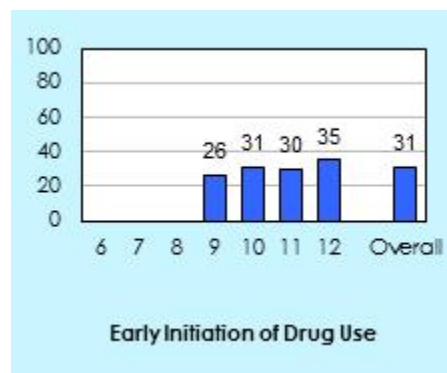


Early Initiation of Drug Use

The initiation of alcohol, tobacco or other drug use at an early age is linked to a number of negative outcomes. The earlier that experimentation with drugs begins, the more likely it is that experimentation will become consistent, regular use. Early initiation may lead to the use of a greater range of drugs, as well as other problem behaviors.

The risk factor scale *Early Initiation of Drug Use* was developed to measure a component of the risk factor **Early Initiation of the Problem Behavior**. This scale is measured by survey items that ask when drug use began.

- Across grade levels, percentile scores for *Early Initiation of Drug Use* range from a low of 26 among 9th graders to a high of 35 among 12th graders.
- Overall, Dedham High School received a percentile score of 31 on the *Early Initiation of Drug Use* scale, 19 points lower than the normative average of 50.



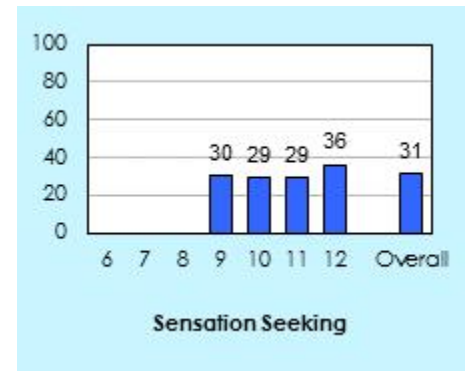
Sensation Seeking

Individual characteristics that may have a biological or physiological basis are sometimes referred to as “constitutional factors.” *Sensation Seeking* is among those constitutional factors that appear to increase the likelihood of a young person’s using drugs, engaging in delinquent behavior and/or committing violent acts.

Sensation Seeking is assessed by asking how often students participate in behaviors to experience thrills or a particular feeling or emotion.

The *Sensation Seeking* scale was developed to measure a component of the risk factor **Constitutional Factors**. This scale is measured by survey items such as “How many times have you done crazy things even if they are a little dangerous?”

- Across grade levels, percentile scores for *Sensation Seeking* range from a low of 29 among 10th and 11th graders to a high of 36 among 12th graders.
- Overall, Dedham High School received a percentile score of 31 on the *Sensation Seeking* scale, 19 points lower than the normative average of 50.



Section 3

Alcohol, Tobacco and Other Drug Use

Measurement

Drug use is measured by a set of 23 survey questions on the *Communities That Care Youth Survey*. The questions are similar to those used in the *Monitoring the Future* study, a nationwide study of drug use by middle and high school students. Consequently, national data as well as data from other similar surveys can be easily and accurately compared to data from the *Communities That Care Youth Survey*.

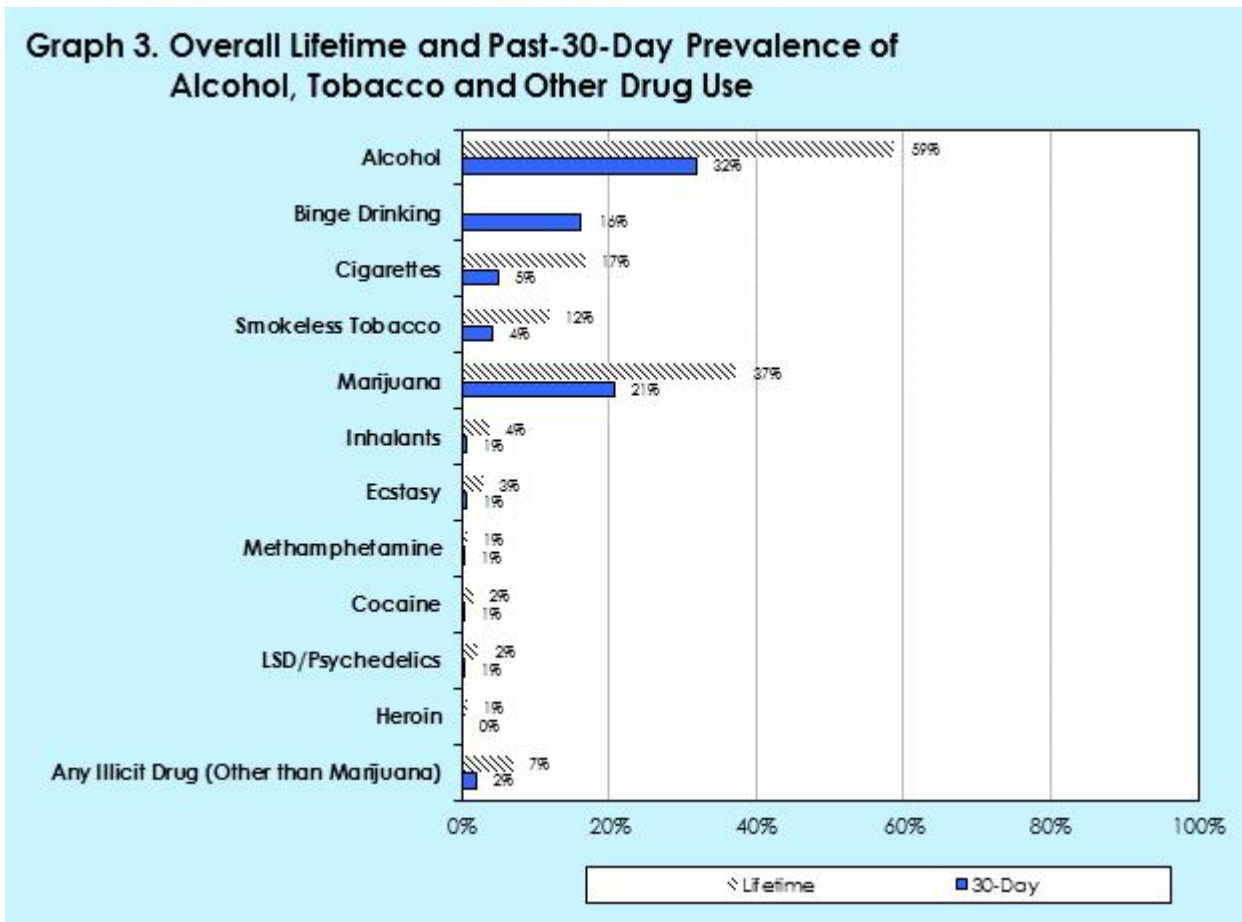
Prevalence-of-use tables and graphs are used to illustrate the percentages of students who reported using alcohol, tobacco and other drugs (ATODs). These results are presented for both lifetime and past-30-day prevalence of use periods. Lifetime prevalence of use (whether the student has ever used the drug) is a good measure of student experimentation. Past-30-day prevalence of use (whether the student has used the drug within the last month) is a good measure of current use. In addition to the standard lifetime and past-30-day prevalence rates for alcohol use, binge drinking behavior (defined as a report of five or more drinks in a row within the past two weeks) is also measured.

A final indicator—“any illicit drug (other than marijuana)” —measures the use of one or more of the following drugs: Ecstasy, methamphetamine, cocaine, LSD/Psychedelics and heroin. The purpose of this drug combination rate is to provide prevention planners with an overall gauge of so-called “hard” drug use (Johnston, O’Malley, Bachman & Schulenberg, 2014).

Normative Comparison

Comparing and contrasting findings from a community- or school-district-level survey to relevant data from county, state or national surveys provides a valuable perspective on local data. For the purposes of this report, comparisons for alcohol, tobacco and other drug involvement will be made to the 2013 *Monitoring the Future* study. The *Monitoring the Future* survey project, which provides national prevalence-of-use information for ATODs from a representative sample of 8th, 10th and 12th graders, is conducted annually by the Survey Research Center of the Institute for Social Research at the University of Michigan (see www.monitoringthefuture.org). For a review of the methodology of this study, please see Johnston et al., 2014.

Overall Results

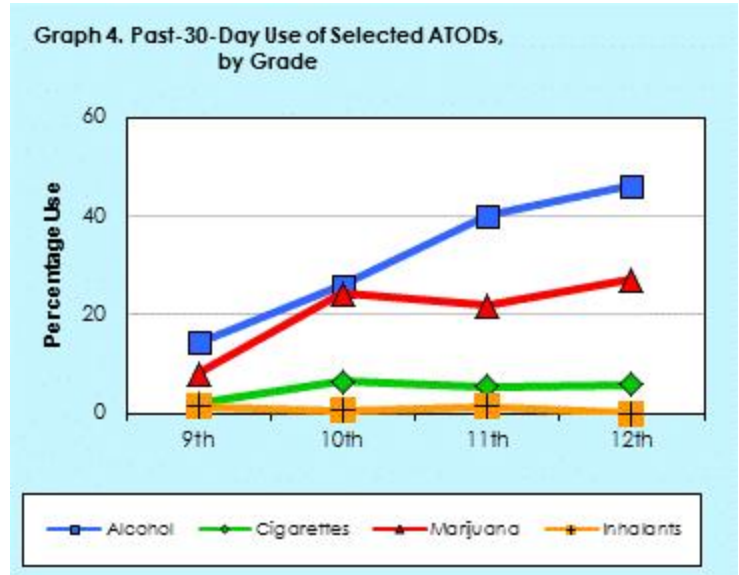


ATOD prevalence rates for the combined sample of 9th through 12th graders are presented in Graph 3, and in the overall results column of Tables 5 and 6. As these results show, Dedham High School students recorded the highest prevalence-of-use rates for alcohol and marijuana. 58.8% of surveyed students reported that they had used alcohol in their lifetimes, and 31.9% reported that they had used alcohol at least once in the past 30 days. 37.3% of surveyed students reported that they had used marijuana in their lifetimes, and 20.7% reported that they had used marijuana at least once in the past 30 days.

Cigarettes and smokeless tobacco are the third and fourth most commonly used drugs. 16.9% of Dedham High School students reported that they had used cigarettes in their lifetimes, and 5.0% reported use within the past 30 days. Slightly fewer students, 12.0%, reported using smokeless tobacco in their lifetimes, and 4.2% reported use within the past 30 days. Following alcohol, tobacco and marijuana use in popularity, 3.9% of Dedham High School students reported that they had used inhalants within their lifetimes, and 0.8% reported that they had used inhalants within the past 30 days.

Grade-Level Results

ATOD prevalence rates for individual grade levels are presented in Graph 4 and Tables 5 and 6. Drug use in Dedham High School, as Graph 4 illustrates, generally increases as students enter higher grades. This pattern is particularly pronounced for alcohol, which shows a substantial increase in past-30-day use from just 14.3% among 9th graders to 46.2% among 12th graders. Past-30-day prevalence of marijuana use shows a substantial increase with grade level as well, rising from 8.1% among 9th graders to 27.0% among 12th graders. Inhalant use, which peaks among 11th graders (1.4% for past-30-day use), provides the one notable exception to this pattern. In many communities, inhalant use is more prevalent with younger students, perhaps because it is often the easiest drug for them to obtain.



In addition to a complete report of prevalence-of-use rates for each surveyed grade, Tables 5 and 6 present national comparative results from the *Monitoring the Future* study. Across the two comparison grades (10th and 12th), students in Dedham High School students reported higher levels of lifetime alcohol use compared to their national counterparts. 58.2% of 10th graders and 74.1% of 12th graders in Dedham High School reported at least one instance of alcohol use in their lifetimes compared to 52.1% of 10th graders and 68.2% of 12th graders from the *Monitoring the Future* sample.

In contrast to these patterns, Dedham High School students reported lower levels of cigarette and inhalant use compared to results from *Monitoring the Future*. Dedham High School students reported significantly lower prevalence levels for inhalant use (5.7% and 0.6% compared to 8.7% and 6.9%).

Table 6 shows a pattern for past-30-day prevalence of use that is similar to lifetime use. For past-30-day ATOD use, 12th graders in Dedham High School reported higher average levels of alcohol use than their national counterparts. For cigarettes and inhalants, Dedham High School 10th and 12th graders reported lower levels of use than their national counterparts.

Table 5. Lifetime Use of Alcohol, Tobacco and Other Drugs for Surveyed Youth Compared to the “Monitoring the Future” Study

	<i>Dedham High School</i>							<i>Overall</i> %	<i>Monitoring the Future¹</i>		
	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %		8 th %	10 th %	12 th %
Alcohol				37.3	58.2	65.5	74.1	58.8	27.8	52.1	68.2
Cigarettes				8.8	15.7	18.7	23.4	16.9	14.8	25.7	38.1
Smokeless Tobacco				3.8	11.4	13.4	17.8	12.0	7.9	14.0	17.2
Marijuana				16.8	35.2	43.2	50.9	37.3	16.5	35.8	45.5
Inhalants				5.0	5.7	3.4	0.6	3.9	10.8	8.7	6.9
Ecstasy				0.6	2.5	1.4	6.9	2.9	1.8	5.7	7.1
Methamphetamine				0.0	1.3	0.0	1.7	0.8	1.4	1.6	1.5
Cocaine				0.0	3.2	0.0	3.4	1.7	1.7	3.3	4.5
LSD/Psychedelics				0.0	3.2	1.4	4.6	2.3	2.5	5.4	7.6
Heroin				0.0	1.3	0.0	1.7	0.8	1.0	1.0	1.0
Any Illicit Drug (Other than Marijuana)				5.0	8.8	4.1	9.1	7.0	--	--	--

Note: The symbol “--” indicates that data are not available because students were not surveyed, the drug was not included in the survey, or a comparable aggregate calculation was not available. *Monitoring the Future* data is only available for 8th, 10th and 12th graders.

¹ Johnston et al. (2014).

Table 6. Past-30-Day Use of Alcohol, Tobacco and Other Drugs for Surveyed Youth Compared to the “Monitoring the Future” Study

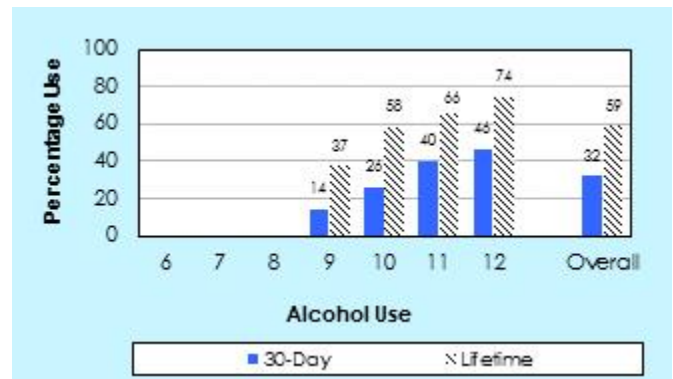
	<i>Dedham High School</i>							<i>Overall</i> %	<i>Monitoring the Future¹</i>		
	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %		8 th %	10 th %	12 th %
Alcohol				14.3	25.9	40.0	46.2	31.9	10.2	25.7	39.2
Binge Drinking				6.9	14.6	18.6	23.6	16.3	5.1	13.7	22.1
Cigarettes				1.9	6.4	5.4	5.7	5.0	4.5	9.1	16.3
Smokeless Tobacco				0.0	1.9	6.7	7.4	4.2	2.8	6.4	8.1
Marijuana				8.1	24.2	21.8	27.0	20.7	7.0	18.0	22.7
Inhalants				1.3	0.6	1.4	0.0	0.8	2.3	1.3	1.0
Ecstasy				0.0	1.9	0.0	0.6	0.6	0.5	1.2	1.5
Methamphetamine				0.0	1.3	0.0	0.6	0.5	0.4	0.4	0.4
Cocaine				0.0	1.9	0.0	0.0	0.5	0.5	0.8	1.1
LSD/Psychedelics				0.0	0.6	0.0	1.2	0.5	0.8	1.1	1.4
Heroin				0.0	0.6	0.0	0.0	0.2	0.3	0.3	0.3
Any Illicit Drug (Other than Marijuana)				1.2	3.8	1.4	2.3	2.1	--	--	--

Note: The symbol “--” indicates that data are not available because students were not surveyed, the drug was not included in the survey, or a comparable aggregate calculation was not available. *Monitoring the Future* data is only available for 8th, 10th and 12th graders.

¹ Johnston et al. (2014).

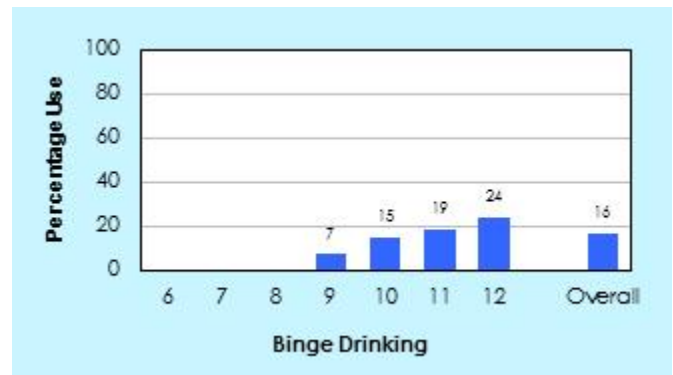
Alcohol

Alcohol, including beer, wine and hard liquor, is the drug used most often by adolescents today. Findings from the *Monitoring the Future* study highlight the pervasiveness of alcohol in middle and high schools today. In comparison, cigarette use and marijuana use are only about half as prevalent as alcohol use. Given the national pattern, it is not surprising that alcohol is the most used drug among students in Dedham High School.



- Lifetime prevalence of alcohol use ranges from a low of 37.3% for 9th graders to a high of 74.1% for 12th graders. Compared to national findings, 10th and 12th graders reported higher rates of lifetime alcohol use. Overall, 58.8% of Dedham High School students have used alcohol at least once in their lifetimes.
- Past-30-day prevalence of alcohol use ranges from a low of 14.3% for 9th graders to a high of 46.2% for 12th graders. Compared to national findings, Dedham High School 10th and 12th graders reported higher rates of past-30-day alcohol use. Overall, 31.9% of Dedham High School students have used alcohol at least once in the past 30 days.

Binge drinking (defined as a report of five or more drinks in a row within the past two weeks) is extremely dangerous. Several studies have shown that binge drinking is related to higher probabilities of drinking and driving as well as injury due to intoxication. As with alcohol use in general, binge drinking tends to become more pervasive as students grow older.

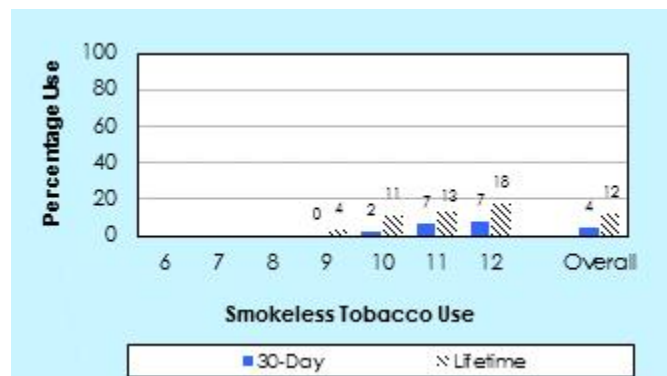
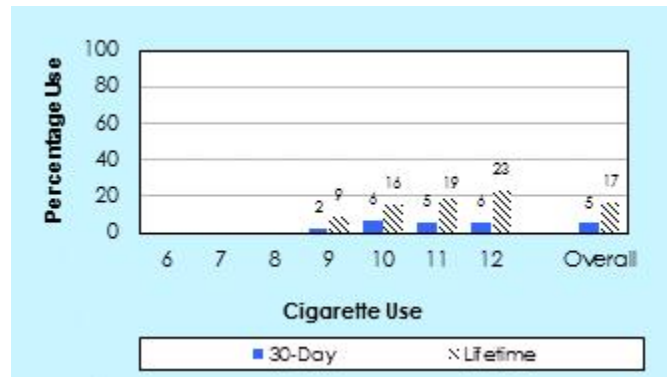


- Across grades, binge drinking prevalence rates range from a low of 6.9% among 9th graders to a high of 23.6% among 12th graders. Compared to national findings, Dedham High School 10th and 12th graders reported higher rates of binge drinking. Overall, 16.3% of Dedham High School students reported at least one episode of binge drinking in the past two weeks.

Tobacco

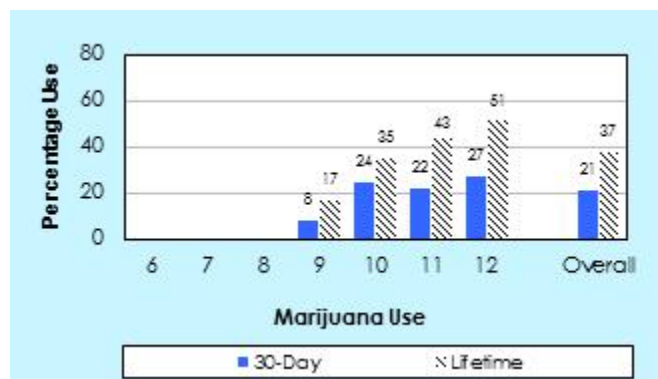
After alcohol, tobacco (including cigarettes and smokeless tobacco) is one of the most commonly used drugs among adolescents. Nationally, tobacco use (including both cigarettes and smokeless tobacco) has declined substantially since the late 1990s (Johnston et al., 2014).

- Lifetime prevalence of cigarette use ranges from a low of 8.8% in the 9th grade to a high of 23.4% in the 12th grade. Compared to national findings, 10th and 12th graders reported lower rates of lifetime cigarette use. Overall, 16.9% of Dedham High School students have used cigarettes at least once in their lifetimes.
- Past-30-day prevalence of cigarette use ranges from a low of 1.9% in the 9th grade to a high of 5.7% in the 12th grade. Compared to national findings, 10th and 12th graders reported lower rates of past-30-day cigarette use. Overall, 5.0% of Dedham High School students have used cigarettes in the past 30 days.
- Lifetime prevalence of smokeless tobacco use ranges from a low of 3.8% in the 9th grade to a high of 17.8% in the 12th grade. Compared to national findings, 10th graders reported a lower rate of lifetime smokeless tobacco use and 12th graders reported a slightly higher rate of use. Overall, Dedham High School students reported lower lifetime use of smokeless tobacco (12.0% for smokeless tobacco, 16.9% for cigarettes) as compared with lifetime use of cigarettes.
- Past-30-day prevalence of smokeless tobacco use ranges from a low of 0.0% in the 9th grade to a high of 7.14% in the 12th grade. Compared to national findings, 10th and 12th graders reported lower rates of past-30-day smokeless tobacco use. Overall, Dedham High School students reported lower past-30-day use of smokeless tobacco (4.2% for smokeless tobacco, 5.0% for cigarettes) as compared with past-30-day use of cigarettes.



Marijuana

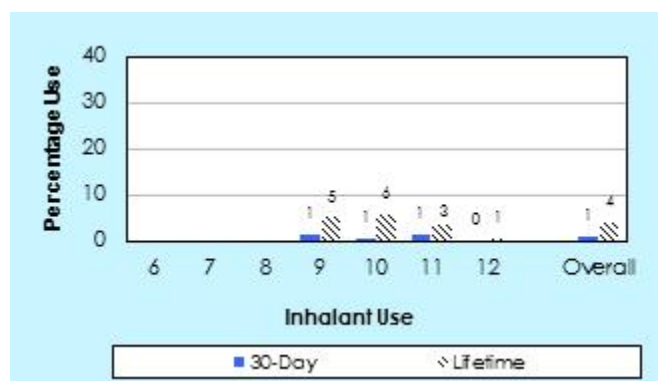
During the 1990s, there were major changes in trends of marijuana use throughout the United States. Results from the *Monitoring the Future* study show dramatic increases in both lifetime and past-30-day prevalence rates through the early and mid 1990s (Johnston et al., 2014). For 8th and 10th graders, the past-30-day rates more than doubled during this period. Since 1996 and 1997, when marijuana use peaked, rates started a gradual decline that lasted through the mid to late 2000s. In recent years, however, this trend has reversed and the prevalence of marijuana use has increased.



- Lifetime prevalence of marijuana use for students in Dedham High School rises from a low of 16.8 % in the 9th grade to a high of 50.9% in the 12th grade. Compared to the *Monitoring the Future* findings, the lifetime rate of use for 10th graders is similar and the rate of use for 12th graders is higher. Overall, 37.3% of Dedham High School students have used marijuana at least once in their lifetimes.
- Past-30-day prevalence of marijuana use rises from a low of 8.1% in the 9th grade to a high of 27.0% in the 12th grade. The reported rate for prevalence of marijuana use by 10th and 12th graders is higher compared to the national findings. Overall, 20.7% of Dedham High School students have used marijuana at least once in the past 30 days.

Inhalants

Inhalant use is more prevalent with younger students, perhaps because inhalants are often the easiest drugs for them to obtain. The health consequences of inhalant use can be substantial, including brain damage and heart failure. Inhalant use was measured by the survey question “On how many occasions (if any) have you used inhalants (whippets, butane, paint thinner, or glue to sniff, etc.)?” Comparisons with the *Monitoring the Future* study should be made carefully because there are differences in survey questions for this class of drugs.

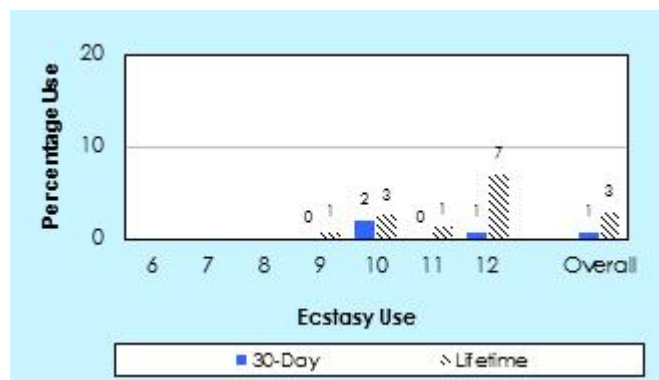


- Lifetime prevalence of inhalant use for students in Dedham High School ranges from a low of 0.6% in the 12th grade to a high of 5.7% in the 10th grade. Past-30-day prevalence of inhalant use ranges from a low of 0.0% in the 12th grade to a high of 1.4% in the 11th grade.
- Inhalant use typically peaks in middle school years and decreases throughout high school. This can be seen in both the lifetime and past-30-day prevalence-of-use data from the *Monitoring the Future* study (see Tables 5 and 6). In Dedham High School, inhalant use generally follows this pattern. Lifetime use peaks in 10th grade and past-30-day use peaks in the 11th grade. Compared to the *Monitoring the Future* study, the rates of lifetime and past-30-day inhalant use in Dedham High School are lower for 10th and 12th graders.

Ecstasy

Ecstasy (also known as MDMA) has both stimulant and hallucinogenic effects. After showing a rapid increase in use nationwide from 1998 to 2001, use of Ecstasy has declined (Johnston et al., 2014).

- Lifetime prevalence of Ecstasy use ranges from a low of 0.6% for 9th graders to a high of 6.9% for 12th graders. Compared to national findings, 10th and 12th graders reported lower rates of lifetime Ecstasy use. Overall, 2.9% of Dedham High School students have used Ecstasy at least once in their lifetimes.



- As with national data from *Monitoring the Future*, the past-30-day prevalence rates for Ecstasy use reported by Dedham High School students are low, ranging from 0.0 % for 9th and 11th graders to 1.9% for 10th graders.

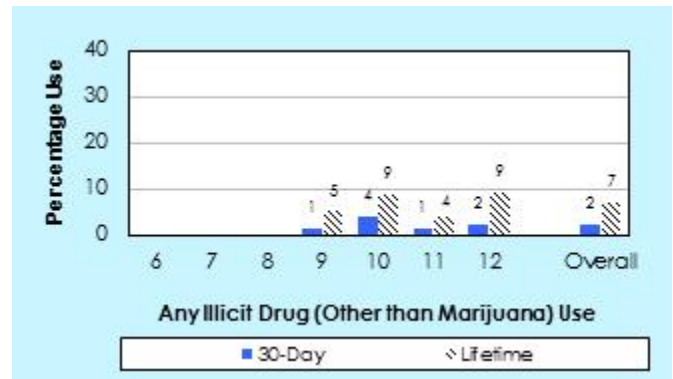
Other Drugs

The *Communities That Care Youth Survey* also measures the prevalence of use for a variety of other drugs. This includes student use of the following: methamphetamine, cocaine, LSD/Psychedelics and heroin. The rates for prevalence of use of these other drugs are generally lower than the rates for alcohol, tobacco, marijuana, inhalants and Ecstasy. Additionally, use of these other drugs tends to be concentrated in the upper grade levels.

- Students in Dedham High School reported relatively little use of the other drugs that are measured by the survey. Specifically, no more than 2.3% of students indicated use of methamphetamine, cocaine, LSD/Psychedelics or heroin during their lifetimes.
- For the purposes of the *Communities That Care Youth Survey*, methamphetamine was defined as “meth, crystal meth, crank.” Lifetime prevalence rates for methamphetamine range from a low of 0.0% in the 9th and 11th grade to a high of 1.7% in the 12th grade. The overall lifetime prevalence rate is 0.8%.
- Lifetime prevalence rates for cocaine range from a low of 0.0% in the 9th and 11th grade to a high of 3.4 % in the 12th grade. The overall lifetime prevalence rate is 1.7%.
- Lifetime prevalence rates for LSD/Psychedelics range from a low of 0.0% in the 9th grade to a high of 4.6% in the 12th grade. The overall lifetime prevalence rate is 2.3%.
- Lifetime prevalence rates for heroin range from a low of 0.0% in the 9th and 11th grade to a high of 1.7% in the 12th grades. The overall lifetime prevalence rate is 0.8%.

Any Illicit Drug (Other than Marijuana)

The final ATOD indicator reports on the use of any illicit drug other than marijuana. This drug combination rate—which includes use of one or more of the following drugs: inhalants, Ecstasy, methamphetamine, cocaine, LSD/Psychedelics and heroin—provides prevention planners with an overall indicator of so-called “hard” drug use. Marijuana use is excluded from this index because the higher prevalence of marijuana use tends to wash out the presence or absence of the other drugs. In other words, an indicator of “Any Illicit Drug Use (*Including Marijuana*)” primarily measures marijuana use.



- Lifetime prevalence of any illicit drug (other than marijuana) use rises from a low of 4.1% among 11th graders to a high of 9.1% among 12th graders. Overall, 7.0% of Dedham High School students have used an illicit drug (other than marijuana) at least once in their lifetimes.
- Past-30-day prevalence of any illicit drug (other than marijuana) use rises from a low of 1.2% among 9th graders to a high of 3.8% among 10th graders. Overall, 2.1% of Dedham High School students have used an illicit drug (other than marijuana) at least once in the past 30 days.

Section 4

Other Antisocial Behaviors

Introduction

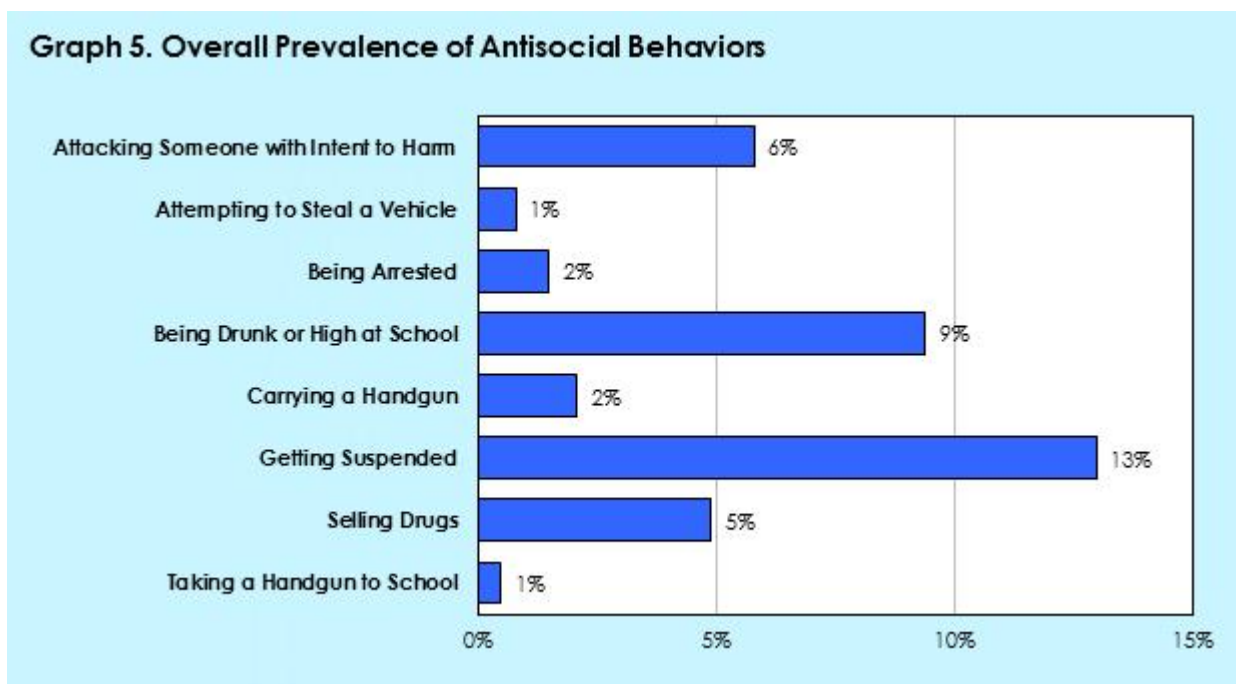
The *Communities That Care Youth Survey* also measures a series of eight other problem, or antisocial, behaviors—that is, behaviors that run counter to established norms of good behavior.

- Attacking Someone with Intent to Harm
- Attempting to Steal a Vehicle
- Being Arrested
- Being Drunk or High at School
- Carrying a Handgun
- Getting Suspended
- Selling Drugs
- Taking a Handgun to School

Measurement

As with alcohol, tobacco and other drug use, prevalence tables and graphs are employed to illustrate the percentages of students who reported other antisocial behaviors. In contrast to the lifetime and past-30-day prevalence rates reported for alcohol, tobacco and other drug use, other antisocial behavior prevalence rates are for the incidence of behavior over the past 12 months.

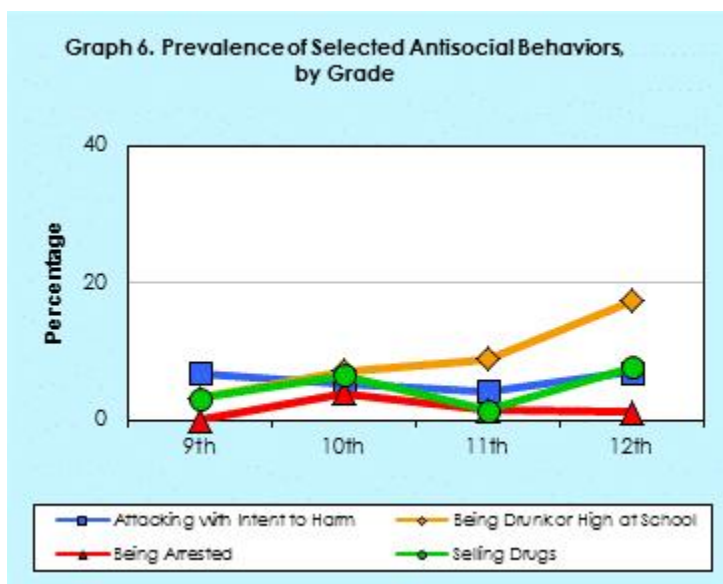
Overall Results



Other antisocial behavior prevalence rates for the combined sample of 9th through 12th graders are presented in Graph 5, and in the overall results column of Table 7. Across all grades, 13.0% of students reported *Getting Suspended* in the past year, making it the most prevalent of the eight antisocial behaviors in Dedham High School. *Being Drunk or High at School* is the second most prevalent antisocial behavior, with 9.4% of Dedham High School students reporting having been drunk or high in the past year. Students in Dedham High School reported very low levels of participation in the following antisocial behaviors: *Attempting to Steal a Vehicle* and *Taking a Handgun to School*.

Grade-Level Results

Other antisocial behavior prevalence rates within individual grades are presented in Graph 6 and Table 7. In many communities, these behaviors reveal a complex pattern of changes across grades. Typically, reports of *Being Drunk or High at School* and *Selling Drugs* follow the ATOD model, with prevalence rates increasing through the upper grade levels. In contrast, reports of *Attacking Someone with Intent to Harm*, *Getting Suspended* and *Being Arrested* often peak in the late middle school or early high school years. Prevalence rates for *Attempting to Steal a Vehicle*, *Carrying a Handgun* and *Taking a Handgun to School* are generally too low to allow meaningful comparisons across



grade levels. Prevention planners in Dedham High School should review the other antisocial behavior profiles within individual grades, with special attention toward behaviors that show a marked deviation from these patterns.

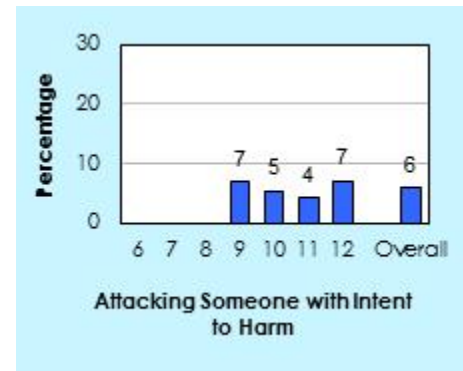
Table 7. Percentage of Surveyed Youth Who Reported Engaging in Antisocial Behaviors, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Attacking Someone with Intent to Harm				6.8	5.2	4.1	6.9	5.8
Attempting to Steal a Vehicle				0.0	1.9	0.0	1.1	0.8
Being Arrested				0.0	3.8	1.4	1.1	1.5
Being Drunk or High at School				3.1	7.1	8.9	17.3	9.4
Carrying a Handgun				1.2	1.9	1.4	2.3	2.1
Getting Suspended				5.6	14.6	17.7	13.3	13.0
Selling Drugs				3.1	6.5	1.4	7.6	4.9
Taking a Handgun to School				0.0	0.6	0.0	0.6	0.5
Average				2.5	5.2	4.4	6.3	4.8

Attacking Someone with Intent to Harm

Attacking someone with intent to harm is measured by the question “How many times in the past year (12 months) have you attacked someone with the idea of seriously hurting them?” The question does not ask specifically about the use of a weapon; therefore, occurrences of physical fighting without weapons will be captured with this question.

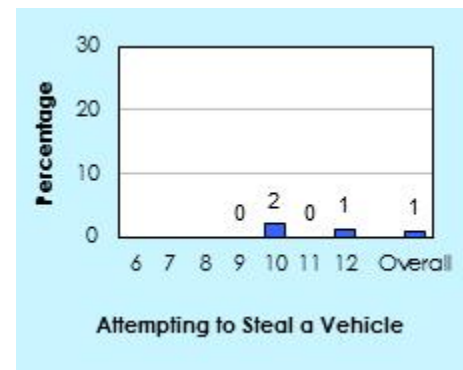
- Prevalence rates for *Attacking Someone with Intent to Harm* range from a low of 4.1% among 11th graders to a high of 6.9% among 12th graders. Overall, 5.8% of Dedham High School students reported having attacked someone with intent to harm.



Attempting to Steal a Vehicle

Vehicle theft is measured by the question “How many times in the past year (12 months) have you stolen or tried to steal a motor vehicle such as a car or motorcycle?”

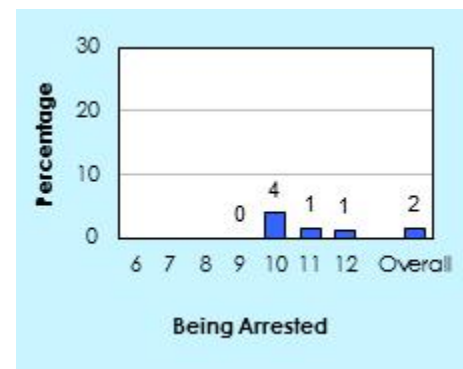
- Prevalence rates for *Attempting to Steal a Vehicle* range from a low of 0.0% among 9th and 11th graders to a high of 1.9% among 10th graders. Overall, 0.8% of Dedham High School students reported having attempted to steal a vehicle.



Being Arrested

Any student experience with being arrested is measured by the question “How many times in the past year (12 months) have you been arrested?” Note that the question does not define “arrested.” Rather, it is left to the individual respondent to define. Some youths may define any contact with police as an arrest, while others may consider that only an official arrest justifies a positive answer to this question.

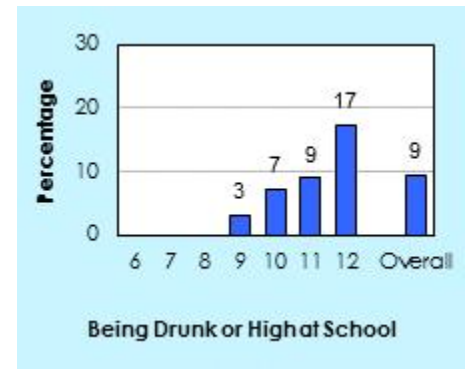
- Prevalence rates for *Being Arrested* range from a low of 0.0% among 9th graders to a high of 3.8% among 10th graders. Overall, 1.5% of Dedham High School students reported having been arrested.



Being Drunk or High at School

Having been drunk or high at school is measured by the question “How many times in the past year (12 months) have you been drunk or high at school?”

- Prevalence rates for *Being Drunk or High at School* range from a low of 3.1% among 9th graders to a high of 17.3% among 12th graders. Overall, 9.4% of Dedham High School students reported having been drunk or high at school in the past year.



Carrying a Handgun

Carrying a handgun is measured by the question “How many times in the past year (12 months) have you carried a handgun?”

- Prevalence rates for *Carrying a Handgun* range from a low of 1.2 % among 9th graders to a high of 2.3% among 12th graders. Overall, 2.1% of Dedham High School students reported having carried a handgun in the past year.



Getting Suspended

Suspension is measured by the question “How many times in the past year (12 months) have you been suspended from school?” Note that the question does not define “suspension.” Rather, it is left to the individual respondent to make that definition. School suspension rates vary substantially from district to district. Therefore, these rates should be interpreted by someone knowledgeable about local school suspension policy.

- Prevalence rates for *Getting Suspended* range from a low of 5.6 % among 9th graders to a high of 17.7% among 11th graders. Overall, 13.0% of Dedham High School students reported having gotten suspended in the past year.



Selling Drugs

Selling drugs is measured by the question “How many times in the past year (12 months) have you sold illegal drugs?” Note that the question asks about, but does not define or specify, “illegal drugs.”

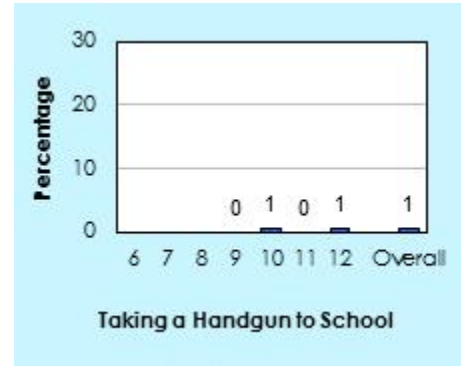
- Prevalence rates for *Selling Drugs* range from a low of 1.4% among 11th graders to a high of 7.6% among 12th graders. Overall, 4.9% of Dedham High School students reported having sold drugs in the past year.



Taking a Handgun to School

Taking a handgun to school is measured by the question “How many times in the past year (12 months) have you taken a handgun to school?”

- Prevalence rates for *Taking a Handgun to School* are very low across all grade levels. Overall, 0.5% of Dedham High School students reported having taken a handgun to school in the past year.



References

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Appendix A

Additional Prevention Planning Data

Introduction

The following section presents detailed response data for survey items that may be of particular interest to prevention planners. Some of this information has already been presented earlier in this report in the form of several of the risk factor scale scores (see Section 2). These detailed response data have been provided to help communities form a more complete picture of the attitudes and behaviors held by the youth who were surveyed. It is important, however, to view this information within the context of the risk and protective factor framework covered earlier in this report.

Age of Onset

Using age-of-initiation data to coordinate the timing of prevention efforts can be an important tool for maximizing program effectiveness. For example, programs delivered after the majority of potential drug users have already initiated the behavior may have limited impact. Alternatively, very early intervention might prove less effective because it is not close enough to the critical initiation period.

Surveyed youth were asked to report on when they began using alcohol, cigarettes and marijuana. These drugs are generally considered to be the major gateway drugs, usually preceding the use of harder drugs (National Center on Addiction and Substance Abuse at Columbia University [CASA], 1994). The question related to cigarettes is “How old were you when you first smoked a cigarette, even just a puff?” The question about marijuana is “How old were you when you first smoked marijuana?” Two questions about alcohol were asked, one asking when the student first “had more than a sip or two of beer, wine or hard liquor (for example, vodka, whiskey or gin)” and one asking the student when he or she “began drinking alcoholic beverages regularly, that is, at least once or twice a month.” Table A1 presents the average age of onset students reported within each grade level. These four survey questions form part of the risk factor scale *Early Initiation of Drug Use*. Table A1 also presents the average age of onset for five of the other antisocial behaviors.

For most of the data included in this report, readers are encouraged to examine both overall results and findings for each participating grade. In contrast, to best determine when young people first start using ATODs, it is important to examine the responses of the youth in the highest grade in the sample. This is because scores for this item are based only on students who reported engaging in the behavior. Consequently, younger students who eventually experiment with ATODs as they enter higher grades are excluded from the analysis, resulting in misleadingly early age-of-onset scores for the lower grades.

Table A1. Average Age of Onset Reported by Surveyed Youth, by Grade

	6 th	7 th	8 th	9 th	10 th	11 th	12 th	Overall
Trying Alcohol				13.1	14.0	14.6	14.6	14.2
Drinking Alcohol Regularly				13.7	14.5	15.3	15.5	15.1
Smoking Cigarettes				12.7	12.9	13.8	14.4	13.7
Smoking Marijuana				13.1	14.0	14.6	14.8	14.4
Being Suspended from School				11.7	12.8	13.4	13.5	13.1
Being Arrested				13.5	13.1	14.5	13.6	13.5
Carrying a Handgun				.	13.0	15.0	14.8	13.9
Attacking Someone with Intent to Harm				11.9	12.7	14.5	13.9	13.1
Belonging to a Gang				13.0	12.5	15.0	13.8	13.4

Risk of Harm

Perception of risk is an important determinant in the decision-making process young people go through when deciding whether or not to use alcohol, tobacco or other drugs (Bachman, Johnston, O'Malley, & Humphrey, 1988). Data analysis across a range of *Communities That Care Youth Survey* communities shows a consistent negative correlation between perception of risk and the level of reported ATOD use. That is, generally when the perceived risk of harm is high, reported frequency of use is low. Evidence also suggests that perceptions of the risks and benefits associated with drug use sometimes serve as a leading indicator of future drug use patterns in a community (Bachman, Johnston, O'Malley, & Humphrey, 1986). Table A2 presents prevalence rates for surveyed youth assigning “great risk” of harm to four drug use behaviors: regular use of alcohol (one or two drinks nearly every day), regular use of cigarettes (a pack or more daily), trying marijuana once or twice, and regular use of marijuana. These four survey items form the risk factor scale *Low Perceived Risks of Drug Use*.

Table A2. Percentage of Surveyed Youth Who Reported Perception of “Great Risk” of Harm, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Drinking Alcohol Regularly				43.5	44.8	44.8	42.2	44.1
Smoking Cigarettes Regularly				75.0	73.4	78.8	77.8	76.3
Trying Marijuana Once or Twice				18.1	12.9	12.3	13.0	14.2
Smoking Marijuana Regularly				51.0	31.6	25.9	26.8	33.6

Disapproval of Drug Use

Personal approval or disapproval is another key attitudinal construct that influences drug use behavior (Bachman et al., 1988). Like risk of harm, disapproval is negatively correlated with the level of reported ATOD use across a range of *Communities That Care Youth Survey* communities. Personal disapproval was measured by asking surveyed youth how wrong it would be for someone their age to drink alcohol regularly, smoke cigarettes, smoke marijuana, or use other illicit drugs (“LSD, cocaine, amphetamines or another illegal drug”). The rates presented in Table A3 represent the percentages of surveyed youth who

thought it would be “wrong” or “very wrong” to use each drug. These four survey items form the risk factor scale *Favorable Attitudes toward ATOD Use*.

Table A3. Percentage of Surveyed Youth Who Indicated Personal Disapproval of Drug Use, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Drinking Alcohol Regularly				79.5	58.2	55.1	48.5	60.2
Smoking Cigarettes				91.3	89.5	87.6	84.3	88.1
Smoking Marijuana				78.9	61.9	57.2	50.3	61.7
Using Other Illicit Drugs				98.1	95.5	98.0	95.9	96.8

Social Norms

In addition to students’ own attitudes, social norms—the written and unwritten rules and expectations about what constitutes desirable behavior—shape drug use choices. Since drug-related attitudes and behaviors are often acquired through peer group interactions, expectations of how one’s peer group might react have an especially strong impact on whether or not young people choose to use drugs. The data presented in Table A4 show the percentage of surveyed youth who said that there is a “pretty good” or “very good” chance that they would be seen as cool if they smoked cigarettes, drank alcohol regularly (once or twice a month) or smoked marijuana. These three survey items form part of the risk factor scale *Peer Rewards for Antisocial Behavior*.

Table A4. Percentage of Surveyed Youth Who Indicated Peer Approval of Drug Use, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Drinking Alcohol Regularly				12.6	23.2	18.9	25.9	20.0
Smoking Cigarettes				5.0	4.5	0.0	2.3	2.9
Smoking Marijuana				16.4	19.1	17.2	21.6	18.5

In addition to peer attitudes, social norms toward drug use were measured by asking how most neighborhood adults would view student alcohol, cigarette and marijuana use. Table A5 presents the percentage of surveyed youth who thought other adults would feel it was “wrong” or “very wrong” to use each drug. These three survey items form part of the risk factor scale *Laws and Norms Favorable to Drug Use*.

Table A5. Percentage of Surveyed Youth Who Indicated “Other Adults” Disapprove of Drug Use, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Drinking Alcohol				87.7	78.3	74.5	75.5	78.5
Smoking Cigarettes				92.1	88.3	84.5	82.5	86.6
Smoking Marijuana				88.7	78.3	79.3	78.4	81.4

Frequency of Drug Use

While the prevalence rates presented in Section 3 are useful for determining how many kids are currently using or have experimented with a drug, they give no indication of the frequency or intensity of use. A respondent who reports 1 or 2 occasions of use in the past 30 days is counted the same as one who reports 40 or more occasions of use, even though the level of use is drastically different. Tables A6-A8 present the past-30-day frequency of use reported by surveyed youth for the following drugs: alcohol, cigarettes, and marijuana or hashish.

Table A6. Past-30-Day Frequency of Alcohol Use Reported by Surveyed Youth, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
0 occasions				85.7	74.1	60.0	53.8	68.1
1 or 2 occasions				11.2	14.6	29.0	24.3	19.5
3 to 5 occasions				1.9	5.7	5.5	12.1	6.7
6 to 9 occasions				0.6	3.2	3.4	5.2	3.3
10 to 19 occasions				0.0	1.3	2.1	0.6	0.9
20 to 39 occasions				0.0	0.0	0.0	2.3	0.6
40 or more occasions				0.6	1.3	0.0	1.7	0.9

Table A7. Past-30-Day Frequency of Cigarette Use Reported by Surveyed Youth, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Not at all				98.1	93.6	94.6	94.3	95.0
Less than one cigarette per day				0.6	3.2	2.0	2.3	2.1
One to five cigarettes per day				0.6	1.9	2.0	1.1	1.5
About one-half pack per day				0.6	0.6	0.7	1.7	0.9
About one pack per day				0.0	0.6	0.7	0.0	0.3
About one and one-half packs per day				0.0	0.0	0.0	0.6	0.2
Two packs or more per day				98.1	93.6	94.6	94.3	95.0



Table A8. Past-30-Day Frequency of Marijuana or Hashish Use Reported by Surveyed Youth, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
0 occasions				91.9	75.8	78.2	73.0	79.3
1 or 2 occasions				1.9	10.2	9.5	7.5	7.4
3 to 5 occasions				1.2	3.2	2.7	1.7	2.3
6 to 9 occasions				2.5	4.5	2.7	4.6	3.5
10 to 19 occasions				0.6	1.3	4.1	2.9	2.1
20 to 39 occasions				0.6	1.9	2.0	4.6	2.4
40 or more occasions				1.2	3.2	0.7	5.7	3.0

Gang Involvement

Gangs have long been associated with crime, violence and other antisocial behaviors. Evidence suggests that gangs contribute to antisocial behavior beyond simple association with delinquent peers. Table A9 presents the percentage of surveyed youth indicating gang involvement.

Table A9. Percentage of Surveyed Youth Who Indicated Gang Involvement, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Ever Belonged to a Gang				0.0	2.6	4.1	5.2	3.0
Belonged to a Gang with a Name				0.7	2.1	2.9	4.3	2.6

Interaction with Prosocial Peers

The *Communities That Care Youth Survey* recently included five questions that measure *Interaction with Prosocial Peers*, a new protective factor scale in the Peer and Individual domain. The questions ask about the extent to which students' friends are involved in prosocial activities, such as participation in school-based clubs and organizations and attending religious services.

Along with the family, peers exert a potent influence on behavior and attitudes. When young people interact with prosocial peers, they increase their attachment and commitment to a group that demonstrates healthy beliefs and clear standards. Prosocial peers model healthy behaviors and create opportunities for others to join them. They provide positive feedback and can form a support network for youth who are trying to overcome risk factors in their environment.

Because normative data are not yet available for this protective factor scale, a percentile score cannot be calculated and included in Section 2 of this report. Instead, response patterns for each of the five constituent survey questions are presented in the following tables.

Table A10. Number of Surveyed Youth's Four Best Friends Who Participated in Clubs, Organizations or Activities at School in Past 12 Months, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
None				9.7	8.9	8.6	7.3	8.8
One				9.0	5.5	10.1	5.5	7.2
Two				18.7	10.3	13.7	11.6	13.4
Three				11.6	18.5	16.5	17.1	16.2
Four				51.0	56.8	51.1	58.5	54.5

Table A11. Number of Surveyed Youth's Four Best Friends Who Made a Commitment to Stay Drug-Free in Past 12 Months, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
None				27.7	42.0	35.5	37.7	35.9
One				11.5	10.5	20.3	18.2	15.4
Two				9.5	14.7	11.6	13.2	12.1
Three				8.8	9.1	10.9	3.8	7.8
Four				42.6	23.8	21.7	27.0	28.8

Table A12. Number of Surveyed Youth's Four Best Friends Who Liked School in Past 12 Months, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
None				32.0	29.4	36.9	23.0	30.0
One				11.1	16.1	15.6	11.2	13.5
Two				20.3	20.3	19.9	23.6	21.0
Three				12.4	16.8	9.2	18.0	14.0
Four				24.2	17.5	18.4	24.2	21.5

Table A13. Number of Surveyed Youth's Four Best Friends Who Regularly Attended Religious Services in Past 12 Months, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
None				29.3	26.2	37.5	35.6	32.7
One				30.7	27.0	29.4	28.8	28.8
Two				19.3	21.3	23.5	13.8	19.1
Three				12.0	14.9	5.9	8.8	10.0
Four				8.7	10.6	3.7	13.1	9.3

Table A14. Number of Surveyed Youth's Four Best Friends Who Tried to Do Well in School in Past 12 Months, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
None				2.6	4.2	2.1	6.8	4.2
One				5.8	6.9	2.9	3.1	4.6
Two				13.0	13.9	12.9	15.4	13.8
Three				12.3	24.3	22.9	21.6	19.9
Four				66.2	50.7	59.3	53.1	57.5

Note: Rounding on the above tables can produce totals that do not equal 100%.

Appendix B

Prescription Drug Use Items

Introduction

In recent years the nonmedical use of prescription drugs has emerged as a major public health issue. Both the *National Survey on Drug Use and Health* (Substance Abuse and Mental Health Services Administration, 2003) and the *Monitoring the Future* (Johnston et al., 2014) study, two major sources of youth drug abuse prevalence data, reported increases in the unauthorized use of prescription drugs at the beginning of the decade. This trend is particularly troubling given the adverse health consequences related to prescription drug abuse, which include addiction and physical dependence, and the possibility of overdose.

Despite these concerns, the research community is still in the early stages of developing survey instruments that can accurately measure the prevalence of prescription drug abuse. If anonymity is ensured, most students will honestly and accurately report their use of alcohol, tobacco, marijuana and other easily recognized categories of illicit drugs. The measurement of prescription drug use, however, is more complex. There are many prescription medicines that are subject to abuse, making it impossible to present an exhaustive list. Also, respondents may have difficulty identifying the names of prescription drugs they have used, and they may have difficulty distinguishing between prescription and over-the-counter medications.

With these challenges in mind, the *Communities That Care Youth Survey* recently included six new questions designed to measure prevalence-of-use rates across the three prescription drug categories that, according to the National Institute on Drug Abuse, are among the most likely to be abused: pain relievers, stimulants and tranquilizers. Each question includes examples of some of the best known drugs within that category.

On how many occasions (if any) have you:

- Used prescription pain relievers, such as Vicodin[®], OxyContin[®] or Tylox[®], without a doctor's orders, in your lifetime?
- Used prescription pain relievers, such as Vicodin[®], OxyContin[®] or Tylox[®], without a doctor's orders, during the past 30 days?
- Used prescription stimulants, such as Ritalin[®] or Adderall[®], without a doctor's orders, in your lifetime?

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- Used prescription stimulants, such as Ritalin® or Adderall®, without a doctor's orders, during the past 30 days?
 - Used prescription tranquilizers, such as Xanax®, Valium® or Ambien®, without a doctor's orders, in your lifetime?
 - Used prescription tranquilizers, such as Xanax®, Valium® or Ambien®, without a doctor's orders, during the past 30 days?

Initial steps have been taken to validate these items—that is, to confirm that respondents understand the questions and are reporting unauthorized use of prescription drugs. The first step in this process involved comparing prevalence rates recorded in a county-level sample to data gathered in the 2002 *National Survey on Drug Use and Health*. In this national sample, respondents between the ages of 12 and 17 reported lifetime prevalence rates of 11.2% for pain reliever use and 4.3% for stimulant use. In the county-level sample, respondents across all four surveyed grades (6th, 8th, 10th and 12th) reported lifetime rates of 11.5% and 4.8% for pain relievers and stimulants, respectively. (A comparison of tranquilizer prevalence rates is not appropriate because the *National Survey on Drug Use and Health* separates tranquilizers and sedatives into two distinct categories.) While it is difficult to directly compare results across studies because of differences in question formatting and sample composition, the similarity in prevalence rates supports the validity of the *Communities That Care Youth Survey* prescription drug questions.

The second step in the initial validity testing involved correlating unauthorized prescription drug use with other types of illegal drug use. Research has consistently shown that young people who report one form of illegal ATOD use are more likely to report other forms of ATOD use as well (Everett, Giovino, Warren, Crossett & Kann, 1998). Students who smoke cigarettes, for example, are much more likely than nonsmokers to regularly use alcohol. As expected, reports of unauthorized prescription drug use in the sample schools correlated highly with other types of illegal ATOD use. For example, 12th graders who reported the use of prescription pain relievers without a doctor's orders within the past 30 days were 5.5 times more likely to be current marijuana users than were 12th graders who did not report prescription pain reliever use. Similarly, 12th graders who reported the use of prescription stimulants without a doctor's orders within the past 30 days were 12.5 times more likely to be current cocaine users than were 12th graders who did not report prescription stimulant use.

It is important to note, however, that these statistical tests, while promising, represent only a preliminary effort at measurement validation. While the data in tables B1 and B2 are presented to help guide prevention planning efforts in your community, they should be interpreted with caution. Further testing and refinement of these questions are likely to have an impact on response patterns and reported prevalence rates.

Prevalence of Prescription Drug Use

Table B1. Percentage of Surveyed Youth Who Reported Lifetime Prescription Drug Use, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Pain Relievers				5.7	7.1	4.8	11.6	7.5
Stimulants				1.3	5.1	5.4	12.8	6.1
Tranquilizers				0.6	2.5	0.7	4.6	2.1

Table B2. Percentage of Surveyed Youth Who Reported Past-30-Day Prescription Drug Use, by Grade

	6 th %	7 th %	8 th %	9 th %	10 th %	11 th %	12 th %	Overall %
Pain Relievers				2.5	1.9	0.0	3.5	2.3
Stimulants				0.6	1.9	2.1	4.0	2.1
Tranquilizers				0.6	1.3	0.0	0.6	0.6

Appendix C

Other Resources

Web Sites

Office of National Drug Control Policy www.whitehousedrugpolicy.gov

National Clearinghouse for Alcohol and Drug Information www.health.org/index.htm

Substance Abuse and Mental Health Services Administration (SAMHSA) www.samhsa.gov

Monitoring the Future www.monitoringthefuture.org

National Institute on Drug Abuse (NIDA) www.nida.nih.gov and www.drugabuse.gov

National Institute on Alcohol Abuse and Alcoholism (NIAAA) www.niaaa.nih.gov

Social Development Research Group <http://depts.washington.edu/sdrg>

Prevention Program Guides

Center for Substance Abuse Prevention, Western Center for the Application of Prevention Technologies. (2004). *Building a successful prevention program: list of all practices*. [Data file]. Available at the University of Nevada Reno's Web site, <http://casat.unr.edu/bestpractices/alpha-list.php>.

Center for the Study and Prevention of Violence, Institute of Behavioral Science. (2004). *Blueprints for Violence Prevention*. [Data file]. Available from the University of Colorado Boulder's Web site, www.colorado.edu/cspv/blueprints.

Hawkins, J. D., & Catalano, R. F. (2004). *Communities That Care Prevention Strategies Guide*. [Data file]. Available from the SAMHSA Web site, <http://preventionplatform.samhsa.gov/>.

U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration (SAMHSA). (2004). *Model Programs list*. [Data file]. Available from the SAMHSA Web site, <http://modelprograms.samhsa.gov>.

Prevention Planning

Hawkins, J. D., Catalano, R. F., & Associates. (1992). *Communities that care: Action for drug abuse prevention* (1st ed.). San Francisco: Jossey-Bass.